



# The bidi Package

Source documentation for version 38.8

to my Master, *Ferdowsi The Great*

If you want to report any bugs or typos and corrections in the documentation, or ask for any new features, or suggest any improvements, or ask any questions about the package, then please use the issue tracker:

<https://github.com/kvafa/bidi/issues>

In doing so, please always explain your issue well enough, and always include a minimal working example showing the issue.

You may also have conversations, ask questions and post answers without opening issues using the Discussions space:

<https://github.com/kvafa/bidi/discussions>

The announcements for the new releases of the package will also appear in the Discussions space under the Announcements category.

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# The *bidi* Package

## Bidirectional typesetting in plain $\text{T}_{\text{E}}\text{X}$ and $\text{\LaTeX}$ , using $\text{XeT}_{\text{E}}\text{X}$ engine

Source documentation for [version 38.8](#)

Vafa Khalighi\*

July 7, 2022

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\*Thanks to the `bidi-tex` GitHub organization consisted of David Carlisle and other members of the  $\text{\LaTeX}$  team to maintain the package in the period 2018–2020.

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## 1 File amsart-xetex-bidi.def

```

1 \ProvidesFile{amsart-xetex-bidi.def}[2017/08/09 v1.1 bidi adaptations for amsart class for X
2 \def\tocline#1#2#3#4#5#6#7{\relax
3   \ifnum #1>\c@tocdepth % then omit
4   \else
5     \par \addpenalty\@secpenalty\addvspace{#2}%
6     \begingroup \hyphenpenalty\@M
7     \@ifempty{#4}{%
8       \@tempdima\csname r@tocindent\number#1\endcsname\relax
9     }{%
10      \@tempdima#4\relax
11    }%
12    \parindent\z@ \if@RTL\righskip\else\leftskip\fi#3\relax \advance\if@RTL\righskip\else\
13    \if@RTL\leftskip\else\righskip\fi\@pnumwidth plus4em \parfillskip-\@pnumwidth
14    #5\leavevmode\hskip-\@tempdima #6\nobreak\relax
15    \hfil\hbox to\@pnumwidth{\@tocpagenum{#7}}\par
16    \nobreak
17  \endgroup
18 \fi}
19 \renewcommand\thesubsection {\thesection\@SepMark\arabic{subsection}}
20 \renewcommand\thesubsubsection {\thesubsection \@SepMark\arabic{subsubsection}}
21 \renewcommand\theparagraph {\thesubsubsection\@SepMark\arabic{paragraph}}
22 \renewcommand\thesubparagraph {\theparagraph\@SepMark\arabic{subparagraph}}
23 \def\part{\@startsection{part}{0}%
24   \z@{\linespacing\@plus\linespacing}{.5\linespacing}%
25   {\normalfont\bfseries\if@RTL\raggedleft\else\raggedright\fi}}
26 \def\right@footnoterule{%
27   \kern-.4\p@
28   \hbox to \columnwidth{\hskip \dimexpr\columnwidth-5pc\relax \hrulefill }
29   \kern11\p@\kern-\footnotesep}
30 \def\left@footnoterule{\kern-.4\p@
31   \hrule\@width 5pc\kern11\p@\kern-\footnotesep}
32
33
34 \long\def\@footnotetext#1{%
35   \insert\footins{%
36     \if@RTL\footnote\@RTLtrue\else\@RTLfalse\fi%
37     \reset@font%
38     \bidi@footnotetext@font% \normalfont\footnotesize
39     \interlinepenalty\interfootnotelinepenalty
40     \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
41     \floatingpenalty\@MM \hsize\columnwidth
42     \@parboxrestore \parindent\normalparindent \sloppy
43     \protected@edef\@currentlabel{%
44       \csname p@footnote\endcsname\@thefnmark}%
45     \@makefnmark%
46     \rule\z@\footnotesep\ignorespaces#1\unskip\strut\par}}}
47
48 \long\def\@RTLfootnotetext#1{%
49   \insert\footins{%
50     \@RTLtrue%
51     \reset@font%
52     \bidi@RTLfootnotetext@font% \normalfont\footnotesize

```



```

53 \interlinepenalty\interfootnotelinepenalty
54 \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
55 \floatingpenalty\@MM \hsize\columnwidth
56 \@parboxrestore \parindent\normalparindent \sloppy
57 \protected@edef\@currentlabel{%
58 \csname p@footnote\endcsname\@thefnmark}%
59 \@makefnmark{%
60 \rule{z@\footnotesep\ignorespaces#1\unskip\strut\par}}
61
62
63
64 \long\def\@LTRfootnotetext#1{%
65 \insert\footins{%
66 \@RTLfalse%
67 \reset@font%
68 \bidi@LTRfootnotetext@font% \normalfont\footnotesize
69 \interlinepenalty\interfootnotelinepenalty
70 \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
71 \floatingpenalty\@MM \hsize\columnwidth
72 \@parboxrestore \parindent\normalparindent \sloppy
73 \protected@edef\@currentlabel{%
74 \csname p@footnote\endcsname\@thefnmark}%
75 \@makefnmark{%
76 \rule{z@\footnotesep\ignorespaces#1\unskip\strut\par}}}
77
78
79 \footdir@temp\footdir@ORG@bidi@amsart@footnotetext\@footnotetext{\bidi@footdir@footnote}%
80 \footdir@temp\footdir@ORG@bidi@amsart@RTLfootnotetext\@RTLfootnotetext{R}%
81 \footdir@temp\footdir@ORG@bidi@amsart@LTRfootnotetext\@LTRfootnotetext{L}%
82
83 \renewenvironment{thebibliography}[1]{%
84 \@bibtitlestyle
85 \normalfont\bibliofont\labelsep .5em\relax
86 \renewcommand\theenumiv{\arabic{enumiv}}\let\p@enumiv\@empty
87 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
88 \bidi@thebibliography@font@hook%
89 \list{\@biblabel{\theenumiv}}{\settowidth\labelwidth{\@biblabel{#1}}%
90 \leftmargin\labelwidth \advance\leftmargin\labelsep
91 \usecounter{enumiv}}%
92 \sloppy \clubpenalty\@M \widowpenalty\clubpenalty
93 \sfcode`\.=\@m
94 }{%
95 \def\@noitemerr{\@latex@warning{Empty `thebibliography' environment}}%
96 \endlist
97 }
98 \def\theindex{\@restonecoltrue\if@twocolumn\@restonecolfalse\fi
99 \columnseprule{z@ \columnsep 35\p@
100 \@indextitlestyle
101 \thispagestyle{plain}%
102 \let\item\@idxitem
103 \parindent{z@ \parskip{z@\@plus.3\p@}\relax
104 \if@RTL\raggedleft\else\raggedright\fi
105 \hyphenpenalty\@M
106 \footnotesize}

```



```

107 \def\@idxitem{\par\hangindent \if@RTL-\fi2em}
108 \def\subitem{\par\hangindent \if@RTL-\fi2em\hspace*{1em}}
109 \def\subsubitem{\par\hangindent \if@RTL-\fi3em\hspace*{2em}}
110 \def\maketitle{\par
111   \@topnum\z@ % this prevents figures from falling at the top of page 1
112   \@setcopyright
113   \thispagestyle{firstpage}% this sets first page specifications
114   \uppercase\nonmath\shorttitle
115   \ifx\@empty\shortauthors \let\shortauthors\shorttitle
116   \else \andify\shortauthors
117   \fi
118   \@maketitle@hook
119   \begingroup
120   \@maketitle
121   \toks@{\exp{\shortauthors}\@temptokena\exp{\shorttitle}}%
122   \toks4{\def\{\ \ignorespaces}}% defend against questionable usage
123   \edef\@tempa{%
124     \@nx\markboth{\the\toks4
125       \@nx\MakeUppercase{\the\toks@}}{\the\@temptokena}}%
126   \@tempa
127   \endgroup
128   \c@footnote\z@
129   \cleartopmattertags
130 }

```

## 2 File adjmulticol-xetex-bidi.def

```

131 \ProvidesFile{adjmulticol-xetex-bidi.def}[2015/04/25 v0.1 bidi adaptations for adjmulticol p
132 \def\adjmulticols#1#2#3{\col@number#1\relax
133   \def\@tempa{#2}%
134   \ifx\@tempa\@empty\adjmc@inner\z@\else\adjmc@inner#2\fi
135   \def\@tempa{#3}%
136   \ifx\@tempa\@empty\adjmc@outer\z@\else\adjmc@outer#3\fi
137   \ifnum\col@number<\@ne
138     \PackageWarning{adjmulticol}%
139       {Using '\number\col@number'
140        columns doesn't seem a good idea.^^J
141        I therefore use one columns instead}%
142     \col@number\@ne\fi
143   \ifnum\col@number>10
144     \PackageError{adjmulticol}%
145       {Too many columns}%
146       {Current implementation doesn't
147        support more than 10 columns.%
148       \MessageBreak
149        I therefore use 10 columns instead}%
150     \col@number10 \fi
151   \ifx\@footnotetext\mult@footnotetext\else
152     \let\orig@footnotetext\@footnotetext
153     \let\@footnotetext\mult@footnotetext
154   \fi
155   \ifx\@LTRfootnotetext\mult@LTRfootnotetext\else
156     \let\orig@LTRfootnotetext\@LTRfootnotetext
157     \let\@LTRfootnotetext\mult@LTRfootnotetext

```



```

158     \fi
159     \ifx\@RTLfootnotetext\mult@RTLfootnotetext\else
160         \let\orig@RTLfootnotetext\@RTLfootnotetext
161         \let\@RTLfootnotetext\mult@RTLfootnotetext
162     \fi
163     \@ifnextchar[\adjmult@cols{\adjmult@cols[]}]{}
164     \let\adjmc@page@sofar@orig=\page@sofar

```

### 3 File algorithm2e-xetex-bidi.def

```

165 \ProvidesFile{algorithm2e-xetex-bidi.def}[2018/09/23 v0.2 bidi adaptations for algorithm2e p
166 \expandafter\ifx\c@name algocf@within\endcsname\relax% if \algocf@within doesn't exist
167 \else%
168     \renewcommand\thealgocf{\c@name the\algocf@within\endcsname\@SepMark\@arabic\c@algocf}%
169 \fi
170 \@ifpackageloaded{color}{}{}%
171 \bidi@patchcmd{\@algocf@start}{\bgroup}{}%
172     \bgroup
173     \if@RTL
174         \beginR
175     \else
176         \beginL
177     \fi
178 }{}{}
179 \bidi@patchcmd{\@algocf@finish}{\egroup\end{lrbox}}{}%
180     \if@RTL
181         \endR
182     \else
183         \endL
184     \fi
185     \egroup
186     \end{lrbox}%
187 }{}{}
188 \bidi@patchcmd{\algocf@makecaption}{\hbox}{}%
189     \if@RTL
190         \hboxR
191     \else
192         \hboxL
193     \fi
194 }{}{}
195 }

```

### 4 File amsbook-xetex-bidi.def

```

196 \ProvidesFile{amsbook-xetex-bidi.def}[2017/08/09 v1.2 bidi adaptations for amsbook class for
197 \def\@tocline#1#2#3#4#5#6#7{\relax
198     \ifnum #1>\c@tocdepth % then omit
199     \else
200         \par \addpenalty\@secpenalty\addvspace{#2}%
201         \begingroup \hyphenpenalty\@M
202         \@ifempty{#4}{}%
203         \@tempdima\c@name r@tocindent\number#1\endcsname\relax
204     }{}%
205     \@tempdima#4\relax

```



```

206 }%
207 \parindent\z@ \if@RTL\righskip\else\leftskip\fi#3\relax \advance\if@RTL\righskip\else\
208 \if@RTL\leftskip\else\righskip\fi\@pnumwidth plus4em \parfillskip-\@pnumwidth
209 #5\leavevmode\hskip-\@tempdima #6\nobreak\relax
210 \hfil\hbox to\@pnumwidth{\@tocpagenum{#7}}\par
211 \nobreak
212 \endgroup
213 \fi}
214 \renewcommand\thesubsection {\thesection\@SepMark\arabic{subsection}}
215 \renewcommand\thesubsubsection {\thesubsection \@SepMark\arabic{subsubsection}}
216 \renewcommand\theparagraph {\thesubsubsection\@SepMark\arabic{paragraph}}
217 \renewcommand\thesubparagraph {\theparagraph\@SepMark\arabic{subparagraph}}
218 \def\theindex{\@restonecoltrue\if@twocolumn\@restonecolfalse\fi
219 \columnseprule\z@ \columnsep 35\p@
220 \@indextitlestyle
221 \thispagestyle{plain}%
222 \let\item\@idxitem
223 \parindent\z@ \parskip\z@\@plus.3\p@\relax
224 \if@RTL\raggedleft\else\raggedright\fi
225 \hyphenpenalty\@M
226 \footnotesize}
227 \def\@idxitem{\par\hangindent \if@RTL-\fi2em}
228 \def\subitem{\par\hangindent \if@RTL-\fi2em\hspace*{1em}}
229 \def\subsubitem{\par\hangindent \if@RTL-\fi3em\hspace*{2em}}
230 \def\right@footnoterule{%
231 \kern-.4\p@
232 \hbox to \columnwidth{\hskip \dimexpr\columnwidth-5pc\relax \hrulefill }
233 \kern11\p@\kern-\footnotesep}
234 \def\left@footnoterule{\kern-.4\p@
235 \hrule\@width 5pc\kern11\p@\kern-\footnotesep}
236
237 \long\def\@footnotetext#1{%
238 \insert\footins{%
239 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
240 \reset@font%
241 \bidi@footnotetext@font% \normalfont\footnotesize
242 \interlinepenalty\interfootnotelinepenalty
243 \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
244 \floatingpenalty\@MM \hsize\columnwidth
245 \@parboxrestore \parindent\normalparindent \sloppy
246 \protected@edef\@currentlabel{%
247 \csname p@footnote\endcsname\@thefnmark}%
248 \@makefnmark%
249 \rule\z@\footnotesep\ignorespaces#1\unskip\strut\par}}
250
251 \long\def\@RTLfootnotetext#1{%
252 \insert\footins{%
253 \@RTLtrue%
254 \reset@font%
255 \bidi@RTLfootnotetext@font% \normalfont\footnotesize
256 \interlinepenalty\interfootnotelinepenalty
257 \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
258 \floatingpenalty\@MM \hsize\columnwidth
259 \@parboxrestore \parindent\normalparindent \sloppy

```



```

260 \protected@edef\@currentlabel{%
261 \csname p@footnote\endcsname\@thefnmark}%
262 \@makefntext{%
263 \rule\z@{footnotesep\ignorespaces#1\unskip\strut\par}}
264
265
266 \long\def\@LTRfootnotetext#1{%
267 \insert\footins{%
268 \RTLfalse%
269 \reset@font%
270 \bidi@L@LTRfootnotetext@font% \normalfont\footnotesize
271 \interlinepenalty\interfootnotelinepenalty
272 \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
273 \floatingpenalty\@MM \hsize\columnwidth
274 \@parboxrestore \parindent\normalparindent \sloppy
275 \protected@edef\@currentlabel{%
276 \csname p@footnote\endcsname\@thefnmark}%
277 \@makefntext{%
278 \rule\z@{footnotesep\ignorespaces#1\unskip\strut\par}}}
279
280
281
282 \footdir@temp\footdir@ORG@bidi@amsbook@footnotetext\@footnotetext{\bidi@footdir@footnote}%
283 \footdir@temp\footdir@ORG@bidi@amsbook@RTLfootnotetext\@RTLfootnotetext{R}%
284 \footdir@temp\footdir@ORG@bidi@amsbook@LTRfootnotetext\@LTRfootnotetext{L}%
285
286 \renewenvironment{thebibliography}[1]{%
287 \@bibtitlestyle
288 \normalfont\bibliofont\labelsep .5em\relax
289 \renewcommand\theenumiv{\arabic{enumiv}}\let\p@enumiv\@empty
290 \ifRTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
291 \bidi@thebibliography@font@hook%
292 \list{\@biblabel{\theenumiv}}{\settowidth\labelwidth{\@biblabel{#1}}%
293 \leftmargin\labelwidth \advance\leftmargin\labelsep
294 \usecounter{enumiv}}%
295 \sloppy \clubpenalty\@M \widowpenalty\clubpenalty
296 \sfcode`\.=\@m
297 }{%
298 \def\@noitemerr{\@latex@warning{Empty `thebibliography' environment}}%
299 \endlist
300 }
301 \def\@makechapterhead#1{\global\topskip 7.5pc\relax
302 \begingroup
303 \fontsize{\@xivpt}{18}\bfseries\centering
304 \ifnum\c@secnumdepth>\m@ne
305 \leavevmode \hskip-\ifRTL\rightskip\else\leftskip\fi
306 \rlap{\vbox to\z@{\vss
307 \centerline{\normalsize\mdseries
308 \uppercase\@xp{\chaptername}\enspace\thechapter}
309 \vskip 3pc}}\hskip\ifRTL\rightskip\else\leftskip\fi\fi
310 #1\par \endgroup
311 \skip@34\p@ \advance\skip@-\normalbaselineskip
312 \vskip\skip@ }
313 \def\maketitle{\par

```



```

314 \@topnum\z@ % this prevents figures from falling at the top of page 1
315 \begingroup
316 \@maketitle
317 \endgroup
318 \c@footnote\z@
319 \def\do##1{\let##1\relax}%
320 \do\maketitle \do\@maketitle \do\title \do\@xtitle \do\@title
321 \do\author \do\@xauthor \do\address \do\@xaddress
322 \do\email \do\@xemail \do\curraddr \do\@xcurraddr
323 \do\dedicatory \do\@dedicatory \do\thanks \do\thankses
324 \do\keywords \do\@keywords \do\subjclass \do\@subjclass
325 }

```

## 5 File amsmath-xetex-bidi.def

```

326 \ProvidesFile{amsmath-xetex-bidi.def}[2020/05/16 v1.2 bidi adaptations for amsmath package f
327 \let\veqno=\eqno
328 \iftagsleft@ \let\veqno=\leqno \fi
329 \renewcommand{\numberwithin}[3][\arabic]{%
330   \ifundefined{c@#2}{\@nocounterr{#2}}{%
331     \ifundefined{c@#3}{\@nocnterr{#3}}{%
332       \@addtoreset{#2}{#3}%
333       \@xp\xdef\csname the#2\endcsname{%
334         \@xp\@nx\csname the#3\endcsname \@nx\@SepMark\@nx#1{#2}}}%
335   }
336 \def\tagform@#1{\maketag@@@{\if@nonlatin\beginR\fi(\kern\z@\ignorespaces#1\unskip\@italicco
337
338 \bidi@patchcmd\math@cr@@@align\place@tag{%
339   \place@tag
340   \else
341     \place@tag
342 }{}{}
343

```

## 6 File amstext-xetex-bidi.def

```

344 \ProvidesFile{amstext-xetex-bidi.def}[2016/09/12 v0.2 bidi adaptations for amstext package f
345 \def\textdef@#1#2#3{\hbox{%
346   \everymath{#1}%
347   \let\fontsize#2\selectfont
348   \if@nonlatin\beginR\fi#3\if@nonlatin\endR\fi}}}

```

## 7 File amsthm-xetex-bidi.def

```

349 \ProvidesFile{amsthm-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for amsthm package for
350 \def\@thmcountersep{\@SepMark}

```

## 8 File array-xetex-bidi.def

```

351 \ProvidesFile{array-xetex-bidi.def}[2015/11/07 v0.3 bidi adaptations for array package for X
352 \def\@testpach{\@chclass
353   \ifnum \@lastchclass=6 \@ne \@chnum \@ne \else
354   \ifnum \@lastchclass=7 5 \else
355   \ifnum \@lastchclass=8 \tw@ \else

```



```

356 \ifnum \@lastchclass=9 \thr@@
357 \else \z@
358 \ifnum \@lastchclass = 10 \else
359 \edef\@nextchar{\expandafter\string\@nextchar}%
360 \@chnum
361 \if \@nextchar c\z@ \else
362 \if \@nextchar \if@RTLtab r\else l\fi\@ne \else
363 \if \@nextchar \if@RTLtab l\else r\fi\tw@ \else
364 \z@ \@chclass
365 \if\@nextchar |\@ne \else
366 \if \@nextchar !6 \else
367 \if \@nextchar @7 \else
368 \if \@nextchar <8 \else
369 \if \@nextchar >9 \else
370 10
371 \@chnum
372 \if \@nextchar m\thr@@\else
373 \if \@nextchar p4 \else
374 \if \@nextchar b5 \else
375 \z@ \@chclass \z@ \@preamerr \z@ \fi \fi \fi \fi
376 \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi
377 \def\@tabular{%
378 \leavevmode
379 \hbox \bgroup\if@RTLtab\beginR \fi $\col@sep\tabcolsep \let\d@llarbegin\beginR
380 \let\d@llarend\endR\endgroup
381 \@tabarray}
382 \def\endtabular{\endarray $\if@RTLtab\endR\fi\egroup}
383 \expandafter\let\csname endtabular*\endcsname=\endtabular
384 \def\@array[#1]#2{%
385 \@tempdima \ht \strutbox
386 \advance \@tempdima by\extrarowheight
387 \setbox \@arstrutbox \hbox{\vrule
388 \@height \arraystretch \@tempdima
389 \@depth \arraystretch \dp \strutbox
390 \@width \z@}%
391 \beginR
392 \mkpream{#2}%
393 \xdef\@preamble{\noexpand \ialign \@halignto
394 \bgroup \@arstrut \@preamble
395 \tabskip \z@ \cr}%
396 \endgroup
397 \@arrayleft
398 \if #1t\vtop \else \if#1b\ vbox \else \vcenter \fi \fi
399 \bgroup
400 \let \@sharp ##\let \protect \relax
401 \lineskip \z@
402 \baselineskip \z@
403 \m@th
404 \let\\\@arraycr \let\tabularnewline\\\let\par\@empty \if@RTLtab\hbox\bgroup\beginR\@hboxR
405 \def\@tabarray{\@ifnextchar{\@array}{\@array[c]}}
406 \def\endarray{\cr\egroup\if@RTLtab\egroup\endR\egroup\fi \egroup \@arrayright \gdef\@preamble
407 \def\array{\col@sep\arraycolsep
408 \def\d@llarbegin{$}\let\d@llarend\d@llarbegin\gdef\@halignto{}}
409 \@RTLtabfalse\@tabarray}

```



## 9 File article-xetex-bidi.def

```

410 \ProvidesFile{article-xetex-bidi.def}[2017/06/09 v0.6 bidi adaptations for standard article]
411 \if@titlepage
412   \renewcommand\maketitle{\begin{titlepage}%
413     \let\footnotesize\small
414     \let\right@footnoterule\relax
415     \let\left@footnoterule\relax
416     \let\textwidth@footnoterule\relax
417     \let \footnote \thanks
418     \let \LTRfootnote \LTRthanks
419     \let \RTLfootnote \RTLthanks
420     \null\vfil
421     \vskip 60\p@
422     \begin{center}%
423       {\LARGE \@title \par}%
424       \vskip 3em%
425       {\large
426         \lineskip .75em%
427         \begin{tabular}[t]{c}%
428           \@author
429         \end{tabular}\par}%
430       \vskip 1.5em%
431       {\large \@date \par}%           % Set date in \large size.
432     \end{center}\par
433     \@thanks
434     \vfil\null
435   \end{titlepage}%
436   \setcounter{footnote}{0}%
437   \global\let\thanks\relax
438   \global\let\LTRthanks\relax
439   \global\let\RTLthanks\relax
440   \global\let\maketitle\relax
441   \global\let\@thanks\@empty
442   \global\let\@author\@empty
443   \global\let\@date\@empty
444   \global\let\@title\@empty
445   \global\let\title\relax
446   \global\let\author\relax
447   \global\let\date\relax
448   \global\let\and\relax
449 }
450 \else
451 \renewcommand\maketitle{\par
452   \begingroup
453     \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
454     \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
455     \long\def\@makefntext##1{\parindent 1em\noindent
456       \hb@xt@1.8em{%
457         \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
458     \if@twocolumn
459       \ifnum \col@number=\@ne
460         \@maketitle
461       \else

```



```

462     \twocolumn[\@maketitle]%
463     \fi
464     \else
465     \newpage
466     \global\@topnum\z@    % Prevents figures from going at top of page.
467     \@maketitle
468     \fi
469     \thispagestyle{plain}\@thanks
470 \endgroup
471 \setcounter{footnote}{0}%
472 \global\let\thanks\relax
473 \global\let\LTRthanks\relax
474 \global\let\RTLthanks\relax
475 \global\let\maketitle\relax
476 \global\let\@maketitle\relax
477 \global\let\@thanks\@empty
478 \global\let\@author\@empty
479 \global\let\@date\@empty
480 \global\let\@title\@empty
481 \global\let\title\relax
482 \global\let\author\relax
483 \global\let\date\relax
484 \global\let\and\relax
485 }
486 \def\@maketitle{%
487   \newpage
488   \null
489   \vskip 2em%
490   \begin{center}%
491     \let \footnote \thanks
492     \let \LTRfootnote \LTRthanks
493     \let \RTLfootnote \RTLthanks
494     {\LARGE \@title \par}%
495     \vskip 1.5em%
496     {\large
497       \lineskip .5em%
498       \begin{tabular}[t]{c}%
499         \@author
500       \end{tabular}\par}%
501     \vskip 1em%
502     {\large \@date}%
503   \end{center}%
504   \par
505   \vskip 1.5em}
506 \fi
507 \renewcommand*\l@part[2]{%
508   \ifnum \c@tocdepth >-2\relax
509     \addpenalty\@secpenalty
510     \addvspace{2.25em \@plus\p@}%
511     \setlength\@tempdima{3em}%
512     \begingroup
513       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
514       \parfillskip -\@pnumwidth
515     {\leavevmode

```



```

516     \large \bfseries #1\hfil \hb@xt@{\pnumwidth{\hss #2}}\par
517     \nobreak
518     \if@compatibility
519         \global\@nobreaktrue
520         \everypar{\global\@nobreakfalse\everypar{}}%
521     \fi
522 \endgroup
523 \fi}
524 \renewcommand*\l@section[2]{%
525 \ifnum \c@tocdepth >\z@
526     \addpenalty\@secpenalty
527     \addvspace{1.0em \@plus\p@}%
528     \setlength\@tempdima{1.5em}%
529     \begingroup
530     \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
531     \parfillskip -\@pnumwidth
532     \leavevmode \bfseries
533     \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
534     \hskip -\if@RTL\rightskip\else\leftskip\fi
535     #1\nobreak\hfil \nobreak\hb@xt@{\pnumwidth{\hss #2}}\par
536 \endgroup
537 \fi}
538 \renewcommand\left@footnoterule{%
539 \kern-3\p@
540 \hrule\@width.4\columnwidth
541 \kern2.6\p@}
542 \renewcommand\right@footnoterule{%
543 \kern-3\p@
544 \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
545 \kern2.6\p@}
546 \renewcommand\thesubsection {\thesection\@SepMark\@arabic\c@subsection}
547 \renewcommand\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
548 \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
549 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
550 \def\@part[#1]#2{%
551     \ifnum \c@secnumdepth >\m@ne
552         \refstepcounter{part}%
553         \addcontentsline{toc}{part}{\thepart\hspace{1em}#1}%
554     \else
555         \addcontentsline{toc}{part}{#1}%
556     \fi
557     {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
558     \interlinepenalty \@M
559     \normalfont
560     \ifnum \c@secnumdepth >\m@ne
561         \Large\bfseries \partname\nobreakspace\thepart
562         \par\nobreak
563     \fi
564     \huge \bfseries #2%
565     \markboth{}{}\par}%
566 \nobreak
567 \vskip 3ex
568 \@afterheading}
569 \renewenvironment{thebibliography}[1]

```



```

570 {\section*{\refname}%
571 \mkboth{\MakeUppercase\refname}{\MakeUppercase\refname}%
572 \ifRTL\ifLTRbibitems\RTLfalse\else\fi\else\ifRTLbibitems\RTLtrue\else\fi\fi
573 \bidi@thebibliography@font@hook%
574 \list{\@biblabel{\@arabic\c@enumiv}}%
575 {\settowidth\labelwidth{\@biblabel{#1}}%
576 \leftmargin\labelwidth
577 \advance\leftmargin\labelsep
578 \@openbib@code
579 \usecounter{enumiv}%
580 \let\p@enumiv\@empty
581 \renewcommand\theenumiv{\@arabic\c@enumiv}}%
582 \sloppy
583 \clubpenalty4000
584 \@clubpenalty \clubpenalty
585 \widowpenalty4000%
586 \sfcode\~.\@m}
587 {\def\@noitemerr
588 {\@latex@warning{Empty `thebibliography' environment}}}%
589 \endlist}
590 \renewenvironment{theindex}
591 {\if@twocolumn
592 \@restonecolfalse
593 \else
594 \@restonecoltrue
595 \fi
596 \columnseprule \z@
597 \columnsep 35\p@
598 \twocolumn[\section*{\indexname}]%
599 \mkboth{\MakeUppercase\indexname}%
600 {\MakeUppercase\indexname}%
601 \thispagestyle{plain}\parindent\z@
602 \parskip\z@ \@plus .3\p@\relax
603 \let\item\@idxitem}
604 {\if@restonecol\onecolumn\else\clearpage\fi}

```

## 10 File artikel1-xetex-bidi.def

```

605 \ProvidesFile{artikel1-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for artikel1 class f
606 \renewenvironment{theindex}{%
607 \if@twocolumn
608 \@restonecolfalse
609 \else
610 \@restonecoltrue
611 \fi
612 \columnseprule \z@
613 \columnsep 35\p@
614 \twocolumn[\section*{\indexname}]%
615 \mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
616 \thispagestyle{plain}\parindent\z@
617 \parskip\z@ \@plus .3\p@\relax
618 \let\item\@idxitem
619 }{%
620 \if@restonecol\onecolumn\else\clearpage\fi}

```



```

621 \renewcommand*\head@style{%
622     \interlinepenalty \@M
623     \hyphenpenalty=\@M \exhyphenpenalty=\@M
624     \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
625 \if@titlepage
626     \renewenvironment{abstract}{%
627         \titlepage
628         \null\vfil
629         \section*{\SectFont\abstractname}
630         \noindent\ignorespaces}
631     {\par\vfil\null\endtitlepage}
632 \else
633     \renewenvironment{abstract}{%
634         \if@twocolumn
635             \section*{\abstractname}%
636         \else
637             \bgroup\if@RTL\leftskip\else\rightskip\fi=\unitindent
638             \section*{\small\SectFont\abstractname}%
639             \noindent\ignorespaces
640             \fi}
641     {\if@twocolumn\else\par\egroup\fi}
642 \fi
643 \renewcommand*\@regtocline[3]{%
644     \ifnum #1>\c@tocdepth
645     \else
646         \vskip\z@\@plus.2\p@
647         {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
648         \if@RTL\rightskip\else\leftskip\fi\unitindent
649         \if@RTL\leftskip\else\rightskip\fi\unitindent\@plus 1fil
650         \parfillskip\z@
651         \@tempdima\unitindent
652         \parindent\z@
653         \leavevmode
654         \hbox{}\hskip -\if@RTL\rightskip\else\leftskip\fi\relax#2\nobreak
655         \hskip 1em \nobreak{\slshape #3}\par
656         }%
657     \fi}
658 \if@oldtoc
659 \renewcommand*\l@part[2]{%
660     \ifnum \c@tocdepth >-2\relax
661         \addpenalty\@secpenalty
662         \addvspace{2.25em \@plus\p@}%
663         \begingroup
664             \setlength\@tempdima{3em}%
665             \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
666             \parfillskip -\@pnumwidth
667             {\leavevmode
668                 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
669                 \nobreak
670                 \if@compatibility
671                     \global\@nobreaktrue
672                     \everypar{\global\@nobreakfalse\everypar{}}%
673             \fi
674         \endgroup

```



```

675 \fi}
676 \else
677 \renewcommand*\l@part{%
678 \ifnum \c@tocdepth >-2\relax
679 \addpenalty\@secpenalty
680 \addvspace{2.25em \@plus \p@}%
681 \@regtocline{0}%
682 \fi}
683 \fi
684 \if@oldtoc
685 \renewcommand*\l@section[2]{%
686 \addpenalty\@secpenalty
687 \addvspace{1.0em \@plus \p@}%
688 \setlength\@tempdima{1.5em}%
689 \begingroup
690 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
691 \parfillskip -\@pnumwidth
692 \leavevmode \bfseries
693 \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
694 \hskip -\if@RTL\rightskip\else\leftskip\fi
695 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
696 \endgroup}
697 \else
698 \renewcommand*\l@section{\@regtocline{1}}
699 \fi
700 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
701 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
702 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
703 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
704 \renewenvironment{thebibliography}[1]
705 {\section*\refname}%
706 \@mkboth{\MakeUppercase\refname}{\MakeUppercase\refname}%
707 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
708 \bidi\@thebibliography@font@hook%
709 \list{\@biblabel{\@arabic\c@enumiv}}%
710 {\settowidth\labelwidth{\@biblabel{#1}}%
711 \leftmargin\labelwidth
712 \advance\leftmargin\labelsep
713 \@openbib@code
714 \usecounter{enumiv}%
715 \let\p@enumiv\@empty
716 \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
717 \sloppy\clubpenalty4000\widowpenalty4000%
718 \sfcode`. \@m}
719 {\def\@noitemerr
720 {\@latex@warning{Empty `thebibliography' environment}}}%
721 \endlist}
722 \renewcommand*\left@footnoterule{%
723 \kern-3\p@
724 \kern.5\baselineskip
725 \hrule\@width\unitindent
726 \kern.4\baselineskip
727 }
728 \renewcommand*\right@footnoterule{%

```



```

729 \kern-3\p@
730 \kern.5\baselineskip
731 \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
732 \kern.4\baselineskip}
733 \if@titlepage
734 \renewcommand*{\TitleFont{\rmfamily}
735 \renewcommand*{\maketitle{%
736 \begin{titlepage}%
737 \let\footnotesize\small
738 \let\right@footnoterule\relax
739 \let\left@footnoterule\relax
740 \let\textwidth\footnoterule\relax
741 \let \footnote \thanks
742 \long\def\@makefntext##1{\parindent\z@
743 \def\labelitemi{\textendash}\@revlabeltrue
744 \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
745 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
746 \if@compatibility\setcounter{page}{0}\fi
747 \null\vfil
748 \vskip 60\p@
749 \begin{center}%
750 \TitleFont
751 {\LARGE \def\{\{\penalty -\@M}
752 \if@allcaps
753 \expandafter\uc@nothanks\@title\thanks\relax
754 \else
755 \@title
756 \fi\par}%
757 \vskip 3em%
758 {\large
759 \lineskip .75em \parindent\z@
760 \begin{tabular}[t]{c}%
761 \if@allcaps
762 \expandafter\uc@authornothanks\@author\and\relax
763 \else
764 \@author
765 \fi
766 \end{tabular}\par}%
767 \vskip 1.5em%
768 {\large
769 \if@allcaps
770 \uppercase\expandafter{\@date}%
771 \else
772 \@date
773 \fi\par}%
774 \end{center}\par
775 \@thanks
776 \vfil\null
777 \end{titlepage}%
778 \setcounter{footnote}{0}%
779 \global\let\thanks\relax
780 \global\let\maketitle\relax
781 \global\let\@thanks\@empty
782 \global\let\@author\@empty

```



```

783 \global\let\@title\@empty
784 \global\let\@date\@empty
785 \global\let\title\relax
786 \global\let\author\relax
787 \global\let\date\relax
788 \global\let\and\relax
789 }
790 \def\uc@nothanks#1\thanks{\uppercase{#1}\futurelet\@tempa\uc@tx}
791 \def\uc@authornothanks#1\and{\uc@nothanks#1\thanks\relax
792 \futurelet\@tempa\uc@ax}
793 \def\uc@ax{%
794 \ifx\@tempa\relax
795 \else
796 \\\andname \\\expandafter\uc@authornothanks
797 \fi}
798 \def\uc@tx{\ifx\@tempa\relax
799 \else \expandafter\uc@ty \fi}
800 \def\uc@ty#1{\thanks{#1}\uc@nothanks}
801 \else
802 \renewcommand*\maketitle{\par
803 \begingroup
804 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
805 \def\@makefnmark{\rlap{%
806 \@textsuperscript{\normalfont\@thefnmark}}}%
807 \long\def\@makefntext{\@xmakefntext{%
808 \@textsuperscript{\normalfont\@thefnmark}}}%
809 \if@twocolumn
810 \ifnum \col@number=\@ne
811 \maketitle
812 \else
813 \twocolumn[\maketitle]%
814 \fi
815 \else
816 \newpage
817 \global\@topnum\z@
818 \maketitle
819 \fi
820 \thispagestyle{plain}\@thanks
821 \endgroup
822 \setcounter{footnote}{0}%
823 \global\let\thanks\relax
824 \global\let\maketitle\relax
825 \global\let\@maketitle\relax
826 \global\let\@thanks\@empty
827 \global\let\@author\@empty
828 \global\let\@title\@empty
829 \global\let\@date\@empty
830 \global\let\title\relax
831 \global\let\author\relax
832 \global\let\date\relax
833 \global\let\and\relax
834 }
835 \def\@maketitle{%
836 \newpage

```



```

837 \null
838 \vskip 2em%
839 \begin{center}%
840   \let \footnote \thanks
841   {\LARGE \TitleFont \@title \par}%
842   \vskip 1.5em%
843   {\large \TitleFont
844     \lineskip .5em%
845     \begin{tabular}[t]{c}%
846       \@author
847     \end{tabular}\par}%
848   \vskip 1em%
849   {\large \TitleFont \@date}%
850 \end{center}%
851 \par
852 \vskip 1.5em}
853 \fi

```

## 11 File artikel2-xetex-bidi.def

```

854 \ProvidesFile{artikel2-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for artikel2 class f
855 \renewenvironment{theindex}{%
856   \if@twocolumn
857     \@restonecolfalse
858   \else
859     \@restonecoltrue
860   \fi
861   \columnseprule \z@
862   \columnsep 35\p@
863   \twocolumn[\section*{\indexname}]%
864   \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
865   \thispagestyle{plain}\parindent\z@
866   \parskip\z@ \@plus .3\p@\relax
867   \let\item\@idxitem
868 }{%
869   \if@restonecol\onecolumn\else\clearpage\fi}
870 \renewcommand*{\@regtocline}[3]{%
871   \ifnum #1>\c@tocdepth
872   \else
873     \vskip\z@ \@plus.2\p@
874     {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
875       \if@RTL\righskip\else\leftskip\fi\unitindent
876       \if@RTL\leftskip\else\righskip\fi\unitindent\@plus 1fil
877       \parfillskip\z@
878       \@tempdima\unitindent
879       \advance\@tempdima by \othermargin
880       \parindent\z@
881       \leavevmode
882       \hbox{\hspace -\if@RTL\righskip\else\leftskip\fi\relax#2\nobreak
883         \hspace 1em \nobreak{\slshape #3}\par
884       }%
885   \fi}
886 \if@oldtoc
887 \renewcommand*\l@section[2]{%

```



```

888 \addpenalty\@secpenalty
889 \addvspace{1.0em \@plus\p@}%
890 \setlength\@tempdima{1.5em}%
891 \begingroup
892 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
893 \parfillskip -\@pnumwidth
894 \leavevmode \bfseries
895 \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
896 \hskip -\if@RTL\rightskip\else\leftskip\fi
897 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
898 \endgroup}
899 \else
900 \renewcommand*\l@section{\@regtocline{1}}
901 \fi
902 \if@oldtoc
903 \renewcommand*\l@part[2]{%
904 \ifnum \c@tocdepth >-2\relax
905 \addpenalty\@secpenalty
906 \addvspace{2.25em \@plus\p@}%
907 \begingroup
908 \setlength\@tempdima{3em}%
909 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
910 \parfillskip -\@pnumwidth
911 {\leavevmode
912 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
913 \nobreak
914 \if@compatibility
915 \global\@nobreaktrue
916 \everypar{\global\@nobreakfalse\everypar{}}%
917 \fi
918 \endgroup
919 \fi}
920 \else
921 \renewcommand*\l@part{%
922 \ifnum \c@tocdepth >-2\relax
923 \addpenalty\@secpenalty
924 \addvspace{2.25em \@plus\p@}%
925 \@regtocline{0}%
926 \fi}
927 \fi
928 \renewcommand*\head@style{%
929 \interlinepenalty \@M
930 \hyphenpenalty=\@M \exhyphenpenalty=\@M
931 \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
932 \if@titlepage
933 \renewenvironment{abstract}{%
934 \titlepage
935 \null\vfil
936 \section*{\SectFont\abstractname}%
937 \noindent\ignorespaces}
938 {\par\vfil\null\endtitlepage}
939 \else
940 \renewenvironment{abstract}{%
941 \if@twocolumn

```



```

942     \section*{\abstractname}%
943   \else
944     \section*{\hskip\unitindent\small\SectFont\abstractname}%
945     \list*{\setlength\listparindent{\unitindent}%
946           \setlength\parindent    {\z@}%
947           \setlength\leftmargin   {\unitindent}%
948           \setlength\rightmargin  {\unitindent}%
949           \setlength\parsep      {\z@}}%
950     \item[]%
951   \fi}
952   {\if@twocolumn\else\par\endlist\fi}
953 \fi
954 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
955 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
956 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
957 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
958 \renewcommand*\left@footnoterule{%
959   \kern-3\p@
960   \hrule\@width 3\unitindent
961   \kern 2.6\p@
962 }
963 \renewcommand*\right@footnoterule{%
964   \kern-3\p@
965   \hbox to \columnwidth{\hskip \dimexpr\columnwidth-3\unitindent\relax \hrulefill }
966   \kern 2.6\p@}
967 \renewenvironment{thebibliography}[1]
968   {\section*{\refname}%
969     \@mkboth{\MakeUppercase\refname}{\MakeUppercase\refname}%
970     \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
971     \bidi@thebibliography@font@hook%
972     \list{\@biblabel{\@arabic\c@enumiv}}%
973           {\settowidth\labelwidth{\@biblabel{#1}}%
974           \leftmargin\labelwidth
975           \advance\leftmargin\labelsep
976           \@openbib@code
977           \usecounter{enumiv}%
978           \let\p@enumiv\@empty
979           \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
980     \sloppy\clubpenalty4000\widowpenalty4000%
981     \sfcode\~.\@m}
982   {\def\@noitemerr
983     {\@latex@warning{Empty `thebibliography' environment}}%
984     \endlist}
985 \if@titlepage
986 \renewcommand*\TitleFont{\rmfamily}
987 \renewcommand*\maketitle{%
988   \begin{titlepage}%
989     \let\footnotesize\small
990     \let\right@footnoterule\relax
991     \let\left@footnoterule\relax
992     \let\textwidth\footnoterule\relax
993     \let \footnote \thanks
994     \long\def\@makefntext##1{\parindent\z@
995       \def\labelitemi{\textendash}\@revlabeltrue

```



```

996      \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
997      \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
998      \if@compatibility\setcounter{page}{0}\fi
999      \null\vfil
1000     \vskip 60\p@
1001     \begin{center}%
1002       \TitleFont
1003       {\LARGE \def\\{\penalty -\@M}
1004         \if@allcaps
1005           \expandafter\uc@nothanks\@title\thanks\relax
1006         \else
1007           \@title
1008           \fi\par}%
1009     \vskip 3em%
1010     {\large
1011       \lineskip .75em \parindent\z@
1012       \begin{tabular}[t]{c}%
1013         \if@allcaps
1014           \expandafter\uc@authornothanks\@author\and\relax
1015         \else
1016           \@author
1017         \fi
1018       \end{tabular}\par}%
1019     \vskip 1.5em%
1020     {\large
1021       \if@allcaps
1022         \uppercase\expandafter{\@date}%
1023       \else
1024         \@date
1025       \fi\par}%
1026     \end{center}\par
1027     \@thanks
1028     \vfil\null
1029   \end{titlepage}%
1030   \setcounter{footnote}{0}%
1031   \global\let\thanks\relax
1032   \global\let\maketitle\relax
1033   \global\let\@thanks\@empty
1034   \global\let\@author\@empty
1035   \global\let\@title\@empty
1036   \global\let\@date\@empty
1037   \global\let\title\relax
1038   \global\let\author\relax
1039   \global\let\date\relax
1040   \global\let\and\relax
1041 }
1042 \def\uc@nothanks#1\thanks{\uppercase{#1}\futurelet\@tempa\uc@tx}
1043 \def\uc@authornothanks#1\and{\uc@nothanks#1\thanks\relax
1044   \futurelet\@tempa\uc@ax}
1045 \def\uc@ax{%
1046   \ifx\@tempa\relax
1047   \else
1048     \ \andname \ \ \expandafter\uc@authornothanks
1049   \fi}

```



```

1050 \def\uc@tx{\ifx\@tempa\relax
1051     \else \expandafter\uc@ty \fi}
1052 \def\uc@ty#1{\thanks{#1}\uc@nothanks}
1053 \else
1054 \renewcommand*\maketitle{\par
1055     \begingroup
1056     \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
1057     \long\def\@makefntext##1{\parindent\z@
1058         \def\labelitemi{\textendash}%
1059         \leavevmode\hb@xt@.5\unitindent{%
1060             \@textsuperscript{\normalfont\@thefnmark}\hfil}##1}
1061     \if@twocolumn
1062         \ifnum \col@number=\@ne
1063             \@maketitle
1064         \else
1065             \twocolumn[\@maketitle]%
1066         \fi
1067     \else
1068         \newpage
1069         \global\@topnum\z@
1070         \@maketitle
1071     \fi
1072     \thispagestyle{plain}\@thanks
1073 \endgroup
1074 \setcounter{footnote}{0}%
1075 \global\let\thanks\relax
1076 \global\let\maketitle\relax
1077 \global\let\@maketitle\relax
1078 \global\let\@thanks\@empty
1079 \global\let\@author\@empty
1080 \global\let\@title\@empty
1081 \global\let\@date\@empty
1082 \global\let\title\relax
1083 \global\let\author\relax
1084 \global\let\date\relax
1085 \global\let\and\relax
1086 }
1087 \def\@maketitle{%
1088     \newpage
1089     \null
1090     \vskip 2em%
1091     \begin{center}%
1092         \let \footnote \thanks
1093         {\LARGE \TitleFont \@title \par}%
1094         \vskip 1.5em%
1095         {\large \TitleFont
1096             \lineskip .5em%
1097             \begin{tabular}[t]{c}%
1098                 \@author
1099             \end{tabular}\par}%
1100         \vskip 1em%
1101         {\large \TitleFont \@date}%
1102     \end{center}%
1103     \par

```



```

1104 \vskip 1.5em}
1105 \fi

```

## 12 File artikel3-xetex-bidi.def

```

1106 \ProvidesFile{artikel3-xetex-bidi.def}[2017/06/09 v0.5 bidi adaptations for artikel3 class f
1107 \renewenvironment{theindex}{\%
1108 \if@twocolumn
1109 \@restonecolfalse
1110 \else
1111 \@restonecoltrue
1112 \fi
1113 \columnseprule \z@
1114 \columnsep 35\p@
1115 \twocolumn[\section*{\indexname}]\%
1116 \mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}\%
1117 \thispagestyle{plain}\parindent\z@
1118 \parskip\z@ \@plus .3\p@\relax
1119 \let\item\@idxitem
1120 }\%
1121 \if@restonecol\onecolumn\else\clearpage\fi}
1122 \renewcommand*{\head@style}{\%
1123 \interlinepenalty \@M
1124 \hyphenpenalty=\@M \exhyphenpenalty=\@M
1125 \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
1126 \renewcommand*{\regtocline}[3]{\%
1127 \ifnum #1>\c@tocdepth
1128 \else
1129 \vskip\z@ \@plus .2\p@
1130 {\hangindent\z@ \@afterindenttrue \interlinepenalty \@M
1131 \if@RTL\rightskip\else\leftskip\fi\unitindent
1132 \if@RTL\leftskip\else\rightskip\fi\unitindent \@plus 1fil
1133 \parfillskip\z@
1134 \@tempdima\unitindent
1135 \parindent\z@
1136 \leavevmode
1137 \hbox{} \hskip -\if@RTL\rightskip\else\leftskip\fi\relax#2\nobreak
1138 \hskip 1em \nobreak{\slshape #3}\par
1139 }\%
1140 \fi}
1141 \if@oldtoc
1142 \renewcommand*{\l@part}[2]{\%
1143 \ifnum \c@tocdepth >-2\relax
1144 \addpenalty\@secpenalty
1145 \addvspace{2.25em \@plus\p@}\%
1146 \begingroup
1147 \setlength{\tempdima}{3em}\%
1148 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
1149 \parfillskip -\@pnumwidth
1150 {\leavevmode
1151 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
1152 \nobreak
1153 \if@compatibility
1154 \global\@nobreaktrue

```



```

1155     \everypar{\global\@nobreakfalse\everypar{}}%
1156     \fi
1157   \endgroup
1158 \fi}
1159 \else
1160   \renewcommand*\l@part{%
1161     \ifnum \c@tocdepth >-2\relax
1162       \addpenalty\@secpenalty
1163       \addvspace{2.25em \@plus \p@}%
1164       \@regtocline{0}%
1165     \fi}
1166 \fi
1167
1168 \if@oldtoc
1169 \renewcommand*\l@section[2]{%
1170   \addpenalty\@secpenalty
1171   \addvspace{1.0em \@plus \p@}%
1172   \setlength\@tempdima{1.5em}%
1173   \begingroup
1174   \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
1175   \parfillskip -\@pnumwidth
1176   \leavevmode \bfseries
1177   \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima
1178   \hskip -\if@RTL\rightskip\else\leftskip\fi
1179   #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
1180   \endgroup}
1181 \else
1182   \renewcommand*\l@section{\@regtocline{1}}
1183 \fi
1184 \if@titlepage
1185   \renewenvironment{abstract}{%
1186     \titlepage
1187     \null\vfil
1188     \section*{\SectFont\abstractname}%
1189     \noindent\ignorespaces}
1190     {\par\vfil\null\endtitlepage}
1191 \else
1192   \renewenvironment{abstract}{%
1193     \if@twocolumn
1194       \section*{\abstractname}%
1195     \else
1196       \bgroup\if@RTL\leftskip\else\rightskip\fi=\unitindent
1197       \section*{\small\SectFont\abstractname}%
1198       \noindent\ignorespaces
1199     \fi}
1200     {\if@twocolumn\else\par\egroup\fi}
1201 \fi
1202 \renewcommand*\left@footnoterule{%
1203   \kern-3\p@
1204   \kern.5\baselineskip
1205   \hrule\@width\unitindent
1206   \kern.4\baselineskip
1207 }
1208 \renewcommand*\right@footnoterule{%

```



```

1209 \kern-3\p@
1210 \kern.5\baselineskip
1211 \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
1212 \kern.4\baselineskip}
1213 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@section}
1214 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
1215 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
1216 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
1217 \renewenvironment{thebibliography}[1]
1218     {\section*\refname}%
1219     \@mkboth{\MakeUppercase\refname}{\MakeUppercase\refname}%
1220     \ifRTL\ifLTRbibitems\@RTLfalse\else\fi\else\ifRTLbibitems\@RTLtrue\else\fi\fi
1221     \bidi@thebibliography@font@hook%
1222     \list{\@biblabel{\@arabic\c@enumiv}}%
1223         {\settowidth\labelwidth{\@biblabel{#1}}%
1224         \leftmargin\labelwidth
1225         \advance\leftmargin\labelsep
1226         \@openbib@code
1227         \usecounter{enumiv}%
1228         \let\p@enumiv\@empty
1229         \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
1230     \sloppy\clubpenalty4000\widowpenalty4000%
1231     \sfcode`.\@m}
1232     {\def\@noitemerr
1233     {\@latex@warning{Empty `thebibliography' environment}}}%
1234     \endlist}
1235 \if@titlepage
1236 \renewcommand*\TitleFont{\rmfamily}
1237 \renewcommand*\maketitle{%
1238 \begin{titlepage}%
1239 \let\footnotesize\small
1240 \let\right@footnoterule\relax
1241 \let\left@footnoterule\relax
1242 \let\textwidth\footnoterule\relax
1243 \let \footnote \thanks
1244 \long\def\@makefntext##1{\parindent\z@
1245 \def\labelitemi{\textendash}\@revlabeltrue
1246 \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
1247 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
1248 \if@compatibility\setcounter{page}{0}\fi
1249 \null\vfil
1250 \vskip 60\p@
1251 \begin{center}%
1252 \TitleFont
1253 {\LARGE \def\\{\penalty -\@M}
1254 \if@allcaps
1255 \expandafter\uc@nothanks\@title\thanks\relax
1256 \else
1257 \@title
1258 \fi\par}%
1259 \vskip 3em%
1260 {\large
1261 \lineskip .75em \parindent\z@
1262 \begin{tabular}[t]{c}%

```



```

1263         \if@allcaps
1264         \expandafter\uc@authornothanks \@author\and\relax
1265         \else
1266         \@author
1267         \fi
1268     \end{tabular}\par}%
1269     \vskip 1.5em%
1270     {\large
1271     \if@allcaps
1272     \uppercase\expandafter{\@date}%
1273     \else
1274     \@date
1275     \fi\par}%
1276     \end{center}\par
1277     \@thanks
1278     \vfil\null
1279 \end{titlepage}%
1280 \setcounter{footnote}{0}%
1281 \global\let\thanks\relax
1282 \global\let\maketitle\relax
1283 \global\let\@thanks\@empty
1284 \global\let\@author\@empty
1285 \global\let\@title\@empty
1286 \global\let\@date\@empty
1287 \global\let\title\relax
1288 \global\let\author\relax
1289 \global\let\date\relax
1290 \global\let\and\relax
1291 }
1292 \def\uc@nothanks#1\thanks{\uppercase{#1}\futurelet\@tempa\uc@tx}
1293 \def\uc@authornothanks#1\and{\uc@nothanks#1\thanks\relax
1294     \futurelet\@tempa\uc@ax}%
1295 \def\uc@ax{%
1296     \ifx\@tempa\relax
1297     \else
1298     \ \andname \ \ \expandafter\uc@authornothanks
1299     \fi}
1300 \def\uc@tx{\ifx\@tempa\relax
1301     \else \expandafter\uc@ty \fi}
1302 \def\uc@ty#1{\thanks{#1}\uc@nothanks}
1303 \else
1304 \renewcommand*\maketitle{\par
1305     \begingroup
1306     \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
1307     \def\@makefnmark{\rlap{%
1308         \@textsuperscript{\normalfont\@thefnmark}}}%
1309     \long\def\@makefntext{\@xmakefntext{%
1310         \@textsuperscript{\normalfont\@thefnmark}}}%
1311     \if@twocolumn
1312     \ifnum \col@number=\@ne
1313     \@maketitle
1314     \else
1315     \twocolumn[\@maketitle]%
1316     \fi

```



```

1317 \else
1318 \newpage
1319 \global\@topnum\z@
1320 \@maketitle
1321 \fi
1322 \thispagestyle{plain}\@thanks
1323 \endgroup
1324 \setcounter{footnote}{0}%
1325 \global\let\thanks\relax
1326 \global\let\maketitle\relax
1327 \global\let\@maketitle\relax
1328 \global\let\@thanks\@empty
1329 \global\let\@author\@empty
1330 \global\let\@title\@empty
1331 \global\let\@date\@empty
1332 \global\let\title\relax
1333 \global\let\author\relax
1334 \global\let\date\relax
1335 \global\let\and\relax
1336 }
1337 \def\@maketitle{%
1338 \newpage
1339 \null
1340 \vskip 2em%
1341 \if@titlecentered
1342 \begin{center}%
1343 \let \footnote \thanks
1344 {\LARGE \TitleFont \@title \par}%
1345 \vskip 1.5em%
1346 {\large \TitleFont
1347 \lineskip .5em%
1348 \begin{tabular}[t]{c}%
1349 \@author
1350 \end{tabular}\par}%
1351 \vskip 1em%
1352 {\large \TitleFont \@date}%
1353 \end{center}%
1354 \else
1355 {\LARGE \TitleFont \head@style \@title \par} \vskip 1.5em
1356 {\large \TitleFont \lineskip .5em \tabcolsep\z@
1357 \def\and{%% \begin{tabular} has already started
1358 \end{tabular}\hskip 1em plus .17fil
1359 \if@RTL\begin{tabular}[t]{r}\else\begin{tabular}[t]{l}\fi}% \end{tabular}%
1360 \if@RTL\begin{tabular}[t]{r}\else\begin{tabular}[t]{l}\fi\@author\end{tabular}%
1361 \vskip 1em {\large \TitleFont \@date}
1362 \fi
1363 \par
1364 \vskip 1.5em}
1365 \fi

```

### 13 File arydshln-xetex-bidi.def

```

1366 \ProvidesFile{arydshln-xetex-bidi.def}[2010/08/01 v0.2 bidi adaptations for arydshln package]
1367 \def\endarray{\adl@endarray \egroup \adl@arrayrestore \if@RTL\begin{array}\endR\egroup\fi\egroup

```



```

1368 \def\endtabular{\endarray $\if@RTLtab\endR\fi\egroup}
1369 \expandafter\let\csname endtabular*\endcsname\endtabular
1370 \let\adl@array\@array
1371 \def\@array{\adl@everyvbox\everyvbox
1372     \everyvbox{\adl@arrayinit \the\adl@everyvbox \everyvbox\adl@everyvbox}%
1373     \ifadl@inactive \adl@inactivate \else \adl@activate \fi
1374     \let\adl@noalign\noalign
1375     \adl@array}
1376 \ifadl@usingarypkg
1377 \def\@testpach{\@chclass
1378 \ifnum \@lastchclass=6 \@ne \@chnum \@ne \else
1379 \ifnum \@lastchclass=7 5 \else
1380 \ifnum \@lastchclass=8 \tw@ \else
1381 \ifnum \@lastchclass=9 \thr@@
1382 \else \z@
1383 \ifnum \@lastchclass = 10 \else
1384 \edef\@nextchar{\expandafter\string\@nextchar}%
1385 \@chnum
1386 \if \@nextchar c\z@ \else
1387 \if \@nextchar \if@RTLtab r\else l\fi\@ne \else
1388 \if \@nextchar \if@RTLtab l\else r\fi\tw@ \else
1389 \z@ \@chclass
1390 \if \@nextchar |\@ne \let\@arrayrule\adl@arrayrule \else
1391 \if \@nextchar : \@ne \let\@arrayrule\adl@arraydashrule \else
1392 \if \@nextchar ; \@ne \let\@arrayrule\adl@argarraydashrule \else
1393 \if \@nextchar !6 \else
1394 \if \@nextchar @7 \else
1395 \if \@nextchar <8 \else
1396 \if \@nextchar >9 \else
1397 10
1398 \@chnum
1399 \if \@nextchar m\thr@@\else
1400 \if \@nextchar p4 \else
1401 \if \@nextchar b5 \else
1402 \z@ \@chclass \z@ \@preamerr \z@ \fi \fi \fi \fi \fi \fi
1403 \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi}
1404
1405 \def\@classz{\@classx
1406     \@tempcnta \count@
1407     \prepnext@tok
1408     \@addtopreamble{\ifcase \@chnum
1409         \hfil
1410         \adl@putlrc{\d@llarbegin \insert@column \d@llarend}\hfil \or
1411         \hskip1sp\adl@putlrc{\d@llarbegin \insert@column \d@llarend}\hfil \or
1412         \hfil\hskip1sp\adl@putlrc{\d@llarbegin \insert@column \d@llarend}\or
1413         \setbox\adl@box\hbox \adl@startmbox{\@nextchar}\insert@column
1414         \adl@endmbox\or
1415         \setbox\adl@box\vtop \@startpbox{\@nextchar}\insert@column \@endpbox \or
1416         \setbox\adl@box\vbox \@startpbox{\@nextchar}\insert@column \@endpbox
1417         \fi}\prepnext@tok}
1418 \def\adl@class@start{4}
1419 \def\adl@class@iiiorvii{7}
1420
1421 \else

```



```

1422 \def\@testpach#1{\@chclass \ifnum \@lastchclass=\tw@ 4\relax \else
1423     \ifnum \@lastchclass=\thr@@ 5\relax \else
1424         \z@ \if #1c\@chnum \z@ \else
1425             \if \if@RTLtab#1r\else#1l\fi\@chnum \@one \else
1426             \if \if@RTLtab#1l\else#1r\fi\@chnum \tw@ \else
1427                 \@chclass
1428                 \if #1|\@one \let\@arrayrule\adl@arrayrule \else
1429                 \if #1:\@one \let\@arrayrule\adl@arraydashrule \else
1430                 \if #1;\@one \let\@arrayrule\adl@argarraydashrule \else
1431                 \if #1@\tw@ \else
1432                 \if #1p\thr@@ \else \z@ \@preamerr 0\fi
1433     \fi \fi \fi \fi \fi \fi \fi \fi \fi}
1434
1435 \def\@arrayclassz{\ifcase \@lastchclass \@acolampacol \or \@ampacol \or
1436     \or \or \@addamp \or
1437     \@acolampacol \or \@firststampfalse \@acol \fi
1438     \edef\@preamble{\@preamble
1439         \ifcase \@chnum
1440             \hfil\adl@putlrc{\$ \relax \@sharp\$}\hfil
1441             \or \adl@putlrc{\$ \relax \@sharp\$}\hfil
1442             \or \hfil\adl@putlrc{\$ \relax \@sharp\$}\fi}}
1443 \def\@tabclassz{\ifcase \@lastchclass \@acolampacol \or \@ampacol \or
1444     \or \or \@addamp \or
1445     \@acolampacol \or \@firststampfalse \@acol \fi
1446     \edef\@preamble{\@preamble
1447         \ifcase \@chnum
1448             \hfil\adl@putlrc{\@sharp\unskip}\hfil
1449             \or \adl@putlrc{\@sharp\unskip}\hfil
1450             \or \hfil\hskip\z@ \adl@putlrc{\@sharp\unskip}\fi}}
1451 \def\adl@class@start{6}
1452 \def\adl@class@iiiorvii{3}
1453 \fi
1454 \ifpackageloaded{colortbl}{%
1455 \def\adl@inactivate{\adl@org@inactivate \let\CT@setup\adl@CT@setup}
1456 \def\adl@activate{\adl@org@activate \let\CT@setup\adl@act@CT@setup
1457     \let\@endpbox\adl@org@endpbox}
1458 \let\adl@CT@setup\CT@setup
1459 \def\CT@setup{\adl@CT@setup
1460     \@tempdima\ht\z@ \advance\@tempdima\minrowclearance
1461     \ifdim\adl@height<\@tempdima \global\adl@height\@tempdima \fi
1462     \ifdim\adl@depth<\dp\z@ \global\adl@depth\dp\z@\fi}
1463 \let\adl@act@CT@setup\CT@setup
1464 \def\@classz{\@classx
1465     \@tempcnta\count@ \prepnext@tok
1466     \expandafter\CT@extract\the\toks\@tempcnta\columncolor!\@nil
1467     \expandafter\adl@extract@arc\the\toks\@tempcnta\arrayrulecolor!\@nil
1468     \expandafter\adl@extract@drsc
1469         \the\toks\@tempcnta\doublerulesepcolor!\@nil
1470     \expandafter\adl@extract@dgc\the\toks\@tempcnta\dashgapcolor!\@nil
1471     \@addtopreamble{\if@RTL\beginL\fi%
1472         \setbox\z@\hbox\bgroup\bgroup\if@RTL\beginR\fi
1473         \ifcase \@chnum
1474             \hskip\stretch{.5}\kern\z@
1475             \dollarbegin

```



```

1476             \insert@column
1477             \d@llarend\hskip\stretch{.5}%
1478         \or \d@llarbegin \insert@column \d@llarend \hfill
1479         \or \hfill \kern\z@ \d@llarbegin \insert@column \d@llarend
1480         \or $\vcenter
1481             \@startpbox{\@nextchar}\insert@column \@endpbox $\%
1482         \or \vtop \@startpbox{\@nextchar}\insert@column \@endpbox
1483         \or \vbox \@startpbox{\@nextchar}\insert@column \@endpbox
1484         \fi
1485     \if@RTL\endR\fi\egroup\egroup
1486     \beginngroup
1487         \CT@setup
1488         \CT@column@color
1489         \CT@row@color
1490         \CT@cell@color
1491         \CT@do@color
1492     \endgroup
1493     \@tempdima\ht\z@
1494     \advance\@tempdima\minrowclearance
1495     \vrule\@height\@tempdima\@width\z@
1496     \unhbox\z@\if@RTL\endL\fi}%
1497     \prepnext@tok}
1498 \let\adl@act@classz\@classz
1499 \let\adl@org@classz\@classz
1500 }{}

```

## 14 File beamer-xetex-bidi.def

```

1501 \ProvidesFile{beamer-xetex-bidi.def}[2022/06/07 v0.3 bidi adaptations for beamer class for Xe
1502 \AtBeginDocument{%
1503     \if@RTLmain
1504         \raggedleft
1505     \else
1506         \raggedright
1507     \fi
1508 }
1509
1510 \renewcommand*{\bidi@beamer@ragged}{%
1511     \if@RTL
1512         \raggedleft
1513     \else
1514         \raggedright
1515     \fi
1516 }
1517
1518

```

## 15 File beamerbaseauxtemplates-xetex-bidi.def

```

1519 \ProvidesFile{beamerbaseauxtemplates-xetex-bidi.def}[2022/06/06 v0.2 bidi adaptations for be
1520 \bidi@csundef{beamer@tmpop@section in toc@circle}
1521
1522 \bidi@csundef{beamer@tmpop@subsection in toc@circle}
1523

```



```

1524 \bidi@csundef{beamer@@tmpop@subsubsection in toc@circle}
1525
1526 \defbeamertemplate{section in toc}{circle}
1527 {\leavevmode\bidi@beamer@leftskip=2ex%
1528   \llap{%
1529     \usebeamerfont*{section number projected}%
1530     \usebeamercolor{section number projected}%
1531     \begin{pgfpicture}{-1ex}{0ex}{1ex}{2ex}
1532       \color{bg}
1533       \pgfpathcircle{\pgfpoint{0pt}{.75ex}}{1.2ex}
1534       \pgfusepath{fill}
1535       \pgftext[base]{\color{fg}\inserttocsectionnumber}
1536     \end{pgfpicture}\kern1.25ex%
1537   }%
1538   \inserttocsection\par}
1539
1540 \defbeamertemplate{subsection in toc}{circle}
1541 {\leavevmode\bidi@beamer@leftskip=2em\inserttocsubsection\par}
1542
1543 \defbeamertemplate{subsubsection in toc}{circle}
1544 {\leavevmode\normalsize\usebeamerfont{subsection in
1545   toc}\bidi@beamer@leftskip=3em\usebeamerfont{subsubsection in toc}%
1546   \inserttocsubsubsection\par}
1547
1548 \bidi@csundef{beamer@@tmpop@section in toc@square}
1549
1550 \bidi@csundef{beamer@@tmpop@subsection in toc@square}
1551
1552 \bidi@csundef{beamer@@tmpop@subsubsection in toc@square}
1553
1554 \bidi@csundef{beamer@@tmpop@enumerate item@square}
1555
1556 \bidi@csundef{beamer@@tmpop@enumerate subitem@square}
1557
1558 \bidi@csundef{beamer@@tmpop@enumerate subsubitem@square}
1559
1560 \bidi@csundef{beamer@@tmpop@enumerate mini template@square}
1561
1562 \defbeamertemplate{section in toc}{square}
1563 {\leavevmode\bidi@beamer@leftskip=1.75ex%
1564   \llap{{%
1565     \usebeamerfont*{section number projected}%
1566     \usebeamercolor[bg]{section number projected}%
1567     \if@RTL
1568     \else
1569       \vrule width2.25ex height1.85ex depth.4ex%
1570       \hskip-2.25ex%
1571     \fi
1572     \hbox to2.25ex{{\hfil\color{fg}\inserttocsectionnumber\hfil}}}%
1573     \if@RTL
1574       \hskip-2.25ex%
1575       \vrule width2.25ex height1.85ex depth.4ex%
1576     \fi
1577   }}%

```



```

1578 \kern1.25ex\inserttocsection\par}
1579
1580 \defbeamertemplate{subsection in toc}{square}
1581 {\leavevmode\bidibeamer@leftskip=5ex\llap{%
1582     \usebeamercolor[bg]{subsection number projected}%
1583     \vrule width1ex height1ex\kern1ex}}\inserttocsubsection\par}
1584
1585 \defbeamertemplate{subsubsection in toc}{square}
1586 {\leavevmode\normalsize\usebeamerfont{subsection in
1587     toc}\bidibeamer@leftskip=7ex\usebeamerfont{subsubsection in toc}%
1588     \llap{%
1589         \usebeamercolor[bg]{subsubsection number projected}%
1590         \vrule width0.75ex height0.75ex\kern1ex}}\inserttocsubsubsection\par}
1591
1592 \defbeamertemplate{enumerate item}{square}
1593 {
1594     \hbox{%
1595         \usebeamerfont*{item projected}%
1596         \usebeamercolor[bg]{item projected}%
1597         \if@RTL
1598         \else
1599             \vrule width2.25ex height1.85ex depth.4ex%
1600             \hskip-2.25ex%
1601         \fi
1602         \hbox to2.25ex{%
1603             \hfil%
1604             \color{fg}\insertenumlabel%
1605             \hfil}}%
1606         \if@RTL
1607             \hskip-2.25ex%
1608             \vrule width2.25ex height1.85ex depth.4ex%
1609         \fi
1610     }%
1611 }
1612 [action]
1613 {\setbeamerfont{item projected}{size=\scriptsize}}
1614
1615 \defbeamertemplate{enumerate subitem}{square}
1616 {
1617     \hbox{%
1618         \usebeamerfont*{subitem projected}%
1619         \usebeamercolor[bg]{subitem projected}%
1620         \if@RTL
1621         \else
1622             \vrule width2.25ex height1.85ex depth.4ex%
1623             \hskip-2.25ex%
1624         \fi
1625         \hbox to2.25ex{%
1626             \hfil%
1627             \color{fg}\insertsubenumlabel%
1628             \hfil}}%
1629         \if@RTL
1630             \hskip-2.25ex%
1631             \vrule width2.25ex height1.85ex depth.4ex%

```



```

1632     \fi
1633   }}%
1634 }
1635
1636 \defbeamertemplate{enumerate subsubitem}{square}
1637 {
1638   \hbox{%
1639     \usebeamerfont*{subitem projected}%
1640     \usebeamercolor[bg]{subsubitem projected}%
1641     \if@RTL
1642     \else
1643       \vrule width2.25ex height1.85ex depth.4ex%
1644       \hskip-2.25ex%
1645     \fi
1646     \hbox to2.25ex{%
1647       \hfil%
1648       \color{fg}\insertsubsubenumlabel%
1649       \hfil}}%
1650     \if@RTL
1651       \hskip-2.25ex%
1652       \vrule width2.25ex height1.85ex depth.4ex%
1653     \fi
1654   }}%
1655 }
1656
1657 \defbeamertemplate{enumerate mini template}{square}
1658 {
1659   \hbox{%
1660     \usebeamerfont*{\beameritemnestingprefix item projected}%
1661     \usebeamercolor[bg]{\beameritemnestingprefix item projected}%
1662     \if@RTL
1663     \else
1664       \vrule width2.25ex height1.85ex depth.4ex%
1665       \hskip-2.25ex%
1666     \fi
1667     \hbox to2.25ex{%
1668       \hfil%
1669       \color{fg}\insertenumlabel%
1670       \hfil}}%
1671     \if@RTL
1672       \hskip-2.25ex%
1673       \vrule width2.25ex height1.85ex depth.4ex%
1674     \fi
1675   }}%
1676 }
1677
1678 \bidi@csundef{beamer@@tmpop@section in toc@ball}
1679
1680 \bidi@csundef{beamer@@tmpop@subsection in toc@ball}
1681
1682 \bidi@csundef{beamer@@tmpop@subsubsection in toc@ball}
1683
1684 \defbeamertemplate{section in toc}{ball}
1685 {\leavevmode\bidi@beamer@leftskip=2.75ex%

```



```

1686 \llap{%
1687   \normalsize%
1688   \begin{pgfpicture}{-1ex}{-0.7ex}{1ex}{1ex}
1689     \pgftext{\beamer@usesphere{section number projected}{tocsphere}}
1690     \pgftext{%
1691       \usebeamerfont*{section number projected}%
1692       \usebeamerfont*{section number projected}%
1693       \color{fg!90!bg}%
1694       \inserttocsectionnumber}
1695   \end{pgfpicture}%
1696   \kern1.25ex}%
1697 \inserttocsection\par
1698 }
1699 [action]
1700 {\setbeamerfont{section number projected}{size=\scriptsize}}
1701
1702 \defbeamertemplate{subsection in toc}{ball}
1703 {\leavevmode\bidibeamer@leftskip=5ex%
1704   \llap{\raise0.1ex\beamer@usesphere{subsection number projected}{bigsphere}\kern1ex}%
1705   \inserttocsubsection\par%
1706 }
1707
1708 \defbeamertemplate{subsubsection in toc}{ball}
1709 {\leavevmode\normalsize\usebeamerfont{subsection in
1710   toc}\bidibeamer@leftskip=7ex\usebeamerfont{subsubsection in toc}%
1711   \llap{\beamer@usesphere{subsubsection number projected}{bigsphere}\kern0.75ex}%
1712   \inserttocsubsubsection\par%
1713 }
1714
1715 \bidicsundef{beamer@@tmpop@block begin@rounded}
1716
1717 \bidicsundef{beamer@@tmpop@block alerted begin@rounded}
1718
1719 \bidicsundef{beamer@@tmpop@block example begin@rounded}
1720
1721 \defbeamertemplate{block begin}{rounded}[1][shadow=false]
1722 {%
1723   \par\vskip\medskipamount%
1724   \begin{beamerboxesrounded}[upper=block title,lower=block body,#1]%
1725     {\raggedright\usebeamerfont*{block title}\insertblocktitle}%
1726     \bidibeamer@ragged%
1727     \usebeamerfont{block body}%
1728   }
1729
1730 \defbeamertemplate{block alerted begin}{rounded}[1][shadow=false]
1731 {%
1732   \par\vskip\medskipamount%
1733   \begin{beamerboxesrounded}[upper=block title alerted,lower=block body alerted,#1]%
1734     {\raggedright\usebeamerfont*{block title alerted}\insertblocktitle}%
1735     \bidibeamer@ragged%
1736     \usebeamerfont{block body alerted}%
1737   }%
1738
1739 \defbeamertemplate{block example begin}{rounded}[1][shadow=false]

```



```

1740 {%
1741   \par\vskip\medskipamount%
1742   \begin{beamerboxesrounded}[upper=block title example,lower=block body example,#1]
1743     {\raggedright\usebeamerfont*{block title example}\insertblocktitle}%
1744     \bidi@beamer@ragged%
1745     \usebeamerfont{block body example}%
1746 }%
1747

```

## 16 File beamerbaseboxes-xetex-bidi.def

```

1748 \ProvidesFile{beamerbaseboxes-xetex-bidi.def}[2022/06/01 v0.1 bidi adaptations for beamerbas
1749 \renewcommand\beamerboxesrounded[2] [] {%
1750   \global\let\beamer@firstlineitemizeunskip=\relax%
1751   \vbox\bgroup%
1752   \setkeys{beamerboxes}{upper=block title,lower=block body,width=\textwidth,shadow=false}%
1753   \setkeys{beamerboxes}{#1}%
1754   {%
1755     \usebeamercolor{\bmb@lower}%
1756     \globalcolorstrue%
1757     \colorlet{lower.bg}{bg}%
1758   }%
1759   {%
1760     \usebeamercolor{\bmb@upper}%
1761     \globalcolorstrue%
1762     \colorlet{upper.bg}{bg}%
1763   }%
1764   %
1765   % Typeset head
1766   %
1767   \vskip4bp
1768   \setbox\bmb@box=\hbox{%
1769     \begin{minipage}[b]{\bmb@width}%
1770       \usebeamercolor{fg}{\bmb@upper}%
1771       #2%
1772     \end{minipage}}%
1773   \ifdim\wd\bmb@box=0pt%
1774     \setbox\bmb@box=\hbox{%
1775       \ht\bmb@box=1.5pt%
1776       \bmb@prevheight=-4.5pt%
1777     \else%
1778       \wd\bmb@box=\bmb@width%
1779       \bmb@temp=\dp\bmb@box%
1780       \ifdim\bmb@temp<1.5pt%
1781         \bmb@temp=1.5pt%
1782       \fi%
1783       \setbox\bmb@box=\hbox{\raise\bmb@temp\hbox{\box\bmb@box}}%
1784       \dp\bmb@box=0pt%
1785       \bmb@prevheight=\ht\bmb@box%
1786     \fi%
1787     \bmb@temp=\bmb@width%
1788     \bmb@dima=\bmb@temp\advance\bmb@dima by2.2bp%
1789     \bmb@dimb=\bmb@temp\advance\bmb@dimb by4bp%
1790     \hbox{%

```



```

1791 \begin{pgfpicture}{0bp}{+-\ht\bmb@box}{0bp}{+-\ht\bmb@box}
1792 \ifdim\wd\bmb@box=0pt%
1793 \color{lower.bg}%
1794 \else%
1795 \color{upper.bg}%
1796 \fi%
1797 \pgfpathqmoveto{-4bp}{-1bp}
1798 \pgfpathqcurveto{-4bp}{1.2bp}{-2.2bp}{3bp}{0bp}{3bp}
1799 \pgfpathlineto{\pgfpoint{\bmb@temp}{3bp}}
1800 \pgfpathcurveto%
1801 {\pgfpoint{\bmb@dima}{3bp}}%
1802 {\pgfpoint{\bmb@dimb}{1.2bp}}%
1803 {\pgfpoint{\bmb@dimb}{-1bp}}%
1804 \bmb@dima=-\ht\bmb@box%
1805 \advance\bmb@dima by-2pt%
1806 \pgfpathlineto{\pgfpoint{\bmb@dimb}{\bmb@dima}}
1807 \pgfpathlineto{\pgfpoint{-4bp}{\bmb@dima}}
1808 \pgfusepath{fill}
1809 \end{pgfpicture}%
1810 \copy\bmb@box%
1811 }%
1812 \nointerlineskip%
1813 \vskip-1pt%
1814 \ifdim\wd\bmb@box=0pt%
1815 \else%
1816 \hbox{%
1817 \begin{pgfpicture}{0pt}{0pt}{\bmb@width}{6pt}
1818 \bmb@dima=\bmb@width%
1819 \advance\bmb@dima by8bp%
1820 \pgfpathrectangle{\pgfpoint{-4bp}{-1bp}}{\pgfpoint{\bmb@dima}{8bp}}
1821 \pgfusepath{clip}
1822 {\pgftransformshift{\pgfpoint{-4bp}{0bp}}\pgftext[left,base]{\pgfuses shading{\bmb@transi
1823 \end{pgfpicture}%
1824 }%
1825 \nointerlineskip%
1826 \vskip-0.5pt%
1827 \fi%
1828 \setbox\bmb@colorbox=\hbox{\pgfpicturetrue\pgfsetcolor{lower.bg}}}%
1829 \setbox\bmb@box=\hbox\bgroup\begin{minipage}[b]{\bmb@width}%
1830 \vskip2pt%
1831 \usebeamercolor[fg]{\bmb@lower}%
1832 \colorlet{beamerstructure}{upper.bg}%
1833 \colorlet{structure}{upper.bg}%
1834 %\color{.}%
1835 \@bidi@list@minipage@parboxfalse
1836 }
1837
1838 \bidi@patchcmd{\endbeamerboxesrounded}{\begingroup}{%
1839 \begingroup
1840 \@RTLfalse
1841 }{}{}
1842
1843

```



## 17 File beamerbasecolor-xetex-bidi.def

```

1844 \ProvidesFile{beamerbasecolor-xetex-bidi.def}[2022/06/07 v0.2 bidi adaptations for beamerbas
1845 \renewenvironment{beamercolorbox}[2][{}]{%
1846   \def\beamer@vmode{\leavevmode}%
1847   \setkeys{beamercolbox}{wd=\textwidth,ht={},dp={},%
1848     leftskip=0pt,rightskip=0pt plus1fil,%
1849     sep=0pt,colsep=0pt,colsep*=0pt,%
1850     shadow=false,rounded=false,ignorebg=false}%
1851   \if@RTL
1852     \setkeys{beamercolbox}{rightskip=0pt,leftskip=0pt plus1fil}%
1853   \else
1854     \setkeys{beamercolbox}{leftskip=0pt,rightskip=0pt plus1fil}%
1855   \fi
1856   \setkeys{beamercolbox}{#1}%
1857   \ifbeamercoloreempty[bg]{#2}{\@tempswafalse}{\@tempswatruetrue}%
1858   \ifbeamer@colbox@ignorebg\@tempswafalse\fi%
1859   \def\beamer@colbox@color{#2}%
1860   \setbox\beamer@tempbox=\hbox\bgroup\color@begingroup
1861     \ifbeamer@colbox@ignorebg%
1862       \colorlet{beamer@temp@color}{bg}%
1863       \usebeamercolor[fg]{#2}%
1864       \colorlet{bg}{beamer@temp@color}%
1865     \else%
1866       \usebeamercolor[fg]{#2}%
1867     \fi%
1868     \beginL
1869     \vbox\bgroup%
1870     \hsize=\beamer@colbox@wd%
1871     \@arrayparboxrestore%
1872     \leftskip=\beamer@colbox@ls%
1873     \ifdim\beamer@colbox@sep>\z@\advance\leftskip\beamer@colbox@sep\fi%
1874     \rightskip=\beamer@colbox@rs%
1875     \ifdim\beamer@colbox@sep>\z@\advance\rightskip\beamer@colbox@sep\fi%
1876     \if@tempswa\ifdim\beamer@colbox@colsep>\z@%
1877       \advance\leftskip by\beamer@colbox@colsep%
1878       \advance\rightskip by\beamer@colbox@colsep%
1879       \vskip\beamer@colbox@colsep%
1880     \fi%
1881     \ifdim\beamer@colbox@colseps>\z@\vskip\beamer@colbox@colseps\fi%
1882     \fi%
1883     \ifdim\beamer@colbox@sep>\z@\vskip\beamer@colbox@sep\fi%
1884     \beamer@vmode\ignorespaces}%
1885     \ifdim\beamer@colbox@sep>\z@\vskip\beamer@colbox@sep\fi%
1886     \if@tempswa
1887       \ifdim\beamer@colbox@colsep>\z@\vskip\beamer@colbox@colsep\fi%
1888       \ifdim\beamer@colbox@colseps>\z@\vskip\beamer@colbox@colseps\fi%
1889     \fi%
1890   \egroup\endL\color@endgroup\egroup%
1891   \wd\beamer@tempbox=\beamer@colbox@wd%
1892   \ifx\beamer@colbox@ht\empty\else\ht\beamer@tempbox=\beamer@colbox@ht\fi%
1893   \ifx\beamer@colbox@dp\empty\else\dp\beamer@tempbox=\beamer@colbox@dp\fi%
1894   \ifbeamer@colbox@rounded%
1895     \if@tempswa%

```



```

1896 \begin{beamerboxesrounded}[%
1897   shadow=\beamer@colbox@shadow,%
1898   lower=\beamer@colbox@color,%
1899   upper=normal text,%
1900   width=\beamer@colbox@wd]{}%
1901   \box\beamer@tempbox%
1902 \end{beamerboxesrounded}%
1903 \else%
1904   \ifdim\wd\beamer@tempbox>\textwidth%
1905     \setbox\beamer@tempbox=\hbox to\textwidth{\hss\box\beamer@tempbox\hss}%
1906   \fi%
1907   \box\beamer@tempbox%
1908   \fi%
1909 \else%
1910   \if@tempswa\setbox\beamer@tempbox=\hbox{%
1911     \usebeamercolor{\beamer@colbox@color}%
1912     \hskip-\beamer@colbox@colseps%
1913     \fboxsep=\z@\colorbox{bg}{}%
1914     \hskip\beamer@colbox@colseps%
1915     \box\beamer@tempbox%
1916     \hskip\beamer@colbox@colseps%
1917   }%
1918   \hskip-\beamer@colbox@colseps%
1919   }\fi%
1920   \ifdim\wd\beamer@tempbox>\textwidth%
1921     \setbox\beamer@tempbox=\hbox to\textwidth{\hskip0pt minus\beamer@leftmargin\relax\box\beamer@tempbox}%
1922   \fi%
1923   \box\beamer@tempbox%
1924   \fi%
1925 }
1926
1927

```

## 18 File beamerbasecompatibility-xetex-bidi.def

```

1928 \ProvidesFile{beamerbasecompatibility-xetex-bidi.def}[2022/06/27 v0.1 bidi adaptations for b
1929 \def\insertvrule#1#2{\hbox{{\color{#2}\hskip-\Gm@lmargin\vrule width \paperwidth height #1\h
1930
1931

```

## 19 File beamerbaseframecomponents-xetex-bidi.def

```

1932 \ProvidesFile{beamerbaseframecomponents-xetex-bidi.def}[2022/06/13 v0.4 bidi adaptations for
1933 \renewcommand{\setbeamersize}[1]{%
1934   \beamer@dogeometryfalse%
1935   \setkeys{beamer@margin}{#1}%
1936   \ifbeamer@dogeometry%
1937     % Reset left margin now
1938     \beamer@tempdim=\beamer@leftmargin%
1939     \advance\beamer@tempdim by\beamer@leftsidebar%
1940     \if@RTLmain
1941       \geometry{right=\the\beamer@tempdim}%
1942     \else
1943       \geometry{left=\the\beamer@tempdim}%

```



```

1944 \fi
1945 % Reset right margin now
1946 \beamer@tempdim=\beamer@rightmargin%
1947 \advance\beamer@tempdim by\beamer@rightsidebar%
1948 \if@RTLmain
1949 \geometry{left=\the\beamer@tempdim}%
1950 \else
1951 \geometry{right=\the\beamer@tempdim}%
1952 \fi
1953 \fi%
1954 }
1955
1956 \newcommand*{\bidi@beamer@Gm@lmargin}{%
1957 \if@RTLmain
1958 \Gm@rmargin
1959 \else
1960 \Gm@lmargin
1961 \fi
1962 }
1963
1964 \newcommand*{\bidi@beamer@Gm@rmargin}{%
1965 \if@RTLmain
1966 \Gm@lmargin
1967 \else
1968 \Gm@rmargin
1969 \fi
1970 }
1971
1972 \def\ps@navigation{
1973 \def\@oddhead{%
1974 \begingroup%
1975 \setbox\beamer@tempbox=\hbox{\usebeamertemplate***{background canvas}\hyper@pagetransition}%
1976 \beamer@tempdim=\ht\beamer@tempbox%
1977 \setbox\beamer@tempbox=\hbox{\lower\beamer@tempdim\hbox{\box\beamer@tempbox}}%
1978 \wd\beamer@tempbox=0pt\ht\beamer@tempbox=0pt\dp\beamer@tempbox=0pt%
1979 \setbox\@tempboxa=\hbox{\usebeamertemplate***{background}}%
1980 \beamer@tempdim=\ht\@tempboxa%
1981 \setbox\@tempboxa=\hbox{\lower\beamer@tempdim\hbox{\box\@tempboxa}}%
1982 \wd\@tempboxa=0pt\ht\@tempboxa=0pt\dp\@tempboxa=0pt%
1983 \vbox{\hbox{\hskip-\bidi@beamer@Gm@lmargin\box\beamer@tempbox\box\@tempboxa}%
1984 \hbox{%
1985 {%
1986 \setbox\beamer@tempbox=\hbox{\hskip-\bidi@beamer@Gm@lmargin%
1987 \if@RTLmain
1988 {%
1989 \vbox to \sidebarheight{%
1990 \usebeamertemplate***{sidebar left}%
1991 \vfil%
1992 }}%
1993 \ifpackageloaded{beamerinnerthemeinmargin}{}%
1994 \hskip-\textwidth
1995 }%
1996 \fi
1997 {\setbox\beamer@tempbox=\hbox{\vbox to \sidebarheight{%

```



```

1998         \usebeamercolor*{sidebar left}%
1999         \usebeamertemplate{sidebar canvas left}%
2000         \vss%
2001     }}%
2002     \wd\beamer@tempbox=0pt\ht\beamer@tempbox=0pt\dp\beamer@tempbox=0pt%
2003     \box\beamer@tempbox}%
2004     \if@RTLmain
2005     \else
2006     {%
2007         \vbox to \sidebarheight{%
2008             \usebeamertemplate***{sidebar left}%
2009             \vfil%
2010         }}\fi}%
2011     \beamer@tempdim=\ht\beamer@tempbox%
2012     \setbox\beamer@tempbox=\hbox{{\lower\beamer@tempdim\hbox{\box\beamer@tempbox}}}%
2013     \wd\beamer@tempbox=0pt\ht\beamer@tempbox=0pt\dp\beamer@tempbox=0pt%
2014     \box\beamer@tempbox%
2015 }%
2016 {% print right sidebar first, since it should be overwritten by headline
2017     \setbox\beamer@tempbox=\hbox{\hskip\textwidth\hskip\beamer@rightmargin%
2018     \if@RTLmain
2019         {%
2020             \vbox to \sidebarheight{%
2021                 \usebeamertemplate***{sidebar right}%
2022                 \vfil%
2023             }}%
2024             \hskip-\textwidth
2025             \fi
2026             {\setbox\beamer@tempbox=\hbox{\vbox to \sidebarheight{%
2027                 \usebeamercolor*{sidebar right}%
2028                 \usebeamertemplate{sidebar canvas right}%
2029                 \vss%
2030             }}%
2031             \wd\beamer@tempbox=0pt\ht\beamer@tempbox=0pt\dp\beamer@tempbox=0pt%
2032             \box\beamer@tempbox}%
2033             \if@RTLmain
2034             \else
2035             {%
2036                 \vbox to \sidebarheight{%
2037                     \usebeamertemplate***{sidebar right}%
2038                     \vfil%
2039                 }}\fi}%
2040             \beamer@tempdim=\ht\beamer@tempbox%
2041             \setbox\beamer@tempbox=\hbox{{\lower\beamer@tempdim\hbox{\box\beamer@tempbox}}}%
2042             \wd\beamer@tempbox=0pt\ht\beamer@tempbox=0pt\dp\beamer@tempbox=0pt%
2043             \box\beamer@tempbox%
2044         }}%
2045         \beamer@typesetheadorfoot{headline}%
2046     }%
2047     \hfil}%
2048 \endgroup}
2049 \def\@oddfoot{%
2050     \vbox{\offinterlineskip\hbox{\beamer@typesetheadorfoot{footline}%
2051     \hfil}\hbox{}}\hfil

```



```

2052 }%
2053 \let\@evenhead\@oddhead
2054 \let\@evenfoot\@oddfoot}
2055
2056 \AtBeginDocument{%
2057   \pagestyle{navigation}%
2058 }
2059
2060 \def\beamer@typesetheadorfoot#1{% typeset the head or footline
2061   {\parskip0pt\offinterlineskip%
2062     \hbox{%
2063       \hskip-\bidi@beamer@Gm@lmargin%
2064       \hbox{%
2065         \vbox{%
2066           \@tempdima=\textwidth%
2067           \textwidth=\paperwidth%
2068           \hsize=\textwidth%
2069           \def\{,%
2070             \usebeamertemplate***{#1}%
2071           }%
2072           \hskip-\bidi@beamer@Gm@rmargin%
2073         }\hfil%
2074       }
2075     }
2076 \def\ps@empty{%
2077   \let\@mkboth\@gobbletwo%
2078   \def\@oddhead{\begingroup%
2079     \setbox\beamer@tempbox=\hbox{\usebeamertemplate***{background canvas}\hyper@pagetransiti
2080     \beamer@tempdim=\ht\beamer@tempbox%
2081     \setbox\beamer@tempbox=\hbox{\lower\beamer@tempdim\hbox{\box\beamer@tempbox}}%
2082     \wd\beamer@tempbox=0pt\ht\beamer@tempbox=0pt\dp\beamer@tempbox=0pt%
2083     \setbox\@tempboxa=\hbox{\usebeamertemplate***{background}}%
2084     \beamer@tempdim=\ht\@tempboxa%
2085     \setbox\@tempboxa=\hbox{\lower\beamer@tempdim\hbox{\box\@tempboxa}}%
2086     \wd\@tempboxa=0pt\ht\@tempboxa=0pt\dp\@tempboxa=0pt%
2087     \vbox{\hbox{\hskip-\Gm@lmargin\raise\headheight\box\beamer@tempbox\raise\headheight\box
2088     \endgroup%
2089   }
2090   \def\@oddfoot{\normalcolor\hfil%
2091     \setbox\beamer@tempbox=\hbox{\usebeamertemplate***{navigation symbols}\hskip-\Gm@rmargin
2092     \ht\beamer@tempbox=0pt%
2093     \dp\beamer@tempbox=0pt%
2094     \box\beamer@tempbox}}
2095   \let\@evenhead\@oddhead\let\@evenfoot\@oddfoot}
2096
2097 \renewcommand<>\beamer@columncom[2][\beamer@colmode]{%
2098   \beamer@colclose%
2099   \def\beamer@colclose{\end{minipage}\hfill\end{actionenv}\ignorespaces}%
2100 \begin{actionenv}#3%
2101   \setkeys{beamer@col}{#1}%
2102   \begin{minipage}[\beamer@colalign]{#2}%
2103     \leavevmode\bidi@beamer@ragged\beamer@colheadskip\ignorespaces}
2104
2105 \renewenvironment<>{columns}[1][]{%

```



```

2106 \begin{actionenv}#2%
2107 \ifbeamer@onlytextwidth
2108   \def\beamer@colentrycode{\hbox to\textwidth\bgroup\ignorespaces}%
2109   \def\beamer@colexitcode{\unskip\egroup}
2110 \else%
2111   \def\beamer@colentrycode{%
2112     \hbox to\textwidth\bgroup%
2113     \leavevmode%
2114     \hskip-\beamer@leftmargin%
2115     \nobreak%
2116     \beamer@tempdim=\textwidth%
2117     \advance\beamer@tempdim by\beamer@leftmargin%
2118     \advance\beamer@tempdim by\beamer@rightmargin%
2119     \hbox to\beamer@tempdim\bgroup%
2120     \hbox{}\hfill\ignorespaces}%
2121   \def\beamer@colexitcode{\egroup%
2122     \nobreak%
2123     \hskip-\beamer@rightmargin\egroup}%
2124 \fi%
2125 \ifbeamer@centered\setkeys{beamer@col}{c}\else\setkeys{beamer@col}{t}\fi%
2126 \setkeys{beamer@col}{#1}%
2127 \par%
2128 \leavevmode
2129 \beamer@colentrycode%
2130 \def\beamer@colclose{}\ignorespaces}%
2131 {\beamer@colclose\def\beamer@colclose{}\beamer@colexitcode\end{actionenv}}%
2132
2133
2134 \def\@makeRTLftntext#1{%
2135   \def\insertfootnotetext{#1}%
2136   \def\insertfootnotemark{\@makefnmark}%
2137   \usebeamertemplate***{RTLfootnote}}
2138
2139 \def\@makeLTRftntext#1{%
2140   \def\insertfootnotetext{#1}%
2141   \def\insertfootnotemark{\@makefnmark}%
2142   \usebeamertemplate***{LTRfootnote}}
2143
2144 \renewcommand<>\beamer@framefootnotetext[1]{%
2145   \global\setbox\beamer@footins\vbox{%
2146     \ifRTL@footnote\@RTLtrue\else\@RTLfalse\fi%
2147     \hsize\framewidth
2148     \textwidth\hsize
2149     \columnwidth\hsize
2150     \unvbox\beamer@footins
2151     \reset@font
2152     \bidi@@footnotetext@font
2153     \@parboxrestore
2154     \protected@edef\@currentlabel
2155       {\csname p@footnote\endcsname\@thefnmark}%
2156     \color@begingroup
2157       \uncover#2{\@makefntext{%
2158         \rule{z@footnotesep\ignorespaces#1\@finalstrut\strutbox}}}%
2159       \color@endgroup}}

```



```

2160
2161 \renewcommand<>\beamer@frameRTLfootnotetext[1]{%
2162   \global\setbox\beamer@footins\vbox{%
2163     \RTLtrue
2164     \hsize\framewidth
2165     \textwidth\hsize
2166     \columnwidth\hsize
2167     \unvbox\beamer@footins
2168     \reset@font
2169     \bidi@@RTLfootnotetext@font
2170     \@parboxrestore
2171     \protected@edef\@currentlabel
2172       {\csname p@footnote\endcsname\@thefnmark}%
2173     \color@begingroup
2174       \uncover#2{\@makeRTLfnstext{%
2175         \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}}%
2176     \color@endgroup}}
2177
2178 \renewcommand<>\beamer@frameLTRfootnotetext[1]{%
2179   \global\setbox\beamer@footins\vbox{%
2180     \RTLfalse
2181     \hsize\framewidth
2182     \textwidth\hsize
2183     \columnwidth\hsize
2184     \unvbox\beamer@footins
2185     \reset@font
2186     \bidi@@LTRfootnotetext@font
2187     \@parboxrestore
2188     \protected@edef\@currentlabel
2189       {\csname p@footnote\endcsname\@thefnmark}%
2190     \color@begingroup
2191       \uncover#2{\@makeLTRfnstext{%
2192         \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}}%
2193     \color@endgroup}}
2194
2195 \renewcommand<>\@mpfootnotetext[1]{%
2196   \ifbidi@autofootnoterule\ifnum\c@mpfootnote=\@one\if@RTL@footnote\global\let\bidi@mpfootnoterule\right@footnoterule
2197   \global\setbox\@mpfootins\vbox{%
2198     \if@RTL@footnote\RTLtrue\else\RTLfalse\fi
2199     \unvbox\@mpfootins
2200     \reset@font
2201     \bidi@@footnotetext@font
2202     \hsize\columnwidth
2203     \@parboxrestore
2204     \protected@edef\@currentlabel
2205       {\csname p@mpfootnote\endcsname\@thefnmark}%
2206     \color@begingroup
2207       \uncover#2{\@makefnstext{%
2208         \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}}%
2209     \color@endgroup}}
2210
2211 \renewcommand<>\@mpRTLfootnotetext[1]{%
2212   \ifbidi@autofootnoterule\ifnum\c@mpfootnote=\@one\global\let\bidi@mpfootnoterule\right@footnoterule
2213   \global\setbox\@mpfootins\vbox{%

```



```

2214 \RTLtrue
2215 \unvbox\@mpfootins
2216 \reset@font
2217 \bidi@RTLfootnotetext@font
2218 \hsize\columnwidth
2219 \@parboxrestore
2220 \protected@edef\@currentlabel
2221 {\csname p@mpfootnote\endcsname\@thefnmark}%
2222 \color@begingroup
2223 \uncover#2{\@makeRTLfnstext{%
2224 \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}}%
2225 \color@endgroup}}
2226
2227 \renewcommand<>\@mpLTRfootnotetext[1]{%
2228 \ifbidi@autofooterule\ifnum\c@mpfootnote=\@ne\global\let\bidi@mpfootnoterule\left@footnot
2229 \global\setbox\@mpfootins\vbox{%
2230 \RTLfalse
2231 \unvbox\@mpfootins
2232 \reset@font
2233 \bidi@LTRfootnotetext@font
2234 \hsize\columnwidth
2235 \@parboxrestore
2236 \protected@edef\@currentlabel
2237 {\csname p@mpfootnote\endcsname\@thefnmark}%
2238 \color@begingroup
2239 \uncover#2{\@makeLTRfnstext{%
2240 \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}}%
2241 \color@endgroup}}
2242
2243 \let\@footnotetext=\beamer@framefootnotetext
2244 \let\@RTLfootnotetext=\beamer@frameRTLfootnotetext
2245 \let\@LTRfootnotetext=\beamer@frameLTRfootnotetext
2246
2247 \footdir@temp\footdir@ORG@bidi@beamer@footnotetext\@footnotetext{\bidi@footdir@footnote}%
2248 \footdir@temp\footdir@ORG@bidi@beamer@RTLfootnotetext\@RTLfootnotetext{R}%
2249 \footdir@temp\footdir@ORG@bidi@beamer@LTRfootnotetext\@LTRfootnotetext{L}%
2250
2251 \renewcommand<>{\footnote}[1][ ]{%
2252 \let\beamer@footnotetext=\@footnotetext%
2253 \let\beamer@mpfn=\@mpfn%
2254 \let\beamer@thempfn=\thempfn%
2255 \let\beamer@kvorig=\KV@errx%
2256 \let\beamer@xkvorig=\XKV@err
2257 \def\beamer@footarg{}%
2258 \def\KV@errx##1{\edef\beamer@footarg{\@tempa}}%
2259 \def\XKV@err##1{\edef\beamer@footarg{\XKV@tkey}}%
2260 \setkeys{beamerfootnote}{#1}%
2261 \let\KV@errx=\beamer@kvorig%
2262 \let\XKV@errx=\beamer@xkvorig%
2263 \ifx\beamer@footarg\@empty%
2264 \def\beamer@next{\stepcounter\beamer@mpfn
2265 \protected@xdef\@thefnmark{\beamer@thempfn}%
2266 \@footnotemark\beamer@footnotetext#2}%
2267 \else%

```



```

2268 \def\beamer@next{%
2269 \begingroup
2270 \csname c@\beamer@mpfn\endcsname\beamer@footarg\relax
2271 \unrestored@protected@xdef\@thefnmark{\beamer@thempfn}%
2272 \endgroup
2273 \@footnotemark\beamer@footnotetext#2}%
2274 \fi%
2275 \beamer@next}
2276
2277 \renewcommand<>{\RTLfootnote}[1] [] {%
2278 \let\beamer@RTLfootnotetext=\@RTLfootnotetext%
2279 \let\beamer@mpfn=\@mpfn%
2280 \let\beamer@thempfn=\thempfn%
2281 \let\beamer@kvorig=\KV@errx%
2282 \let\beamer@xkvorig=\XKV@err
2283 \def\beamer@footarg{%
2284 \def\KV@errx##1{\edef\beamer@footarg{\@tempa}}%
2285 \def\XKV@err##1{\edef\beamer@footarg{\XKV@tkey}}}%
2286 \setkeys{beamerfootnote}{#1}%
2287 \let\KV@errx=\beamer@kvorig%
2288 \let\XKV@errx=\beamer@xkvorig
2289 \ifx\beamer@footarg\@empty%
2290 \def\beamer@next{\stepcounter\beamer@mpfn
2291 \protected@xdef\@thefnmark{\beamer@thempfn}%
2292 \@footnotemark\beamer@RTLfootnotetext#2}%
2293 \else%
2294 \def\beamer@next{%
2295 \begingroup
2296 \csname c@\beamer@mpfn\endcsname\beamer@footarg\relax
2297 \unrestored@protected@xdef\@thefnmark{\beamer@thempfn}%
2298 \endgroup
2299 \@footnotemark\beamer@RTLfootnotetext#2}%
2300 \fi%
2301 \beamer@next}
2302
2303 \renewcommand<>{\LTRfootnote}[1] [] {%
2304 \let\beamer@LTRfootnotetext=\@LTRfootnotetext%
2305 \let\beamer@mpfn=\@mpfn%
2306 \let\beamer@thempfn=\thempfn%
2307 \let\beamer@kvorig=\KV@errx%
2308 \let\beamer@xkvorig=\XKV@err
2309 \def\beamer@footarg{%
2310 \def\KV@errx##1{\edef\beamer@footarg{\@tempa}}%
2311 \def\XKV@err##1{\edef\beamer@footarg{\XKV@tkey}}}%
2312 \setkeys{beamerfootnote}{#1}%
2313 \let\KV@errx=\beamer@kvorig%
2314 \let\XKV@errx=\beamer@xkvorig
2315 \ifx\beamer@footarg\@empty%
2316 \def\beamer@next{\stepcounter\beamer@mpfn
2317 \protected@xdef\@thefnmark{\beamer@thempfn}%
2318 \@footnotemark\beamer@LTRfootnotetext#2}%
2319 \else%
2320 \def\beamer@next{%
2321 \begingroup

```



```

2322         \csname c@\beamer@mpfn\endcsname\beamer@footarg\relax
2323         \unrestored@protected@xdef\@thefnmark{\beamer@thempfn}%
2324     \endgroup
2325     \@footnotemark\beamer@LTRfootnotetext#2}%
2326 \fi%
2327 \beamer@next}
2328
2329

```

## 20 File beamerbaseframesize-xetex-bidi.def

```

2330 \ProvidesFile{beamerbaseframesize-xetex-bidi.def}[2022/06/27 v0.1 bidi adaptations for beamer]
2331 \def\beamer@framezoom<#1><#2>[#3](#4,#5)(#6,#7){%
2332   \par\nointerlineskip%
2333   \global\beamer@slidehaszoomtrue%
2334   \advance\beamer@zoomcount by1\relax%
2335   \def\beamer@zoomborderwidth{0}%
2336   \edef\beamer@labelzoomed{\beamer@labelzoomed@the\beamer@zoomframecount @the\beamer@zoomcount}%
2337   \setkeys{beamerzoom}{#3}%
2338   \only<#1>{%
2339     {\hypersetup{pdfhighlight={/P},pdfborder={0 0 \beamer@zoomborderwidth}}}%
2340     \global\setbox\@tempboxa=\vbox{\hyperlink{\beamer@labelzoomed}{%
2341       \expandafter\ifx\csname XeTeXrevision\endcsname\relax
2342         \vbox to #7{%
2343           \hbox to#6{\hfil}%
2344           \vfil%
2345         }%
2346       \else%
2347         \begingroup%
2348         \normalsize%
2349         \begin{pgfpicture}{0pt}{0pt}{#6}{#7}%
2350           \pgfsetfillopacity{0}
2351           \pgftext[x=0cm,y=3pt]{.}
2352           \pgftext[x=#6,y=\dimexpr#7-\baselineskip+3pt]{.}
2353         \end{pgfpicture}%
2354       \endgroup%
2355     }%
2356   }}%
2357   \ht\@tempboxa=0pt%
2358   \wd\@tempboxa=0pt%
2359   \dp\@tempboxa=0pt%
2360   \setbox\@tempboxa=\vbox{\if@RTL\moveleft\fi#4\hbox{\lower#5\vbox{\box\@tempboxa}%
2361     \ht\@tempboxa=0pt%
2362     \wd\@tempboxa=0pt%
2363     \dp\@tempboxa=0pt%
2364   \global\setbox\beamer@zoombox=\vbox to0pt{\unvbox\beamer@zoombox\box\@tempboxa}%
2365 }%
2366 \only<#2>{%
2367   \@ifundefined{\beamer@labelzoomed}%
2368   {%
2369     \hypertarget{\beamer@labelzoomed}{}%
2370     \expandafter\gdef\csname\beamer@labelzoomed\endcsname{}%
2371   }{}%
2372   \gdef\beamer@zoomer{%

```



```

2373 % compute zoom factor
2374 \@tempdima=\beamer@frametextheight%
2375 \@tempdimb=#7\relax%
2376 \@tempcnta=\@tempdimb%
2377 \divide\@tempcnta by4096\relax%
2378 \multiply\@tempdima by16\relax%
2379 \divide\@tempdima by\@tempcnta%
2380 \@tempdimb=\paperwidth%
2381 \ifbeamer@plainframe%
2382 \else%
2383   \advance\@tempdimb by-\beamer@leftsidebar%
2384   \advance\@tempdimb by-\beamer@rightsidebar\relax%
2385 \fi%
2386 \@tempdimc=#6\relax%
2387 \@tempcntb=\@tempdimc%
2388 \divide\@tempcntb by4096\relax%
2389 \multiply\@tempdimb by16\relax%
2390 \divide\@tempdimb by\@tempcntb%
2391 \ifdim\@tempdimb<\@tempdima%
2392   \@tempdima=\@tempdimb%
2393 \fi%
2394 \edef\beamer@temp{\strip@pt\@tempdima}%
2395 \@tempdimc=\beamer@frametextheight%
2396 \advance\@tempdimc by4pt%
2397 \@tempdimb=\paperwidth%
2398 \ifbeamer@plainframe%
2399 \else%
2400   \advance\@tempdimb by-\beamer@leftsidebar%
2401   \advance\@tempdimb by-\beamer@rightsidebar\relax%
2402 \fi%
2403 \setbox\@tempboxa=\vbox{\hsize=\@tempdimb\Acrobatmenu{GoBack}{\vbox to
2404   \beamer@frametextheight{\hbox to\@tempdimb{\hfil}\vfil}}}%
2405 \ht\@tempboxa=0pt%
2406 \wd\@tempboxa=0pt%
2407 \dp\@tempboxa=0pt%
2408 \setbox\beamer@framebox=\vbox to\beamer@frametextheight{%
2409   \ifbeamer@plainframe\beamer@leftmargin=Gm@lmargin\fi%
2410   \if@RTL
2411     \begin{pgfpicture}{\paperwidth-\beamer@leftmargin}{-\beamer@frametextheight}{\paperwidth-\beamer@leftmargin}{\beamer@frametextheight}
2412       \pgftext[right,top]{\box\@tempboxa}
2413       \pgfpathrectangle{\pgfpoint{0pt}{-\@tempdimc}}{\pgfpoint{\@tempdimb}{\@tempdimc}}
2414       \pgfusepath{clip}
2415       \begin{group}
2416         \pgftransformscale{\beamer@temp}
2417         \@tempdima=#4\relax%
2418         \@tempdimb=#5\relax%
2419         {\pgftransformshift{\pgfpoint{\@tempdima+#6}{\@tempdimb}}}%
2420         \pgftext[right,top]{\vbox{\vbox{} \nointerlineskip\unvbox\beamer@framebox}}
2421       \end{group}
2422     \end{pgfpicture}%
2423   \else
2424     \begin{pgfpicture}{\beamer@leftmargin}{-\beamer@frametextheight}{\beamer@leftmargin+\beamer@rightmargin}{\beamer@frametextheight}
2425       \pgftext[left,top]{\box\@tempboxa}
2426       \pgfpathrectangle{\pgfpoint{0pt}{-\@tempdimc}}{\pgfpoint{\@tempdimb}{\@tempdimc}}

```



```

2427         \pgfusepath{clip}
2428         \beginpgfgroup
2429             \pgftransformscale{\beamer@temp}
2430             \@tempdima=#4\relax%
2431             \@tempdimb=#5\relax%
2432             {\pgftransformshift{\pgfpoint{-\@tempdima}{\@tempdimb}}}%
2433             \pgftext[left,top]{\vbox{\vbox{} \nointerlineskip\unvbox\beamer@framebox}}
2434         \endpgfgroup
2435     \endpgfpicture}%
2436     \fi
2437 }%
2438 \setbox\beamer@framebox=\vbox{%
2439     \nobreak\vbox{} \nobreak\par \nobreak\beamer@entrycode \nobreak%
2440     \nointerlineskip\unvbox\beamer@frametitlebox%
2441     \nobreak%
2442     \box\beamer@framebox%
2443     \nobreak%
2444     \vss%
2445     \beamer@exitcode%
2446 }%
2447 \global\setbox\beamer@footins=\box\voidb@x% no footnotes in zoomed slides
2448 }%
2449 }%
2450 }
2451
2452

```

## 21 File beamerbaselocalstructure-xetex-bidi.def

```

2453 \ProvidesFile{beamerbaselocalstructure-xetex-bidi.def}[2022/05/24 v0.1 bidi adaptations for
2454 \def\beamer@enum@{%
2455     \beamer@compute@pref\@itemdepth% sets \beameritemnestingprefix
2456     \usebeamerfont{itemize/enumerate \beameritemnestingprefix body}%
2457     \bgroup
2458     \usebeamerfont{fg}{itemize/enumerate \beameritemnestingprefix body}%
2459     \usebeamertemplate{itemize/enumerate \beameritemnestingprefix body begin}%
2460     \egroup
2461     \expandafter
2462     \list
2463     {\usebeamertemplate{\beamer@enumtempl}}
2464     {\usecounter\@enumctr%
2465         \def\makelabel##1{{\hss\llap{{%
2466             \usebeamerfont*{enumerate \beameritemnestingprefix item}%
2467             \usebeamerfont{fg}{enumerate \beameritemnestingprefix item}##1}}}}}%
2468     \beamer@cramped%
2469     \bidi@beamer@ragged%
2470     \beamer@firstlineitemizeunskip%
2471 }
2472
2473 \renewcommand{\itemize}[1][]{%
2474     \ifblank{#1}{{\def\beamer@defaulttospec{#1}}}%
2475     \ifnum \@itemdepth >2\relax\@toodeep\else
2476         \advance\@itemdepth\@ne
2477         \beamer@compute@pref\@itemdepth% sets \beameritemnestingprefix

```



```

2478 \usebeamerfont{itemize/enumerate \beameritemnestingprefix body}%
2479 \bgroup
2480 \usebeamerfont{fg}{itemize/enumerate \beameritemnestingprefix body}%
2481 \usebeamerfont{itemize/enumerate \beameritemnestingprefix body begin}%
2482 \egroup
2483 \list
2484 {\usebeamerfont{itemize \beameritemnestingprefix item}}
2485 {\def\makelabel##1{%
2486   {%
2487     \hss\llap{%
2488       \usebeamerfont*{itemize \beameritemnestingprefix item}%
2489       \usebeamerfont{fg}{itemize \beameritemnestingprefix item}##1}}%
2490   }%
2491 }%
2492 }
2493 \fi%
2494 \beamer@cramped%
2495 \bidi@beamer@ragged%
2496 \beamer@firstlineitemizeunskip%
2497 }
2498
2499 \def\@@description{%
2500 \advance\beamer@descdefault by \labelsep%
2501 \usebeamerfont{description body}%
2502 \bgroup
2503 \usebeamerfont{fg}{description body}%
2504 \usebeamerfont{description body begin}%
2505 \egroup
2506 \list
2507 {}
2508 {\labelwidth\beamer@descdefault\leftmargin\beamer@descdefault\let\makelabel\beamer@descrip
2509 \beamer@cramped%
2510 \bidi@beamer@ragged
2511 \beamer@firstlineitemizeunskip%
2512 }
2513
2514 \renewenvironment{thebibliography}[1]
2515 {%\leavevmode\unskip%
2516 \ifRTL\ifLTRbibitems\RTLfalse\else\fi\else\ifRTLbibitems\RTLtrue\else\fi\fi
2517 \bidi@thebibliography@font@hook%
2518 \list{\@biblabel{\@arabic\c@enumiv}}%
2519 {\settowidth\labelwidth{\beamer@biblabeltemplate{\@biblabel{#1}}}%
2520 \leftmargin\labelwidth
2521 \advance\leftmargin\labelsep
2522 \itemsep=0pt%
2523 \partopsep=0pt%
2524 \topsep=0pt%
2525 \usecounter{enumiv}%
2526 \let\p@enumiv\@empty
2527 \renewcommand\theenumiv{\@arabic\c@enumiv}
2528 \let\makelabel\beamer@biblabeltemplate}%
2529 \sloppy\bidi@beamer@ragged
2530 \clubpenalty10000
2531 \@clubpenalty \clubpenalty

```



```

2532     \widowpenalty10000%
2533     \sfcode`\.\@m}
2534     {\def\@noitemerr
2535      {\@latex@warning{Empty `thebibliography' environment}}}%
2536     \ifhmode\unskip\fi\endlist}
2537
2538

```

## 22 File beamerbasemisc-xetex-bidi.def

```

2539 \ProvidesFile{beamerbasemisc-xetex-bidi.def}[2022/06/27 v0.1 bidi adaptations for beamerbase
2540 \define@key{beamerst}{width}{%
2541   \def\beamer@ststart{%
2542     \begin{minipage}[t]{#1}%
2543       \bidi@beamer@ragged
2544       \beamer@stalign
2545       \beamer@stlinebreakrule
2546     }%
2547   \def\beamer@stend{\end{minipage}}}%
2548
2549

```

## 23 File beamerbasenavigation-xetex-bidi.def

```

2550 \ProvidesFile{beamerbasenavigation-xetex-bidi.def}[2022/06/27 v0.2 bidi adaptations for beam
2551 \def\slideentry#1#2#3#4#5#6{%
2552   %section number, subsection number, slide number, first/last frame, page number, part numb
2553   \ifnum#6=\c@part\ifnum#1>0\ifnum#3>0%
2554     \ifbeamer@compress%
2555       \advance\beamer@xpos by1\relax%
2556     \else%
2557       \ifnum#2=0%
2558         \beamer@ypos@offset=1\relax%
2559       \fi
2560       \beamer@xpos=#3\relax%
2561       \beamer@ypos=#2\relax%
2562       \advance\beamer@ypos by \beamer@ypos@offset\relax
2563     \fi%
2564   \hbox to 0pt{%
2565     \beamer@tempdim=-\beamer@vboxoffset%
2566     \advance\beamer@tempdim by-\beamer@boxsize%
2567     \multiply\beamer@tempdim by\beamer@ypos%
2568     \advance\beamer@tempdim by -.05cm%
2569     \raise\beamer@tempdim\hbox{%
2570       \beamer@tempdim=\beamer@boxsize%
2571       \multiply\beamer@tempdim by\beamer@xpos%
2572       \advance\beamer@tempdim by -\beamer@boxsize%
2573       \advance\beamer@tempdim by 1pt%
2574       \kern\beamer@tempdim
2575       \global\beamer@section@min@dim\beamer@tempdim
2576       \hbox{\beamer@link(#4){}%
2577         \usebeamerfont{mini frame}}%
2578       \ifnum\c@section=#1%
2579         \ifnum\c@subsection=#2%

```



```

2580         \usebeamercolor[fg]{mini frame}%
2581         \ifnum\c@sectionslide=#3%
2582             \usebeamertemplate{mini frame}%\beamer@minislidehighlight%
2583         \else%
2584             \usebeamertemplate{mini frame in current subsection}%\beamer@minisliderowhighlight%
2585         \fi%
2586     \else%
2587         \usebeamercolor{mini frame}%
2588         %\color{fg!50!bg}%
2589         \usebeamertemplate{mini frame in other subsection}%\beamer@minislide%
2590     \fi%
2591 \else%
2592     \usebeamercolor{mini frame}%
2593     %\color{fg!50!bg}%
2594     \usebeamertemplate{mini frame in other subsection}%\beamer@minislide%
2595 \fi%
2596 }}}\hskip-10cm plus 1fil%
2597 }\fi\fi%
2598 \else%
2599 \fakeslideentry{#1}{#2}{#3}{#4}{#5}{#6}%
2600 \fi\ignorespaces
2601 }
2602
2603 \pgfdefobject{bidi@beamer@RTL@gotosymbol}{\pgfpoint{0pt}{-1pt}}{\pgfpoint{5pt}{5pt}}
2604 {
2605     \pgfpathmoveto{3.5bp}{0.5bp}
2606     \pgfpathqlineto{1.5bp}{2bp}
2607     \pgfpathqlineto{3.5bp}{3.5bp}
2608     \pgfusepathqfill
2609 }
2610
2611 \def\insertgotosymbol{%
2612 \if@RTL
2613     \begin{pgfpicture}{-1pt}{0pt}{4pt}{5pt}
2614         \pgfuseobject{bidi@beamer@RTL@gotosymbol}%
2615     \end{pgfpicture}%
2616 \else
2617     \begin{pgfpicture}{1pt}{0pt}{6pt}{5pt}
2618         \pgfuseobject{beamer@gotosymbol}%
2619     \end{pgfpicture}%
2620 \fi
2621 }
2622
2623 \pgfdefobject{bidi@beamer@RTL@skipsymbol}{\pgfpoint{0pt}{-1pt}}{\pgfpoint{7pt}{5pt}}
2624 {
2625     \pgfpathmoveto{5.5bp}{0.5bp}
2626     \pgfpathqlineto{3.5bp}{2bp}
2627     \pgfpathqlineto{5.5bp}{3.5bp}
2628     \pgfpathmoveto{3.5bp}{0.5bp}
2629     \pgfpathqlineto{1.5bp}{2bp}
2630     \pgfpathqlineto{3.5bp}{3.5bp}
2631     \pgfusepathqfill
2632 }
2633

```



```

2634 \def\insertskipsymbol{%
2635 \if@RTL
2636   \begin{pgfpicture}{-1pt}{0pt}{6pt}{5pt}
2637     \pgfuseobject{bidi@beamer@RTL@skipsymbol}%
2638   \end{pgfpicture}%
2639 \else
2640   \begin{pgfpicture}{1pt}{0pt}{8pt}{5pt}
2641     \pgfuseobject{beamer@skipsymbol}%
2642   \end{pgfpicture}%
2643 \fi
2644 }
2645
2646 \pgfdefobject{bidi@beamer@RTL@returnsymbol}{\pgfpoint{0pt}{-1pt}}{\pgfpoint{5pt}{5pt}}
2647 {
2648   \pgfpathmoveto{1.5bp}{0.5bp}
2649   \pgfpathqlineto{3.5bp}{2bp}
2650   \pgfpathqlineto{1.5bp}{3.5bp}
2651   \pgfusepathqfill
2652 }
2653
2654 \def\insertreturnsymbol{%
2655 \if@RTL
2656   \begin{pgfpicture}{-1pt}{0pt}{4pt}{5pt}
2657     \pgfuseobject{bidi@beamer@RTL@returnsymbol}%
2658   \end{pgfpicture}%
2659 \else
2660   \begin{pgfpicture}{1pt}{0pt}{6pt}{5pt}
2661     \pgfuseobject{beamer@returnsymbol}%
2662   \end{pgfpicture}%
2663 \fi
2664 }
2665
2666

```

## 24 File beamerbaseoverlay-xetex-bidi.def

```

2667 \ProvidesFile{beamerbaseoverlay-xetex-bidi.def}[2022/06/10 v0.1 bidi adaptations for beamer]
2668 \renewcommand<>{\color}{\alt#1{\beameroriginal{\color}}{\beamer@gobbleoptionalinsp}}
2669
2670

```

## 25 File beamerinnerthemedefault-xetex-bidi.def

```

2671 \ProvidesFile{beamerinnerthemedefault-xetex-bidi.def}[2022/06/27 v0.6 bidi adaptations for beamer]
2672 \newcommand*{\bidi@beamer@leftskip}{%
2673   \if@RTL
2674     \rightskip
2675   \else
2676     \leftskip
2677   \fi
2678 }
2679
2680 \newcommand*{\bidi@beamer@rightskip}{%
2681   \if@RTL

```



```

2682     \leftskip
2683   \else
2684     \rightskip
2685   \fi
2686 }
2687
2688 \bidi@csundef{beamer@@tmpop@subsection in toc@default}
2689
2690 \bidi@csundef{beamer@@tmpop@subsubsection in toc@default}
2691
2692 \defbeamertemplate*{subsection in toc}{default}
2693 {\leavevmode\bidi@beamer@leftskip=1.5em\inserttocsubsection\par}
2694
2695 \defbeamertemplate*{subsubsection in toc}{default}
2696 {\leavevmode\normalsize\usebeamerfont{subsection in toc}\bidi@beamer@leftskip=3em%
2697   \usebeamerfont{subsubsection in toc}\inserttocsubsubsection\par}
2698
2699 \newcommand*{\bidi@beamer@blacktriangle}{%
2700   \if@RTL
2701     $\blacktriangleleft$%
2702   \else
2703     $\blacktriangleright$%
2704   \fi
2705 }
2706
2707 \bidi@csundef{beamer@@tmpop@itemize item@default}
2708
2709 \bidi@csundef{beamer@@tmpop@itemize subitem@default}
2710
2711 \bidi@csundef{beamer@@tmpop@itemize subsubitem@default}
2712
2713 \defbeamertemplate*{itemize item}{default}{\usebeamerfont*{itemize item}\raise1.25pt\hbox{\d
2714 \defbeamertemplate*{itemize subitem}{default}{\usebeamerfont*{itemize subitem}\raise1.5pt\hb
2715 \defbeamertemplate*{itemize subsubitem}{default}{\usebeamerfont*{itemize subsubitem}\raise1.
2716
2717 \bidi@undef\beamer@@tmpop@footnote@default
2718
2719 \defbeamertemplate*{footnote}{default}
2720 {
2721   \parindent 1em\noindent%
2722   \bidi@beamer@ragged
2723   \hbox to 1.8em{\hfil\insertfootnotemark}\insertfootnotetext\par%
2724 }
2725
2726 \defbeamertemplate*{RTLfootnote}{default}
2727 {
2728   \parindent 1em\noindent%
2729   \raggedleft
2730   \hbox to 1.8em{\hfil\insertfootnotemark}\insertfootnotetext\par%
2731 }
2732
2733 \defbeamertemplate*{LTRfootnote}{default}
2734 {
2735   \parindent 1em\noindent%

```



```

2736 \raggedright
2737 \hbox to 1.8em{\hfil\insertfootnotemark}\insertfootnotetext\par%
2738 }
2739
2740 \bidi@undef\beamer@@tmpop@caption@default
2741
2742 \defbeamertemplate*{caption}{default}
2743 {%
2744 \bidi@beamer@ragged
2745 {%
2746 \leavevmode
2747 \usebeamercolor[fg]{caption name}%
2748 \usebeamerfont*{caption name}%
2749 \insertcaptionname
2750 \usebeamertemplate{caption label separator}%
2751 }%
2752 \insertcaption\par
2753 }
2754
2755 \bidi@csundef{beamer@@tmpop@block begin@default}
2756
2757 \bidi@csundef{beamer@@tmpop@block alerted begin@default}
2758
2759 \bidi@csundef{beamer@@tmpop@block example begin@default}
2760
2761 \defbeamertemplate*{block begin}{default}
2762 {
2763 \par\vskip\medskipamount%
2764 \begin{beamercolorbox}[colsep*=.75ex]{block title}
2765 \usebeamerfont*{block title}\insertblocktitle%
2766 \end{beamercolorbox}%
2767 {\parskip0pt\par}%
2768 \ifbeamercoloreempty[bg]{block title}
2769 {}
2770 {\ifbeamercoloreempty[bg]{block body}{\nointerlineskip\vskip-0.5pt}}%
2771 \usebeamerfont{block body}%
2772 \begin{beamercolorbox}[colsep*=.75ex,vmode]{block body}%
2773 \ifbeamercoloreempty[bg]{block body}{\vskip-.25ex}{\leavevmode\vskip-\dimexpr.75ex+\baselineskip}%
2774 }
2775
2776 \defbeamertemplate*{block alerted begin}{default}
2777 {
2778 \par\vskip\medskipamount%
2779 \begin{beamercolorbox}[colsep*=.75ex]{block title alerted}
2780 \usebeamerfont*{block title alerted}\insertblocktitle%
2781 \end{beamercolorbox}%
2782 {\parskip0pt\par}%
2783 \ifbeamercoloreempty[bg]{block title alerted}
2784 {}
2785 {\ifbeamercoloreempty[bg]{block body alerted}{\nointerlineskip\vskip-0.5pt}}%
2786 \usebeamerfont{block body alerted}%
2787 \begin{beamercolorbox}[colsep*=.75ex,vmode]{block body alerted}%
2788 \ifbeamercoloreempty[bg]{block body alerted}{\vskip-.25ex}{\leavevmode\vskip-\dimexpr.75ex+\baselineskip}%
2789 }

```



```

2790
2791 \defbeamertemplate*{block example begin}{default}
2792 {
2793   \par\vskip\medskipamount%
2794   \begin{beamercolorbox}[colsep*=.75ex]{block title example}
2795     \usebeamerfont*{block title example}\insertblocktitle%
2796   \end{beamercolorbox}%
2797   {\parskip0pt\par}%
2798   \ifbeamercoloreempty[bg]{block title example}
2799   {}
2800   {\ifbeamercoloreempty[bg]{block body example}{\nointerlineskip\vskip-0.5pt}}%
2801   \usebeamerfont{block body example}%
2802   \begin{beamercolorbox}[colsep*=.75ex,vmode]{block body example}%
2803     \ifbeamercoloreempty[bg]{block body example}{\vskip-.25ex}{\leavevmode\vskip-\dimexpr.75ex}
2804   }
2805
2806 \bidi\csundef{beamer@@tmpop@abstract begin@default}
2807
2808 \defbeamertemplate*{abstract begin}{default}
2809 {\beamercolorbox[vmode]{abstract}\bidi@beamer@leftskip2em\bidi@beamer@rightskip2em plus 1fil}
2810
2811 \bidi\undef{beamer@@tmpop@button@default}
2812
2813 \defbeamertemplate*{button}{default}
2814 {%
2815   \setbox\beamer@tempbox=\hbox{\insertbuttontext}%
2816   \ht\beamer@tempbox=6pt%
2817   \dp\beamer@tempbox=0pt%
2818   \setbox\beamer@tempbox=\vbox{\box\beamer@tempbox\vskip2pt}%
2819   \beamer@tempdim=\wd\beamer@tempbox%
2820   \beamer@dima=\beamer@tempdim\advance\beamer@dima by2.2pt
2821   \beamer@dimb=\beamer@tempdim\advance\beamer@dimb by4pt
2822   \if@RTL
2823     \kern4pt%
2824     \box\beamer@tempbox%
2825     \hskip-\beamer@tempdim%
2826   \fi
2827   \begin{pgfpicture}{-4pt}{0pt}{\the\beamer@tempdim}{8pt}
2828     \color{bg}
2829     \pgfsetlinewidth{0.8pt}
2830     \pgfpathqmoveto{0pt}{0pt}
2831     \pgfpathqcurveto{-2.2pt}{0pt}{-4pt}{1.8pt}{-4pt}{4pt}
2832     \pgfpathqcurveto{-4pt}{6.2pt}{-2.2pt}{8pt}{0pt}{8pt}
2833     \pgfpathlineto{\pgfpoint{\the\beamer@tempdim}{8pt}}
2834     \pgfpathcurveto%
2835       {\pgfpoint{\the\beamer@dima}{8pt}}%
2836       {\pgfpoint{\the\beamer@dimb}{6.2pt}}%
2837       {\pgfpoint{\the\beamer@dimb}{4pt}}
2838     \pgfpathcurveto%
2839       {\pgfpoint{\the\beamer@dimb}{1.8pt}}%
2840       {\pgfpoint{\the\beamer@dima}{0pt}}%
2841       {\pgfpoint{\the\beamer@tempdim}{0pt}}
2842     \pgfpathclose
2843     \pgfusepathqfill

```



```

2844 \colorlet{bg}{parent.bg}
2845 \usebeamercolor[fg]{button border}
2846 \pgfpathmoveto{0pt}{0pt}
2847 \pgfpathqcurveto{-2.2pt}{0pt}{-4pt}{1.8pt}{-4pt}{4pt}
2848 \pgfpathqcurveto{-4pt}{6.2pt}{-2.2pt}{8pt}{0pt}{8pt}
2849 \pgfpathlineto{\pgfpoint{\the\beamer@tempdim}{8pt}}
2850 \pgfpathcurveto%
2851 {\pgfpoint{\the\beamer@dima}{8pt}}%
2852 {\pgfpoint{\the\beamer@dimb}{6.2pt}}%
2853 {\pgfpoint{\the\beamer@dimb}{4pt}}
2854 \pgfpathcurveto%
2855 {\pgfpoint{\the\beamer@dimb}{1.8pt}}%
2856 {\pgfpoint{\the\beamer@dima}{0pt}}%
2857 {\pgfpoint{\the\beamer@tempdim}{0pt}}
2858 \pgfpathclose
2859 \pgfusepathqstroke
2860 \end{pgfpicture}%
2861 \ifRTL
2862 \else
2863 \hskip-\beamer@tempdim%
2864 \box\beamer@tempbox%
2865 \kern4pt%
2866 \fi
2867 }
2868
2869

```

## 26 File beamerinnerthemecircles-xetex-bidi.def

```

2870 \ProvidesFile{beamerinnerthemecircles-xetex-bidi.def}[2022/06/06 v0.1 bidi adaptations for b
2871 \setbeamertemplate{sections/subsections in toc}[circle]
2872

```

## 27 File beamerinnerthemefocus-xetex-bidi.def

```

2873 \ProvidesFile{beamerinnerthemefocus-xetex-bidi.def}[2022/06/13 v0.1 bidi adaptations for bea
2874 \setbeamertemplate{section in toc}[square]
2875 \setbeamertemplate{subsection in toc}[square]
2876
2877 \setbeamertemplate{itemize items}[square]
2878 \setbeamertemplate{itemize subitem}[triangle]
2879
2880 \bidi@csundef{beamer@@tmpop@title page@focus}
2881
2882 \defbeamertemplate*{title page}{focus}{%
2883   {%
2884     \usebeamercolor{frametitle}\colorlet{focus@@temp}{bg}%
2885     \begin{tikzpicture}[overlay, remember picture]
2886       \fill[color=focus@@temp] (current page.north west) rectangle ([shift = {(0, -0.4
2887     \end{tikzpicture}
2888   }
2889
2890 \vspace{-1.65\baselineskip}
2891 \begin{minipage}[b] [0.35\paperheight]{\textwidth}

```



```

2892         \vspace{\baselineskip}
2893         \usebeamerfont{title}
2894         \usebeamercolor[fg]{frametitle}
2895         \inserttitle
2896     \end{minipage}
2897
2898     \begin{minipage}[t][0.1\paperheight]{\textwidth}
2899         \usebeamerfont{subtitle}
2900         \usebeamercolor[fg]{frametitle}
2901         \insertsubtitle
2902     \end{minipage}
2903
2904     % Set the title graphic in a zero-height box, so that
2905     % the position of other elements is not affected.
2906     {\vfuzz=9999pt\vbox to 0pt {
2907         \if@RTL
2908             \raggedright
2909         \else
2910             \raggedleft
2911         \fi
2912         \inserttitlegraphic
2913     }}
2914
2915     \begin{minipage}[t]{\textwidth}
2916         \usebeamerfont{author}
2917         \insertauthor
2918     \end{minipage}
2919
2920     \vspace*{\baselineskip}
2921     \begin{minipage}[t]{\textwidth}
2922         \usebeamerfont{institute}
2923         \insertinstitute
2924     \end{minipage}
2925
2926     \vspace*{\baselineskip}
2927     \begin{minipage}[t]{\textwidth}
2928         \usebeamerfont{date}
2929         \insertdate
2930     \end{minipage}
2931
2932     \vspace*{0pt plus 100fill}
2933
2934     \addtocounter{framenum}{-1}
2935     \addtocounter{realframenum}{-1}
2936 }
2937
2938
2939

```

## 28 File beamerinnerthemeinmargin-xetex-bidi.def

```

2940 \ProvidesFile{beamerinnerthemeinmargin-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations for
2941 \AtBeginDocument{%
2942     \setbeamersize{sidebar width left=.25\paperwidth}%

```



```

2943 }
2944
2945 \bidi@csundef{beamer@@tmpop@section in toc@inmargin}
2946
2947 \bidi@csundef{beamer@@tmpop@title page@inmargin}
2948
2949 \bidi@csundef{beamer@@tmpop@block begin@inmargin}
2950
2951 \bidi@csundef{beamer@@tmpop@block end@inmargin}
2952
2953 \bidi@csundef{beamer@@tmpop@block alerted begin@inmargin}
2954
2955 \bidi@csundef{beamer@@tmpop@block alerted end@inmargin}
2956
2957 \bidi@csundef{beamer@@tmpop@block example begin@inmargin}
2958
2959 \bidi@csundef{beamer@@tmpop@block example end@inmargin}
2960
2961 \defbeamertemplate*{section in toc}{inmargin}
2962 {\leavevmode
2963   \beamer@putleft{\usebeamercolor[fg]{section in toc}\inserttocsection}\strut}{2.5ex}}
2964
2965 \defbeamertemplate*{title page}{inmargin}
2966 {
2967   \begin{block}{\inserttitleindicator}
2968     \bgroup\usebeamercolor[fg]{title}\usebeamerfont{title}\inserttitle\egroup\par
2969     \usebeamercolor[fg]{subtitle}\usebeamerfont{subtitle}\insertsubtitle
2970   \end{block}
2971   \vfill
2972   \ifx\insertauthor\@empty
2973   \else
2974     \begin{block}{\insertauthorindicator}
2975       \bgroup\usebeamercolor[fg]{author}\usebeamerfont{author}\insertauthor\egroup\par
2976     \end{block}
2977   \fi
2978   \ifx\insertinstitute\@empty
2979   \else
2980     \begin{block}{\insertinstituteindicator}
2981       \bgroup\usebeamercolor[fg]{institute}\usebeamerfont{institute}\insertinstitute\egroup\par
2982     \end{block}
2983   \fi
2984   \ifx\insertdate\@empty
2985   \else
2986     \begin{block}{\insertdateindicator}
2987       \bgroup\usebeamercolor[fg]{date}\usebeamerfont{date}\insertdate\egroup\par
2988     \end{block}
2989   \fi
2990 }
2991
2992 \defbeamertemplate*{block begin}{inmargin}
2993 {
2994   \par\vskip\medskipamount%
2995   \leavevmode%
2996   \beamer@putleft{\normalfont{\usebeamercolor[fg]{block title}\usebeamerfont*{block title}\i

```



```

2997 \beginL\beamer@putright
2998 %\usebeamercolor[fg]{block body}% to be done!
2999 }
3000
3001 \defbeamertemplate*{block end}{inmargin}
3002 {\endbeamer@putright\endL\vskip\smallskipamount}
3003
3004 \defbeamertemplate*{block alerted begin}{inmargin}
3005 {
3006 \par\vskip\medskipamount%
3007 \leavevmode%
3008 \beamer@putleft{\normalfont{\usebeamercolor[fg]{block title alerted}}\usebeamerfont*{block
3009 \beginL\beamer@putright
3010 %\usebeamercolor[fg]{block body alerted}% to be done!
3011 }
3012
3013 \defbeamertemplate*{block alerted end}{inmargin}
3014 {\endbeamer@putright\endL\vskip\smallskipamount}
3015
3016 \defbeamertemplate*{block example begin}{inmargin}
3017 {
3018 \par\vskip\medskipamount%
3019 \leavevmode%
3020 \beamer@putleft{\normalfont{\usebeamercolor[fg]{block title example}}\usebeamerfont*{block
3021 \beginL\beamer@putright
3022 %\usebeamercolor[fg]{block body example}% to be done
3023 }
3024
3025 \defbeamertemplate*{block example end}{inmargin}
3026 {\endbeamer@putright\endL\vskip\smallskipamount}
3027
3028 \bidi@AfterFile{beamerinnerthememetropolis-xetex-bidi.def}{%
3029 \setbeamertemplate{section in toc}[inmargin]%
3030 \setbeamertemplate{subsection in toc}[inmargin]%
3031 \setbeamertemplate{subsubsection in toc}[inmargin]%
3032 }
3033
3034

```

## 29 File beamerinnerthememetropolis-xetex-bidi.def

```

3035 \ProvidesFile{beamerinnerthememetropolis-xetex-bidi.def}[2022/06/13 v0.1 bidi adaptations fo
3036 \setbeamertemplate{title}{
3037 \bidi@beamer@ragged%
3038 \linespread{1.0}%
3039 \inserttitle%
3040 \par%
3041 \vspace*{0.5em}
3042 }
3043
3044 \setbeamertemplate{subtitle}{
3045 \bidi@beamer@ragged%
3046 \insertsubtitle%
3047 \par%

```



```

3048 \vspace*{0.5em}
3049 }
3050
3051 \bidi@csundef{beamer@@tmpop@section page@progressbar}
3052
3053 \defbeamertemplate{section page}{progressbar}{
3054 \centering
3055 \begin{minipage}{22em}
3056 \bidi@beamer@ragged
3057 \usebeamercolor{fg}{section title}
3058 \usebeamerfont{section title}
3059 \insertsectionhead\[-1ex]
3060 \usebeamertemplate*{progress bar in section page}
3061 \par
3062 \ifx\insertsubsectionhead\@empty\else%
3063 \usebeamercolor{fg}{subsection title}%
3064 \usebeamerfont{subsection title}%
3065 \insertsubsectionhead
3066 \fi
3067 \end{minipage}
3068 \par
3069 \vspace{\baselineskip}
3070 }
3071
3072 \setbeamertemplate{progress bar in section page}{
3073 \setlength{\metropolis@progressonsectionpage}{%
3074 \textwidth * \ratio{\insertframenum pt}{\inserttotalframenum pt}}%
3075 }%
3076 \begin{tikzpicture}
3077 \fill[bg] (0,0) rectangle (\textwidth, \metropolis@progressonsectionpage@linewidth);
3078 \if@RTLmain
3079 \fill[fg] (\textwidth-\metropolis@progressonsectionpage,0) rectangle (\textwidth, \metropolis@progressonsectionpage@linewidth);
3080 \else
3081 \fill[fg] (0,0) rectangle (\metropolis@progressonsectionpage, \metropolis@progressonsectionpage@linewidth);
3082 \fi
3083 \end{tikzpicture}%
3084 }
3085
3086 \renewcommand{\metropolis@block}[1]{
3087 \par\vskip\medskipamount%
3088 \setlength{\parskip}{0pt}
3089 \ifbeamercoloreempty[bg]{block title#1}{%
3090 \if@RTL
3091 \begin{beamercolorbox}[leftskip=0pt plus 4em]{block title#1}%
3092 \else
3093 \begin{beamercolorbox}[rightskip=0pt plus 4em]{block title#1}%
3094 \fi
3095 }{%
3096 \ifbeamercoloreempty[bg]{block title}{%
3097 \if@RTL
3098 \begin{beamercolorbox}[leftskip=0pt plus 4em]{block title#1}%
3099 \else
3100 \begin{beamercolorbox}[rightskip=0pt plus 4em]{block title#1}%
3101 \fi

```



```

3102 }%
3103 {%
3104 \if@RTL
3105 \begin{beamercolorbox}[
3106 sep=\dimexpr\metropolis@blocksep-\metropolis@blockadjust\relax,
3107 rightskip=\metropolis@blockadjust,
3108 leftskip=\dimexpr\metropolis@blockadjust plus 4em\relax
3109 ]{block title#1}%
3110 \else
3111 \begin{beamercolorbox}[
3112 sep=\dimexpr\metropolis@blocksep-\metropolis@blockadjust\relax,
3113 leftskip=\metropolis@blockadjust,
3114 rightskip=\dimexpr\metropolis@blockadjust plus 4em\relax
3115 ]{block title#1}%
3116 \fi
3117 }}%
3118 \usebeamerfont*{block title#1}%
3119 \metropolis@strut%
3120 \insertblocktitle%
3121 \metropolis@strut%
3122 \end{beamercolorbox}%
3123 \nointerlineskip%
3124 \ifbeamercoloreempty[bg]{block body#1}{%
3125 \begin{beamercolorbox}[vmode]{block body#1}}{
3126 \ifbeamercoloreempty[bg]{block body}{%
3127 \begin{beamercolorbox}[vmode]{block body#1}%
3128 }{%
3129 \begin{beamercolorbox}[sep=\metropolis@blocksep, vmode]{block body#1}%
3130 \vspace{-\metropolis@parskip}
3131 }}%
3132 \usebeamerfont{block body#1}%
3133 \setlength{\parskip}{\metropolis@parskip}%
3134 }
3135
3136
3137 \setbeamertemplate{footnote}{%
3138 \parindent 0em\noindent%
3139 \bidi@beamer@ragged
3140 \usebeamercolor{footnote}\hbox to 0.8em{\hfil\insertfootnotemark}\insertfootnotetext\par%
3141 }
3142
3143 \setbeamertemplate{RTLfootnote}{%
3144 \parindent 0em\noindent%
3145 \raggedleft
3146 \usebeamercolor{footnote}\hbox to 0.8em{\hfil\insertfootnotemark}\insertfootnotetext\par%
3147 }
3148
3149 \setbeamertemplate{LTRfootnote}{%
3150 \parindent 0em\noindent%
3151 \raggedright
3152 \usebeamercolor{footnote}\hbox to 0.8em{\hfil\insertfootnotemark}\insertfootnotetext\par%
3153 }
3154
3155 \setbeamertemplate{itemize items}{\textbullet}

```



```

3156
3157 \setbeamertemplate{section page}[progressbar]
3158
3159

```

### 30 File beamerinnerthemerectangles-xetex-bidi.def

```

3160 \ProvidesFile{beamerinnerthemerectangles-xetex-bidi.def}[2022/06/06 v0.1 bidi adaptations for b
3161 \setbeamertemplate{sections/subsections in toc}[square]
3162 \setbeamertemplate{items}[square]
3163

```

### 31 File beamerinnerthemerounded-xetex-bidi.def

```

3164 \ProvidesFile{beamerinnerthemerounded-xetex-bidi.def}[2022/06/01 v0.1 bidi adaptations for b
3165 \setbeamertemplate{blocks}[rounded] [shadow=\beamer@themerounded@shadow]
3166 \setbeamertemplate{items}[ball]
3167 \setbeamertemplate{sections/subsections in toc}[ball]
3168

```

### 32 File beamerouterthemedefault-xetex-bidi.def

```

3169 \ProvidesFile{beamerouterthemedefault-xetex-bidi.def}[2022/06/27 v0.2 bidi adaptations for b
3170 \def\beamer@fteleft{\if@RTLmain\vskip0.35cm\advance\leftskip by 1.7cm\advance\rightskip by1.
3171
3172 \def\beamer@fteright{\if@RTLmain\else\vskip0.35cm\advance\leftskip by 1.7cm\advance\rightski
3173
3174 \AtBeginDocument{%
3175   \if@RTLmain
3176     \setbeamertemplate{frametitle}[default] [right]
3177   \fi
3178 }
3179
3180 \bidi@csundef{beamer@@tmpop@note page@default}
3181
3182 \newcommand*{\bidi@beamer@today}{%
3183 \the\year-\ifnum\month<10\relax0\fi\the\month-\ifnum\day<10\relax0\fi\the\day}
3184
3185 \defbeamertemplate*{note page}{default}
3186 {%
3187   {%
3188     \scriptsize
3189     \usebeamerfont{note title}\usebeamercolor[fg]{note title}%
3190     \ifbeamercolorempy[bg]{note title}{\}%
3191     \insertvrule{.25\paperheight}{note title.bg}%
3192     \vskip-.25\paperheight%
3193     \nointerlineskip%
3194   }%
3195   \vbox{
3196     \hfill\insertslideintonotes{0.25}\hskip-\Gm@rmargin\hskip0pt%
3197     \vskip-0.25\paperheight%
3198     \nointerlineskip
3199     \if@RTL
3200     \begin{pgfpicture}{-\textwidth}{0cm}{-\textwidth}{0cm}

```



```

3201         \begin{pgflowlevelslope}{\pgftransformrotate{-90}}
3202         {\pgftransformshift{\pgfpoint{2cm}{0.2cm}}}%
3203         \pgftext[base,right]{\usebeamerfont{note date}\usebeamercolor[fg]{note date}\bidi@
3204         \end{pgflowlevelslope}
3205         \end{pgfpicture}%
3206         \else
3207         \begin{pgfpicture}{0cm}{0cm}{0cm}{0cm}
3208         \begin{pgflowlevelslope}{\pgftransformrotate{90}}
3209         {\pgftransformshift{\pgfpoint{-2cm}{0.2cm}}}%
3210         \pgftext[base,left]{\usebeamerfont{note date}\usebeamercolor[fg]{note date}\bidi@
3211         \end{pgflowlevelslope}
3212         \end{pgfpicture}%
3213         \fi}
3214         \nointerlineskip
3215         \vbox to .25\paperheight{\vskip0.5em
3216         \if@RTL
3217         \moveright0.25\textwidth
3218         \fi
3219         \hbox{\insertshorttitle[width=0.75\textwidth]}}%
3220         \setbox\beamer@tempbox=\hbox{\insertsection}%
3221
3222         \if@RTL
3223         \moveright\dimexpr0.29\textwidth-14pt\relax
3224         \fi
3225         \hbox{\if@RTL\beginR\fi\ifdim\wd\beamer@tempbox>1pt{\hskip4pt\raise3pt\hbox{\vrule
3226         width0.4pt height7pt\vrule width 9pt
3227         height0.4pt}}\hskip1pt\hbox{\begin{minipage}[t]{0.71\textwidth}\def\breakhere{}}
3228         \if@RTL\endR\fi}%
3229         \setbox\beamer@tempbox=\hbox{\insertsubsection}%
3230
3231         \if@RTL
3232         \moveright\dimexpr0.29\textwidth-27.4pt\relax
3233         \fi
3234         \hbox{\if@RTL\beginR\fi\ifdim\wd\beamer@tempbox>1pt{\hskip17.4pt\raise3pt\hbox{\vrule
3235         width0.4pt height7pt\vrule width 9pt
3236         height0.4pt}}\hskip1pt\hbox{\begin{minipage}[t]{0.71\textwidth}\def\breakhere{}}
3237         \if@RTL\endR\fi}%
3238         \setbox\beamer@tempbox=\hbox{\insertshortframetitle}%
3239
3240         \if@RTL
3241         \moveright\dimexpr0.33\textwidth-40.8pt\relax
3242         \fi
3243         \hbox{\if@RTL\beginR\fi\ifdim\wd\beamer@tempbox>1pt{\hskip30.8pt\raise3pt\hbox{\vrule
3244         width0.4pt height7pt\vrule width 9pt
3245         height0.4pt}}\hskip1pt\hbox{\insertshortframetitle[width=0.67\textwidth]}\fi%
3246         \vfil}%
3247         }%
3248         \ifbeamercolorempty[bg]{note page}{-}{%
3249         \nointerlineskip%
3250         \insertvrule{.75\paperheight}{note page.bg}%
3251         \vskip-.75\paperheight%
3252         }%
3253         \vskip.25em
3254         \nointerlineskip
3255         \insertnote

```



```

3255 }
3256
3257
3258

```

### 33 File beamerouterthemefocus-xetex-bidi.def

```

3259 \ProvidesFile{beamerouterthemefocus-xetex-bidi.def}[2022/06/13 v0.1 bidi adaptations for bea
3260 \bidi@undef\beamer@tmpop@footline@progressbar
3261
3262 \defbeamertemplate*{footline}{progressbar}{%
3263   % If not appendix.
3264   \ifnum\mainend<0% From package appendixnumberbeamer.
3265     %
3266     \settowidth{\focus@pbar@leftoffset}{1}%
3267     \addtolength{\focus@pbar@leftoffset}{1.5em}%
3268     %
3269     \ifx\beamer@focus@totalframenumbering\no%
3270       \settowidth{\focus@pbar@rightoffset}{}%
3271       \addtolength{\focus@pbar@rightoffset}{0.5em}%
3272     \else%
3273       \settowidth{\focus@pbar@rightoffset}{\inserttotalframenumber}%
3274       \addtolength{\focus@pbar@rightoffset}{1.5em}%
3275     \fi%
3276     %
3277     % If not title page.
3278     \ifnum\value{realframenumber}>0%
3279       \ifnum\value{framenumber}<\inserttotalframenumber%
3280         \begin{tikzpicture}[inner xsep=0.5em, inner ysep=0.5ex]\usebeamerfont{footli
3281           \pgfmathsetmacro{\focus@pbar@progress}%
3282             {(\paperwidth-\focus@pbar@leftoffset-\focus@pbar@rightoffset)*(\inse
3283
3284           \clip (0,0) rectangle ++(\paperwidth,\the\focus@pbar@height);
3285 \if@RTLmain
3286           \fill[footline.bg] (\paperwidth,0) rectangle ++(-\the\focus@pbar@leftoff
3287           \fill[footline.bg] (\paperwidth-\the\focus@pbar@leftoffset,0) rectangle
3288             ++(0,{-0.5*\the\focus@pbar@height}) node[anchor=west,
3289 \else
3290           \fill[footline.bg] (0,0) rectangle ++(\the\focus@pbar@leftoffset,\the\fo
3291           \fill[footline.bg] (\the\focus@pbar@leftoffset,0) rectangle ++(\focus@pb
3292             ++(0,{-0.5*\the\focus@pbar@height}) node[anchor=east,
3293 \fi
3294           \ifx\beamer@focus@totalframenumbering\no%
3295           \else%
3296 \if@RTLmain
3297           \fill[footline.bg] (0,0) rectangle ++(\the\focus@pbar@rightoffset,\t
3298             ++(0,{-0.5*\the\focus@pbar@height}) node[anchor=e
3299 \else
3300           \fill[footline.bg] (\paperwidth,0) rectangle ++(-\the\focus@pbar@rig
3301             ++(0,{-0.5*\the\focus@pbar@height}) node[anchor=w
3302 \fi
3303           \fi%
3304           \end{tikzpicture}%
3305 \else%

```



```

3306          \begin{tikzpicture}[inner xsep=0.5em, inner ysep=0.5ex]
3307              \clip (0,0) rectangle ++(\paperwidth,\the\focus@pbar@height);
3308              \fill[footline.bg] (0,0) rectangle ++(\paperwidth,\the\focus@pbar@height);
3309          \if@RTLmain
3310              \node[anchor=west, footline.fg] at ({\the\focus@pbar@rightoffset},{0.5*\the\focus@pbar@height}){\footline.fg};
3311          \else
3312              \node[anchor=east, footline.fg] at ({\paperwidth-\the\focus@pbar@rightoffset},{0.5*\the\focus@pbar@height}){\footline.fg};
3313          \fi
3314          \ifx\beamer@focus@totalframenummering\no%
3315              \else%
3316          \if@RTLmain
3317              \node[footline.fg] at ({\the\focus@pbar@rightoffset},{0.5*\the\focus@pbar@height}){\footline.fg};
3318              \node[anchor=east, footline.fg] at ({\the\focus@pbar@rightoffset},{0.5*\the\focus@pbar@height}){\footline.fg};
3319          \else
3320              \node[footline.fg] at ({\paperwidth-\the\focus@pbar@rightoffset},{0.5*\the\focus@pbar@height}){\footline.fg};
3321              \node[anchor=west, footline.fg] at ({\paperwidth-\the\focus@pbar@rightoffset},{0.5*\the\focus@pbar@height}){\footline.fg};
3322          \fi
3323          \fi%
3324          \end{tikzpicture}%
3325          \fi%
3326          \fi%
3327          \fi%
3328      }
3329
3330

```

## 34 File beamerouterthemeinfoclines-xetex-bidi.def

```

3331 \ProvidesFile{beamerouterthemeinfoclines-xetex-bidi.def}[2022/06/09 v0.2 bidi adaptations for]
3332 \bidi@csundef{beamer@tmpop@footline@infoclines theme}
3333
3334 \defbeamerfont*{footline}{infoclines theme}
3335 {%
3336     \leavevmode%
3337     \hbox{%
3338         \begin{beamercolorbox}[wd=.333333\paperwidth,ht=2.25ex,dp=1ex,center]{author in head/foot}%
3339             \usebeamerfont{author in head/foot}\insertshortauthor\expandafter\ifblank\expandafter{\beamer@shortauthor}%
3340             \end{beamercolorbox}%
3341         \begin{beamercolorbox}[wd=.333333\paperwidth,ht=2.25ex,dp=1ex,center]{title in head/foot}%
3342             \usebeamerfont{title in head/foot}\insertshorttitle
3343             \end{beamercolorbox}%
3344         \begin{beamercolorbox}[wd=.333333\paperwidth,ht=2.25ex,dp=1ex,leftskip=2ex,rightskip=2ex,center]{date in head/foot}%
3345             \hfill%
3346             \usebeamerfont{date in head/foot}%
3347             \insertshortdate{}%
3348             \hfill%
3349             \bgroup
3350             \usebeamerfont[fg]{page number in head/foot}%
3351             \usebeamerfont{page number in head/foot}%
3352             \usebeamerfont{page number in head/foot}%
3353             \egroup
3354         \end{beamercolorbox}}%
3355     \vskip0pt%
3356 }

```



```

3357
3358 \bidi@csundef{beamer@tmpop@headline@infolines theme}
3359
3360 \defbeamertemplate*{headline}{infolines theme}
3361 {%
3362   \leavevmode%
3363   \hbox{%
3364     \if@RTL
3365       \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.65ex,dp=1.5ex,left]{section in head/foot}%
3366     \else
3367       \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.65ex,dp=1.5ex,right]{section in head/foot}%
3368     \fi
3369     \usebeamerfont{section in head/foot}\insertsectionhead\hspace*{2ex}
3370     \end{beamercolorbox}}%
3371   \if@RTL
3372     \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.65ex,dp=1.5ex,right]{subsection in head/foot}%
3373   \else
3374     \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.65ex,dp=1.5ex,left]{subsection in head/foot}%
3375   \fi
3376     \usebeamerfont{subsection in head/foot}\hspace*{2ex}\insertsubsectionhead
3377     \end{beamercolorbox}}%
3378   \vskip0pt%
3379 }
3380
3381 \bidi@AfterFile{beamerouterthememetropolis-xetex-bidi.def}{%
3382   \setbeamertemplate{footline}{infolines theme}%
3383 }
3384

```

## 35 File beamerouterthememetropolis-xetex-bidi.def

```

3385 \ProvidesFile{beamerouterthememetropolis-xetex-bidi.def}[2022/06/13 v0.1 bidi adaptations for]
3386 \setbeamertemplate{progress bar in head/foot}{
3387   \nointerlineskip
3388   \setlength{\metropolis@progressinheadfoot}{%
3389     \paperwidth * \ratio{\insertframenumber pt}{\inserttotalframenumber pt}}%
3390   }%
3391   \begin{beamercolorbox}[wd=\paperwidth]{progress bar in head/foot}
3392     \begin{tikzpicture}
3393       \fill[bg] (0,0) rectangle (\paperwidth, \metropolis@progressinheadfoot@linewidth);
3394     \if@RTLmain
3395       \fill[fg] (\paperwidth-\metropolis@progressinheadfoot,0) rectangle (\paperwidth, \metropolis@progressinheadfoot@linewidth);
3396     \else
3397       \fill[fg] (0,0) rectangle (\metropolis@progressinheadfoot, \metropolis@progressinheadfoot@linewidth);
3398     \fi
3399     \end{tikzpicture}%
3400   \end{beamercolorbox}
3401 }
3402
3403 \AtBeginDocument{%
3404   \setbeamertemplate{frametitle}[plain]%
3405 }
3406
3407

```



## 36 File beamerouterthememiniframes-xetex-bidi.def

```
3408 \ProvidesFile{beamerouterthememiniframes-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations for
3409 \bidi@csundef{beamer@tmpop@headline@miniframes theme}
3410
3411 \defbeamertemplate*{headline}{miniframes theme}
3412 {%
3413   \begin{beamercolorbox}[colsep=1.5pt]{upper separation line head}
3414   \end{beamercolorbox}
3415   \begin{beamercolorbox}{section in head/foot}
3416     \vskip2pt\if@RTL\beginR\fi\insertnavigation{\paperwidth}\if@RTL\endR\fi\vskip2pt
3417   \end{beamercolorbox}%
3418   \ifbeamer@theme@subsection%
3419     \begin{beamercolorbox}[colsep=1.5pt]{middle separation line head}
3420     \end{beamercolorbox}
3421     \if@RTL
3422     \begin{beamercolorbox}[ht=2.5ex,dp=1.125ex,%
3423       rightskip=.3cm,leftskip=.3cm plus1fil]{subsection in head/foot}
3424     \else
3425     \begin{beamercolorbox}[ht=2.5ex,dp=1.125ex,%
3426       leftskip=.3cm,rightskip=.3cm plus1fil]{subsection in head/foot}
3427     \fi
3428     \usebeamerfont{subsection in head/foot}\insertsubsectionhead
3429     \end{beamercolorbox}%
3430   \fi%
3431   \begin{beamercolorbox}[colsep=1.5pt]{lower separation line head}
3432   \end{beamercolorbox}
3433 }
3434
3435
```

## 37 File beamerouterthemesidebar-xetex-bidi.def

```
3436 \ProvidesFile{beamerouterthemesidebar-xetex-bidi.def}[2022/06/07 v0.2 bidi adaptations for b
3437 \bidi@csundef{beamer@tmpop@frametitle@sidebar theme}
3438
3439 \bidi@csundef{beamer@tmpop@headline@sidebar theme}
3440
3441 \bidi@csundef{beamer@tmpop@sidebar left@sidebar theme}
3442
3443 \bidi@csundef{beamer@tmpop@sidebar right@sidebar theme}
3444
3445 \ifdim\beamer@headheight>0pt
3446
3447   \defbeamertemplate*{frametitle}{sidebar theme}
3448   {%
3449     \nointerlineskip%
3450     \ifbeamer@plainframe%
3451       \hbox{\usebeamercolor[bg]{frametitle}%
3452         \@tempdima\paperwidth\advance\@tempdima-\beamer@sidebarwidth
3453         \hskip-\beamer@leftmargin\vrule height\beamer@headheight width\@tempdima\hskip-\bea
3454       \nointerlineskip%
3455     \fi%
3456     \vskip-\beamer@headheight%
```



```

3457 \vbox to \beamer@headheight{%
3458 \vfil
3459 \bidi@beamer@leftskip=-\beamer@leftmargin%
3460 \advance\bidi@beamer@leftskip by0.3cm%
3461 \bidi@beamer@rightskip=-\beamer@rightmargin%
3462 \advance\bidi@beamer@rightskip by0.3cm plus1fil%
3463 {\usebeamercolor[fg]{frametitle}\usebeamerfont{frametitle}\strut\insertframetitle\par}
3464 \ifx\insertframesubtitle\@empty\else%
3465 {\usebeamercolor[fg]{framesubtitle}\usebeamerfont{framesubtitle}\strut\insertframesubtitle\par}
3466 \fi%
3467 \vbox{}}%
3468 \vskip-1em%
3469 \vfil
3470 }%
3471 }
3472
3473 \AtBeginDocument{%
3474 \setbeamertemplate{frametitle}[sidebar theme]%
3475 }
3476
3477 \defbeamertemplate*{headline}{sidebar theme}
3478 {%
3479 \begin{beamercolorbox}[wd=\paperwidth]{frametitle}
3480 \ifx\beamer@sidebarside\beamer@lefttext%
3481 \else%
3482 \hfill%
3483 \fi%
3484 \ifdim\beamer@sidebarwidth>0pt%
3485 \bgroup
3486 \usebeamercolor[bg]{logo}%
3487 \if@RTLmain
3488 \else
3489 \vrule width\beamer@sidebarwidth height \beamer@headheight%
3490 \hskip-\beamer@sidebarwidth%
3491 \fi
3492 \hbox to \beamer@sidebarwidth{\hss\vbox to
3493 \beamer@headheight{\vss\hbox{{\color{fg}\insertlogo}}\vss}\hss}%
3494 \if@RTLmain
3495 \hskip-\beamer@sidebarwidth%
3496 \vrule width\beamer@sidebarwidth height \beamer@headheight%
3497 \fi
3498 \egroup
3499 \else%
3500 \vrule width0pt height \beamer@headheight%
3501 \fi%
3502 \end{beamercolorbox}
3503 }
3504 \fi
3505
3506 \def\beamer@sidebarformat#1#2#3{%
3507 \if@RTL
3508 \begin{beamercolorbox}[wd=\beamer@sidebarwidth,rightskip=#1,leftskip=1ex plus1fil,vmode]{#2}
3509 \else
3510 \begin{beamercolorbox}[wd=\beamer@sidebarwidth,leftskip=#1,rightskip=1ex plus1fil,vmode]{#2}

```



```

3511 \fi
3512   \vbox{}%
3513   #3\par%
3514   \vbox{}%
3515   \vskip-1.5ex%
3516 \end{beamercolorbox}
3517 }
3518
3519 \ifdim\beamer@sidebarwidth>0pt
3520
3521 \AtBeginDocument{%
3522   \setbeamersize{sidebar width \beamer@sidebarside=\beamer@sidebarwidth}%
3523 }
3524
3525 \defbeamer*{sidebar \beamer@sidebarside}{sidebar theme}
3526 {
3527   \beamer@tempdim=\beamer@sidebarwidth%
3528   \advance\beamer@tempdim by -6pt%
3529   {\usebeamerfont{title in sidebar}%
3530     \vskip1.5em%
3531     \hskip3pt%
3532     \bgroup
3533     \usebeamercolor[fg]{title in sidebar}%
3534     \insertshorttitle[width=\beamer@tempdim,center,respectlinebreaks]\egroup\par%
3535     \vskip1.25em%
3536   }%
3537   {%
3538     \hskip3pt%
3539     \bgroup
3540     \usebeamercolor[fg]{author in sidebar}%
3541     \usebeamerfont{author in sidebar}%
3542     \insertshortauthor[width=\beamer@tempdim,center,respectlinebreaks]\egroup\par%
3543     \vskip1.25em%
3544   }%
3545   \insertverticalnavigation{\beamer@sidebarwidth}%
3546   \vfill
3547   \ifx\beamer@sidebarside\beamer@lefttext%
3548   \else%
3549     \usebeamercolor{normal text}%
3550     \llap{\usebeamerfont{navigation symbols}\hskip0.1cm}%
3551     \vskip2pt%
3552   \fi%
3553 }%
3554 \fi
3555

```

### 38 File beamerouterthemesplit-xetex-bidi.def

```

3556 \ProvidesFile{beamerouterthemesplit-xetex-bidi.def}[2022/06/09 v0.2 bidi adaptations for bea
3557 \bidi\csundef{beamer@tmpop@footline@split theme}
3558
3559 \defbeamer*{footline}{split theme}
3560 {%
3561   \leavevmode%

```



```

3562 \hbox{\if@RTL\begin{beamercolorbox}[wd=.5\paperwidth,ht=2.5ex,dp=1.125ex,rightskip=.3cm pl
3563 \else
3564 \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.5ex,dp=1.125ex,leftskip=.3cm plus1fill,rightski
3565 \fi
3566 \usebeamerfont{author in head/foot}\insertshortauthor
3567 \end{beamercolorbox}}%
3568 \if@RTL
3569 \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.5ex,dp=1.125ex,rightskip=.3cm,leftskip=.3cm
3570 \else
3571 \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.5ex,dp=1.125ex,leftskip=.3cm,rightskip=.3cm p
3572 \fi
3573 \usebeamerfont{title in head/foot}\insertshorttitle\nobreak\hfill\bgroup\usebeamercolor[
3574 \end{beamercolorbox}}}%
3575 \vskip0pt%
3576 }
3577
3578

```

### 39 File beamerouterthemeshadow-xetex-bidi.def

```

3579 \ProvidesFile{beamerouterthemeshadow-xetex-bidi.def}[2022/06/11 v0.3 bidi adaptations for be
3580 \pgfdeclarehorizontalshading[frametitle.bg,frametitle right.bg]{bidi@beamer@RTL@frametitlesh
3581 color(0pt)=(frametitle right.bg);
3582 color(\paperwidth)=(frametitle.bg)
3583 }
3584
3585 \newcommand*{\bidi@beamer@frametitleshade}{%
3586 \if@RTLmain
3587 \pgfuses shading{bidi@beamer@RTL@frametitleshade}%
3588 \else
3589 \pgfuses shading{beamer@frametitleshade}%
3590 \fi
3591 }
3592
3593 \bidi@csundef{beamer@@tmpop@frametitle@shadow theme}
3594
3595 \defbeamertemplate*{frametitle}{shadow theme}
3596 {%
3597 \nointerlineskip%
3598 \vskip-2pt%
3599 \hbox{\leavevmode
3600 \advance\beamer@leftmargin by -12bp%
3601 \advance\beamer@rightmargin by -12bp%
3602 \beamer@tempdim=\textwidth%
3603 \advance\beamer@tempdim by \beamer@leftmargin%
3604 \advance\beamer@tempdim by \beamer@rightmargin%
3605 \hskip-\Gm@lmargin\hbox{%
3606 \setbox\beamer@tempbox=\hbox{\begin{minipage}[b]{\paperwidth}%
3607 \vbox{}\vskip-.75ex%
3608 \bidi@beamer@leftskip0.3cm%
3609 \bidi@beamer@rightskip0.3cm plus1fil\leavevmode
3610 \bgroup\usebeamercolor[fg]{frametitle}\usebeamerfont{frametitle}\strut\insertframe
3611 \ifx\insertframesubtitle\@empty\else%
3612 {\usebeamerfont*{framesubtitle}\usebeamercolor[fg]{framesubtitle}\insertframesub

```



```

3613         \fi%
3614         \nointerlineskip
3615         \vbox{}%
3616         \end{minipage}}%
3617     \beamer@tempdim=\ht\beamer@tempbox%
3618     \advance\beamer@tempdim by 2pt%
3619     \begin{pgfpicture}{0pt}{0pt}{\paperwidth}{\beamer@tempdim}
3620     \begin{pgfscope}
3621         \pgfsetfillcolor{black}%
3622         \pgfpathrectangle{\pgfpoint{0pt}{-4pt}}{\pgfpoint{\paperwidth}{8pt}}%
3623         \pgfsetfading{beamer@topshadowmask}{}%
3624         \pgfusepath{fill}%
3625     \end{pgfscope}
3626     \begin{pgfscope}
3627         \usebeamercolor{frametitle right}%
3628         \pgfpathrectangle{\pgfpointorigin}{\pgfpoint{\paperwidth}{\beamer@tempdim}}%
3629         \pgfusepath{clip}%
3630         \pgftext[left,base]{\bidi@beamer@frametitleshade}%
3631     \end{pgfscope}
3632     \end{pgfpicture}
3633     \hskip-\paperwidth%
3634     \box\beamer@tempbox%
3635 }%
3636 \hskip-\Gm@rmargin%
3637 }%
3638 \vskip-2pt
3639 }
3640
3641 \AtBeginDocument{%
3642   \setbeamertemplate{frametitle}[shadow theme]%
3643 }
3644
3645

```

## 40 File beamerouterthemesmoothbars-xetex-bidi.def

```

3646 \ProvidesFile{beamerouterthemesmoothbars-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations for]
3647 \bidi@csundef{beamer@tmpop@headline@smoothbars theme}
3648
3649 \bidi@csundef{beamer@tmpop@frametitle@smoothbars theme}
3650
3651 \defbeamertemplate*{headline}{smoothbars theme}
3652 {%
3653   \pgfuses shading{beamer@barshade}%
3654   \vskip-0.05ex%
3655   \begin{beamer colorbox}[wd=\paperwidth,ht=1ex,dp=0ex]{empty}
3656   \begin{pgfpicture}
3657     \begin{pgfscope}%
3658       \ifbeamer@sb@subsection%
3659         \pgfsetfillcolor{subsection in head/foot.bg}%
3660       \else%
3661         \pgfsetfillcolor{section in head/foot.bg}%
3662       \fi%
3663       \pgfpathrectangle{\pgfpoint{-0.5\paperwidth}{-0.5ex}}{\pgfpoint{\paperwidth}{1ex}}%

```



```

3664     \pgfsetfading{beamer@belowframetitlemask}{}%
3665     \pgfusepath{fill}%
3666     \end{pgfscope}%
3667 \end{pgfpicture}%
3668 \end{beamercolorbox}%
3669 \ifbeamer@sb@subsection%
3670     \vskip-9.75ex%
3671 \else%
3672     \vskip-6.85ex%
3673 \fi%
3674 \begin{beamercolorbox}[ignorebg,ht=2.25ex,dp=3.75ex]{section in head/foot}
3675     \insertnavigation{\paperwidth}
3676 \end{beamercolorbox}%
3677 \ifbeamer@sb@subsection%
3678 \if@RTL
3679     \begin{beamercolorbox}[ignorebg,ht=2.125ex,dp=1.125ex,%
3680         rightskip=.3cm,leftskip=.3cm plus1fil]{subsection in head/foot}
3681     \else
3682     \begin{beamercolorbox}[ignorebg,ht=2.125ex,dp=1.125ex,%
3683         leftskip=.3cm,rightskip=.3cm plus1fil]{subsection in head/foot}
3684     \fi
3685     \usebeamerfont{subsection in head/foot}\insertsubsectionhead
3686 \end{beamercolorbox}%
3687 \fi%
3688 }%
3689
3690 \defbeamertheme*{frametitle}{smoothbars theme}
3691 {%
3692     \nointerlineskip%
3693     \vskip-0.19ex%
3694     \usebeamerfont{headline}%
3695     \begin{beamercolorbox}[wd=\paperwidth,ht=1ex,dp=1ex,vmode]{empty}
3696         \pgfuses shading{beamer@aboveframetitle}%
3697     \end{beamercolorbox}%
3698     \vskip-1ex%
3699     \nointerlineskip%
3700     \if@RTL
3701     \begin{beamercolorbox}[wd=\paperwidth,rightskip=.3cm,leftskip=.3cm plus1fil,vmode]{frameti
3702     \else
3703     \begin{beamercolorbox}[wd=\paperwidth,leftskip=.3cm,rightskip=.3cm plus1fil,vmode]{frameti
3704     \fi
3705         \vskip0.5ex%
3706         \usebeamerfont*{frametitle}\strut\insertframetitle%
3707         \ifx\insertframesubtitle\@empty%
3708             \strut\par%
3709         \else
3710             \par{\usebeamerfont*{framesubtitle}{\usebeamercolor[fg]{framesubtitle}\strut\insertf
3711             \fi%
3712             \usebeamerfont{headline}%
3713             \vskip0.05ex%
3714     \end{beamercolorbox}%
3715     \nointerlineskip%
3716     \vskip-0.05ex%
3717     \begin{beamercolorbox}[wd=\paperwidth,ht=1ex,dp=0ex]{empty}

```



```

3718 \begin{pgfpicture}
3719   \begin{pgfscope}%
3720     \pgfsetfillcolor{frametitle.bg}%
3721     \pgfpathrectangle{\pgfpoint{-.5\paperwidth}{-.5ex}}{\pgfpoint{\paperwidth}{1ex}}%
3722     \pgfsetfading{beamer@belowframetitlemask}{}%
3723     \pgfusepath{fill}%
3724   \end{pgfscope}%
3725 \end{pgfpicture}%
3726 \end{beamercolorbox}%
3727 }
3728
3729 \AtBeginDocument{%
3730   \setbeamertemplate{frametitle}[smoothbars theme]%
3731 }
3732
3733

```

## 41 File beamerouterthemesmoothtree-xetex-bidi.def

```

3734 \ProvidesFile{beamerouterthemesmoothtree-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations fo
3735 \bidi\csundef{beamer@tmpop@headline@smoothtree theme}
3736
3737 \bidi\csundef{beamer@tmpop@frametitle@smoothtree theme}
3738
3739 \defbeamertemplate*{headline}{smoothtree theme}
3740 {%
3741   \pgfuses shading{beamer@treeshade}%
3742   \vskip-0.05ex%
3743   \begin{beamercolorbox}[wd=\paperwidth,ht=1ex,dp=0ex]{empty}
3744     \begin{pgfpicture}
3745       \begin{pgfscope}%
3746         \pgfsetfillcolor{subsection in head/foot.bg}%
3747         \pgfpathrectangle{\pgfpoint{-.5\paperwidth}{-.5ex}}{\pgfpoint{\paperwidth}{1ex}}%
3748         \pgfsetfading{beamer@belowframetitlemask}{}%
3749         \pgfusepath{fill}%
3750       \end{pgfscope}%
3751     \end{pgfpicture}%
3752   \end{beamercolorbox}%
3753   \vskip-9.15ex%
3754   \if@RTL
3755     \begin{beamercolorbox}[wd=\paperwidth,ht=1.125ex,dp=1.125ex,ignorebg,%
3756       rightskip=.3cm,leftskip=.3cm plus1fil]{title in head/foot}
3757   \else
3758     \begin{beamercolorbox}[wd=\paperwidth,ht=1.125ex,dp=1.125ex,ignorebg,%
3759       leftskip=.3cm,rightskip=.3cm plus1fil]{title in head/foot}
3760     \fi
3761     \usebeamerfont{title in head/foot}\insertshorttitle
3762   \end{beamercolorbox}
3763   \if@RTL
3764     \begin{beamercolorbox}[wd=\paperwidth,ht=2.125ex,dp=1.125ex,ignorebg,%
3765       rightskip=.3cm,leftskip=.3cm plus1fil]{section in head/foot}
3766   \else
3767     \begin{beamercolorbox}[wd=\paperwidth,ht=2.125ex,dp=1.125ex,ignorebg,%
3768       leftskip=.3cm,rightskip=.3cm plus1fil]{section in head/foot}

```



```

3769 \fi
3770 \usebeamerfont{section in head/footer}%
3771 \hskip6pt\insertsectionhead
3772 \end{beamercolorbox}
3773 \if@RTL
3774 \begin{beamercolorbox}[wd=\paperwidth,ht=2.125ex,dp=1.125ex,ignorebg,%
3775 rightskip=.3cm,leftskip=.3cm plus1fil]{subsection in head/footer}
3776 \else
3777 \begin{beamercolorbox}[wd=\paperwidth,ht=2.125ex,dp=1.125ex,ignorebg,%
3778 leftskip=.3cm,rightskip=.3cm plus1fil]{subsection in head/footer}
3779 \fi
3780 \usebeamerfont{subsection in head/footer}%
3781 \hskip12pt\insertsubsectionhead
3782 \end{beamercolorbox}
3783 \vskip-0.4ex%
3784 }
3785
3786 \defbeamertemplate*{frametitle}{smoothtree theme}
3787 {%
3788 \nointerlineskip%
3789 \vskip-0.05ex%
3790 \usebeamerfont{headline}%
3791 \begin{beamercolorbox}[wd=\paperwidth,ht=0.85ex,dp=0ex]{empty}
3792 \pgfuses shading{beamer@aboveframetitle}%
3793 \end{beamercolorbox}
3794 \nointerlineskip%
3795 \if@RTL
3796 \begin{beamercolorbox}[wd=\paperwidth,rightskip=.935cm,leftskip=.3cm plus1fil]{frametitle}
3797 \else
3798 \begin{beamercolorbox}[wd=\paperwidth,leftskip=.935cm,rightskip=.3cm plus1fil]{frametitle}
3799 \fi
3800 \vskip-1.2ex%
3801 \usebeamerfont*{frametitle}\strut\insertframetitle%
3802 \ifx\insertframesubtitle\@empty%
3803 \strut\par%
3804 \else
3805 \par{\usebeamerfont*{framesubtitle}\usebeamercolor[fg]{framesubtitle}\strut\insertframesubtitle}
3806 \fi%
3807 \usebeamerfont{headline}%
3808 \end{beamercolorbox}%
3809 \nointerlineskip
3810 \vskip-0.2ex%
3811 \begin{beamercolorbox}[wd=\paperwidth,ht=1ex,dp=0ex]{empty}
3812 \begin{pgfpicture}
3813 \begin{pgfscope}%
3814 \pgfsetfillcolor{frametitle.bg}%
3815 \pgfpathrectangle{\pgfpoint{-.5\paperwidth}{-0.5ex}}{\pgfpoint{\paperwidth}{1ex}}%
3816 \pgfsetfading{beamer@belowframetitlemask}{}%
3817 \pgfusepath{fill}%
3818 \end{pgfscope}%
3819 \end{pgfpicture}%
3820 \end{beamercolorbox}%
3821 }
3822

```



```

3823
3824 \AtBeginDocument{%
3825   \setbeamertheme{frametitle}[smoothtree theme]%
3826 }
3827
3828

```

## 42 File beamerouterthemetree-xetex-bidi.def

```

3829 \ProvidesFile{beamerouterthemetree-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations for beam
3830 \bidi@csundef{beamer@tmpop@headline@tree theme}
3831
3832 \defbeamertheme*{headline}{tree theme}
3833 {%
3834   \begin{beamercolorbox}[wd=\paperwidth,colsep=1.5pt]{upper separation line head}
3835   \end{beamercolorbox}
3836   \if@RTL
3837     \begin{beamercolorbox}[wd=\paperwidth,ht=2.5ex,dp=1.125ex,%
3838       rightskip=.3cm,leftskip=.3cm plus1fil]{title in head/foot}
3839     \else
3840     \begin{beamercolorbox}[wd=\paperwidth,ht=2.5ex,dp=1.125ex,%
3841       leftskip=.3cm,rightskip=.3cm plus1fil]{title in head/foot}
3842     \fi
3843     \usebeamerfont{title in head/foot}\insertshorttitle
3844   \end{beamercolorbox}
3845   \if@RTL
3846     \begin{beamercolorbox}[wd=\paperwidth,ht=2.5ex,dp=1.125ex,%
3847       rightskip=.3cm,leftskip=.3cm plus1fil]{section in head/foot}
3848     \else
3849     \begin{beamercolorbox}[wd=\paperwidth,ht=2.5ex,dp=1.125ex,%
3850       leftskip=.3cm,rightskip=.3cm plus1fil]{section in head/foot}
3851     \fi
3852     \usebeamerfont{section in head/foot}%
3853     \ifbeamer@tree@showhooks
3854       \setbox\beamer@tempbox=\hbox{\insertsectionhead}%
3855       \ifdim\wd\beamer@tempbox>1pt%
3856         \hskip2pt\raise1.9pt\hbox{\vrule width0.4pt height1.875ex\vrule width 5pt height0.
3857         \hskip1pt%
3858       \fi%
3859     \else%
3860       \hskip6pt%
3861     \fi%
3862     \insertsectionhead
3863   \end{beamercolorbox}
3864   \if@RTL
3865     \begin{beamercolorbox}[wd=\paperwidth,ht=2.5ex,dp=1.125ex,%
3866       rightskip=.3cm,leftskip=.3cm plus1fil]{subsection in head/foot}
3867     \else
3868     \begin{beamercolorbox}[wd=\paperwidth,ht=2.5ex,dp=1.125ex,%
3869       leftskip=.3cm,rightskip=.3cm plus1fil]{subsection in head/foot}
3870     \fi
3871     \usebeamerfont{subsection in head/foot}%
3872     \ifbeamer@tree@showhooks
3873       \setbox\beamer@tempbox=\hbox{\insertsubsectionhead}%

```



```

3874         \ifdim\wd\beamer@tempbox>1pt%
3875         \hskip9.4pt\raise1.9pt\hbox{\vrule width0.4pt height1.875ex\vrule width 5pt height
3876         \hskip1pt%
3877         \fi%
3878     \else%
3879         \hskip12pt%
3880         \fi%
3881         \insertsubsectionhead
3882     \end{beamercolorbox}
3883     \begin{beamercolorbox}[wd=\paperwidth,colsep=1.5pt]{lower separation line head}
3884     \end{beamercolorbox}
3885 }
3886
3887

```

### 43 File beamerthemeHannover-xetex-bidi.def

```

3888 \ProvidesFile{beamerthemeHannover-xetex-bidi.def}[2022/06/07 v0.1 bidi adaptations for beamer]
3889 \AtBeginDocument{%
3890     \if@RTLmain
3891         \setbeamertemplate{frametitle}[default][left]%
3892     \else
3893         \setbeamertemplate{frametitle}[default][right]%
3894     \fi
3895 }
3896
3897

```

### 44 File beamerthemeSingapore-xetex-bidi.def

```

3898 \ProvidesFile{beamerthemeSingapore-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations for beamer]
3899 \addtoheadtemplate{\pgfuses shading{beamer@headfade}\vskip-1.25cm}{ }
3900
3901 \beamertemplatedotitem
3902
3903 \AtBeginDocument{%
3904     \setbeamertemplate{frametitle}[default][center]%
3905 }
3906
3907

```

### 45 File bidi.sty

```

3908 \NeedsTeXFormat{LaTeX2e}
3909 \def\bididate{2022/07/07}
3910 \def\bidi@version{38.8}
3911 \ProvidesPackage{bidi}[\bididate\space v\bidi@version\space
3912 Bidirectional typesetting in plain TeX and LaTeX]
3913 \edef\@bidi@info{*****~J%
3914 * ~J%
3915 * bidi package (Bidirectional typesetting in~J%
3916 * plain TeX and LaTeX, using XeTeX engine)~J%
3917 * ~J%
3918 * Description: A convenient interface for~J%

```



```

3919 * typesetting bidirectional texts in plain TeX^^J%
3920 * and LaTeX. The package includes adaptations^^J%
3921 * for use with many other commonly-used packages.^^J%
3922 * ^^J%
3923 * Copyright (c) 2007--2022 Vafa Khalighi^^J%
3924 * Copyright (c) 2018--2020 bidi-tex GitHub organization^^J%
3925 * ^^J%
3926 * v\bidi@version, \bididate^^J%
3927 * ^^J%
3928 * License: LaTeX Project Public License, version^^J%
3929 * 1.3c or higher (your choice)^^J%
3930 * ^^J%
3931 * Location on CTAN: /macros/xetex/latex/bidi^^J%
3932 * ^^J%
3933 * Issue tracker: https://github.com/kvafa/bidi/issues^^J%
3934 * ^^J%
3935 * Discussions: https://github.com/kvafa/bidi/discussions^^J%
3936 * ^^J%
3937 * Primary author of bidi package: Vafa Khalighi.^^J%
3938 * ^^J%
3939 *****}
3940 \typeout{\@bidi@info}
3941 \edef\bidi@everyjob{\the\everyjob}
3942 \everyjob{\bidi@everyjob\typeout{\@bidi@info}}
3943 \newcommand*{\bidi@version}{\ensuremath\bidi@version}
3944 \newcommand*{\IfbidiPackageVersionLater}[1]{%
3945   \ifdim\bidi@version pt > #1 pt %
3946     \expandafter\@firstoftwo
3947   \else
3948     \expandafter\@secondoftwo
3949   \fi}
3950 \newcommand*{\IfbidiPackageVersionBefore}[1]{%
3951   \ifdim\bidi@version pt < #1 pt %
3952     \expandafter\@firstoftwo
3953   \else
3954     \expandafter\@secondoftwo
3955   \fi}
3956 \newcommand*{\IfbidiPackageVersion}[1]{%
3957   \ifdim\bidi@version pt = #1 pt %
3958     \expandafter\@firstoftwo
3959   \else
3960     \expandafter\@secondoftwo
3961   \fi}
3962 \RequirePackage{iftex}
3963 \RequireXeTeX
3964 \RequirePackage{biditools}
3965 \RequirePackage{zref-abspage}
3966 \RequirePackage{auxhook}
3967 \RequirePackage{ltxcmds}
3968 \RequirePackage{xkeyval}
3969 \eqnewif{\if@RTLmain}{\if@rlmain}
3970 \eqnewif{\if@RTL}{\if@rl}
3971 \newif\if@nonlatin
3972 \newif\if@bidi@perpage@footnote

```



```

3973 \newcommand*{\setlatin}{\@nonlatinfalse}
3974 \newcommand*{\setnonlatin}{\@nonlatintrue}
3975 \eqnewif{\if@RTLtab}{\if@tab@rl}
3976 \newif\if@hboxRconstruct
3977 \newif\if@bidi@pdfencrypt
3978 \newcommand*{\setRTLtable}{\@RTLtabtrue}
3979 \newcommand*{\setLTRtable}{\@RTLtabfalse}
3980 \newif\if@bidi@pdfm@mark
3981 \newif\if@RTLmarginpar
3982 \newif\if@LTRmarginpar
3983 \newif\if@LTRbibitems
3984 \newif\if@RTLbibitems
3985 \newif\if@extrafootnotefeatures
3986 \eqnewif{\if@RTL@footnote}{\if@rl@footnote}
3987 \newif\if@bidi@list@minipage@parbox
3988 \newif\if@bidi@list@minipage@parbox@not@nob
3989 \newcommand*{\@bidi@pdfcreator}{%
3990   The bidi package, v\bidi@version, \bididate
3991 }
3992 \newcommand*{\@bidi@pdfproducer}{%
3993   The bidi package, v\bidi@version, \bididate
3994 }
3995 \newcommand*{\@bidi@pdfcustomproperties}{%
3996   This is the bidi package, Version \bidi@version,
3997   Released July 7, 2022.
3998 }
3999 \newcommand*{\bidi@beamer@ragged}{%
4000 \@RTLmainfalse
4001 \AtBeginDocument{%
4002   \if@RTLmain\else
4003     \if@RTL\@RTLmaintrue%
4004     \else\@RTLmainfalse%
4005     \fi%
4006   \fi%
4007 }
4008 \let\n@xt=\
4009 \bidi@newrobustcmd*{\LRE}{\protect\pLRE}%
4010 \def\pLRE{\protect\afterassignment\moreLRE \let\n@xt= }
4011 \bidi@newrobustcmd*{\RLE}{\protect\pRLE}
4012 \def\pRLE{\protect\afterassignment\moreRLE \let\n@xt= }
4013 \def\bracetext{\ifcat\n@xt{\else\ifcat\n@xt}\fi
4014   \errmessage{Missing left brace has been substituted}\fi \bgroup}
4015 \newinsert\@bidi@copyins@
4016 \skip\@bidi@copyins@=12\p@
4017 \dimen\@bidi@copyins@=40pc
4018 \count\@bidi@copyins@=1000
4019 \newcommand*{\@bidi@inslogo@}{\insert\@bidi@copyins@{\@bidi@logo@}}
4020 \newcommand*{\@bidi@logo@hb@xt@columnwidth}{%
4021   \if@RTLmain
4022     \if@twocolumn
4023       \hboxR to \columnwidth
4024     \else
4025       \hboxR to \textwidth
4026     \fi

```



```

4027 \else
4028   \if@twocolumn
4029     \hboxL to \columnwidth
4030   \else
4031     \hboxL to \textwidth
4032   \fi
4033 \fi
4034 }
4035 \newcommand*{\@bidi@logo}[1]{%
4036   \toks@{%
4037     \setbox\z@\hbox{%
4038       \special{%
4039         pdf:image width 50pt height 50pt (#1)%
4040       }
4041     }%
4042     \dp\z@\z@
4043     \ht\z@=50pt
4044     \wd\z@=50pt
4045     \beginL
4046     \lower20pt\box\z@
4047     \endL
4048   }%
4049   \the\toks@
4050 }
4051 \newcommand*{\@bidi@logo@}{%
4052   \@bidi@logo@hb@xt@columnwidth
4053   {\hss\LRE{\bfseries Typeset by the \textsf{bidi}
4054     package\quad\@bidi@logo{bidi-logo.pdf}}}}
4055 \define@key{bidi@pdfencrypt}{userpassword}[]{%
4056   \def\bidi@pdfencrypt@userpassword{#1}%
4057 }
4058 \define@key{bidi@pdfencrypt}{ownerpassword}[]{%
4059   \def\bidi@pdfencrypt@ownerpassword{#1}%
4060 }
4061 \define@key{bidi@pdfencrypt}{keylength}[128]{%
4062   \def\bidi@pdfencrypt@keylength{#1}%
4063 }
4064 \define@key{bidi@pdfencrypt}{permissionflags}[2052]{%
4065   \def\bidi@pdfencrypt@permissionflags{#1}%
4066 }
4067 \newcommand*{\pdfencryptsetup}{\setkeys{bidi@pdfencrypt}}
4068 \@onlypreamble\pdfencryptsetup
4069 \input{latex-xetex-bidi.def}
4070 \input{loadingorder-xetex-bidi.def}
4071 \define@choicekey{bidi.sty}{RTLdocument}[\bidi@tempa\bidi@tempb]{on,off}[on]{%
4072   \ifcase\bidi@tempb\relax
4073     \@RTLtrue
4074   \or
4075     \@RTLfalse
4076   \fi}
4077 \define@choicekey{bidi.sty}{documentdirection}[\bidi@tempa\bidi@tempb]{righttoleft,lefttoright}
4078 \ifcase\bidi@tempb\relax
4079   \@RTLtrue
4080 \or

```



```

4081 \RTLfalse
4082 \fi}
4083 \define@choicekey{bidi.sty}{tabledirection}[\bidi@tempa\bidi@tempb]{righttoleft,lefttoright}
4084 \ifcase\bidi@tempb\relax
4085 \RTLtabtrue
4086 \or
4087 \RTLtabfalse
4088 \fi}
4089 \define@choicekey{bidi.sty}{script}[\bidi@tempa\bidi@tempb]{latin,nonlatin}[latin]{%
4090 \ifcase\bidi@tempb\relax
4091 \@nonlatinfalse
4092 \or
4093 \@nonlatintrue
4094 \fi}
4095 \define@choicekey{bidi.sty}{rldocument}[\bidi@tempa\bidi@tempb]{on,off}[on]{%
4096 \ifcase\bidi@tempb\relax
4097 \RTLtrue
4098 \or
4099 \RTLfalse
4100 \fi}
4101 \define@choicekey{bidi.sty}{footnoterule}[\bidi@tempa\bidi@tempb]{automatic,left,right,split}
4102 \ifcase\bidi@tempb\relax
4103 \autofootnoterule
4104 \or
4105 \leftfootnoterule
4106 \or
4107 \rightfootnoterule
4108 \or
4109 \SplitFootnoteRule
4110 \or
4111 \textwidthfootnoterule
4112 \fi}
4113 \define@choicekey{bidi.sty}{footnotedirection}[\bidi@tempa\bidi@tempb]{righttoleft,lefttoright}
4114 \ifcase\bidi@tempb\relax
4115 \RTL@footnotetrue
4116 \or
4117 \RTL@footnotefalse
4118 \fi}
4119 \define@choicekey{bidi.sty}{debugfootnotedirection}[\bidi@tempa\bidi@tempb]{on,off}[on]{%
4120 \ifcase\bidi@tempb\relax
4121 \footdir@debugtrue
4122 \or
4123 \footdir@debugfalse
4124 \fi}
4125 \define@choicekey{bidi.sty}{extrafootnotefeatures}[\bidi@tempa\bidi@tempb]{on,off}[on]{%
4126 \ifcase\bidi@tempb\relax
4127 \@extrafootnotefeaturestrue
4128 \or
4129 \@extrafootnotefeaturesfalse
4130 \fi}
4131
4132 \define@choicekey{bidi.sty}{DetectColumn}[\bidi@tempa\bidi@tempb]{on,off}[on]{%
4133 \ifcase\bidi@tempb\relax
4134 \def\bidi@firstcolumn@status@write{%

```



```

4135         \protected@write\@auxout{%
4136             {\string\bidicolumn@status
4137             {1}}}%
4138 \def\bidilastcolumn@status@write{%
4139     \protected@write\@auxout{%
4140         {\string\bidicolumn@status{2}}}%
4141 \or
4142     \let\bidifirstcolumn@status@write\relax
4143     \let\bidilastcolumn@status@write\relax
4144 \fi}
4145
4146 \define@choicekey{bidi.sty}{logo}[\bidi@tempa\bidi@tempb]{on,off}[on]{%
4147     \ifcase\bidi@tempb\relax
4148         \AtBeginDocument{\@bidi@inslogo@}%
4149     \or
4150         \let\@bidi@logo@\@empty \let\@bidi@inslogo@\@empty
4151     \fi}
4152
4153 \define@choicekey{bidi.sty}{pdfinfo}[\bidi@tempa\bidi@tempb]{on,off}[on]{%
4154     \ifcase\bidi@tempb\relax
4155         \@bidi@pdfm@marktrue
4156     \or
4157         \@bidi@pdfm@markfalse
4158     \fi}
4159
4160 % The `perpagefootnote' option is documented in UK TeX FAQ at
4161 % <https://texfaq.org/FAQ-footnpp> (see last paragraph)
4162
4163 \define@choicekey{bidi.sty}{perpagefootnote}[\bidi@tempa\bidi@tempb]{on,off}[on]{%
4164     \ifcase\bidi@tempb\relax
4165         \@bidi@perpage@footnotetrue
4166     \or
4167         \@bidi@perpage@footnotefalse
4168     \fi}
4169
4170 \ExecuteOptionsX{%
4171     DetectColumn=off%
4172 }
4173
4174 \ProcessOptionsX
4175
4176 \pdfencryptsetup{%
4177     userpassword,%
4178     ownerpassword,%
4179     keylength,%
4180     permissionflags%
4181 }
4182
4183 \if@extrafootnotefeatures
4184     \input{extrafootnotefeatures-xetex-bidi.def}
4185 \fi
4186 \newcount\bidi@digits
4187 \XeTeXinterchartokenstate=\@ne
4188 \newXeTeXintercharclass\bidi@digits@charclass

```



```

4189 \newXeTeXintercharclass\bidisepmark@charclass
4190 \XeTeXcharclass `\. \bidisepmark@charclass
4191 \XeTeXcharclass `\- \bidisepmark@charclass
4192 \bidi@digits=`\0 \loop \XeTeXcharclass \bidi@digits \bidi@digits@charclass \ifnum\bidi@digit
4193 \bidi@digits=`\ \loop \XeTeXcharclass \bidi@digits \bidi@digits@charclass \ifnum\bidi@digit
4194 \bidi@digits=`\ \loop \XeTeXcharclass \bidi@digits \bidi@digits@charclass \ifnum\bidi@digit
4195 \XeTeXinterchartoks \bidisepmark@charclass \bidi@digits@charclass = {\DigitsDotDashInterCh
4196 \newcommand*{\DigitsDotDashInterCharToks}{\if@nonlatin\char"200F \fi}
4197 \bidi@AtEndPreamble{%
4198   \if@bidi@perpage@footnote
4199     \RequirePackage{bidi-perpage}%
4200     \ResetCounterPerPage{footnote}%
4201   \fi
4202   \ifx\bidi@pdfencrypt@ownerpassword\bidi@empty
4203     \ifx\bidi@pdfencrypt@userpassword\bidi@empty
4204       \@bidi@pdfencryptfalse
4205     \else
4206       \@bidi@pdfencrypttrue
4207     \fi
4208   \else
4209     \@bidi@pdfencrypttrue
4210   \fi
4211   \if@bidi@pdfencrypt
4212     \special{pdf:encrypt
4213       userpw (\bidi@pdfencrypt@userpassword)
4214       ownerpw (\bidi@pdfencrypt@ownerpassword)
4215       length \bidi@pdfencrypt@keylength
4216       perm \bidi@pdfencrypt@permissionflags
4217     }%
4218   \fi
4219 }
4220 \AtEndDocument{%
4221   \special{pdf:%
4222     docinfo<<%
4223       \if@bidi@pdfm@mark
4224         /Creator(\@bidi@pdfcreator)%
4225         /Producer(\@bidi@pdfproducer)%
4226       \fi
4227       /BIDI.Fullbanner(\@bidi@pdfcustomproperties)%
4228       \if@bidi@csdef{@xepersian@pdfcustomproperties}{%
4229         /XEPERSIAN.Fullbanner(\@xepersian@pdfcustomproperties)%
4230       }{}%
4231       >>%
4232     }%
4233 }

```

## 46 File bidi.tex

```

4234 \def\bididate{2022/07/07}
4235 \catcode`@=11
4236 \def\bidi@version{38.8}
4237 \let \protect \relax
4238 \newlinechar`^^J
4239 \edef\@bidi@info{*****~^J%

```



```

4240 * ^^J%
4241 * bidi package (Bidirectional typesetting in^^J%
4242 * plain TeX and LaTeX, using XeTeX engine)^^J%
4243 * ^^J%
4244 * Description: A convenient interface for^^J%
4245 * typesetting bidirectional texts in plain TeX^^J%
4246 * and LaTeX. The package includes adaptations^^J%
4247 * for use with many other commonly-used packages.^^J%
4248 * ^^J%
4249 * Copyright (c) 2007--2022 Vafa Khalighi^^J%
4250 * Copyright (c) 2018--2020 bidi-tex GitHub organization^^J%
4251 * ^^J%
4252 * v\bidi@version, \bididate^^J%
4253 * ^^J%
4254 * License: LaTeX Project Public License, version^^J%
4255 * 1.3c or higher (your choice)^^J%
4256 * ^^J%
4257 * Location on CTAN: /macros/xetex/latex/bidi^^J%
4258 * ^^J%
4259 * Issue tracker: https://github.com/kvafa/bidi/issues^^J%
4260 * ^^J%
4261 * Discussions: https://github.com/kvafa/bidi/discussions^^J%
4262 * ^^J%
4263 * Primary author of bidi package: Vafa Khalighi.^^J%
4264 * ^^J%
4265 * *****}
4266 \message{\@bidi@info}
4267 \edef\bidi@everyjob{\the\everyjob}
4268 \everyjob{\bidi@everyjob\message{\@bidi@info}}
4269 \def\bidiversion{%
4270   \relax
4271   \ifmode
4272     \bidi@version
4273   \else
4274     $\bidi@version$
4275   \fi
4276 }
4277 \input iftex.sty
4278 \RequireXeTeX
4279 \newif\if@bidi@pdfm@mark
4280 \newif\if@RTLmain
4281 \newif\if@RTL
4282 \newif\if@hboxRconstruct
4283 \newif\if@sendif
4284 \newif\if@RTL@footnote
4285 \@RTLmainfalse
4286 \def\setRTLmain{%
4287   \if@RTLmain\else
4288     \if@RTL\@RTLmaintrue%
4289     \else\@RTLmainfalse%
4290   \fi%
4291   \fi%
4292 }
4293 \let\n@xt=\

```



```

4294 \protected\def\LRE{\protect\pLRE}%
4295 \def\pLRE{\protect\afterassignment\moreLRE \let\n@xt= }
4296 \protected\def\RLE{\protect\pRLE}
4297 \def\pRLE{\protect\afterassignment\moreRLE \let\n@xt= }
4298 \def\bracetext{\ifcat\n@xt{\else\ifcat\n@xt}\fi
4299 \errmessage{Missing left brace has been substituted}\fi \bgroup}
4300 \newinsert\@bidi@copyins@
4301 \skip\@bidi@copyins@=12\p@
4302 \dimen\@bidi@copyins@=40pc
4303 \count\@bidi@copyins@=1000
4304 \def\@bidi@inslogo@{\insert\@bidi@copyins@\@bidi@logo@}
4305 \def\@bidi@logo@hb@xt@{%
4306 \if@RTLmain
4307 \hboxR to
4308 \else
4309 \hboxL to
4310 \fi
4311 }
4312 \def\@bidi@logo#1{%
4313 \toks@{%
4314 \setbox\z@\hbox{%
4315 \special{%
4316 pdf:image width 50pt height 50pt (#1)%
4317 }
4318 }%
4319 \dp\z@\z@
4320 \ht\z@=50pt
4321 \wd\z@=50pt
4322 \beginL
4323 \lower20pt\box\z@
4324 \endL
4325 }%
4326 \the\toks@
4327 }
4328 \def\@bidi@logo@{\@bidi@logo@hb@xt@\hsize{\hss\LRE{\bf Typeset by the bidi package\quad\@bidi@logo@}}
4329 \def\nobidilogo{\let\@bidi@logo@\@empty \let\@bidi@inslogo@\@empty}
4330 \def\@bidi@pdfcreator{%
4331 The bidi package, v\@bidi@version, \@bidi@date
4332 }
4333 \def\@bidi@pdfproducer{%
4334 The bidi package, v\@bidi@version, \@bidi@date
4335 }
4336 \def\@bidi@pdfcustomproperties{%
4337 This is the bidi package, Version \@bidi@version,
4338 Released July 7, 2022.
4339 }
4340 \def\@bidi@pdfm@mark{%
4341 \special{pdf:
4342 docinfo<<%
4343 \if\@bidi@pdfm@mark
4344 /Creator(\@bidi@pdfcreator)%
4345 /Producer(\@bidi@pdfproducer)%
4346 \fi
4347 /BIDI.Fullbanner(\@bidi@pdfcustomproperties)%

```



```

4348      >>%
4349    }%
4350 }
4351 \def\bidipdfinfoon{\@bidi@pdfm@marktrue}
4352 \def\bidipdfinfooff{\@bidi@pdfm@markfalse}
4353 \input plain-xetex-bidi.def
4354 \@bidi@inslogo@
4355 \outer\def\bye{\par\vfill\supereject\bidi@pdfm@mark@end}
4356 \catcode`@=12
4357 \bidipdfinfoon

```

## 47 File bidi2in1.sty

```

4358 \NeedsTeXFormat{LaTeX2e}
4359 \ProvidesPackage{bidi2in1}
4360 \pagestyle{plain}
4361 \newcount\evenpage
4362 \newcount\oddpag
4363 \twocolumn
4364 \def\@oddfoot{\evenpage=\thepage%
4365 \multiply\evenpage by 2%
4366 \oddpag=\the\evenpage%
4367 \advance\oddpag by -1%
4368 \hfil\the\evenpage\hfil\hfil\the\oddpag\hfil}%
4369 \def\@evenfoot{\evenpage=\thepage%
4370 \multiply\evenpage by 2%
4371 \oddpag=\the\evenpage%
4372 \advance\oddpag by -1%
4373 \hfil\the\oddpag\hfil\hfil\the\evenpage\hfil}%
4374 \textwidth 9.49in
4375 \textheight 6.7in
4376 \columnsep 0.9in
4377 \columnseprule 0.125pt
4378 \headheight 0cm
4379 \topmargin 0in
4380 \marginparwidth 0in
4381 \marginparsep 0in
4382 \hoffset 0.05in % Corrected
4383 \voffset -0.5in %top margin space is 1.0in by default
4384 \oddsidemargin 0in
4385 \evensidemargin 0in
4386 \headsep 0cm
4387 \topskip 0cm
4388 \parskip 0.15in %
4389 \headsep 0pt
4390 \special{papersize=11.69in,8.26in}
4391 \renewcommand\maketitle{\par
4392 \begingroup
4393 \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
4394 \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
4395 \long\def\@makefntext##1{\parindent 1em\noindent
4396 \hb@xt@1.8em{%
4397 \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
4398 \@maketitle

```



```

4399 \@thanks
4400 \endgroup
4401 \setcounter{footnote}{0}%
4402 \global\let\thanks\relax
4403 \global\let\maketitle\relax
4404 \global\let\@maketitle\relax
4405 \global\let\@thanks\@empty
4406 \global\let\@author\@empty
4407 \global\let\@date\@empty
4408 \global\let\@title\@empty
4409 \global\let\title\relax
4410 \global\let\author\relax
4411 \global\let\date\relax
4412 \global\let\and\relax
4413 }

```

## 48 File bidicode.sty

```

4414 \NeedsTeXFormat{LaTeX2e}
4415 \ProvidesPackage{bidicode}
4416 \RequirePackage{xcolor}
4417 \RequirePackage{showexpl}
4418 \definecolor{hellgelb}{rgb}{1,1,0.85}
4419 \definecolor{colKeys}{rgb}{0,0,1}
4420 \definecolor{colCS}{rgb}{0,0,1}
4421 \definecolor{colIdentifier}{rgb}{0,0,0}
4422 \definecolor{colComments}{rgb}{1,0,0}
4423 \definecolor{colString}{rgb}{0,0.5,0}
4424 \lstset{%
4425     language=[LaTeX]TeX,%
4426     float=hbp,%
4427     basicstyle=\ttfamily\small,%
4428     identifierstyle=\color{colIdentifier},%
4429     keywordstyle=\color{colKeys},%
4430     texcsstyle=\color{colCS},%
4431     stringstyle=\color{colString},%
4432     commentstyle=\color{colComments},%
4433     backgroundcolor=\color{hellgelb},%
4434     columns=flexible,%
4435     tabsize=4,%
4436     extendedchars=true,%
4437     showspaces=false,%
4438     showstringspaces=false,%
4439     numbers=left,%
4440     numbersep=0.9em,%
4441     numberstyle=\tiny,%
4442     frame=single,%
4443     captionpos=b,%
4444     xleftmargin=1em,%
4445     breaklines=true,%
4446     breakautoindent=false,%
4447     breakindent=0pt,%
4448     escapeinside=**,%
4449     pos=r,%

```



```

4450 explpreset={%
4451     xleftmargin=1em,%
4452     columns=flexible,%
4453     language=[LaTeX]TeX%
4454 },%
4455 moretexcs={%
4456     bididate,%
4457     bidiversion,%
4458     deflatinfont,%
4459     defpersianfont,%
4460     ding,%
4461     endLTR,%
4462     endRTL,%
4463     false,%
4464     falsesymbol,%
4465     junicode,%
4466     lr,%
4467     LR,%
4468     LRE,%
4469     LTR,%
4470     maketitle,%
4471     Nastaliq,%
4472     newfontfamily,%
4473     Parsifont,%
4474     part,%
4475     RL,%
4476     RLE,%
4477     RTL,%
4478     RTLcases,%
4479     SepMark,%
4480     setLR,%
4481     setLTR,%
4482     setRL,%
4483     setRTL,%
4484     settextfont,%
4485     subsection,%
4486     subsubsection,%
4487     tableofcontents,%
4488     text,%
4489     theequation,%
4490     thesection,%
4491     true,%
4492     truesymbol,%
4493     XePersian,%
4494     xepersiandate,%
4495     xepersianversion%
4496 },%
4497 }
4498 \newcommand\HLON{%
4499     \gdef\lst@alloverstyle##1{%
4500         \fboxrule=0pt
4501         \fboxsep=0pt
4502         \fcolorbox{hellgelb}{hellgelb}{\bfseries\strut##1}%
4503     }}

```



```

4504 \newcommand\HLOFF{%
4505   \xdef\lst@alloverstyle##1{##1}%
4506 }
4507 \newcommand\Larg [1]{\normalfont\itshape#1\}/}
4508 \newcommand\Larga[1]{\langle\Larg{#1}\rangle$}
4509 \newcommand\Largb[1]{\lcb\Larg{#1}\rcb}
4510 \newcommand\Largs[1]{\lsb\Larg{#1}\rsb}
4511 \newcommand\Largr[1]{\lrb\Larg{#1}\rrb}
4512 \newcommand\LBEG[1]{\normalfont\ttfamily\bs{}begin\lcb#1\rcb}}
4513 \newcommand\LEND[1]{\normalfont\ttfamily\bs{}end\lcb#1\rcb}}
4514
4515 \DeclareRobustCommand\bs{\normalfont\ttfamily\symbol{92}}
4516 \DeclareRobustCommand\lcb{\normalfont\ttfamily\char`{}}
4517 \DeclareRobustCommand\rcb{\normalfont\ttfamily\char`{}}
4518 \DeclareRobustCommand\lsb{\normalfont\ttfamily{}}
4519 \DeclareRobustCommand\rsb{\normalfont\ttfamily{}}
4520 \DeclareRobustCommand\lrb{\normalfont\ttfamily{}}
4521 \DeclareRobustCommand\rrb{\normalfont\ttfamily{}}
4522
4523 \def\Lcs#1{\nxLcs{#1}}
4524 \def\LcsStar#1{\nxLcs{#1}\OptArg*{}}
4525 \def\nxLcs#1{\texttt{\symbol{92}}#1}}
4526
4527 \def\Coordx#1{$x_{#1}$}
4528 \def\Coordy#1{$y_{#1}$}
4529 \def\Coordz#1{$z_{#1}$}
4530 \def\Coord#1{\Coordx{#1},\kern 1pt\Coordy{#1}}
4531 \def\Coordn{\Coordx{n},\kern 1pt\Coordy{n}}
4532 \def\CoordIII#1{\Coordx{#1},\kern 1pt\Coordy{#1},\kern 1pt\Coordz{#1}}
4533 \def\CAny{\Coordx{}},\kern 1pt\Coordy{}
4534 \def\CIIIAny{\Coordx{}},\kern 1pt\Coordy{}},\kern 1pt\Coordz{}
4535 \def\coord#1{\Coordx{#1},\kern 1pt\Coordy{#1}}
4536 \def\coordn{\Coordx{n},\kern 1pt\Coordy{n}}
4537 \def\coordiii#1{\Coordx{#1},\kern 1pt\Coordy{#1},\kern 1pt\Coordz{#1}}
4538 \def\coordx#1{($x_{#1}$)}
4539 \def\coordy#1{($y_{#1}$)}
4540 \def\coordz#1{($z_{#1}$)}
4541 \def\cAny{\Coordx{}},\kern 1pt\Coordy{}
4542 \def\ciiiiAny{\Coordx{}},\kern 1pt\Coordy{}},\kern 1pt\Coordz{}
4543
4544 \newsavebox{\boxdef}
4545 \newenvironment{BDef}
4546   {\begin{lrbox}\boxdef
4547     \def\arraystretch{1.0}
4548     \begin{tabular}{@{}l@{}l@{}l@{}}
4549   }
4550   {\end{tabular}\end{lrbox}}
4551
4552   {\BCmd\fbbox{\usebox\boxdef}\endBCmd}
4553   \aftergroup\@afterindentfalse\aftergroup\@afterheading
4554 }
4555
4556 \newenvironment{BDef*}
4557   {\begin{lrbox}\boxdef

```



```

4558     \def\arraystretch{1.0}
4559     \begin{tabular}{@{}l@{}l@{}l@{}}
4560   }
4561   {\end{tabular}\end{lrbox}
4562   {\begin{BCmd*}\fbox{\usebox\boxdef}\end{BCmd*}}
4563   \aftergroup\@afterindentfalse\aftergroup\@afterheading
4564 }
4565 \newenvironment{BCmd}{
4566   \@beginparpenalty-\@lowpenalty
4567   \topsep\BDefaboveskip
4568   \fboxsep3pt
4569   \flushleft}
4570 {\@endparpenalty\@M
4571   \topsepadd\BDefbelowskip
4572   \endflushleft}
4573
4574 \newenvironment{BCmd*}{
4575   \@beginparpenalty\@M
4576   \topsep\BDefinlineskip
4577   \fboxsep3pt
4578   \flushleft}
4579 {\@endparpenalty5000
4580   \endflushleft}
4581
4582 \newskip\BDefaboveskip
4583 \newskip\BDefbelowskip
4584 \newskip\BDefinlineskip
4585 \setlength\BDefaboveskip{10pt plus 4pt}
4586 \setlength\BDefbelowskip{6pt}
4587 \setlength\BDefinlineskip{6pt}
4588
4589 \def\OptArgs{\colorbox{black!20}{\texttt{[Options]}}\kern1pt}
4590 \def\OptArg{\@ifnextchar*\OptArgi{\OptArgii*}}
4591 \def\OptArgi*#1{\colorbox{black!20}{\texttt{#1}}\kern1pt}
4592 \def\OptArgii*#1{\colorbox{black!20}{\texttt{[#1]}}\kern1pt}

```

## 49 File bidiftnxtra.sty

```

4593 \NeedsTeXFormat{LaTeX2e}
4594 \ProvidesPackage{bidiftnxtra}
4595 \newtoks\bidip@ftn
4596 \let\FN@sffootnote\footnote
4597 \let\FN@sff@LTRfootnote\LTRfootnote
4598 \let\FN@sff@RTLfootnote\RTLfootnote
4599 \def\footnote{\ifx\protect\@typeset@protect
4600   \expandafter\FN@sff@footnote
4601   \else
4602     \expandafter\FN@sff@gobble@opt
4603   \fi
4604 }
4605 \def\LTRfootnote{\ifx\protect\@typeset@protect
4606   \expandafter\FN@sff@LTRfootnote
4607   \else
4608     \expandafter\FN@sff@gobble@opt

```



```

4609 \fi
4610 }
4611 \def\RTLfootnote{\ifx\protect\@typeset@protect
4612 \expandafter\FN@sfi@RTLfootnote
4613 \else
4614 \expandafter\FN@sfi@gobble@opt
4615 \fi
4616 }
4617 \edef\FN@sfi@gobble@opt{\noexpand\protect
4618 \expandafter\noexpand\csname FN@sfi@gobble@opt \endcsname}
4619 \expandafter\def\csname FN@sfi@gobble@opt \endcsname{%
4620 \@ifnextchar[%]
4621 \FN@sfi@gobble@twobrace
4622 \@gobble
4623 }
4624 \def\FN@sfi@gobble@twobrace[#1]#2{}
4625 \let\FN@sfi@footnotemark\footnotemark
4626 \def\footnotemark{\ifx\protect\@typeset@protect
4627 \expandafter\FN@sfi@footnotemark
4628 \else
4629 \expandafter\FN@sfi@gobble@optonly
4630 \fi
4631 }
4632 \edef\FN@sfi@gobble@optonly{\noexpand\protect
4633 \expandafter\noexpand\csname FN@sfi@gobble@optonly \endcsname}
4634 \expandafter\def\csname FN@sfi@gobble@optonly \endcsname{%
4635 \@ifnextchar[%]
4636 \FN@sfi@gobble@brace
4637 }%
4638 }
4639 \def\FN@sfi@gobble@brace[#1]{}
4640 \def\@tabular{%
4641 \leavevmode \hbox \bgroup
4642 \let\@footnotetext\@bidi@p@ftntext
4643 \let\@LTRfootnotetext\@bidi@p@LTRftntext
4644 \let\@RTLfootnotetext\@bidi@p@RTLftntext
4645 \let\@xfootnotenext\@bidi@p@xftntext
4646 \let\@xfootnote\@bidi@p@xfootnote
4647 \let\@xLTRfootnotenext\@bidi@p@xLTRftntext
4648 \let\@xLTRfootnote\@bidi@p@xLTRfootnote
4649 \let\@xRTLfootnotenext\@bidi@p@xRTLftntext
4650 \let\@xRTLfootnote\@bidi@p@xRTLfootnote
4651 \if@RTLtab\beginR \fi
4652 $\let\@acol\@tabacol
4653 \let\@class\@tabclassz
4654 \let\@classiv\@tabclassiv \let\\\@tabularcr\@tabarray}
4655 \def\endtabular{\crrc\egroup\if@RTLtab\egroup\endR\egroup\fi
4656 \egroup $\if@RTLtab\endR\fi\egroup
4657 \ifx\@capttype\@undefined
4658 \global\@bidi@p@ftn\expandafter{\expandafter}\the\@bidi@p@ftn\fi}
4659 \long\def\@bidi@p@ftntext#1{%
4660 \edef\@tempy{\the\@bidi@p@ftn\noexpand\footnotetext[\the\csname c@\@mpfn\endcsname]]}%
4661 \global\@bidi@p@ftn\expandafter{\@tempy{#1}}}%
4662 \long\def\@bidi@p@LTRftntext#1{%

```



```

4663 \edef\@tempyi{\the\bidip@ftn\noexpand\LTRfootnotetext[\the\csname c@\mpfn\endcsname]}}%
4664 \global\bidip@ftn\expandafter{\@tempyi{#1}}}%
4665 \long\def\bidip@RTLftntext#1{%
4666 \edef\@tempyii{\the\bidip@ftn\noexpand\RTLfootnotetext[\the\csname c@\mpfn\endcsname]}}%
4667 \global\bidip@ftn\expandafter{\@tempyii{#1}}}%
4668
4669
4670 \long\def\bidip@xftntext[#1]#2{%
4671 \global\bidip@ftn\expandafter{\the\bidip@ftn\footnotetext[#1]{#2}}}
4672
4673 \long\def\bidip@xLTRftntext[#1]#2{%
4674 \global\bidip@ftn\expandafter{\the\bidip@ftn\LTRfootnotetext[#1]{#2}}}
4675
4676 \long\def\bidip@xRTLftntext[#1]#2{%
4677 \global\bidip@ftn\expandafter{\the\bidip@ftn\RTLfootnotetext[#1]{#2}}}
4678
4679
4680 \def\bidip@xfootnote[#1]{%
4681 \begingroup
4682 \csname c@\mpfn\endcsname #1\relax
4683 \unrestored@protected@xdef\@thefnmark{\thempfn}%
4684 \endgroup
4685 \@footnotemark\bidip@xftntext[#1]}
4686
4687
4688 \def\bidip@xLTRfootnote[#1]{%
4689 \begingroup
4690 \csname c@\mpfn\endcsname #1\relax
4691 \unrestored@protected@xdef\@thefnmark{\thempfn}%
4692 \endgroup
4693 \@footnotemark\bidip@xLTRftntext[#1]}
4694
4695
4696 \def\bidip@xRTLfootnote[#1]{%
4697 \begingroup
4698 \csname c@\mpfn\endcsname #1\relax
4699 \unrestored@protected@xdef\@thefnmark{\thempfn}%
4700 \endgroup
4701 \@footnotemark\bidip@xRTLftntext[#1]}
4702
4703 \def\@xfloat #1[#2]{%
4704 \@nodoocument
4705 \def \@capttype {#1}%
4706 \def \@fps {#2}%
4707 \@onelevel@sanitize \@fps
4708 \def \reserved@b {!}%
4709 \ifx \reserved@b \@fps
4710 \@fpsadddefault
4711 \else
4712 \ifx \@fps \@empty
4713 \@fpsadddefault
4714 \fi
4715 \fi
4716 \ifhmode

```



```

4717 \@bsphack
4718 \@floatpenalty -\@Mii
4719 \else
4720 \@floatpenalty-\@Miii
4721 \fi
4722 \ifinner
4723 \@parmoderr\@floatpenalty\z@
4724 \else
4725 \@next\@currbox\@freelist
4726 {%
4727 \@tempcnta \sixt@@n
4728 \expandafter \@tfor \expandafter \reserved@a
4729 \expandafter :\expandafter =\@fps
4730 \do
4731 {%
4732 \if \reserved@a h%
4733 \ifodd \@tempcnta
4734 \else
4735 \advance \@tempcnta \@ne
4736 \fi
4737 \fi
4738 \if \reserved@a t%
4739 \@setfpsbit \tw@
4740 \fi
4741 \if \reserved@a b%
4742 \@setfpsbit 4%
4743 \fi
4744 \if \reserved@a p%
4745 \@setfpsbit 8%
4746 \fi
4747 \if \reserved@a !%
4748 \ifnum \@tempcnta>15
4749 \advance\@tempcnta -\sixt@@n\relax
4750 \fi
4751 \fi
4752 }%
4753 \@tempcntb \csname ftype@\@capttype \endcsname
4754 \multiply \@tempcntb \@xxxii
4755 \advance \@tempcnta \@tempcntb
4756 \global \count\@currbox \@tempcnta
4757 }%
4758 \@fltovf
4759 \fi
4760 \global \setbox\@currbox
4761 \color@vbox
4762 \normalcolor
4763 \vbox \bgroup
4764 \let\@footnotetext\@bidi@p@ftntext
4765 \let\@LTRfootnotetext\@bidi@p@LTRftntext
4766 \let\@RTLfootnotetext\@bidi@p@RTLftntext
4767 \let\@xfootnotenext\@bidi@p@xftntext
4768 \let\@xfootnote\@bidi@p@xfootnote
4769 \let\@xLTRfootnotenext\@bidi@p@xLTRftntext
4770 \let\@xLTRfootnote\@bidi@p@xLTRfootnote

```



```

4771      \let\@xRTLfootnotenext\@xRTLftntext
4772      \let\@xRTLfootnote\@xRTLfootnote
4773      \hsize\columnwidth
4774      \@parboxrestore
4775      \@floatboxreset
4776 }
4777 \def \@endfloatbox{%
4778     \par\vskip\z@skip      %% \par\vskip\z@ added 15 Dec 87
4779     \@minipagefalse
4780     \outer@nobreak
4781     \egroup                %% end of vbox
4782     \global\@xRTLftntext\expandafter{\expandafter}\the\@xRTLftntext
4783     \color@endbox
4784 }

```

## 50 File bidimoderncv.cls

```

4785 \NeedsTeXFormat{LaTeX2e}
4786 \ProvidesClass{bidimoderncv}
4787 \newif\if@DEBUG\@DEBUGfalse
4788 \DeclareOption{a4paper}{
4789     \setlength\paperheight{297mm}
4790     \setlength\paperwidth{210mm}}
4791 \DeclareOption{a5paper}{
4792     \setlength\paperheight{210mm}
4793     \setlength\paperwidth{148mm}}
4794 \DeclareOption{b5paper}{
4795     \setlength\paperheight{250mm}
4796     \setlength\paperwidth{176mm}}
4797 \DeclareOption{letterpaper}{
4798     \setlength\paperheight{11in}
4799     \setlength\paperwidth{8.5in}}
4800 \DeclareOption{legalpaper}{
4801     \setlength\paperheight{14in}
4802     \setlength\paperwidth{8.5in}}
4803 \DeclareOption{executivepaper}{
4804     \setlength\paperheight{10.5in}
4805     \setlength\paperwidth{7.25in}}
4806 \DeclareOption{landscape}{
4807     \setlength\@tempdima{\paperheight}
4808     \setlength\paperheight{\paperwidth}
4809     \setlength\paperwidth{\@tempdima}}
4810 \newcommand\@ptsize{}
4811 \DeclareOption{10pt}{\renewcommand\@ptsize{0}}
4812 \DeclareOption{11pt}{\renewcommand\@ptsize{1}}
4813 \DeclareOption{12pt}{\renewcommand\@ptsize{2}}
4814 \DeclareOption{draft}{\setlength\overfullrule{5pt}}
4815 \DeclareOption{final}{\setlength\overfullrule{0pt}}
4816 \newif\if@colour\@colourtrue
4817 \DeclareOption{nocolour}{\@colourfalse}
4818 \ExecuteOptions{a4paper,11pt,colour,final}
4819 \ProcessOptions\relax
4820 \input{size1\@ptsize.clo}
4821 \RequirePackage{color}

```



```

4822 \RequirePackage{graphicx}
4823 \RequirePackage{ifthen}
4824 \RequirePackage{marvosym}
4825 \addtolength{\oddsidemargin}{-54pt}
4826 \addtolength{\textwidth}{109pt}
4827 \addtolength{\topmargin}{-70pt}
4828 \addtolength{\textheight}{122pt}
4829 \addtolength{\marginparsep}{-5pt}
4830 \addtolength{\marginparwidth}{-10pt}
4831 \RequirePackage{url}
4832 \RequirePackage{hyperref}
4833 \hypersetup{%
4834   breaklinks,
4835   baseurl      = http://,%
4836   pdfborder    = 0 0 0,%
4837   pdfpagemode  = UseNone,%
4838   pdfstartpage = 1}
4839 \AtEndOfClass{%
4840   \AtBeginDocument{%
4841     \hypersetup{%
4842       pdfauthor      = \@firstname~\@familyname,%
4843       pdftitle       = \@title,%
4844       pdfsubject     = \@firstname~\@familyname,%
4845       pdfkeywords    = \@resumename~\@firstname~\@familyname}}}}
4846 \urlstyle{tt}
4847 \RequirePackage{fancyhdr}
4848 \fancypagestyle{plain}{%
4849   \renewcommand{\headrulewidth}{0pt}
4850   \renewcommand{\footrulewidth}{0pt}
4851   \fancyhf{}}
4852 \pagestyle{plain}
4853 \setlength\lineskip{1\p@}
4854 \setlength\normallineskip{1\p@}
4855 \renewcommand\baselinestretch{}
4856 \setlength{\parindent}{0pt}
4857 \setlength{\parskip}{0pt}
4858 \setlength\columnsep{10\p@}
4859 \setlength\columnseprule{0\p@}
4860 \pagestyle{empty}
4861 \pagenumbering{arabic}
4862 \raggedbottom
4863 \onecolumn
4864 \providecommand*\listitemsymbol{\textbullet}
4865 \providecommand*\addresssymbol{}
4866 \providecommand*\mobilesymbol{\Mobilefone}
4867 \providecommand*\phonesymbol{\Telefon}
4868 \providecommand*\faxsymbol{\FAX}
4869 \providecommand*\emailsymbol{\Letter}
4870 \definecolor{firstnamecolour}{rgb}{0,0,0}
4871 \def\firstnamecolour#1{\gdef\@firstnamecolour{\addfontfeature{Color=#1}}}
4872 \def\familynamecolour#1{\gdef\@familynamecolour{\addfontfeature{Color=#1}}}
4873 \def\titlecolour#1{\gdef\@titlecolour{\addfontfeature{Color=#1}}}
4874 \def\addresscolour#1{\gdef\@addresscolour{\addfontfeature{Color=#1}}}
4875 \def\quotecolour#1{\gdef\@quotecolour{\addfontfeature{Color=#1}}}

```



```

4876 \def\sectiontitlecolour#1{\gdef\@sectiontitlecolour{\addfontfeature{Color=#1}}}
4877 \definecolor{sectionrectanglecolor}{rgb}{0,0,0}
4878 \def\subsectioncolour#1{\gdef\@subsectioncolour{\addfontfeature{Color=#1}}}
4879 \def\hintcolour#1{\gdef\@hintcolour{\addfontfeature{Color=#1}}}
4880 \providecommand*{\firstnamefont}{}
4881 \providecommand*{\familynamefont}{}
4882 \providecommand*{\titlefont}{}
4883 \providecommand*{\addressfont}{}
4884 \providecommand*{\quotefont}{}
4885 \providecommand*{\sectionfont}{}
4886 \providecommand*{\subsectionfont}{}
4887 \providecommand*{\hintfont}{\small}
4888 \providecommand*{\firstnamestyle}[1]{\{\@firstnamefont\@firstnamecolour#1}}
4889 \providecommand*{\familynamestyle}[1]{\{\@familynamefont\@familynamecolour#1}}
4890 \providecommand*{\titlestyle}[1]{\{\@titlefont\@titlecolour#1}}
4891 \providecommand*{\addresstyle}[1]{\{\@addressfont\@addresscolour#1}}
4892 \providecommand*{\quotestyle}[1]{\{\@quotefont\@quotecolour#1}}
4893 \providecommand*{\sectionstyle}[1]{\{\@sectionfont\@sectiontitlecolour#1}}
4894 \providecommand*{\subsectionstyle}[1]{\{\@subsectionfont\@subsectioncolour#1}}
4895 \providecommand*{\hintstyle}[1]{\{\@hintfont\@hintcolour#1}}
4896 \newcommand*{\cvtheme}[2][{}{
4897   \def\@cvtheme{#2}
4898   \def\@cvthemeoptions{#1}}
4899 \cvtheme{bidi-casual}
4900 \AtBeginDocument{\RequirePackage[\@cvthemeoptions]{cvtheme\cvtheme}}
4901 \newcommand*{\resumename}[1]{\def\@resumename{#1}}
4902 \newcommand*{\firstname}[1]{\def\@firstname{#1}}
4903 \newcommand*{\familyname}[1]{\def\@familyname{#1}}
4904 \renewcommand*{\title}[1]{\def\@title{#1}}
4905 \newcommand*{\address}[1]{\def\@address{#1}}
4906 \newcommand*{\mobile}[1]{\def\@mobile{#1}}
4907 \newcommand*{\phone}[1]{\def\@phone{#1}}
4908 \renewcommand*{\fax}[1]{\def\@fax{#1}}
4909 \newcommand*{\email}[1]{\def\@email{#1}}
4910 \newcommand*{\extrainfo}[1]{\def\@extrainfo{#1}}
4911 \def\@photowidth{Opt}
4912 \newcommand*{\photo}[2][64pt]{\def\@photowidth{#1}\def\@photo{#2}}
4913 \newcommand*{\quote}[1]{\def\@quote{#1}}
4914 \newlength{\quotewidth}
4915 \newlength{\hintscolumnwidth}
4916 \newlength{\separatorcolumnwidth}
4917 \setlength{\separatorcolumnwidth}{0.025\textwidth}
4918 \newlength{\maincolumnwidth}
4919 \newlength{\doubleitemmaincolumnwidth}
4920 \newlength{\listitemsymbolwidth}
4921 \settowidth{\listitemsymbolwidth}{\listitemsymbol{~}}
4922 \newlength{\listitemmaincolumnwidth}
4923 \newlength{\listdoubleitemmaincolumnwidth}
4924 \newcommand*{\recomputethemelengths}{}
4925 \newcommand*{\recomputelengths}{%
4926 \setlength{\quotewidth}{0.65\textwidth}%
4927 \setlength{\maincolumnwidth}{\textwidth}%
4928 \addtolength{\maincolumnwidth}{-\separatorcolumnwidth}%
4929 \addtolength{\maincolumnwidth}{-\hintscolumnwidth}%

```



```

4930 \setlength{\listitemmaincolumnwidth}{\maincolumnwidth}%
4931 \addtolength{\listitemmaincolumnwidth}{-\listitemsymbolwidth}%
4932 \setlength{\doubleitemmaincolumnwidth}{\maincolumnwidth}%
4933 \addtolength{\doubleitemmaincolumnwidth}{-\hintscolumnwidth}%
4934 \addtolength{\doubleitemmaincolumnwidth}{-\separatorcolumnwidth}%
4935 \setlength{\doubleitemmaincolumnwidth}{0.5\doubleitemmaincolumnwidth}%
4936 \setlength{\listdoubleitemmaincolumnwidth}{\maincolumnwidth}%
4937 \addtolength{\listdoubleitemmaincolumnwidth}{-\listitemsymbolwidth}%
4938 \setlength{\listdoubleitemmaincolumnwidth}{0.475\listdoubleitemmaincolumnwidth}%
4939 \renewcommand{\headwidth}{\textwidth}%
4940 \recomputethemelengths}
4941 \setlength{\hintscolumnwidth}{0.15\textwidth}
4942 \recomputelengths
4943 \title{}
4944 \renewcommand*{\maketitle}{}
4945 \newcommand*{\section}[1]{%
4946 \vspace*{2.5ex \@plus 1ex \@minus .2ex}%
4947 \phantomsection}%
4948 \addcontentsline{toc}{part}{#1}%
4949 \parbox[m]{\hintscolumnwidth}{\bidi@raggedleft\hintfont{\leavevmode\color{sectionrectangle}%
4950 \hspace{\separatorcolumnwidth}%
4951 \parbox[m]{\maincolumnwidth}{\sectionstyle{#1}}\[\!ex}}
4952 \newcommand*{\subsection}[1]{%
4953 \cvline[0.45em]{\subsectionstyle{#1}}}
4954 \newcommand*{\cvline}[3][.25em]{%
4955 \begin{tabular}{@{}p{\hintscolumnwidth}@{\hspace{\separatorcolumnwidth}}p{\maincolumnwidth}%
4956 \bidi@raggedleft\hintfont{#2} &{#3}%
4957 \end{tabular}}\[\!#1]}
4958 \newcommand*{\cvdoubleitem}[4]{%
4959 \cvline{#1}{\begin{minipage}[t]{\doubleitemmaincolumnwidth}#2\end{minipage}}%
4960 \hfill%
4961 \begin{minipage}[t]{\hintscolumnwidth}\bidi@raggedleft\hintfont{#3}\end{minipage}\hspace*{\%
4962 \newcommand*{\cvlistitem}[2][\listitemsymbol{}]{%
4963 \cvline[0pt]{\begin{minipage}[t]{\listitemmaincolumnwidth}#2\end{minipage}}}
4964 \newcommand*{\cvlistdoubleitem}[3][\listitemsymbol{}]{%
4965 \cvline[0pt]{\begin{minipage}[t]{\listdoubleitemmaincolumnwidth}#2\end{minipage}}%
4966 \hfill%
4967 \ifthenelse{\equal{#3}{}]{%
4968 {}%
4969 {#1~\begin{minipage}[t]{\listdoubleitemmaincolumnwidth}#3\end{minipage}}}}
4970 \newcommand*{\cventry}[6]{%
4971 \cvline{#1}{%
4972 {\bfseries#2}%
4973 \ifx#3\else{, {\slshape#3}}\fi%
4974 \ifx#4\else{, #4}\fi%
4975 \ifx#5\else{, #5}\fi%
4976 .%
4977 \ifx#6\else{\newline}\begin{minipage}[t]{\linewidth}\small#6\end{minipage}}\fi
4978 }%
4979 \newcommand*{\cvlanguage}[3]{%
4980 \cvline{#1}{\begin{minipage}[t]{.225\maincolumnwidth}\textbf{#2}\end{minipage}\hfill\begin{minipage}[t]{.775\maincolumnwidth}%
4981 \newcommand*{\cvcomputer}[4]{%
4982 \cvdoubleitem{#1}{\small#2}{#3}{\small#4}}
4983 \newcommand*{\link}[2][{}]{%

```



```

4984 \ifthenelse{\equal{#1}{}}%
4985   {\href{#2}{#2}}%
4986   {\href{#2}{#1}}}
4987 \newcommand*{\httplink}[2][{}]{%
4988   \ifthenelse{\equal{#1}{}}%
4989     {\href{http://#2}{#2}}%
4990     {\href{http://#2}{#1}}}
4991 \newcommand*{\emailink}[2][{}]{%
4992   \ifthenelse{\equal{#1}{}}%
4993     {\href{mailto:#2}{#2}}%
4994     {\href{mailto:#2}{#1}}}
4995 \newif\if@displaypagenumbers\@displaypagenumberstrue
4996 \newcommand*{\nopagenumbers}{\@displaypagenumbersfalse}
4997 \AtBeginDocument{%
4998   \if@displaypagenumbers%
4999     \ifundefined{r@lastpage}{\}%
5000     \ifthenelse{\pageref{lastpage} > 1}{%
5001       \fancypagestyle{plain}{%
5002         \fancyfoot[r]{\beginL\addressfont\@quotecolour\footnotesize\thepage\beginL/\endL\pag
5003         \pagestyle{plain}}}%
5004     \AtEndDocument{\label{lastpage}}%
5005   \fi}
5006 \newlength{\bibindent}
5007 \setlength{\bibindent}{1.5em}
5008 \newcommand*{\bibliographyitemlabel}{\includegraphics{bidi-bibitem.pdf}}
5009 \newenvironment{thebibliography}[1]%
5010   {%
5011     \section{\refname}%
5012     \small%
5013     \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
5014     \bidi@thebibliography@font@hook%
5015     \begin{list}{\bibliographyitemlabel}%
5016       {%
5017         \setlength{\topsep}{0pt}%
5018         \setlength{\labelwidth}{\hintscolumnwidth}%
5019         \setlength{\labelsep}{\separatorcolumnwidth}%
5020         \leftmargin\labelwidth%
5021         \advance\leftmargin\labelsep%
5022         \@openbib@code%
5023         \usecounter{enumiv}%
5024         \let\p@enumiv\@empty%
5025         \renewcommand\theenumiv{\@arabic\c@enumiv}}%
5026         \sloppy\clubpenalty4000\widowpenalty4000%
5027     }%
5028   {%
5029     \def\@noitemerr{\@latex@warning{Empty `thebibliography' environment}}%
5030     \end{list}%
5031   }
5032 \newcommand\newblock{\hskip .11em\@plus.33em\@minus.07em}
5033 \let\@openbib@code\@empty

```

## 51 File bidi-perpage.sty

```

5034 \NeedsTeXFormat{LaTeX2e}

```



```

5035 \ProvidesPackage{bidi-perpage}[2018/10/04 v0.4 Reset counter(s) on every page]
5036 \newcount\bidi@page@count
5037 \bidi@page@count\@ne
5038 \newcommand*{\ResetCounterPerPage}[2][\z@]{%
5039   \if@bidi@csundef\bidi@stepcounterhook@@#2}{%
5040     \expandafter\gdef\csname bidi@stepcounterhook@@#2\endcsname{%
5041       }{}%
5042     \if@bidi@csundef\if@bidi@reset@#2@rerun}{%
5043       \expandafter\newif\csname if@bidi@reset@#2@rerun\endcsname
5044       }{}%
5045     \if@bidi@csundef\bidi@#2@count}{%
5046       \expandafter\newcount\csname bidi@#2@count\endcsname
5047       }{}%
5048     \csname bidi@#2@count\endcsname\z@
5049     \if@bidi@csundef\bidi@previous@page@@#2@count}{%
5050       \expandafter\newcount\csname
5051         bidi@previous@page@@#2@count\endcsname
5052       }{}%
5053     \csname bidi@previous@page@@#2@count\endcsname\z@
5054     \if@bidi@csundef\bidi@reset@#2@perpage}{%
5055       \bidi@AfterEndDocumentCheckLabelsRerun{%
5056         \csname if@bidi@reset@#2@rerun\endcsname
5057         \PackageWarningNoLine{bidi-perpage}{%
5058           Counter `#2' may not have been reset per page.
5059           Rerun to reset counter `#2' per page%
5060         }%
5061       \fi
5062     }%
5063   }{}%
5064   \expandafter\gdef\csname bidi@reset@#2@perpage\endcsname{%
5065     \global\advance\csname bidi@#2@count\endcsname\@ne
5066     \if@filesw
5067       \edef\@tempa{%
5068         \write\@auxout{%
5069           \string\bidi@counter@page{#2}%
5070           {\number\csname bidi@#2@count\endcsname}%
5071           {\noexpand\number\noexpand\bidi@page@count}%
5072         }%
5073       }%
5074       \@tempa
5075     \fi
5076   \begingroup\expandafter\expandafter\expandafter\endgroup
5077   \expandafter\ifx\csname bidi@#2@@\number\csname
5078     bidi@#2@count\endcsname\endcsname\relax
5079     \global\csname @bidi@reset@#2@reruntrue\endcsname
5080   \else
5081     \global\csname @bidi@reset@#2@rerunfalse\endcsname
5082     \expandafter\@tempcnta\csname bidi@#2@@\number
5083     \csname bidi@#2@count\endcsname\endcsname\relax
5084     \ifnum\@tempcnta=\csname
5085       bidi@previous@page@@#2@count\endcsname
5086     \else
5087       \global\csname
5088         bidi@previous@page@@#2@count\endcsname\@tempcnta

```



```

5089     \global\csname c@#2\endcsname#1\relax
5090     \fi
5091 \fi
5092 }%
5093 \expandafter\bidigappto\csname
5094   bidi@stepcounterhook@#2\endcsname{%
5095     \csname bidi@reset@#2@perpage\endcsname
5096   }%
5097 }
5098 \def\bidicounter@page#1#2#3{\bidinamegdef{bidi@#1@#2}{#3}}
5099 \bidi@AtEndOutputPage{%
5100   \global\advance\bidipage@count\@ne
5101 }

```

## 52 File biditools.sty

```

5102 \NeedsTeXFormat{LaTeX2e}
5103 \ProvidesPackage{biditools}[2022/06/15 v2.3 Programming tools for bidi package]
5104 \providecommand{\@bidi@saveprimitive}[2]{\begingroup\escapechar`\relax
5105   \edef\@tempa{\string#1}\edef\@tempb{\meaning#1}%
5106   \ifx\@tempa\@tempb \global\let#2#1%
5107   \else
5108     \edef\@tempb{\meaning#2}%
5109     \ifx\@tempa\@tempb
5110     \else
5111       \latexerror{Unable to properly define \string#2; primitive
5112         \noexpand#1no longer primitive}\@eha
5113     \fi
5114   \fi
5115 \endgroup}
5116 \newtoks\@bidi@envbody
5117 \newtoks\@bidi@emptytoks
5118 \def\bidicaddto@envbody#1{\global\@bidi@envbody\expandafter{\the\@bidi@envbody#1}}
5119 \def\bidicollect@body#1{%
5120   \@bidi@envbody{\expandafter#1\expandafter{\the\@bidi@envbody}}%
5121   \edef\bidiprocess@envbody{\the\@bidi@envbody\noexpand\end{\@currenvir}}%
5122   \@bidi@envbody\@bidi@emptytoks \def\begin@bidi@stack{b}%
5123   \begingroup
5124   \expandafter\let\csname\@currenvir\endcsname\bidicollect@@body
5125   \edef\bidiprocess@envbody{\expandafter\noexpand\csname\@currenvir\endcsname}%
5126   \bidiprocess@envbody
5127 }
5128 \def\bidipush@begins#1\begin#2{%
5129   \ifx\end#2\else b\expandafter\bidipush@begins\fi
5130 }
5131 \def\bidicollect@@body#1\end#2{%
5132   \edef\begin@bidi@stack{\bidipush@begins#1\begin\end \expandafter\gobble\begin@bidi@stack
5133   \ifx\@empty\begin@bidi@stack
5134     \endgroup
5135     \@checkend{#2}%
5136     \bidicaddto@envbody{#1}%
5137   \else
5138     \bidicaddto@envbody{#1\end{#2}}%
5139   \fi

```



```

5140 \bidi@process@envbody % A little tricky! Note the grouping
5141 }
5142 \long\def\bidi@addto@long@envbody#1{\global\@bidi@envbody\expandafter{\the\@bidi@envbody#1}}%
5143 \long\def\bidi@collect@long@body#1{%
5144   \@bidi@envbody{\expandafter#1\expandafter{\the\@bidi@envbody}}%
5145   \edef\bidi@process@envbody{\the\@bidi@envbody\noexpand\end{\@currentvir}}%
5146   \@bidi@envbody\@bidi@emptytoks \def\begin@bidi@stack{b}%
5147   \begingroup
5148   \expandafter\let\csname\@currentvir\endcsname\bidi@collect@long@@body
5149   \edef\bidi@process@envbody{\expandafter\noexpand\csname\@currentvir\endcsname}%
5150   \bidi@process@envbody
5151 }
5152 \long\def\bidi@push@long@begins#1\begin#2{%
5153   \ifx\end#2\else b\expandafter\bidi@push@long@begins\fi
5154 }
5155 \long\def\bidi@collect@long@@body#1\end#2{%
5156   \edef\begin@bidi@stack{\bidi@push@long@begins#1\begin\end \expandafter\@gobble\begin@bidi@stack}
5157   \ifx\@empty\begin@bidi@stack
5158     \endgroup
5159     \checkend{#2}%
5160     \bidi@addto@long@envbody{#1}%
5161   \else
5162     \bidi@addto@long@envbody{#1\end{#2}}%
5163   \fi
5164   \bidi@process@envbody % A little tricky! Note the grouping
5165 }
5166 \long\def\bidi@new@ifnextchar#1#2#3{%
5167   \let\reserved@d= #1%
5168   \def\reserved@a{#2}\def\reserved@b{#3}%
5169   \futurelet\@let@token\bidi@new@ifnch
5170 }
5171 \def\bidi@new@ifnch{%
5172   \ifx\@let@token\reserved@d \let\reserved@b\reserved@a \fi
5173   \reserved@b
5174 }
5175 \def\bidi@matrix@check#1{%
5176   \expandafter\ifx\csname\@currentvir\endcsname#1%
5177   \else\bidi@matrix@error#1%
5178     \expandafter\@gobble
5179   \fi
5180 }
5181 \def\bidi@matrix@error#1{%
5182   \PackageError{biditools}{%
5183     Old form '\string#1' should be \string\begin{\expandafter\@gobble\string#1}%
5184   }{%
5185     '\string#1{...}' is old bidi package syntax whose use is
5186     ill-advised in the old versions of bidi package.%
5187   }%
5188 }
5189 \def\@tagsextension{clo}
5190 \def\@definitionfileextension{def}
5191 \def\@texfileextension{tex}
5192 \def\@iftagsloaded{\@ifl@aded\@tagsextension}
5193 \def\@ifdefinitionfileloaded{\@ifl@aded\@definitionfileextension}

```



```

5194 \def\iftexfileloaded{\@ifl@aded\@texfileextension}
5195 \def\eqnewif#1#2{%
5196   \count@\escapechar \escapechar\m@ne
5197   \let#1\iffalse
5198   \let#2\iffalse
5199   \eq@if#1#2\iftrue
5200   \eq@if#1#2\iffalse
5201   \escapechar\count@}
5202 \def\eq@if#1#2#3{%
5203   \expandafter\def\csname\expandafter@gobbletwo\string#1%
5204     \expandafter@gobbletwo\string#3\endcsname
5205     {\let#1#3%
5206     \let#2#3}%
5207   \expandafter\def\csname\expandafter@gobbletwo\string#2%
5208     \expandafter@gobbletwo\string#3\endcsname
5209     {\let#2#3%
5210     \let#1#3}}
5211 \def\noteqnewif#1#2{%
5212   \count@\escapechar \escapechar\m@ne
5213   \let#1\iffalse
5214   \let#2\iffalse
5215   \not@eq@if#1#2\iftrue\iffalse
5216   \escapechar\count@}
5217 \def\not@eq@if#1#2#3#4{%
5218   \expandafter\def\csname\expandafter@gobbletwo\string#1%
5219     \expandafter@gobbletwo\string#3\endcsname
5220     {\let#1#3%
5221     \let#2#4}%
5222   \expandafter\def\csname\expandafter@gobbletwo\string#1%
5223     \expandafter@gobbletwo\string#4\endcsname
5224     {\let#1#4%
5225     \let#2#3}%
5226   \expandafter\def\csname\expandafter@gobbletwo\string#2%
5227     \expandafter@gobbletwo\string#3\endcsname
5228     {\let#2#3%
5229     \let#1#4}%
5230   \expandafter\def\csname\expandafter@gobbletwo\string#2%
5231     \expandafter@gobbletwo\string#4\endcsname
5232     {\let#2#4%
5233     \let#1#3}}
5234 \newcommand*\SetBoolean}[2]{%
5235   \lowercase{\def\@tempa{#2}}%
5236   \@ifundefined{@tempwa\@tempa}%
5237     {\PackageError{biditools}%
5238       {You can only set a boolean to `true' or `false'}\@ehc}%
5239   {\@ifundefined{#1\@tempa}%
5240     {\PackageError{biditools}{Boolean #1 undefined}\@ehc}%
5241     {\csname#1\@tempa\endcsname}}}
5242 \newcommand*\GlobalSetBoolean}[2]{%
5243   \lowercase{\def\@tempa{#2}}%
5244   \@ifundefined{@tempwa\@tempa}%
5245     {\PackageError{biditools}%
5246       {You can only set a boolean to `true' or `false'}\@ehc}%
5247     {\@ifundefined{#1\@tempa}%

```



```

5248     {\PackageError{biditools}{Boolean #1 undefined}\@ehc}%
5249     {\global\csname#1\@tempa\endcsname}}
5250 \newcommand*{\SetatBoolean}[2]{%
5251   \lowercase{\def\@tempa{#2}}%
5252   \@ifundefined{\@tempa\@tempa}%
5253   {\PackageError{biditools}%
5254     {You can only set a boolean to `true' or `false'}\@ehc}%
5255   {\@ifundefined{#1\@tempa}%
5256     {\PackageError{biditools}{Boolean @#1 undefined}\@ehc}%
5257     {\csname @#1\@tempa\endcsname}}}
5258 \newcommand*{\GlobalSetatBoolean}[2]{%
5259   \lowercase{\def\@tempa{#2}}%
5260   \@ifundefined{\@tempa\@tempa}%
5261   {\PackageError{biditools}%
5262     {You can only set a boolean to `true' or `false'}\@ehc}%
5263   {\@ifundefined{#1\@tempa}%
5264     {\PackageError{biditools}{Boolean @#1 undefined}\@ehc}%
5265     {\global\csname @#1\@tempa\endcsname}}}
5266 \def\@bidi@removefromreset#1#2{%
5267   \expandafter\let\csname c@#1\endcsname\@bidi@removefromreset
5268   \def\@elt##1{%
5269     \expandafter\ifx\csname c@##1\endcsname\@bidi@removefromreset
5270     \else
5271       \noexpand\@elt{##1}%
5272     \fi}%
5273   \expandafter\xdef\csname cl@#2\endcsname{%
5274     \csname cl@#2\endcsname}}
5275 \newcommand*{\ifRtoL}{%
5276   \ifRTL
5277     \expandafter\@firstoftwo
5278   \else
5279     \expandafter\@secondoftwo
5280   \fi}
5281 \newcommand*{\ifLtoR}{%
5282   \ifRTL
5283     \expandafter\@secondoftwo
5284   \else
5285     \expandafter\@firstoftwo
5286   \fi}
5287 \newcommand*{\ifRtoLtable}{%
5288   \ifRTLtab
5289     \expandafter\@firstoftwo
5290   \else
5291     \expandafter\@secondoftwo
5292   \fi}
5293 \newcommand*{\ifLtoRtable}{%
5294   \ifRTLtab
5295     \expandafter\@secondoftwo
5296   \else
5297     \expandafter\@firstoftwo
5298   \fi}
5299 \newcommand*{\ifRtoLhboxconstruct}{%
5300   \if@hboxRconstruct
5301     \expandafter\@firstoftwo

```



```

5302 \else
5303   \expandafter\@secondoftwo
5304 \fi}
5305 \newcommand*{\ifLtoRhboxconstruct}{%
5306   \if@hboxRconstruct
5307     \expandafter\@secondoftwo
5308   \else
5309     \expandafter\@firstoftwo
5310   \fi}
5311 \newcommand*{\iflatin}{%
5312   \if@nonlatin
5313     \expandafter\@secondoftwo
5314   \else
5315     \expandafter\@firstoftwo
5316   \fi}
5317 \newcommand*{\ifnonlatin}{%
5318   \if@nonlatin
5319     \expandafter\@firstoftwo
5320   \else
5321     \expandafter\@secondoftwo
5322   \fi}
5323
5324 \newcommand*{\bidi@convert@dimen@t@unit}[2]{%
5325   \strip@pt\dimexpr #1*65536/\dimexpr 1#2\relax #2}
5326
5327 \newcommand*{\bidi@convert@dimen@t@pt}[1]{%
5328   \dimexpr #1*65536/\dimexpr 1pt\relax}
5329
5330 \newcommand*{\if@bidi@csdef}[1]{%
5331   \ifcsname#1\endcsname
5332     \expandafter\@firstoftwo
5333   \else
5334     \expandafter\@secondoftwo
5335   \fi}
5336 \newcommand*{\if@bidi@csundef}[1]{%
5337   \ifcsname#1\endcsname
5338     \expandafter\ifx\csname#1\endcsname\relax
5339     \expandafter\expandafter
5340     \expandafter\@firstoftwo
5341   \else
5342     \expandafter\expandafter
5343     \expandafter\@secondoftwo
5344   \fi
5345   \else
5346     \expandafter\@firstoftwo
5347   \fi}
5348 \newcommand{\if@bidi@def}[1]{%
5349   \ifdefined#1%
5350     \expandafter\@firstoftwo
5351   \else
5352     \expandafter\@secondoftwo
5353   \fi}
5354 \newcommand{\if@bidi@undef}[1]{%
5355   \ifdefined#1%

```



```

5356 \ifx#1\relax
5357 \expandafter\expandafter
5358 \expandafter\@firstoftwo
5359 \else
5360 \expandafter\expandafter
5361 \expandafter\@secondoftwo
5362 \fi
5363 \else
5364 \expandafter\@firstoftwo
5365 \fi}
5366 \newcommand{\if@bidi@blank}[1]{% from url.sty
5367 \bidi@ifblank@i#1&&\@secondoftwo\@firstoftwo:}
5368 \long\def\bidi@ifblank@i#1#2&#3#4#5:{#4}
5369 \newcommand{\bidi@notblank}[1]{%
5370 \bidi@ifblank@i#1&&\@firstoftwo\@secondoftwo:}
5371 \newcommand{\if@bidi@defmacro}{%
5372 \long\edef\if@bidi@defmacro#1{%
5373 \noexpand\expandafter\noexpand\bidi@ifdefmacro
5374 \noexpand\meaning#1\detokenize{macro}:&}
5375 \edef\bidi@ifdefmacro{%
5376 \def\noexpand\bidi@ifdefmacro##1\detokenize{macro}:##2&}
5377 \bidi@ifdefmacro{\bidi@notblank{#2}}
5378 \newcommand*{\if@bidi@csmacro}[1]{%
5379 \if@bidi@csdef{#1}
5380 {\expandafter\if@bidi@defmacro\csname#1\endcsname}
5381 {\@secondoftwo}}
5382 \newcommand{\if@bidi@defprimitive}[1]{%
5383 \ifprimitive#1%
5384 \expandafter\@firstoftwo
5385 \else
5386 \expandafter\@secondoftwo
5387 \fi}
5388 \newcommand{\if@bidi@csprimitive}[1]{%
5389 \begingroup\expandafter\expandafter\expandafter\endgroup%
5390 \expandafter\ifprimitive\csname#1\endcsname%
5391 \expandafter\@firstoftwo
5392 \else
5393 \expandafter\@secondoftwo
5394 \fi}
5395 \newcommand*{\bidi@csdefcs}[2]{%
5396 \expandafter\@ifdefinable \csname#1\endcsname{%
5397 \expandafter\def\csname#1\expandafter\endcsname{\csname#2\endcsname}}
5398 \newcommand*{\bidi@csletcs}[2]{%
5399 \expandafter\@ifdefinable \csname#1\endcsname{%
5400 \expandafter\let\csname#1\expandafter\endcsname\csname#2\endcsname}}
5401 \newcommand*{\bidi@cslet}[2]{%
5402 \expandafter\@ifdefinable \csname#1\endcsname{%
5403 \expandafter\let\csname#1\endcsname#2}}
5404 \newcommand{\bidi@namelongdef}[1]{%
5405 \long\expandafter\def\csname #1\endcsname}
5406 \newcommand{\bidi@namelonggdef}[1]{%
5407 \long\expandafter\gdef\csname #1\endcsname}
5408 \newcommand{\bidi@namelongedef}[1]{%
5409 \long\expandafter\edef\csname #1\endcsname}

```



```

5410 \newcommand{\bidi@namelongxdef}[1]{%
5411   \long\expandafter\xdef\csname #1\endcsname}
5412 \def\bidi@ensure@newcommand{\@star@or@long\bidi@ensure@new@command}
5413 \def\bidi@ensure@new@command#1{%
5414   \begingroup \escapechar\m@ne\xdef@gtempa{\string#1}\endgroup
5415   \expandafter\if\bidi@csundef@gtempa
5416     {\new@command#1}{\relax%
5417     \let\@ifdefinable\@rc@ifdefinable%
5418     \new@command#1}}
5419 \def\bidi@ensure@newlength#1{\if\bidi@undef#1{\newskip#1}{}}
5420
5421 \protected\def\bidi@error{\PackageError{bidi}}
5422 \protected\def\bidi@warning{\PackageWarning{bidi}}
5423 \protected\def\bidi@info{\PackageInfo{bidi}}
5424
5425 \def\bidi@pos#1#2#3#4{\bidi@namegdef\bidi@#1pos@@#2@#3}{#4}}
5426
5427 \newcount\bidi@poscount
5428
5429 \newcommand*{\WriteStartXPostoaux}{%
5430   \global\advance\bidi@poscount\@ne
5431   \edef@tempa{%
5432     \write\@auxout{%
5433       \string\bidi@pos{x}{start}{\number\bidi@poscount}{\noexpand\number\noexpand\pdflastx}
5434     }%
5435   }%
5436   \ifvmode
5437     \leavevmode
5438   \fi
5439   \if@RTL
5440     \if@filesw
5441       \@tempa
5442     \fi
5443     \pdfsavepos
5444   \else
5445     \pdfsavepos
5446   \if@filesw
5447     \@tempa
5448   \fi
5449   \fi
5450   \if\bidi@csundef\bidi@xpos@@start@\number\bidi@poscount}{%
5451     \PackageWarningNoLine{biditytools}{%
5452       The start x position '\number\bidi@poscount' is not known yet.
5453       Rerun to get this x position%
5454     }%
5455   }{}%
5456 }
5457
5458 \newcommand*{\WriteEndXPostoaux}{%
5459   \edef@tempa{%
5460     \write\@auxout{%
5461       \string\bidi@pos{x}{end}{\number\bidi@poscount}{\noexpand\number\noexpand\pdflastx}
5462     }%
5463   }%

```



```

5464 \if@RTL
5465   \if@filesw
5466     \@tempa
5467   \fi
5468   \pdfsavepos
5469 \else
5470   \pdfsavepos
5471 \if@filesw
5472   \@tempa
5473 \fi
5474 \fi
5475 \if@bidi@csundef{bidi@xpos@@end@\number\bidi@poscount}{%
5476   \PackageWarningNoLine{biditools}{%
5477     The end x position ``\number\bidi@poscount' is not known yet.
5478     Rerun to get this x position%
5479   }%
5480 }{}%
5481 }
5482
5483 \newcommand*{\WriteStartYPostoaux}{%
5484   \global\advance\bidi@poscount\@ne
5485   \edef\@tempa{%
5486     \write\@auxout{%
5487       \string\bidi@pos{y}{start}{\number\bidi@poscount}{\noexpand\number\noexpand\pdflasty
5488     }%
5489   }%
5490   \ifvmode
5491     \leavevmode
5492   \fi
5493 \if@RTL
5494   \if@filesw
5495     \@tempa
5496   \fi
5497   \pdfsavepos
5498 \else
5499   \pdfsavepos
5500 \if@filesw
5501   \@tempa
5502 \fi
5503 \fi
5504 \if@bidi@csundef{bidi@ypos@@start@\number\bidi@poscount}{%
5505   \PackageWarningNoLine{biditools}{%
5506     The start y position ``\number\bidi@poscount' is not known yet.
5507     Rerun to get this y position%
5508   }%
5509 }{}%
5510 }
5511
5512 \newcommand*{\WriteEndYPostoaux}{%
5513   \edef\@tempa{%
5514     \write\@auxout{%
5515       \string\bidi@pos{y}{end}{\number\bidi@poscount}{\noexpand\number\noexpand\pdflasty
5516     }%
5517   }%

```



```

5518 \if@RTL
5519   \if@filesw
5520     \@tempa
5521   \fi
5522   \pdfsavepos
5523 \else
5524   \pdfsavepos
5525 \if@filesw
5526   \@tempa
5527 \fi
5528 \fi
5529 \if@bidi@csundef{bidi@ypos@@end@\number\bidi@poscount}{%
5530   \PackageWarningNoLine{biditools}{%
5531     The end y position `\'number\bidi@poscount' is not known yet.
5532     Rerun to get this y position%
5533   }%
5534 }{}%
5535 }
5536
5537 \newcommand*{\WriteStartXYPostoaux}{%
5538   \global\advance\bidi@poscount\@ne
5539   \edef\@tempa{%
5540     \write\@auxout{%
5541       \string\bidi@pos{x}{start}{\number\bidi@poscount}{\noexpand\number\noexpand\pdflastx}
5542     }%
5543     \write\@auxout{%
5544       \string\bidi@pos{y}{start}{\number\bidi@poscount}{\noexpand\number\noexpand\pdflasty}
5545     }%
5546   }%
5547   \ifvmode
5548     \leavevmode
5549   \fi
5550 \if@RTL
5551   \if@filesw
5552     \@tempa
5553   \fi
5554   \pdfsavepos
5555 \else
5556   \pdfsavepos
5557 \if@filesw
5558   \@tempa
5559 \fi
5560 \fi
5561 \if@bidi@csundef{bidi@xpos@@start@\number\bidi@poscount}{%
5562   \PackageWarningNoLine{biditools}{%
5563     The start x position `\'number\bidi@poscount' is not known yet.
5564     Rerun to get this x position%
5565   }%
5566 }{}%
5567 \if@bidi@csundef{bidi@ypos@@start@\number\bidi@poscount}{%
5568   \PackageWarningNoLine{biditools}{%
5569     The start y position `\'number\bidi@poscount' is not known yet.
5570     Rerun to get this y position%
5571   }%

```



```

5572 }{}%
5573 }
5574
5575 \newcommand*{\WriteEndXYPostoaux}{%
5576     \edef\@tempa{%
5577         \write\@auxout{%
5578             \string\bidipos{x}{end}{\number\bidiposcount}{\noexpand\number\noexpand\pdflastx}
5579         }%
5580         \write\@auxout{%
5581             \string\bidipos{y}{end}{\number\bidiposcount}{\noexpand\number\noexpand\pdflasty}
5582         }%
5583     }%
5584 \if@RTL
5585     \if@filesw
5586         \@tempa
5587 \fi
5588 \pdfsavepos
5589 \else
5590 \pdfsavepos
5591 \if@filesw
5592     \@tempa
5593 \fi
5594 \fi
5595 \if@bidi@csundef{\bidixpos@@end@\number\bidiposcount}{%
5596     \PackageWarningNoLine{biditools}{%
5597         The end x position ``\number\bidiposcount' is not known yet.
5598         Rerun to get this x position%
5599     }%
5600 }{}%
5601 \if@bidi@csundef{\bidipypos@@end@\number\bidiposcount}{%
5602     \PackageWarningNoLine{biditools}{%
5603         The end y position ``\number\bidiposcount' is not known yet.
5604         Rerun to get this y position%
5605     }%
5606 }{}%
5607 }
5608
5609 \newcommand*{\currentposxwidth}{%
5610     \if@bidi@csundef{\bidixpos@@end@\number\bidiposcount}{\z@}
5611     {%
5612         \ifnum\csname bidixpos@@start@\number\bidiposcount
5613         \endcsname < \csname bidixpos@@end@\number\bidiposcount
5614         \endcsname
5615         \dimexpr \csname bidixpos@@end@\number\bidiposcount
5616         \endcsname sp - \csname bidixpos@@start@\number\bidiposcount
5617         \endcsname sp\relax
5618     \else
5619         \dimexpr \csname bidixpos@@start@\number\bidiposcount
5620         \endcsname sp - \csname bidixpos@@end@\number\bidiposcount
5621         \endcsname sp\relax
5622     \fi
5623 }%
5624 }
5625

```



```

5626 \newcommand*{\currentposyheight}{%
5627   \if@bidi@csundef{bidi@ypos@@end@\number\bidi@poscount}{\z@}
5628   {%
5629     \dimexpr \csname bidi@ypos@@start@\number\bidi@poscount
5630     \endcsname sp - \csname   bidi@ypos@@end@\number\bidi@poscount
5631     \endcsname sp\relax
5632   }%
5633 }
5634
5635
5636
5637 \newcommand*{\setbaselineskip}[1]{%
5638   \linespread{\strip@pt\dimexpr\numexpr\dimexpr#1\relax*65536/\dimexpr\baselineskip\relax}
5639   \selectfont
5640 }
5641
5642
5643 \newcommand*{\bidi@newrobustcmd}{%
5644 \protected\def\bidi@newrobustcmd{\@star@or@long\bidi@new@command}
5645
5646 \def\bidi@new@command#1{\@testopt{\bidi@newcommand#1}0}
5647
5648 \def\bidi@newcommand#1[#2]{%
5649   \@ifnextchar[%]
5650   {\bidi@xargdef#1[#2]}
5651   {\ifx\l@ngrel@x\relax
5652     \let\l@ngrel@x\protected
5653   \else
5654     \protected\def\l@ngrel@x{\protected\long}%
5655   \fi
5656   \@argdef#1[#2]}}
5657
5658 \long\def\bidi@xargdef#1[#2][#3]#4{%
5659   \@ifdefinable#1{%
5660     \expandafter\protected
5661     \expandafter\def
5662     \expandafter#1%
5663     \expandafter{%
5664       \expandafter\@testopt
5665       \csname\string#1\endcsname{#3}}%
5666     \expandafter\@yargdef\csname\string#1\endcsname\tw@{#2}{#4}}}
5667
5668 \bidi@newrobustcmd*{\bidi@renewrobustcmd}{\@star@or@long\bidi@renew@command}
5669
5670 \def\bidi@renew@command#1{%
5671   \if@bidi@undef{#1}
5672     {\bidi@error{\string#1 undefined}\@ehc}
5673     {%
5674       \let\@ifdefinable\@rc@ifdefinable
5675       \bidi@new@command#1}
5676
5677
5678
5679 \bidi@newrobustcmd*{\bidi@providerobustcmd}{\@star@or@long\bidi@provide@command}

```



```

5680
5681 \def\bidiprovide@command#1{%
5682   \if@bidi@undef{#1}
5683     {\def\reserved@a{\bidi@new@command#1}}
5684     {\def\reserved@a{\bidi@renew@command\reserved@a}}%
5685   \reserved@a}
5686
5687 \newcommand*{\bidi@csuse}[1]{%
5688   \ifcsname#1\endcsname
5689     \csname#1\expandafter\endcsname
5690   \fi}
5691
5692 \newcommand{\bidi@expandonce}[1]{%
5693   \unexpanded\expandafter{#1}}
5694
5695 \def\bidi@protected{%
5696   \let\@@protect\protect
5697   \let\protect\@unexpandable@protect
5698   \afterassignment\restore@protect}
5699
5700 \bidi@newrobustcmd{\bidi@appto}[2]{%
5701   \if@bidi@undef{#1}
5702     {\edef#1{\unexpanded{#2}}}
5703     {\edef#1{\bidi@expandonce#1\unexpanded{#2}}}}
5704 \bidi@newrobustcmd{\bidi@eappto}[2]{%
5705   \if@bidi@undef{#1}
5706     {\edef#1{#2}}
5707     {\edef#1{\bidi@expandonce#1#2}}}
5708 \bidi@newrobustcmd{\bidi@gappto}[2]{%
5709   \if@bidi@undef{#1}
5710     {\xdef#1{\unexpanded{#2}}}
5711     {\xdef#1{\bidi@expandonce#1\unexpanded{#2}}}}
5712 \bidi@newrobustcmd{\bidi@xappto}[2]{%
5713   \if@bidi@undef{#1}
5714     {\xdef#1{#2}}
5715     {\xdef#1{\bidi@expandonce#1#2}}}
5716
5717 \bidi@newrobustcmd*{\bidi@protected@eappto}{\bidi@protected\bidi@eappto}
5718 \bidi@newrobustcmd*{\bidi@protected@xappto}{\bidi@protected\bidi@xappto}
5719
5720
5721
5722 \bidi@newrobustcmd{\bidi@preto}[2]{%
5723   \if@bidi@undef{#1}
5724     {\edef#1{\unexpanded{#2}}}
5725     {\edef#1{\unexpanded{#2}\bidi@expandonce#1}}
5726 \bidi@newrobustcmd{\bidi@epreto}[2]{%
5727   \if@bidi@undef{#1}
5728     {\edef#1{#2}}
5729     {\edef#1{#2\bidi@expandonce#1}}}
5730 \bidi@newrobustcmd{\bidi@gpreto}[2]{%
5731   \if@bidi@undef{#1}
5732     {\xdef#1{\unexpanded{#2}}}
5733     {\xdef#1{\unexpanded{#2}\bidi@expandonce#1}}}

```



```

5734 \bidi@newrobustcmd{\bidi@xpreto}[2]{%
5735   \if@bidi@undef{#1}
5736     {\xdef#1{#2}}
5737     {\xdef#1{#2\bidi@expandonce#1}}}
5738
5739 \bidi@newrobustcmd*{\bidi@protected@epreto}{\bidi@protected\bidi@epreto}
5740 \bidi@newrobustcmd*{\bidi@protected@xpreto}{\bidi@protected\bidi@xpreto}
5741
5742
5743
5744 \bidi@newrobustcmd*{\bidi@csappto}[1]{\expandafter\bidi@appto\csname#1\endcsname}
5745 \bidi@newrobustcmd*{\bidi@cseappto}[1]{\expandafter\bidi@eappto\csname#1\endcsname}
5746 \bidi@newrobustcmd*{\bidi@csgappto}[1]{\expandafter\bidi@gappto\csname#1\endcsname}
5747 \bidi@newrobustcmd*{\bidi@csxappto}[1]{\expandafter\bidi@xappto\csname#1\endcsname}
5748 \bidi@newrobustcmd*{\bidi@protected@cseappto}{\bidi@protected\bidi@cseappto}
5749 \bidi@newrobustcmd*{\bidi@protected@csxappto}{\bidi@protected\bidi@csxappto}
5750
5751
5752
5753 \bidi@newrobustcmd*{\bidi@cspreto}[1]{\expandafter\bidi@preto\csname#1\endcsname}
5754 \bidi@newrobustcmd*{\bidi@csepreto}[1]{\expandafter\bidi@epreto\csname#1\endcsname}
5755 \bidi@newrobustcmd*{\bidi@csgpreto}[1]{\expandafter\bidi@gpreto\csname#1\endcsname}
5756 \bidi@newrobustcmd*{\bidi@csxpreto}[1]{\expandafter\bidi@xpreto\csname#1\endcsname}
5757 \bidi@newrobustcmd*{\bidi@protected@csepreto}{\bidi@protected\bidi@csepreto}
5758 \bidi@newrobustcmd*{\bidi@protected@csxpreto}{\bidi@protected\bidi@csxpreto}
5759
5760
5761
5762 \bidi@newrobustcmd{\if@bidi@patchable}{%
5763   \bidi@dbg@trce\if@bidi@patchable
5764   \begingroup
5765   \@makeother\%#
5766   \@ifstar\bidi@ifpatchablei\bidi@ifpatchable}
5767
5768 \long\def\bidi@ifpatchable#1#2{%
5769   \endgroup
5770   \bidi@dbg@init#1%
5771   \if@bidi@undef{#1}
5772     {\bidi@dbg@fail{def}\@secondoftwo}
5773     {\bidi@dbg@info{def}%
5774       \if@bidi@defmacro{#1}
5775         {\bidi@dbg@info{mac}%
5776           \bidi@ifscanable{#1}
5777             {\bidi@ifhashcheck{#2}
5778               {\bidi@dbg@info{tok}%
5779                 \bidi@ifpattern#1{#2}
5780                   {\bidi@dbg@info{pat}%
5781                     \bidi@dbg@info{pos}\@firstoftwo}
5782                     {\bidi@dbg@fail{pat}\@secondoftwo}}
5783                   {\bidi@dbg@fail{hsh}\@secondoftwo}}
5784                   {\bidi@dbg@fail{tok}\@secondoftwo}}
5785                   {\bidi@dbg@fail{mac}\@secondoftwo}}}
5786
5787 \long\def\bidi@ifpatchablei#1{%

```



```

5788 \endgroup
5789 \bidi@dbg@init#1%
5790 \if@bidi@undef{#1}
5791   {\bidi@dbg@fail{def}\@secondoftwo}
5792   {\bidi@dbg@info{def}%
5793     \if@bidi@defmacro{#1}
5794       {\bidi@dbg@info{mac}%
5795         \if@bidi@defparam{#1}
5796           {\bidi@dbg@info{prm}%
5797             \bidi@ifscanable{#1}
5798               {\bidi@dbg@info{tok}%
5799                 \bidi@dbg@info{pos}\@firstoftwo}
5800               {\bidi@dbg@fail{tok}\@secondoftwo}}
5801           {\bidi@dbg@info{prl}%
5802             \if@bidi@defprotected{#1}
5803               {\bidi@dbg@info{pro}}
5804               {}%
5805             \bidi@dbg@info{pos}\@firstoftwo}}
5806         {\bidi@dbg@fail{mac}\@secondoftwo}}}
5807
5808 \bidi@newrobustcmd*{\bidi@patchcmd}{%
5809   \bidi@dbg@trce\bidi@patchcmd
5810   \begingroup
5811   \@makeother\%
5812   \bidi@@patchcmd}
5813
5814 \newcommand{\bidi@patchcmd}[4][#####1]{%
5815   \bidi@ifpatchable#2{#3}
5816   {\bidi@dbg@succ{ret}%
5817     \begingroup
5818     \edef\bidi@resrvda{%
5819       \def\noexpand\bidi@resrvda####1\detokenize{macro:}####2->####3&{%
5820         #1\def\string\bidi@resrvda\space####2{\noexpand\bidi@resrvdb####3&}}%
5821       \def\noexpand\bidi@resrvdb####1\detokenize{#3}####2&{%
5822         #####1\detokenize{#4}####2}%
5823       \edef\noexpand\bidi@resrvda{%
5824         \noexpand\bidi@resrvda\meaning#2&}}%
5825     \bidi@resrvda
5826     \bidi@patchcmd@scantoks\bidi@resrvda
5827     \let#2\bidi@resrvda
5828     \bidi@undef\bidi@resrvda
5829     \@firstoftwo}
5830   {\@secondoftwo}}
5831
5832 \def\bidi@patchcmd@scantoks#1{%
5833   \edef\bidi@resrvda{\endgroup
5834     \unexpanded{\makeatletter\scantokens}{#1}%
5835     \catcode\number`\@=\the\catcode`\@ \relax}%
5836   \bidi@resrvda}
5837
5838 \newcommand\bidi@isloaded[2][{}]{
5839   \expandafter\ifx\csname if@bidi@#2loaded@ \endcsname \relax
5840     \expandafter\newif\csname if@bidi@#2loaded@ \endcsname
5841   \fi

```



```

5842 \@ifpackageloaded{#2}
5843   {\csname @bidi@#2loaded@true\endcsname #1}
5844   {\csname @bidi@#2loaded@false\endcsname}}
5845
5846 \protected\def\bidi@ifscanable#1{%
5847   \begingroup
5848   \edef\bidi@resrvda{%
5849     \def\noexpand\bidi@resrvda####1\detokenize{macro}:####2->####3&{%
5850       ####1\def\string\bidi@resrvda####2{####3}}}%
5851   \edef\noexpand\bidi@resrvda{\noexpand\bidi@resrvda\meaning#1&}}%
5852   \bidi@resrvda
5853   \makeatletter
5854   \scantokens\expandafter{\bidi@resrvda}%
5855   \expandafter\endgroup\ifx#1\bidi@resrvda
5856     \expandafter\@firstoftwo
5857   \else
5858     \expandafter\@secondoftwo
5859   \fi}
5860
5861
5862 \protected\long\def\bidi@ifhashcheck#1{%
5863   \begingroup
5864   \edef\bidi@resrvda{\detokenize{#1}}%
5865   \expandafter\endgroup
5866   \expandafter\bidi@ifhashcheck@i\meaning\bidi@resrvda&}
5867
5868 \edef\bidi@ifhashcheck@i#1&{%
5869   \noexpand\expandafter
5870   \noexpand\bidi@ifhashcheck@ii
5871   \noexpand\strip@prefix#1\string#\string#&}
5872
5873 \edef\bidi@ifhashcheck@ii{%
5874   \def\noexpand\bidi@ifhashcheck@ii##1\string#\string###2&}
5875 \bidi@ifhashcheck@ii{\if@bidi@blank{#2}}
5876
5877
5878 \protected\long\def\bidi@ifpattern#1#2{%
5879   \begingroup
5880   \edef\bidi@resrvda{%
5881     \def\noexpand\bidi@resrvda####1\detokenize{#2}####2&{%
5882       \endgroup\noexpand\noexpand\noexpand\noexpand\if@bidi@blank{####2}}}%
5883   \edef\noexpand\bidi@resrvda{\noexpand\bidi@resrvda
5884     \expandafter\strip@prefix\meaning#1\detokenize{#2}&}%
5885   \noexpand\bidi@resrvda}
5886   \bidi@resrvda\@secondoftwo\@firstoftwo}
5887
5888
5889 \newcommand{\if@bidi@defparam}{%
5890 \long\edef\if@bidi@defparam#1{%
5891   \noexpand\expandafter\noexpand\bidi@ifdefparam
5892   \noexpand\meaning#1\detokenize{macro}:->&}
5893 \edef\bidi@ifdefparam{%
5894   \def\noexpand\bidi@ifdefparam##1\detokenize{macro}:##2->##3&}
5895 \bidi@ifdefparam{\bidi@notblank{#2}}

```



```

5896
5897
5898 \newcommand{\if@bidi@defprotected}{%
5899 \long\edef\if@bidi@defprotected#1{%
5900 \noexpand\expandafter\noexpand\bidi@ifdefprotected
5901 \noexpand\meaning#1\string\protected&}
5902 \edef\bidi@ifdefprotected{%
5903 \def\noexpand\bidi@ifdefprotected##1\string\protected##2&}
5904 \bidi@ifdefprotected{\bidi@notblank{#2}}
5905
5906
5907 \bidi@newrobustcmd{\bidi@undef}[1]{\let#1\bidi@undefined}
5908 \bidi@newrobustcmd{\bidi@csundef}[1]{%
5909 \expandafter\let\csname #1\endcsname\bidi@undefined
5910 }
5911
5912 \let\bidi@dbg@trce@gobble
5913 \let\bidi@dbg@init@gobble
5914 \let\bidi@dbg@info@gobble
5915 \let\bidi@dbg@succ@gobble
5916 \let\bidi@dbg@fail@gobble
5917
5918
5919
5920 \bidi@newrobustcmd*{\bidi@apptocmd}{%
5921 \bidi@dbg@trce\bidi@apptocmd
5922 \begingroup
5923 \@makeother\%
5924 \bidi@hooktocmd\bidi@append}
5925
5926
5927
5928 \bidi@newrobustcmd*{\bidi@pretocmd}{%
5929 \bidi@dbg@trce\bidi@pretocmd
5930 \begingroup
5931 \@makeother\%
5932 \bidi@hooktocmd\bidi@prepend}
5933
5934 \long\def\bidi@hooktocmd#1#2#3{%
5935 \endgroup
5936 \bidi@dbg@init#2%
5937 \if@bidi@undef{#2}
5938 {\bidi@dbg@fail{def}\@secondoftwo}
5939 {\bidi@dbg@info{def}%
5940 \if@bidi@defmacro{#2}
5941 {\bidi@dbg@info{mac}%
5942 \if@bidi@defparam{#2}
5943 {\bidi@dbg@info{prm}%
5944 \bidi@ifscanable{#2}
5945 {\bidi@ifhashcheck{#3}
5946 {\bidi@dbg@info{tok}%
5947 \bidi@dbg@succ{ret}%
5948 \bidi@hooktocmd@i#1#2{#3}%
5949 \@firstoftwo}

```



```

5950         {\bidi@dbg@fail{hsh}\@secondoftwo}}
5951         {\bidi@dbg@fail{tok}\@secondoftwo}}
5952     {\bidi@dbg@info{prl}%
5953      \if@bidi@defprotected{#2}
5954       {\bidi@dbg@info{pro}%
5955        \bidi@dbg@succ{red}%
5956         \protected}
5957       {\bidi@dbg@succ{red}}}%
5958     \edef#2{#1{\bidi@expandonce#2}{\unexpanded{#3}}}%
5959     \@firstoftwo}}
5960     {\bidi@dbg@fail{mac}\@secondoftwo}}}}
5961
5962 \long\def\bidi@hooktocmd@i#1#2#3{%
5963   \begingroup
5964   \edef\bidi@resrvda{%
5965     \def\noexpand\bidi@resrvda####1\detokenize{macro}:####2->####3&{%
5966       ####1\def\string\bidi@resrvda\space####2{#1{####3}{\detokenize{#3}}}}}%
5967     \edef\noexpand\bidi@resrvda{%
5968       \noexpand\bidi@resrvda\meaning#2&}}}%
5969   \bidi@resrvda
5970   \bidi@patchcmd@scantoks\bidi@resrvda
5971   \let#2\bidi@resrvda
5972   \bidi@undef\bidi@resrvda}
5973
5974 \long\def\bidi@append#1#2{#1#2}
5975 \long\def\bidi@prepend#1#2{#2#1}
5976
5977 %\bidi@newrobustcmd*{\bidi@AtEndPreamble}{\bidi@gappto\bidi@endpreamblehook}
5978 %\newcommand*{\bidi@endpreamblehook}{}
5979
5980 \bidi@newrobustcmd*{\bidi@AtEndPreamble}{\AddToHook{begindocument/before}}%
5981
5982 \bidi@newrobustcmd*{\bidi@BeforeOutputPageShipOut}{\bidi@gappto\bidi@beforeoutputpageshipout}
5983 \newcommand*{\bidi@beforeoutputpageshipouthook}{}
5984
5985 \bidi@newrobustcmd*{\bidi@BeforeHeader}{\bidi@gappto\bidi@beforeheaderhook}
5986 \newcommand*{\bidi@beforeheaderhook}{}
5987
5988 \bidi@newrobustcmd*{\bidi@BeforeOutputBoxOutputPage}{\bidi@gappto\bidi@beforeoutputboxoutput}
5989 \newcommand*{\bidi@beforeoutputboxoutputpagehook}{}
5990
5991 \bidi@newrobustcmd*{\bidi@AfterOutputBoxOutputPage}{\bidi@gappto\bidi@afteroutputboxoutputpa}
5992 \newcommand*{\bidi@afteroutputboxoutputpagehook}{}
5993
5994 \bidi@newrobustcmd*{\bidi@BeforeFooter}{\bidi@gappto\bidi@beforefooterhook}
5995 \newcommand*{\bidi@beforefooterhook}{}
5996
5997 \bidi@newrobustcmd*{\bidi@AfterFooter}{\bidi@gappto\bidi@afterfooterhook}
5998 \newcommand*{\bidi@afterfooterhook}{}
5999
6000
6001 \bidi@newrobustcmd*{\bidi@AfterOutputPageShipOut}{\bidi@gappto\bidi@afteroutputpageshipoutho}
6002 \newcommand*{\bidi@afteroutputpageshipouthook}{}
6003

```



```

6004 \bidi@newrobustcmd*{\bidi@AtEndOutputPage}{\bidi@gappto\bidi@atendoutputpagehook}
6005 \newcommand*{\bidi@atendoutputpagehook}{\bidi@atendoutputpagehook}{}
6006
6007 %\bidi@preto\document{%
6008 % \endgroup
6009 % \let\bidi@AtEndPreamble\@firstofone
6010 % \bidi@endpreamblehook
6011 % \protected\def\bidi@AtEndPreamble{\@notprerr\@gobble}%
6012 % \bidi@undef\bidi@endpreamblehook
6013 % \begingroup}
6014
6015 \bidi@newrobustcmd*{\bidi@AfterPreamble}{\AtBeginDocument}
6016 \bidi@AtEndPreamble{\let\bidi@AfterPreamble\@firstofone}
6017
6018 %\bidi@newrobustcmd*{\bidi@AfterEndPreamble}{\bidi@gappto\bidi@afterendpreamblehook}
6019 %\newcommand*{\bidi@afterendpreamblehook}{\bidi@afterendpreamblehook}{}
6020
6021 \bidi@newrobustcmd*{\bidi@AfterEndPreamble}{\AddToHook{begindocument/end}}}%
6022
6023 %\bidi@appto\document{%
6024 % \let\bidi@AfterEndPreamble\@firstofone
6025 % \bidi@afterendpreamblehook
6026 % \protected\def\bidi@AfterEndPreamble{\@notprerr\@gobble}%
6027 % \bidi@undef\bidi@afterendpreamblehook
6028 % \ignorespaces}
6029
6030 \bidi@newrobustcmd*{\bidi@AfterEndDocumentCheckLabelsRerun}{\bidi@gappto\bidi@afterenddocumentchecklabelsrerunhook}
6031 \newcommand*{\bidi@afterenddocumentchecklabelsrerunhook}{\bidi@afterenddocumentchecklabelsrerunhook}{}
6032
6033 \bidi@patchcmd\enddocument
6034 {\fi}
6035 {\let\bidi@AfterEndDocumentCheckLabelsRerun\@firstofone
6036 \bidi@afterenddocumentchecklabelsrerunhook
6037 \fi}
6038 {}
6039 {\PackageWarning{biditools}{Patching '\string\enddocument' failed}}
6040
6041 \AtEndDocument{\let\bidi@AfterEndPreamble\@gobble}
6042
6043 \bidi@newrobustcmd*{\bidi@AfterLastShipout}{\bidi@gappto\bidi@afterlastshipouthook}
6044 \newcommand*{\bidi@afterlastshipouthook}{\bidi@afterlastshipouthook}{}
6045
6046 \bidi@patchcmd\enddocument
6047 {\clearpage}
6048 {\clearpage
6049 \let\bidi@AfterLastShipout\@firstofone
6050 \bidi@afterlastshipouthook}
6051 {}
6052 {\let\bidi@clearpage\clearpage
6053 \def\clearpage{%
6054 \bidi@clearpage
6055 \let\bidi@AfterLastShipout\@firstofone
6056 \bidi@afterlastshipouthook}}
6057

```



```

6058 %\bidi@newrobustcmd*{\bidi@AfterEndDocument}{\bidi@gappto\bidi@afterendddocumenthook}
6059 %\newcommand*{\bidi@afterendddocumenthook}{%
6060
6061 \bidi@newrobustcmd*{\bidi@AfterEndDocument}{\AddToHook{endddocument/end}}}%
6062
6063 %\bidi@patchcmd\endddocument
6064 % {\deadcycles}
6065 % {\let\bidi@AfterEndDocument\@firstofone
6066 % \bidi@afterendddocumenthook
6067 % \deadcycles}
6068 % {}
6069 % {\let\bidi@@end\@@end
6070 % \def\@@end{%
6071 % \let\bidi@AfterEndDocument\@firstofone
6072 % \bidi@afterendddocumenthook
6073 % \bidi@@end}}
6074
6075 \bidi@newrobustcmd{\bidi@AtBeginEnvironment}[1]{%
6076 \bidi@csgappto{\bidi@begin@#1@hook}}
6077
6078 % Patch \begin<space> and \end<space> in newer LaTeX releases
6079 % \begin and \end in older ones.
6080 \expandafter\bidi@patchcmd\csname begin\ifcsname begin \endcsname\space\fi\endcsname
6081 {\csname #1\endcsname}
6082 {\bidi@csuse{\bidi@begin@#1@hook}%
6083 \csname #1\endcsname}
6084 {}
6085 {\bidi@warning{%
6086 Patching '\string\begin' failed!\MessageBreak
6087 '\string\bidi@AtBeginEnvironment' will not work\@gobble}}
6088
6089
6090
6091 \bidi@newrobustcmd{\bidi@AtEndEnvironment}[1]{%
6092 \bidi@csgappto{\bidi@end@#1@hook}}
6093
6094 \expandafter\bidi@patchcmd\csname end\ifcsname end \endcsname\space\fi\endcsname
6095 {\csname end#1\endcsname}
6096 {\bidi@csuse{\bidi@end@#1@hook}%
6097 \csname end#1\endcsname}
6098 {}
6099 {\bidi@warning{%
6100 Patching '\string\end' failed!\MessageBreak
6101 '\string\bidi@AtEndEnvironment' will not work\@gobble}}
6102
6103
6104
6105 \bidi@newrobustcmd{\bidi@BeforeBeginEnvironment}[1]{%
6106 \bidi@csgappto{\bidi@beforebegin@#1@hook}}
6107
6108 \expandafter\bidi@pretocmd\csname begin\ifcsname begin \endcsname\space\fi\endcsname
6109 {\bidi@csuse{\bidi@beforebegin@#1@hook}}
6110 {}
6111 {\bidi@warning{%

```



```

6112     Patching '\string\begin' failed!\MessageBreak
6113     '\string\bidibeforebeginenvironment' will not work\@gobble}}
6114
6115 \bidinewrobustcmd{\bidi@afterendenvironment}[1]{%
6116   \bidi@csgappto{\bidi@afterend@#1@hook}}
6117
6118 \expandafter\bidi@patchcmd\csname end\ifcsname end \endcsname\space\fi\endcsname
6119   {\if@ignore}
6120   {\bidi@csuse{\bidi@afterend@#1@hook}%
6121     \if@ignore}
6122   {}
6123   {\bidi@warning{%
6124     Patching '\string\end' failed!\MessageBreak
6125     '\string\bidiafterendenvironment' will not work\@gobble}}
6126
6127 \def\bidi@namedef#1{\expandafter\def\csname #1\endcsname}
6128 \def\bidi@namegdef#1{\expandafter\gdef\csname #1\endcsname}
6129 \def\bidi@nameedef#1{\expandafter\edef\csname #1\endcsname}
6130 \def\bidi@namexdef#1{\expandafter\xdef\csname #1\endcsname}
6131
6132 % From David Carlisle:
6133 % The \@stpelt redefinition below belongs to Heiko Oberdiek
6134 % See also https://github.com/ho-tex/oberdiek/issues/26
6135
6136 \let\@bidi@stepcounter\stepcounter
6137 \let\@bidi@@stpelt\@stpelt
6138
6139 \def\@stpelt#1{%
6140   \ifcsname bidi@reset@#1@perpage\endcsname
6141     \begingroup
6142       \let\stepcounter\@bidi@stepcounter
6143       \@bidi@@stpelt{#1}%
6144     \endgroup
6145     \expandafter\@gobbletwo
6146   \fi
6147   \@bidi@@stpelt{#1}%
6148 }
6149
6150 \bidi@pretocmd\stepcounter
6151   {%
6152     \if@bidi@csundef{\bidi@stepcounterhook@#1}{%
6153       \csname bidi@stepcounterhook@#1\endcsname
6154     }%
6155   }%
6156   {\PackageWarning{biditools}{Patching '\string\stepcounter' failed}}
6157
6158 \chardef\bidi@backslash`\\
6159 \def\bidics#1{\texttt{\char\bidi@backslash#1}}
6160
6161 % anonymous control sequences
6162 \newcount\bidi@tempcountb
6163 \newtoks\bidi@temptoksa
6164 \newtoks\bidi@temptoksb
6165

```



```

6166 % Catcode (re)storing
6167 %
6168 \def\bidistorecatcode#1%
6169   {\escapechar\m@ne
6170    \bidi@csarg\edef\bidi@restorecatcode\string#1}%
6171    {\catcode`\string#1=
6172     \the\catcode\expandafter`\string#1}%
6173    \catcode\expandafter`\string#1=12\relax
6174    \escapechar`\\relax}
6175 \def\bidi@restorecatcode#1%
6176   {\escapechar\m@ne
6177    \csname bidi@restorecatcode\string#1\endcsname
6178    \escapechar`\\relax}
6179
6180 % Construct a control sequence inside \edef
6181 %
6182 \def\bidi@csname#1{\expandafter\noexpand\csname#1\endcsname}
6183
6184 % Construct a control sequence out of #2, and give it to #1
6185 %
6186 \def\bidi@csarg#1#2{\expandafter#1\csname#2\endcsname}
6187
6188 % Pick an escapecharacter
6189 % this presumes that its argument is a character.
6190 %
6191 \def\bidi@pickescape#1{\ifnum`#1=\escapechar\else#1\fi}
6192
6193 % Equality of strings.
6194 % the fast approach: does not work in expansion-only environment.
6195 %
6196 \def\bidi@EqualString#1#2{00\fi\def\bidi@eqs@a{#1}\def\bidi@eqs@b{#2}%
6197   \ifx\bidi@eqs@a\bidi@eqs@b}
6198
6199 % Test by expansion only
6200 %
6201 \def\bidi@EqualStringX#1#2{00\fi
6202   \csname if\@bidi@EqualStringX#1&#2&\endcsname}
6203 \def\@bidi@EqualStringX#1#2$#3#4${\ifx#1#3%
6204   \ifx#1&true\else\bidi@hop@ES\@bidi@EqualStringX#2$#4$\fi
6205   \else false\fi}
6206 \def\bidi@hop@ES#1\fi#2\fi{\fi\fi#1}
6207
6208 % Lexicographic ordering
6209 % note the use of \def
6210 % also note the characters 0,127,255 that are used,
6211 % these are not supposed to appear in the strings
6212 %
6213 {\catcode0=12 \catcode255=12 \catcode127=12
6214 \gdef\bidi@StringBeforeNC#1#2{00\fi
6215   \bidi@CharsBefore#1^^@^^?#2^^ff^^?}
6216 \gdef\bidi@CharsBeforeNC#1#2^^?#3#4^^?{%
6217   \ifcat#1\relax\def\bidi@next{\bidi@CharsBefore#2^^@^^?#3#4^^ff^^?}%
6218   \else\ifcat#3\relax\def\bidi@next{\bidi@CharsBefore#1#2^^@^^?#4^^ff^^?}%
6219   \else\ifnum\lccode`#1<\lccode`#3

```



```

6220         \def\bidinext{\csname iftrue\endcsname}%
6221         \else\ifnum\lccode`#1>\lccode`#3
6222             \def\bidinext{\csname iffalse\endcsname}%
6223             \else\def\bidinext{\bidicharsbefore#2^^?#4^^?}%
6224     \fi \fi \fi \fi
6225     \bidinext}
6226 \gdef\bidistringbefore#1#2{00\fi
6227     \bidicharsbefore#1^^?#2^^ff^^?}
6228 \gdef\bidicharsbefore#1#2^^?#3#4^^?{%
6229     \ifnum`#1<`#3
6230         \def\bidinext{\csname iftrue\endcsname}%
6231     \else\ifnum`#1>`#3
6232         \def\bidinext{\csname iffalse\endcsname}%
6233     \else\def\bidinext{\bidicharsbefore#2^^?#4^^?}%
6234     \fi\fi
6235     \bidinext}
6236 }
6237
6238 % Null argument test
6239 %
6240 \def\bidiempty{}
6241 \def\bidiiempty#1{00\fi\expandafter\ifx\csname bidi@#1\endcsname\bidii@null}
6242 \def\bidiiemptyX#1{\expandafter\ifx\csname bidi@#1\endcsname\bidii@null}
6243 %\def\bidiiempty#1{\def\bidicsa{#1}\ifx\bidicsa\bidiempty}
6244 \def\bidiiemptylist#1{00\fi\def\bidicsa{#1}\ifx\csa\bidiempty}
6245
6246 % Next character test
6247 %
6248 \def\bidinextchar#1#2#3{00\fi
6249     \let\bidinxt@ch#1\def\bidinxt@a{#2}\def\bidinxt@b{#3}%
6250     \futurelet\bidinxt@c@\bidiiifnxtc}
6251 \def\bidiiifnextchar#1#2#3{%
6252     \let\bidinxt@ch#1\def\bidinxt@a{#2}\def\bidinxt@b{#3}%
6253     \futurelet\bidinxt@c@\bidiiifnxtc}
6254 \def\@bidiiifnxtc{\ifx\bidinxt@ch\bidinxt@c \expandafter\bidinxt@a
6255     \else \expandafter\bidinxt@b \fi}
6256
6257 % Test for defined-ness of string as control sequence.
6258 % works inside \edef
6259 %
6260 \def\bidiiundefinedcs#1{00\fi\bidicsarg\ifx{#1}\relax}
6261
6262 % Define uniquely defined dummy macros,
6263 % usually to serve as bumper blocks at the end of a list
6264 %
6265 \newcount\bididummies
6266 \def\DefNewDummy#1{
6267     \if\bidiiundefinedcs{#1}\bidicsarg\edef{#1}{\bididum\the\bididummies}
6268     \advance\bididummies\@ne
6269     \else
6270         \bidiierror{Attempt at second definition of `#1'}
6271     \fi}
6272
6273 % string case statement

```



```

6274 % use: \bidi@switch \iftest{...} in:
6275 %     item1 action1
6276 %     ...
6277 %     itemn actionn
6278 %     default defaultaction [optional]
6279 %     \endbidi@switch
6280 % inspired by Jonathan Fine: Some Basic Control Macros
6281 % Tugboat 12 #4
6282 %
6283 \let\@bidi@fi\fi \let\endbidi@switch\relax \DefNewDummy{bidi@default}
6284 \def\bidi@switch@exit #1 \@bidi@fi #2 \endbidi@switch {\fi #1}
6285 \def\bidi@switch #1#2#3{\bidi@csarg\ifx{#2}\bidi@default\bidi@switch@exit #3 \@bidi@fi
6286 #1{#2}\bidi@switch@exit #3 \@bidi@fi
6287 \bidi@switch {#1}
6288 }
6289 % this version puts the test object in {}
6290 \def\bidi@oswitch #1 in: #2 #3; {\bidi@csarg\ifx{#2}\bidi@default\bidi@switch@exit #3 \@bidi@fi
6291 #1{#2}\bidi@switch@exit #3 \@bidi@fi
6292 \bidi@switch #1 in:
6293 }
6294 % this version assumes that the test object is just one character
6295 \def\bidi@cswitch #1 in: #2 #3; {\bidi@csarg\ifx{#2}\bidi@default\bidi@switch@exit #3 \@bidi@fi
6296 #1#2\bidi@switch@exit #3 \@bidi@fi
6297 \bidi@cswitch #1 in:
6298 }
6299 % this version assumes that the test object can have an optional space
6300 \def\bidi@bswitch #1 in: #2 #3; {\bidi@csarg\ifx{#2}\bidi@default\bidi@switch@exit #3 \@bidi@fi
6301 #1#2 \bidi@switch@exit #3 \@bidi@fi
6302 \bidi@bswitch #1 in:
6303 }
6304 % this version can cope with significant spaces at the start of #3;
6305 % #2 is macro argument
6306 \def\bidi@mswitch #1 in: #2:#3; {\bidi@csarg\ifx{#2}\bidi@default\bidi@switch@exit #3 \@bidi@fi
6307 #1{#2}\bidi@switch@exit #3 \@bidi@fi
6308 \bidi@mswitch #1 in:
6309 }
6310 % idem; #2 does not have to be enclosed in braces
6311 \def\bidi@fswitch #1 in: #2:#3; {\bidi@csarg\ifx{#2}\bidi@default\bidi@switch@exit #3 \@bidi@fi
6312 #1#2 \bidi@switch@exit #3 \@bidi@fi
6313 \bidi@fswitch #1 in:
6314 }
6315
6316 % Routines for taking the value of a string:
6317 % if the string is defined as control sequence
6318 % take the value of that, otherwise take the string itself
6319
6320 % String or value of control sequence
6321 %
6322 \def\bidi@ww#1{\if\bidi@undefinedcs{#1}#1\else \the\csname#1\endcsname\fi}
6323
6324 % String or control sequence
6325 %
6326 \def\@bidi@ww#1{\if\bidi@undefinedcs{#1}#1\else \csname#1\endcsname \fi}
6327

```



```

6328 % String or \noexpand-ed control sequence;
6329 % for use in \edef
6330 %
6331 \newif\ifbidi@in@label
6332 \def\@bidi@w@w#1{\if\@bidi@undefinedcs{#1}#1\else
6333     \ifbidi@in@label\noexpand\protect\fi \bidi@csname{#1}\fi}
6334 \newtoks\bidi@are@these@correct
6335 \def\bidi@t@w@w#1{%
6336     \if\@bidi@undefinedcs{#1}#1%
6337     \ifdefining\bidi@append@to@list\bidi@are@these@correct{#1 }\fi
6338     \else
6339     \ifin@label\noexpand\protect\fi \bidi@csname{#1}\fi}
6340
6341 % List Manipulation .....
6342 % this assumes that #1 is a list of tokens, #2 is the name of a list
6343 %
6344 % Names of lists (and of items to pop into) are given as strings;
6345 % not as control sequences.
6346 %
6347 \newtoks\bidi@toks@lista \newtoks\bidi@toks@listb
6348 % basic append/prepend macro
6349 \long\def\@bidi@append@to@csl#1#2#3{\begingroup\bidi@toks@lista=#2{#3}%
6350 \global#1=\expandafter\expandafter\expandafter{\expandafter\the\expandafter#1\the\bidi@toks@lista}
6351 \long\def\@bidi@prepend@to@csl#1#2#3{\begingroup\bidi@toks@lista=#2{#3}%
6352 \global#1=\expandafter\expandafter\expandafter{\expandafter\the\expandafter\bidi@toks@lista}
6353 \def\@bidi@append@to@list{\bidi@csarg\@bidi@append@to@csl}
6354 \def\@bidi@prepend@to@list{\bidi@csarg\@bidi@prepend@to@csl}
6355 % variations:
6356 \long\def\bidi@append@to@list#1#2{\@bidi@append@to@list{#1}{#2}}
6357 \long\def\bidi@prepend@to@list#1#2{\@bidi@prepend@to@list{#1}{#2}}
6358 \def\bidi@append@list@to@list#1#2{%
6359     \@bidi@append@to@list{#1}{\expandafter\expandafter\expandafter{\expandafter\the\csname#2\endcsname}}
6360 \def\bidi@prepend@list@to@list#1#2{%
6361     \@bidi@prepend@to@list{#1}{\expandafter\expandafter\expandafter{\expandafter\the\csname#2\endcsname}}
6362 \def\bidi@append@csl@to@csl#1#2{%
6363     \@bidi@append@to@csl{#1}\expandafter{\the#2}}
6364 \def\bidi@prepend@csl@to@csl#1#2{%
6365     \@bidi@prepend@to@csl{#1}\expandafter{\the#2}}
6366 \def\bidi@append@toks@cs@to@list#1#2{\@bidi@append@to@list{#1}\expandafter{\the#2}}
6367 \def\bidi@prepend@toks@cs@to@list#1#2{\@bidi@prepend@to@list{#1}\expandafter{\the#2}}
6368
6369 \let\bidi@willbeunhskip\unhskip
6370
6371 % A few list macros for the user
6372 \def\NewTokenList:#1 {\bidi@csarg\newtoks{#1}\global\csname#1\endcsname{}}
6373 \def\EmptyTokenList:#1 {\global\csname#1\endcsname{}}
6374 \long\def\AppendToTokenList:#1=#2 {\@bidi@append@to@list{#1}{#2}}
6375 \long\def\PrependToTokenList:#1=#2 {\@bidi@prepend@to@list{#1}{#2}}
6376 \def\TheTokenList:#1 {\let\bidi@oldwbuskip\bidi@willbeunhskip \let\bidi@willbeunhskip\empty
6377     \if\@bidi@undefinedcs{#1}\bidi@error{Token List <#1> undefined}
6378     \else\bidi@csarg\the{#1}\fi
6379     \let\bidi@willbeunhskip\bidi@oldwbuskip}
6380
6381 \def\bidi@del@tok@from@list#1#2{\begingroup

```



```

6382 \long\def\bidics@liste##1#2##2\biditok@SM
6383 {\biditoks@lista{##1}\biditoks@listb{##2}%
6384 \edef\bidics@listb{\global\bidicsname{#1}=
6385 {\the\biditoks@lista\the\biditoks@listb}}%
6386 \bidics@listb}%
6387 \edef\bidics@lista{\noexpand\bidics@liste}\expandafter\the\csname#1\endcsname\noexpand
6388 \bidics@lista \endgroup}
6389 \def\bidicin@front@of@list#1{\bidicsarg{\let\expandafter\bidics@lista}{#1}%
6390 \bidicin@front@of@cslist\bidics@lista}
6391 \long\def\bidicin@front@of@cslist#1#2{\begingroup\biditoks@lista={#2}%
6392 \global#1=\expandafter\expandafter\expandafter{\expandafter\the\expandafter\biditoks@list
6393 \endgroup}
6394 \long\def\bidilocal@in@front@of@list#1#2{\biditoks@lista={#2}%
6395 \csname#1\endcsname\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter
6396 {\expandafter\expandafter\expandafter\the\expandafter\expandafter\expandafter
6397 \expandafter\the\csname#1\endcsname}%
6398 }
6399 \def\bidiset@list#1{\bidicsarg{\let\expandafter\bidics@lista}{#1}%
6400 \bidiset@cslist\bidics@lista}
6401 \long\def\bidiset@cslist#1#2{\begingroup\biditoks@lista={#2}%
6402 \global#1=\expandafter{\the\biditoks@lista}\endgroup}
6403
6404 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%% Stack macros
6405 %
6406 % push in terms of prepending of lists
6407 \def\bidipush@cs@onto@cs#1#2{\@bidiprep@nd@to@cslist#1\expandafter{\expandafter\bidipush@cs@onto@cs#1}}
6408 \def\bidipush@onto#1{\bidicsarg\bidipush@onto@cs{#1}}
6409 \def\bidipush@onto@cs#1#2{\@bidiprep@nd@to@cslist#1}{\{#2\}}
6410 \def\bidilocal@push@onto#1#2{\let\relax
6411 \bidilocal@in@front@of@list{#1}{\{#2\}}}
6412 % pop via auxiliary macro: #1 is result, #2 is stack
6413 % two cs arguments
6414 \def\bidipop@cs@into#1#2{\edef\bidics@e
6415 {\noexpand\@bidipop@into\noexpand#1\noexpand#2\the#2\noexpand\@bidipop}\bidics@e}
6416 % two string arguments
6417 \def\bidipop@into#1#2{\edef\bidics@e
6418 {\noexpand\@bidipop@into\bidicsname{#1}\bidicsname{#2}\bidicsarg\the{#2}\noexpand\@bidipop}}
6419 \long\def\@bidipop@into#1#2\#3#4{\@bidipop{#1}{#3}#2{#4}}
6420 \def\bidicopy@stacktop#1#2{%
6421 \edef\bidics@e{\noexpand\@bidicopy@stacktop
6422 {#1}\bidicsarg\the{#2}\noexpand\@bidipop}%
6423 \bidics@e}
6424 \def\@bidicopy@stacktop#1\#2#3{\@bidipop{\csname#1\endcsname#2\relax}
6425 \newcount\bidistack@length \newtoks\bidiempty@stack \bidiempty@stack{\{}}
6426 \def\bidilength@of@stack#1{\bidicsarg\bidilength@of@cstack{#1}}
6427 \def\bidilength@of@cstack#1{\def\advance\bidistack@length\m@ne}%
6428 \bidistack@length\m@ne \the#1}
6429 % turn a stack upside down
6430 \def\bidinvert@cstack#1{\bidilength@of@cstack{#1}%
6431 \biditempcountb\z@ \biditemptoksa\bidiempty@stack
6432 \loop\ifnum\biditempcountb<\bidistack@length
6433 \bidipop@cs@into\biditemptoksb#1\advance\bidistack@length\m@ne
6434 \bidipush@cs@onto@cs\biditemptoksa\biditemptoksb
6435 % \bidicopy@stacktop\biditemptoksb\biditemptoksa% append a to b

```



```

6436% \bidi@temptoksa\bidi@temptoksb
6437 \repeat% copy b to a
6438 #1\bidi@temptoksa \bidi@temptoksa\bidi@empty@toks}
6439% invert a stack into a list
6440 \def\bidi@x@stack@to@list#1{\bidi@length@of@stack{#1}%
6441 \bidi@tempcountb\z@ \bidi@temptoksa\bidi@empty@toks
6442 \loop\ifnum\bidi@tempcountb<\bidi@stack@length
6443 \bidi@pop@into{\bidi@temptoksb}{#1}\advance\bidi@stack@length\m@ne
6444 \bidi@append@list@to@list{\bidi@temptoksb}{\bidi@temptoksa}\repeat
6445 \csname#1\endcsname\bidi@temptoksa \bidi@temptoksa\bidi@empty@toks}
6446
6447
6448% General loop macro:
6449% \looprepeat
6450% \forvariable{<var>} \fromvalue{<start>} \bystep{<step>} \tovalue{<end>} \downtovalue{<end>}
6451% \untilcondition{<cond>} \whilecondition{<cond>}
6452% \doloopbody { <loop body> }
6453% where all control sequences in between \looprepeat and \doloopbody are optional.
6454%
6455% var: characters to form a control sequence;
6456% after \forvariable{index} you can access the loop counter as \index.
6457% This is a count register; to print it use \number\index.
6458% start,step,end: integers with obvious relations to the loop counter;
6459% start and step have a default value of 1
6460% cond: (sequence of commands ending in) any TeX \if... test.
6461%
6462% Count down instead of up with \downtovalue; the increment given in \bystep
6463% is always positive, and is added or subtracted accordingly.
6464%
6465% Tests: \untilcondition is evaluated at the end of the loop body; \whilecondition
6466% at the beginning of the loop body.
6467%
6468% Exit from middle of loop: \breaklooprepeat
6469% use this at any place in the loop; in case of a conditional use
6470% \ifsomething ... \expandafter \breaklooprepeat \fi
6471%
6472% Note that the line ends do not cause spaces in the output.
6473%
6474% Technical details:
6475% The loop body is not executed in a group: the braces are those
6476% of a token list.
6477% The 'forvariable' variable is \let to a \count register.
6478
6479
6480
6481% Auxiliary stuff
6482 \def\bidi@looprepeat@csarg#1#2{\expandafter#1\csname#2\endcsname}
6483 \def\bidi@looprepeat@csromannumeral#1{\csname #1\romannumeral\bidi@looprepeat@depth\endcsname}
6484 \def\bidi@looprepeat@csargromannumeral#1#2{\expandafter#1\csname#2\romannumeral\bidi@looprepeat@depth\endcsname}
6485
6486 \newcount\bidi@looprepeat@depth
6487 \let\endlooprepeat\relax \def\bidi@csprotect{}
6488% Trace switches may later be defined by PAC_utils
6489 \let\bidi@looprepeat@traceinit\relax \let\bidi@looprepeat@traceexit\relax

```



```

6490
6491 % Main repeatloop macro
6492 % - go to next level and allocate unique counter/toks if this is the
6493 %   first time we visit this level
6494 % - setup: gather bounds and termination conditions
6495 % - scoop up body in token list; after the assignment define and
6496 %   execute body
6497 \def\looprepeat#1\doloopbody{\bidi@looprepeat@traceinit % exit in \breakrepeatloop
6498   \advance\bidi@looprepeat@depth\@ne\relax
6499   \bidi@looprepeat@csargromannumeral\ifx\bidi@looprepeat@count\relax
6500     \bidi@looprepeat@csargromannumeral{\csname newcount\expandafter\endcsname}{\bidi@looprepe
6501     \bidi@looprepeat@csargromannumeral{\csname newtoks\expandafter\endcsname}{\bidi@looprepea
6502     \bidi@looprepeat@csargromannumeral{\csname newtoks\expandafter\endcsname}{\bidi@looprepea
6503     \bidi@looprepeat@csargromannumeral{\csname newtoks\expandafter\endcsname}{\bidi@looprepea
6504   \fi \bidi@looprepeat@zero \def\bidi@looprepeat@sign{}\def\bidi@looprepeat@comp{>}\bidi@loo
6505   \edef\bidi@looprepeat@tmp
6506     {\def\bidi@looprepeat@csargromannumeral\noexpand{\bidi@looprepeat@looprepeat}{\bidi@loop
6507   \afterassignment\bidi@looprepeat@dxbbody\bidi@looprepeat@csromannumeral{\bidi@looprepeat@tok
6508
6509 % Define and execute loop body
6510 % This is done with an \edef to construct the actual sequence
6511 \def\bidi@looprepeat@dxbbody{\bidi@looprepeat@csargromannumeral\edef{\bidi@looprepeat@body}{%
6512   \bidi@looprepeat@csargromannumeral\the{\bidi@looprepeat@wtest}%
6513   \noexpand\the\bidi@looprepeat@csargromannumeral\noexpand{\bidi@looprepeat@toks}%
6514   \bidi@looprepeat@csargromannumeral\the{\bidi@looprepeat@utest}%
6515   \global\bidi@looprepeat@csargromannumeral\advance{\bidi@looprepeat@count} by \bidi@loopre
6516   \noexpand\endlooprepeat
6517   \bidi@looprepeat@csargromannumeral\noexpand{\bidi@looprepeat@looprepeat}}}%
6518 \bidi@looprepeat@csromannumeral{\bidi@looprepeat@body}\ignorespaces}
6519
6520 % Stop test
6521 %% In order to stop, issue a
6522 % \breaklooprepeat which scoops up the rest of the body and exits
6523 \def\breaklooprepeat#1\endlooprepeat{\bidi@looprepeat@zero\bidi@looprepeat@csargromannumeral
6524   \advance\bidi@looprepeat@depth\m@ne \bidi@looprepeat@traceexit
6525 }
6526
6527
6528 % Setup
6529 % gather bounds and termination conditions
6530 \def\bidi@looprepeat@setup#1{%
6531   \begingroup
6532     \def\forvariable##1{%
6533       \edef\bidi@looprepeat@tmp{%
6534         \global\let\bidi@looprepeat@csarg\noexpand{##1}\bidi@looprepeat@csromannumeral{\bidi@
6535         \bidi@looprepeat@tmp}%
6536       \def\fromvalue##1{\bidi@looprepeat@csargromannumeral\global{\bidi@looprepeat@count}##1\ig
6537       \def\tovalue##1{%
6538         \edef\bidi@looprepeat@tmp{\global\bidi@looprepeat@csargromannumeral\noexpand{\bidi@loop
6539         {\bidi@looprepeat@csargromannumeral\the{\bidi@looprepeat@wtest}%
6540         \noexpand\ifnum\bidi@looprepeat@csargromannumeral\noexpand{\bidi@looprepeat@count}\bi
6541         \noexpand\expandafter \noexpand\breaklooprepeat
6542         \noexpand\fi}\ignorespaces}%
6543       \bidi@looprepeat@tmp}%

```



```

6544 \def\downtovalue##1{%
6545 \gdef\bidi@looprepeat@sign{-}\gdef\bidi@looprepeat@comp{<}\tovalue{##1}\ignorespaces}%
6546 \def\bystep##1{\ifnum##1<0 \bidi@error{LOOPREPEAT: increment has to be a positive value}
6547 \bidi@looprepeat@csargromannumeral\gdef\bidi@looprepeat@inc}{-##1}\else
6548 \bidi@looprepeat@csargromannumeral\gdef\bidi@looprepeat@inc}{##1}\fi\ignorespaces}%
6549 \def\untilcondition##1{%
6550 \edef\bidi@looprepeat@tmp{\global\bidi@looprepeat@csargromannumeral\noexpand\bidi@loop
6551 {noexpand##1\relax
6552 \noexpand\expandafter \noexpand\breaklooprepeat \noexpand\fi}\ignorespaces}%
6553 \bidi@looprepeat@tmp}%
6554 \def\whilecondition##1{%
6555 \edef\bidi@looprepeat@tmp{\global\bidi@looprepeat@csargromannumeral\noexpand\bidi@loop
6556 {noexpand##1\relax \noexpand\else
6557 \noexpand\expandafter \noexpand\breaklooprepeat \noexpand\fi}\ignorespaces}%
6558 \bidi@looprepeat@tmp}%
6559 \fromvalue{\@ne}\bystep{\@ne}#1%
6560 \endgroup}
6561 \def\bidi@looprepeat@zero
6562 {\bidi@looprepeat@csromannumeral\bidi@looprepeat@toks}{\bidi@looprepeat@csromannumeral{b
6563 \bidi@looprepeat@csargromannumeral\def\bidi@looprepeat@body}{}}
6564
6565 %\tracingmacros2
6566 %\newcount\tmpcount % used in some examples below
6567
6568 %\looprepeat \forvariable{i}
6569 % \bystep{2}
6570 % \doloopbody {%
6571 % \ifnum\i=13 \expandafter\breaklooprepeat \fi
6572 % \number{i} } %
6573 %}%
6574
6575 %\looprepeat \forvariable{iii}
6576 % \tovalue{8}
6577 % \doloopbody {}
6578 %After loop: \number{iii}%
6579
6580 %\looprepeat \forvariable{i}
6581 % \fromvalue{10}
6582 % \bystep{2}
6583 % \downtovalue{0}
6584 % \doloopbody {\number{i} }
6585
6586 %\looprepeat \forvariable{x} \whilecondition{\ifnum x<7}
6587 % \doloopbody {\number{x} }
6588
6589 %\looprepeat \tovalue{3} \doloopbody {Hello world! }
6590
6591 %\looprepeat \forvariable{j}
6592 % \untilcondition{\tmpcount=j \divide\tmpcount by 37 \noexpand\ifnum\tmpcount=1}
6593 % \doloopbody {\number{j} }
6594
6595 %\looprepeat \forvariable{i} \bystep{2} \tovalue{10} \doloopbody
6596 % {\looprepeat \forvariable{j} \fromvalue{i} \bystep{3} \tovalue{18}
6597 % \doloopbody {(\number{i}.\number{j}) }

```



```

6598% }
6599
6600% infinite loop
6601%\looprepeat \doloopbody {}
6602
6603 \renewcommand{\InputIfFileExists}[2]{%
6604   \begingroup\expandafter\expandafter\expandafter\endgroup
6605   \expandafter\ifx\csname #1-@bidi@alias\endcsname\relax
6606     \expandafter\@secondoftwo
6607   \else
6608     \bidi@replacefile@msg{\csname #1-@bidi@alias\endcsname}{#1}%
6609     \expandafter\@firstoftwo
6610   \fi
6611   {%
6612     \expandafter\InputIfFileExists\expandafter{\csname
6613       #1-@bidi@alias\endcsname}{#2}%
6614   }%
6615   {\IfFileExists{#1}{%
6616     \bidi@load@hook{before}{#1}%
6617     #2\@addtofilelist{#1}%
6618     \@input \@filef@und
6619     \bidi@load@hook{after}{#1}%
6620   }}%
6621 }
6622
6623 \newcommand*{\bidi@loadwithoptions}{%
6624 \newcommand*{\bidi@loadwithoptions}{%
6625 \let\bidi@loadwithoptions\@loadwithoptions
6626
6627 \renewcommand*{\@loadwithoptions}[3]{%
6628   \begingroup\expandafter\expandafter\expandafter\endgroup
6629   \expandafter\ifx\csname #3.#1-@bidi@aliasname\endcsname\relax
6630     \def\bidi@loadwithoptions{\bidi@loadwithoptions{#1}{#2}{#3}}%
6631   \else
6632     \bidi@replacefile@msg{\csname #3.#1-@bidi@aliasname\endcsname.#1}{#3.#1}%
6633     \def\bidi@loadwithoptions{%
6634       \loadwithoptions{#1}{#2}{\csname #3.#1-@bidi@aliasname\endcsname}%
6635     }%
6636   \fi
6637   \bidi@loadwithoptions
6638 }
6639
6640 \newcommand*{\bidi@onefilewithoptions}{%
6641 \let\bidi@onefilewithoptions\@onefilewithoptions
6642 \def\@onefilewithoptions#1[#2][#3]#4{%
6643   \begingroup\expandafter\expandafter\expandafter\endgroup
6644   \expandafter\ifx\csname #1.#4-@bidi@aliasname\endcsname\relax
6645     \def\bidi@onefilewithoptions{\bidi@onefilewithoptions{#1}}%
6646   \else
6647     \bidi@replacefile@msg{\csname #1.#4-@bidi@aliasname\endcsname.#4}{#1.#4}%
6648     \edef\bidi@onefilewithoptions{%
6649       \noexpand\@onefilewithoptions{\csname #1.#4-@bidi@aliasname\endcsname}}%
6650   \fi
6651   \bidi@onefilewithoptions[#{#2}][#{#3}]{#4}%

```



```

6652 \bidi@load@hook{lateafter}{#1.#4}%
6653 }
6654
6655 \newcommand*{\bidi@ReplaceInput}[2]{%
6656 \expandafter\edef\csname #1-@bidi@alias\endcsname{#2}%
6657 }
6658
6659 \newcommand*{\bidi@UnReplaceInput}[1]{%
6660 \ifcsname #1-@bidi@alias\endcsname
6661 \expandafter\let\csname #1-@bidi@alias\endcsname\relax
6662 \fi
6663 }
6664
6665 \newcommand*{\@bidi@replacefilewithext}[3]{%
6666 \expandafter\edef\csname #1.#3-@bidi@aliasname\endcsname{#2}%
6667 }
6668 \newcommand*{\bidi@ReplacePackage}[2]{%
6669 \@bidi@replacefilewithext{#1}{#2}\@pkgextension
6670 }
6671 \newcommand*{\bidi@ReplaceClass}[2]{%
6672 \@bidi@replacefilewithext{#1}{#2}\@clsextension
6673 }
6674 \newcommand*{\@bidi@unreplacefilewithext}[2]{%
6675 \ifcsname #1.#2-@bidi@aliasname\endcsname
6676 \expandafter\let\csname #1.#2-@bidi@aliasname\endcsname\relax
6677 \fi
6678 }
6679 \newcommand*{\bidi@UnReplacePackage}[1]{%
6680 \@bidi@unreplacefilewithext{#1}\@pkgextension
6681 }
6682 \newcommand*{\bidi@UnReplaceClass}[1]{%
6683 \@bidi@unreplacefilewithext{#1}\@clsextension
6684 }
6685 \newcommand*{\bidi@replacefile@msg}[2]{%
6686 \PackageInfo{biditools}{inputing `#1' instead of `#2'}%
6687 }
6688
6689 \newcommand*{\bidi@load@hook}[2]{%
6690 \@ifundefined{#2-@#1}{-%
6691 \nameuse{#2-@#1}%
6692 \expandafter\let\csname #2-@#1\endcsname=\relax}}
6693 \newcommand*{\bidi@set@load@hook}[2]{%
6694 \@ifundefined{#2-@#1}{\@namedef{#2-@#1}{}}{-%
6695 \expandafter\g@addto@macro\csname #2-@#1\endcsname}
6696 \newcommand*{\bidi@BeforeFile}{\bidi@set@load@hook{before}}
6697 \newcommand*{\bidi@AfterFile}{\bidi@set@load@hook{after}}
6698 \newcommand*{\bidi@BeforeClass}[1]{%
6699 \bidi@set@load@hook{before}{#1.\@clsextension}}
6700 \newcommand*{\bidi@AfterClass}{%
6701 \@ifstar {\@s@bidi@AfterClass}{%
6702 \ifnextchar +\@@bidi@AfterClass{%
6703 \ifnextchar !\@@@bidi@AfterClass\bidi@AfterClass
6704 }%
6705 }%

```



```

6706 }
6707
6708 \newcommand*{\@@@bidi@AfterClass}[2]{%
6709   \begingroup\ifx\csname #2.\@clsextension-h@@k\endcsname\relax
6710     \aftergroup\@s@bidi@AfterClass
6711   \else
6712     \aftergroup\bidi@AfterAtEndOfClass
6713   \fi
6714   \endgroup{#2}%
6715 }
6716
6717 \newcommand*{\bidi@AfterAtEndOfClass}[1]{%
6718   \bidi@set@load@hook{lateafter}{#1.\@clsextension}}
6719 \newcommand*{\@@@bidi@AfterClass}[2]{%
6720   \begingroup
6721     \expandafter\ifx\csname #2.\@clsextension-h@@k\endcsname\relax
6722       \aftergroup\@s@bidi@AfterClass
6723     \else
6724       \aftergroup\bidi@AfterClass
6725     \fi
6726     \endgroup{#2}%
6727 }
6728
6729 \newcommand*{\@bidi@AfterClass}[1]{%
6730   \bidi@set@load@hook{after}{#1.\@clsextension}}
6731 \newcommand*{\@s@bidi@AfterClass}[1]{%
6732   \begingroup
6733     \@ifclassloaded{#1}{%
6734       \aftergroup\@secondoftwo
6735     }{%
6736       \aftergroup\bidi@AfterClass
6737     }%
6738   \endgroup
6739   {#1}%
6740 }
6741
6742
6743 \newcommand*{\bidi@BeforePackage}[1]{%
6744   \bidi@set@load@hook{before}{#1.\@pkgextension}}
6745 \newcommand*{\bidi@AfterPackage}{%
6746   \ifstar {\@s@bidi@AfterPackage}{%
6747     \ifnextchar +\@@@bidi@AfterPackage{%
6748       \ifnextchar !\@@@bidi@AfterPackage\bidi@AfterPackage
6749     }%
6750   }%
6751 }
6752 \newcommand*{\@@@bidi@AfterPackage}[2]{%
6753   \begingroup\ifx\csname #2.\@pkgextension-h@@k\endcsname\relax
6754     \aftergroup\@s@bidi@AfterPackage
6755   \else
6756     \aftergroup\bidi@AfterAtEndOfPackage
6757   \fi
6758   \endgroup{#2}%
6759 }

```



```

6760 \newcommand*{\bidi@AfterAtEndOfPackage}[1]{%
6761   \bidi@set@load@hook{lateafter}{#1.\@pkgextension}}
6762 \newcommand*{\@bidi@AfterPackage}[2]{%
6763   \beginingroup
6764     \expandafter\ifx\csname #2.\@pkgextension-h@@k\endcsname\relax
6765     \aftergroup\@s@bidi@AfterPackage
6766   \else
6767     \aftergroup\@bidi@AfterPackage
6768   \fi
6769   \endgroup{#2}}%
6770 }
6771 \newcommand*{\@bidi@AfterPackage}[1]{%
6772   \bidi@set@load@hook{after}{#1.\@pkgextension}}
6773 \newcommand*{\@s@bidi@AfterPackage}[1]{%
6774   \beginingroup
6775     \@ifpackageloaded{#1}{%
6776       \aftergroup\@secondoftwo
6777     }{%
6778       \aftergroup\@bidi@AfterPackage
6779     }%
6780   \endgroup
6781   {#1}}%
6782 }
6783
6784 \newcommand*{\bidi@excludedpackages}{%
6785   \let\bidi@excludedpackages\@empty
6786 \newcommand*{\bidi@samed@RequirePackage}{%
6787 \newcommand*{\bidi@PreventPackageFromLoading}{%
6788   \@ifstar{\@bidi@PreventPackageFromLoading\PackageInfo}%
6789   {\@bidi@PreventPackageFromLoading\PackageWarning}%
6790 }
6791 \newcommand*{\@bidi@PreventPackageFromLoading}[1]{%
6792   \@ifnextchar [%]
6793     {\@bidi@PreventPackageFromLoading#1}{\@bidi@PreventPackageFromLoading#1 []}%
6794 }
6795 \newcommand*{\@bidi@PreventPackageFromLoading}{%
6796
6797 \def\@bidi@PreventPackageFromLoading#1[#2]#3{%
6798   \edef\reserved@b{\zap@space#3 \@empty}%
6799   \ifx \reserved@b\@empty
6800     #1{\biditytools}{%
6801       \string\bidi@PreventPackageFromLoading\space with empty packages\MessageBreak
6802       argument ignored%
6803     }%
6804   \else
6805     \ifx\bidi@excludedpackages\@empty
6806       \let\bidi@samed@RequirePackage\RequirePackage
6807       \let\RequirePackage\bidi@RequirePackage
6808       \def\reserved@a##1##{%
6809         \@latex@error
6810         {\noexpand \usepackage before \string\documentclass}%
6811         {\noexpand \usepackage may only appear in the document
6812          preamble, i.e.,\MessageBreak
6813          between \noexpand\documentclass and

```



```

6814         \string\begin{document}.}%
6815         \@gobble}%
6816     \ifx\reserved@a\usepackage\else
6817         \ifx\usepackage\bid@saved@RequirePackage\else
6818             \PackageWarning{biditools}{%
6819                 Maybe serious problem: unexpected definition of\MessageBreak
6820                 \string\usepackage
6821             }%
6822         \fi
6823         \let\usepackage\RequirePackage
6824     \fi
6825 \fi
6826 \expandafter\@for \expandafter\reserved@a\expandafter:\expandafter=%
6827 \reserved@b\do {%
6828     \ifx\reserved@a\@empty
6829         #1{biditools}{%
6830             empty package argument for
6831             \string\bid@PreventPackageFromLoading\MessageBreak
6832             ignored%
6833         }%
6834     \else
6835         \expandafter\@ifpackageloaded\expandafter{\reserved@a}{%
6836             #1{biditools}{%
6837                 package `\'reserved@a' already loaded.\MessageBreak
6838                 Cannot prevent it from being loaded%
6839             }%
6840         }{%
6841             \edef\bid@excludedpackages{\bid@excludedpackages,%
6842                 \reserved@a}%
6843             \if\relax\detokenize{#2}\relax\else
6844                 \@ifundefined{bid@exclude@package@\reserved@a @do}{%
6845                     \@namedef{bid@exclude@package@\reserved@a @do}{}%
6846                 }{%
6847                     \expandafter\def
6848                     \csname bid@exclude@package@\reserved@a
6849                         @do\expandafter\expandafter\expandafter\endcsname
6850                     \expandafter\expandafter\expandafter{%
6851                         \csname bid@exclude@package@\reserved@a @do\endcsname
6852                         #2%
6853                     }%
6854                 \fi
6855             }%
6856         \fi
6857     }%
6858     \ifx\bid@excludedpackages\@empty
6859         \bid@ResetPreventPackageFromLoading
6860     \fi
6861 \fi
6862 }
6863
6864 \@onlypreamble\bid@PreventPackageFromLoading
6865 \newcommand*{\bid@ResetPreventPackageFromLoading}{%
6866     \let\bid@excludedpackages\@empty
6867     \ifx\RequirePackage\bid@RequirePackage

```



```

6868 \ifx\usepackage\RequirePackage
6869 \let\usepackage\bidid@saved@RequirePackage
6870 \fi
6871 \let\RequirePackage\bidid@saved@RequirePackage
6872 \fi
6873 }
6874 \@onlypreamble\bidid@ResetPreventPackageFromLoading
6875 \newcommand*{\bidid@StorePreventPackageFromLoading}[1]{%
6876 \let#1\bidid@excludedpackages
6877 }
6878 \@onlypreamble\bidid@StorePreventPackageFromLoading
6879 \newcommand*{\bidid@UnPreventPackageFromLoading}{%
6880 \@ifstar {\@tempswatrue\@bidid@UnPreventPackageFromLoading}%
6881 {\@tempswafalse\@bidid@UnPreventPackageFromLoading}%
6882 }
6883
6884 \newcommand*{\@bidid@UnPreventPackageFromLoading}[1]{%
6885 \edef\reserved@b{\zap@space#1 \@empty}%
6886 \if@tempswa
6887 \@for\reserved@a=\reserved@b\do {%
6888 \ifx\reserved@a\@empty \else
6889 \ifcsname bidid@exclude@package@\reserved@a @do\endcsname
6890 \expandafter\let
6891 \csname bidid@exclude@package@\reserved@a @do\endcsname
6892 \undefined
6893 \fi
6894 \fi
6895 }%
6896 \fi
6897 \ifcsname bidid@excludedpackages\endcsname
6898 \let\reserved@a\bidid@excludedpackages
6899 \let\bidid@excludedpackages\@empty
6900 \expandafter\@for\expandafter\reserved@c
6901 \expandafter:\expandafter=\reserved@a
6902 \do{%
6903 \ifx\reserved@c\@empty\else
6904 \@expandtwoargs\in@{\,\reserved@c,}{\,\reserved@b,}%
6905 \ifin@
6906 \else
6907 \edef\bidid@excludedpackages{%
6908 \bidid@excludedpackages,\reserved@c
6909 }%
6910 \fi
6911 \fi
6912 }%
6913 \ifx\bidid@excludedpackages\@empty\bidid@ResetPreventPackageFromLoading\fi
6914 \fi
6915 }
6916
6917
6918 \newcommand*{\bidid@RequirePackage}[2][ ]{%
6919 \let\reserved@c\@empty
6920 \let\reserved@d\@empty
6921 \edef\reserved@b{\zap@space#2 \@empty}%

```



```

6922 \expandafter\@for\expandafter\reserved@b\expandafter:\expandafter=\reserved@b
6923 \do {%
6924   \begingroup
6925     \@tempswatrue
6926     \@for\reserved@a:=\bidi@excludedpackages\do {%
6927       \ifx\reserved@a\reserved@b
6928         \@tempswafalse
6929       \fi
6930     }%
6931   \if@tempswa
6932     \xdef\reserved@c{\reserved@c,\reserved@b}%
6933   \else
6934     \ifx\reserved@b\@empty\else
6935       \PackageInfo{biditools}{Excluding package `~\reserved@b'\MessageBreak
6936         from loading}%
6937       \@ifundefined{bidi@exclude@package@\reserved@b @do}{%
6938         }{%
6939           \expandafter\g@addto@macro\expandafter\reserved@d
6940           \csname bidi@exclude@package@\reserved@b @do\endcsname
6941         }%
6942       \fi
6943     \fi
6944   \endgroup
6945 }%
6946 \ifx\reserved@c\@empty
6947   \let\reserved@a\bidi@gobbleopt
6948 \else
6949   \edef\reserved@a{\noexpand\bidi@samed@RequirePackage[#1]{%
6950     \expandafter\@gobble\reserved@c\@empty}}%
6951 \fi
6952 \expandafter\reserved@d
6953 \reserved@a
6954 }
6955
6956 \newcommand{\bidi@gobbleopt}[1][{}]{%
6957 \AtEndDocument{%
6958   \let\bidi@samed@checkend=\@checkend
6959   \renewcommand*{\@checkend}[1]{%
6960     \def\reserved@a{#1}\def\reserved@b{document}%
6961     \bidi@samed@checkend{#1}%
6962     \ifx\reserved@a\reserved@b
6963       \let\bidi@samed@clearpage=\clearpage
6964       \renewcommand*{\clearpage}{\bidi@samed@clearpage
6965         \bidi@hook@bcma
6966         \bidi@restore@newpage
6967         \let\clearpage=\bidi@samed@clearpage}%
6968     \fi%
6969     \let\bidi@samed@dofilelist\@dofilelist
6970     \def\@dofilelist{%
6971       \bidi@hook@acma
6972       \let\@dofilelist\bidi@samed@dofilelist
6973       \bidi@samed@dofilelist
6974     }%
6975   }%

```



```

6976 }
6977
6978
6979 \newcommand*{\bidi@saved@checkend}{%
6980 \newcommand*{\bidi@saved@dofilelist}{%
6981 \newcommand*{\bidi@redefine@newpage}{%
6982   \let\bidi@saved@newpage\newpage
6983   \def\bidi@restore@newpage{%
6984     \renewcommand*{\newpage}{%
6985       \PackageWarningNoLine{%
6986         biditools%
6987       }{%
6988         \string\newpage\space at main aux file!\MessageBreak
6989         You have output material at the main aux file.\MessageBreak
6990         Note, that the \string\bidi@BeforeClosingMainAux\space commands\MessageBreak
6991         are processed before the output from aux file%
6992       }%
6993       \let\newpage\bidi@saved@newpage
6994       \newpage
6995     }%
6996   }%
6997   \renewcommand*{\newpage}{%
6998     \PackageError{%
6999       biditools%
7000     }{%
7001       \string\newpage\space at \string\bidi@BeforeClosingMainAux
7002     }{%
7003       You should never use \string\newpage\space or
7004       \string\clear(double)page or other output material at the\MessageBreak
7005       argument of \string\bidi@BeforeClosingMainAux!\MessageBreak
7006       If you'll continue, the \string\newpage\space will be ignored to
7007       avoid corruption of\MessageBreak
7008       every prior use of \string\bidi@BeforeClosingMainAux.
7009     }%
7010   }%
7011 }
7012
7013 \newcommand*{\bidi@restore@newpage}{%
7014 \newcommand*{\bidi@hook@bcma}{%
7015 \newcommand*{\bidi@hook@acma}{%
7016 \newcommand*{\bidi@BeforeClosingMainAux}{%
7017   \ifx\bidi@hook@bcma\@empty
7018     \gdef\bidi@hook@bcma{%
7019       \renewcommand*{\bidi@BeforeClosingMainAux}[1]{####1}%
7020       \let\protected@write\bidi@protected@immediate@write
7021       \bidi@redefine@newpage
7022     }%
7023   \fi
7024   \g@addto@macro\bidi@hook@bcma%
7025 }
7026
7027 \newcommand*{\bidi@AfterReadingMainAux}{%
7028   \ifx\bidi@hook@acma\@empty
7029     \gdef\bidi@hook@acma{%

```



```

7030     \renewcommand*{\bidi@AfterReadingMainAux}[1]{####1}%
7031     \let\protected@write\bidi@protected@immediate@write
7032   }%
7033   \fi
7034   \g@addto@macro\bidi@hook@acma%
7035 }
7036
7037 \long\def\bidi@protected@immediate@write#1#2#3{%
7038   \begingroup
7039     #2%
7040     \let\protect\@unexpandable@protect
7041     \edef\reserved@a{\immediate\write#1{#3}}%
7042     \reserved@a
7043   \endgroup
7044   \if@nobreak\ifvmode\nobreak\fi\fi
7045 }
7046
7047 \def\bidi@patch@counter{0}%
7048 \if@bidi@csundef{numexpr}{%
7049   \def\bidi@patch@stepcounter{%
7050     \begingroup
7051       \count@\bidi@patch@counter\relax
7052       \advance\count@\@ne\relax
7053     \edef\x{\endgroup
7054       \noexpand\def\noexpand\bidi@patch@counter{\the\count@}%
7055     }%
7056     \x
7057   }%
7058 }{%
7059   \def\bidi@patch@stepcounter{%
7060     \edef\bidi@patch@counter{%
7061       \the\numexpr\bidi@patch@counter+\@ne\relax
7062     }%
7063   }%
7064 }
7065 \def\bidi@patch@list{}
7066 \def\bidi@patch@Add{%
7067   \bidi@appto\bidi@patch@list
7068 }
7069 \def\bidi@patch@AfterPackage#1{%
7070   \@ifpackageloaded{#1}{%
7071     \@firstofone
7072   }{%
7073     \@bidi@patch@AfterPackage{#1}%
7074   }%
7075 }
7076 \def\@bidi@patch@AfterPackage#1{%
7077   \edef\bidi@patch@temp{#1}%
7078   \bidi@patch@stepcounter
7079   \expandafter\bidi@patch@@AfterPackage
7080   \csname @bidi@patch@\bidi@patch@counter\expandafter\endcsname{%
7081     \bidi@patch@temp
7082   }%
7083 }

```



```

7084 \def\bidipatch@@AfterPackage#1#2#3{%
7085   \begingroup
7086     \toks@{#3}%
7087     \xdef\bidipatch@gtemp{%
7088       \noexpand\@ifpackageloaded{#2}{%
7089         \noexpand\let\noexpand#1\noexpand\relax
7090         \the\toks@
7091       }{}%
7092     }%
7093   \endgroup
7094   \let#1\bidipatch@gtemp
7095   \bidipatch@Add#1%
7096   \bidipatch@try{\bidipatch@AfterPackage}{#2}#1%
7097 }
7098
7099 \def\bidipatch@try#1#2#3{%
7100   \if@bidi@csundef{#1}{}{%
7101     \csname #1\endcsname{#2}{#3}%
7102   }%
7103 }
7104
7105 \AtBeginDocument{\bidipatch@list}
7106
7107 \bidi@AtEndPreamble{\bidipatch@list}%
7108
7109 \bidi@AfterEndPreamble{%
7110   \let\bidipatch@OrgIfPackageLoaded\@ifpackageloaded
7111   \let\bidipatch@OrgIfPackageLater\@ifpackagelater
7112   \let\bidipatch@OrgIfClassLoaded\@ifclassloaded
7113   \let\bidipatch@OrgIfClassLater\@ifclasslater
7114   \bidipatch@list
7115   \let\@ifpackageloaded\bidipatch@OrgIfPackageLoaded
7116   \let\@ifpackagelater\bidipatch@OrgIfPackageLater
7117   \let\@ifclassloaded\bidipatch@OrgIfClassLoaded
7118   \let\@ifclasslater\bidipatch@OrgIfClassLater
7119 }%

```

## 53 File `bidituftefloat.sty`

```

7120 \NeedsTeXFormat{LaTeX2e}
7121 \ProvidesPackage{bidituftefloat}[2017/05/19 v0.2
7122 bidi implementation of tufte float]
7123 \RequirePackage{xifthen}
7124 \newcommand{\@bidituftefloat@pkgname}{bidituftefloat}
7125 \newcommand{\bidituftefloatError}[2]{\PackageError{\@bidituftefloat@pkgname}{#1}{#2}}
7126 \newcommand{\bidituftefloatDebugInfoNL}[1]{\ifthenelse{\boolean{@bidituftefloat@debug}}{\bid
7127 \newcommand{\bidituftefloatInfoNL}[1]{\PackageInfo{\@bidituftefloat@pkgname}{#1\@gobble}}
7128 \newboolean{@bidituftefloat@reversegeometry}
7129 \setboolean{@bidituftefloat@reversegeometry}{false}
7130 \DeclareOption{reversegeometry}{\setboolean{@bidituftefloat@reversegeometry}{true}}
7131 \newboolean{@bidituftefloat@afourpaper}
7132 \DeclareOption{a4paper}{\setboolean{@bidituftefloat@afourpaper}{true}}
7133 \newboolean{@bidituftefloat@bfivepaper}
7134 \DeclareOption{b5paper}{\setboolean{@bidituftefloat@bfivepaper}{true}}

```



```

7135 \newboolean{@bidituftefloat@symmetric}
7136 \newboolean{@bidituftefloat@twoside}
7137 \DeclareOption{twoside}{%
7138 \@twoside>true \mparswitchtrue%
7139 \setboolean{@bidituftefloat@twoside}{true}%
7140 \setboolean{@bidituftefloat@symmetric}{true}%
7141 }
7142 \DeclareOption{oneside}{%
7143 \@twoside>false \mparswitchfalse%
7144 \setboolean{@bidituftefloat@twoside}{false}%
7145 \setboolean{@bidituftefloat@symmetric}{false}%
7146 }
7147 \ifclassloaded{book}{\ExecuteOptions{twoside}}{}
7148 \newboolean{@bidituftefloat@debug}
7149 \newcommand*{\@bidituftefloat@caption@justification}{\@bidituftefloat@justification@autodetect}
7150 \ProcessOptions
7151 %% Globally sets the length
7152 \newcommand*{\gsetlength}[2]{%
7153 \setlength{#1}{#2}%
7154 \global#1=#1\relax%
7155 }
7156
7157 %% Set the font sizes and baselines to match bidituftefloat's books
7158 \renewcommand\normalsize{%
7159 \setfontsize\normalsize\@xpt{14}%
7160 \abovedisplayskip 10\p@ \@plus2\p@ \@minus5\p@
7161 \abovedisplayshortskip \z@ \@plus3\p@
7162 \belowdisplayshortskip 6\p@ \@plus3\p@ \@minus3\p@
7163 \belowdisplayskip \abovedisplayskip
7164 \let\@listi\@listI}
7165 \normalbaselineskip=14pt
7166 \normalsize
7167 \renewcommand\footnotesize{%
7168 \setfontsize\footnotesize\@viipt{10}%
7169 \abovedisplayskip 6\p@ \@plus2\p@ \@minus4\p@
7170 \abovedisplayshortskip \z@ \@plus\p@
7171 \belowdisplayshortskip 3\p@ \@plus\p@ \@minus2\p@
7172 \def\@listi{\leftmargin\leftmarginI
7173 \topsep 3\p@ \@plus\p@ \@minus\p@
7174 \parsep 2\p@ \@plus\p@ \@minus\p@
7175 \itemsep \parsep}%
7176 \belowdisplayskip \abovedisplayskip
7177 }
7178 %% Paragraph indentation and separation for marginal text
7179 \newcommand{\@bidituftefloat@margin@par}{%
7180 \setlength{\RaggedRightParindent}{0.5pc}%
7181 \setlength{\JustifyingParindent}{0.5pc}%
7182 \setlength{\parindent}{0.5pc}%
7183 \setlength{\parskip}{0pt}%
7184 }
7185 \RequirePackage{ragged2e}
7186 \ifthenelse{\boolean{@bidituftefloat@reversegeometry}}{%
7187 \RequirePackage[letterpaper,right=1in,top=1in,headsep=2\baselineskip,textwidth=26pc,marginpaper]{geometry}
7188 \ifthenelse{\boolean{@bidituftefloat@a4paper}}{

```



```

7189 {\geometry{a4paper,right=24.8mm,top=27.4mm,headsep=2\baselineskip,textwidth=107mm,marginpar
7190 {}
7191 \ifthenelse{\boolean{@biditytfloat@bfivepaper}}
7192 {\geometry{paperwidth=176mm,paperheight=250mm,right=14.66mm,top=13.88mm,textwidth=102.66mm
7193 {}}%
7194 \RequirePackage[letterpaper,left=1in,top=1in,headsep=2\baselineskip,textwidth=26pc,marginpar
7195 \ifthenelse{\boolean{@biditytfloat@afourpaper}}
7196 {\geometry{a4paper,left=24.8mm,top=27.4mm,headsep=2\baselineskip,textwidth=107mm,marginpar
7197 {}
7198 \ifthenelse{\boolean{@biditytfloat@bfivepaper}}
7199 {\geometry{paperwidth=176mm,paperheight=250mm,left=14.66mm,top=13.88mm,textwidth=102.66mm,
7200 {}
7201 \ifthenelse{\boolean{@biditytfloat@symmetric}}
7202 {}
7203 {\geometry{asymmetric}}}% forces internal LaTeX `twoside'
7204 \setlength\marginparpush{10pt}
7205 %% Font for margin items
7206 \newcommand{\@biditytfloat@marginfont}{\normalfont\footnotesize}
7207 \newcommand*{\@biditytfloat@caption@font}{\@biditytfloat@marginfont}
7208 \newcommand*{\setcaptionfont}[1]{\renewcommand*{\@biditytfloat@caption@font}{#1}}
7209 \newcommand{\@biditytfloat@justification}{\justifying}%
7210 \setlength\abovedisplayskip{6pt plus 2pt minus 4pt}
7211 \setlength\belowdisplayskip{6pt plus 2pt minus 4pt}
7212 \newboolean{@biditytfloat@changepage}
7213 \IfFileExists{changepage.sty}{%
7214 \biditytfloatDebugInfoNL{Found changepage.sty}
7215 \RequirePackage[strict]{changepage}
7216 \setboolean{@biditytfloat@changepage}{true}
7217 }{%
7218 \biditytfloatDebugInfoNL{Found chngpage.sty}
7219 \RequirePackage[strict]{chngpage}
7220 \setboolean{@biditytfloat@changepage}{false}
7221 }
7222 \newboolean{@biditytfloat@odd@page}
7223 \setboolean{@biditytfloat@odd@page}{true}
7224 \newcommand*{\@biditytfloat@checkoddpage}{%
7225 \checkoddpage%
7226 \ifthenelse{\boolean{@biditytfloat@changepage}}{%
7227 \ifoddpage%
7228 \setboolean{@biditytfloat@odd@page}{true}%
7229 \else%
7230 \setboolean{@biditytfloat@odd@page}{false}%
7231 \fi%
7232 }{%
7233 \ifcpoddpage%
7234 \setboolean{@biditytfloat@odd@page}{true}%
7235 \else%
7236 \setboolean{@biditytfloat@odd@page}{false}%
7237 \fi%
7238 }%
7239 }
7240 \newlength{\@biditytfloat@overhang}% used by the fullwidth environment and the running head
7241 \newlength{\@biditytfloat@fullwidth}
7242 \newlength{\@biditytfloat@caption@fill}

```



```

7243 \newcommand{\biditytfloatRecalculate}{%
7244   \setlength{\@biditytfloat@overhang}{\marginparwidth}
7245   \addtolength{\@biditytfloat@overhang}{\marginparsep}
7246
7247   \setlength{\@biditytfloat@fullwidth}{\textwidth}
7248   \addtolength{\@biditytfloat@fullwidth}{\marginparsep}
7249   \addtolength{\@biditytfloat@fullwidth}{\marginparwidth}
7250
7251   \setlength{\@biditytfloat@caption@fill}{\textwidth}
7252   \addtolength{\@biditytfloat@caption@fill}{\marginparsep}
7253 }
7254 \AtBeginDocument{\biditytfloatRecalculate}
7255 \RequirePackage{optparams}% provides multiple optional arguments for commands
7256 \RequirePackage{placeins}
7257 \newsavebox{\@biditytfloat@margin@floatbox}
7258 \newenvironment{@biditytfloat@margin@float}[2][-1.2ex]%
7259   {\FloatBarrier% process all floats before this point so the figure/table numbers stay in o
7260   \begin{lrbox}{\@biditytfloat@margin@floatbox}%
7261   \begin{minipage}{\marginparwidth}%
7262     \@biditytfloat@caption@font%
7263     \def\@capttype{#2}%
7264     \hbox{\vspace*{#1}%
7265     \@biditytfloat@caption@justification%
7266     \@biditytfloat@margin@par%
7267     \noindent%
7268   }
7269   \end{minipage}%
7270   \end{lrbox}%
7271   \marginpar{\usebox{\@biditytfloat@margin@floatbox}}%
7272 }
7273 \newenvironment{marginfigure}[1][-1.2ex]%
7274   {\begin{@biditytfloat@margin@float}[#1]{figure}}
7275   {\end{@biditytfloat@margin@float}}
7276 \newenvironment{margintable}[1][-1.2ex]%
7277   {\begin{@biditytfloat@margin@float}[#1]{table}}
7278   {\end{@biditytfloat@margin@float}}
7279 \newcommand*{@biditytfloat@justification@autodetect}{\justifying}%
7280
7281 \newcommand{\@biditytfloat@float@debug@info}{}% contains debug info generated as the float
7282 \newcommand{\@biditytfloat@float@debug}[1]{% adds debug info to the queue for output
7283   \ifthenelse{\equal{\@biditytfloat@float@debug@info}{}}{
7284     {\def\@biditytfloat@float@debug@info{#1}}%
7285     {\gaddto@macro{\@biditytfloat@float@debug@info{\MessageBreak#1}}%
7286   }
7287 \newcommand{\floatalignment}{x}% holds the current float alignment (t, b, h, p)
7288 \newcommand{\setfloatalignment}[1]{\global\def\floatalignment{#1}\@biditytfloat@float@debug
7289 \newboolean{@biditytfloat@float@recto}
7290 \newcommand{\forcerectofloat}{\GlobalSetBoolean{@biditytfloat@float@recto}{true}\@bidityt
7291 \newcommand{\forceversofloat}{\GlobalSetBoolean{@biditytfloat@float@recto}{false}\@bidityt
7292 \newsavebox{\@biditytfloat@figure@box}
7293 \newsavebox{\@biditytfloat@caption@box}
7294 \let\@biditytfloat@orig@float\@float
7295 \let\@biditytfloat@orig@endfloat\endfloat
7296 \newlength{\@biditytfloat@caption@vertical@offset}

```



```

7297 \setlength{\@bidituftefloat@caption@vertical@offset}{0pt}
7298 \newcommand{\@bidituftefloat@stored@shortcaption}{}
7299 \newcommand{\@bidituftefloat@stored@caption}{}
7300 \newcommand{\@bidituftefloat@stored@label}{}
7301 \long\def\@bidituftefloat@caption[#1][#2]#3{%
7302   \ifthenelse{\isempty{#1}}%
7303     {\gdef\@bidituftefloat@stored@shortcaption{#3}}%
7304     {\gdef\@bidituftefloat@stored@shortcaption{#1}}%
7305   \gsetlength{\@bidituftefloat@caption@vertical@offset}{-#2}% we want a positive offset to 1
7306   \gdef\@bidituftefloat@stored@caption{#3}%
7307 }
7308 \newcommand{\@bidituftefloat@label}[1]{%
7309   \gdef\@bidituftefloat@stored@label{#1}%
7310 }
7311 \newcommand{\@bidituftefloat@fps}{}
7312 \newboolean{\@bidituftefloat@float@star}
7313 \newlength{\@bidituftefloat@float@contents@width}
7314 \newenvironment{\@bidituftefloat@float}[3][htbp]%
7315   {% begin \@bidituftefloat@float
7316     % Should this float be full-width or just text-width?
7317     \ifthenelse{\equal{#3}{star}}%
7318       {\GlobalSetBoolean{\@bidituftefloat@float@star}{true}}%
7319       {\GlobalSetBoolean{\@bidituftefloat@float@star}{false}}%
7320     % Check page side (recto/verso) and store detected value -- can be overridden in environm
7321     \@bidituftefloat@checkoddpage%
7322     \ifthenelse{\boolean{\@bidituftefloat@odd@page}}%
7323       {\GlobalSetBoolean{\@bidituftefloat@float@recto}{true}\@bidituftefloat@float@debug{Dete
7324       {\GlobalSetBoolean{\@bidituftefloat@float@recto}{false}\@bidituftefloat@float@debug{Det
7325     % If the float placement specifier is 'b' and only 'b', then bottom-align the mini-pages
7326     \renewcommand{\@bidituftefloat@fps}{#1}%
7327     \@bidituftefloat@float@debug{Allowed positions: [ #1 ]}%
7328     \ifthenelse{\equal{#1}{b}\OR\equal{#1}{B}}%
7329       {\renewcommand{\floatalignment}{b}\@bidituftefloat@float@debug{Presumed position: [bot
7330       {\renewcommand{\floatalignment}{t}\@bidituftefloat@float@debug{Presumed position: [top
7331     % Capture the contents of the \caption and \label commands to use later
7332     \global\let\@bidituftefloat@orig@caption\caption%
7333     \global\let\@bidituftefloat@orig@label\label%
7334     \renewcommand{\caption}{\optparams{\@bidituftefloat@caption}{[ ] [Opt]}}%
7335     \renewcommand{\label}[1]{\@bidituftefloat@label{##1}}%
7336     % Handle subfigure package compatibility
7337     \ifthenelse{\boolean{\@bidituftefloat@packages@subfigure}}{%
7338       \bidi@patchcmd{\subfigure}{%
7339         \let\subfig@oldlabel=\label
7340       }{%
7341         \let\subfig@oldlabel=\@bidituftefloat@orig@label
7342       }
7343     }
7344     {}
7345     \let\subtable=\subfigure
7346   }{% subfigure package is not loaded
7347     \@bidituftefloat@orig@float{#2}[#1]%
7348     \ifthenelse{\boolean{\@bidituftefloat@float@star}}%
7349       {\setlength{\@bidituftefloat@float@contents@width}{\@bidituftefloat@fullwidth}}%
7350       {\setlength{\@bidituftefloat@float@contents@width}{\textwidth}}%

```



```

7351 \begin{lrbox}{\@bittuftefloat@figure@box}%
7352 \begin{minipage}[\floatalignment]{\@bittuftefloat@float@contents@width}\hbox{%
7353 }{% end @bittuftefloat@float
7354 \par\hbox{}\vspace{-\baselineskip}\ifthenelse{\prevdepth>0}{\vspace{-\prevdepth}}{}% a
7355 \end{minipage}%
7356 \end{lrbox}%
7357 % build the caption box
7358 \begin{lrbox}{\@bittuftefloat@caption@box}%
7359 \begin{minipage}[\floatalignment]{\marginparwidth}\hbox{%
7360 \ifthenelse{\NOT\equal{\@bittuftefloat@stored@caption}{}}{\@bittuftefloat@orig@cap
7361 \ifthenelse{\NOT\equal{\@bittuftefloat@stored@label}{}}{\@bittuftefloat@orig@label
7362 \par\vspace{-\prevdepth}}% TODO: DOUBLE-CHECK FOR SAFETY
7363 \end{minipage}%
7364 \end{lrbox}%
7365 % now typeset the stored boxes
7366 \begin{fullwidth}%
7367 \begin{minipage}[\floatalignment]{\linewidth}%
7368 \ifthenelse{\boolean{@bittuftefloat@float@star}}%
7369 {\@bittuftefloat@float@fullwidth[\@bittuftefloat@caption@vertical@offset]{\@bidi
7370 {\@bittuftefloat@float@textwidth[\@bittuftefloat@caption@vertical@offset]{\@bidi
7371 \end{minipage}%
7372 \end{fullwidth}%
7373 \@bittuftefloat@orig@endfloat% end original LaTeX float environment
7374 % output debug info
7375 \ifthenelse{\boolean{@bittuftefloat@debug}}{%
7376 \typeout{^^J^^J----- bittuftefloat package float information -----}%
7377 \ifthenelse{\equal{\@bittuftefloat@stored@label}{}}%
7378 {\typeout{Warning: Float unlabeled!}}%
7379 {\typeout{Float label: [\@bittuftefloat@stored@label]}}%
7380 \typeout{Page number: [\thepage]}%
7381 \def\MessageBreak{^^J}%
7382 \typeout{\@bittuftefloat@float@debug@info}%
7383 \ifthenelse{\boolean{@bittuftefloat@symmetric}}%
7384 {\typeout{Symmetric: [true]}}%
7385 {\typeout{Symmetric: [false]}}%
7386 \typeout{-----^^J^^J}%
7387 }{%
7388 % reset commands and temp boxes and captions
7389 \gdef\@bittuftefloat@float@debug@info{%
7390 \let\caption\@bittuftefloat@orig@caption%
7391 \let\label\@bittuftefloat@orig@label%
7392 \begin{lrbox}{\@bittuftefloat@figure@box}\hbox{}\end{lrbox}%
7393 \begin{lrbox}{\@bittuftefloat@caption@box}\hbox{}\end{lrbox}%
7394 \gdef\@bittuftefloat@stored@shortcaption{%
7395 \gdef\@bittuftefloat@stored@caption{%
7396 \gdef\@bittuftefloat@stored@label{%
7397 \gsetlength{\@bittuftefloat@caption@vertical@offset}{0pt}% reset caption offset
7398 }
7399 \newcommand{\@bittuftefloat@float@textwidth}[3][Opt]{%
7400 \ifthenelse{\NOT\boolean{@bittuftefloat@symmetric}}\OR\boolean{@bittuftefloat@float@recto
7401 % asymmetric or page is odd, so caption is on the right
7402 \hbox{%
7403 \usebox{#2}%
7404 \hspace{\marginparsep}%

```



```

7405     \smash{\raisebox{#1}{\usebox{#3}}}%
7406   }
7407   \@biditytfloat@float@debug{Caption position: [right]]}%
7408 }{% symmetric pages and page is even, so caption is on the left
7409   \hbox{%
7410     \smash{\raisebox{#1}{\usebox{#3}}}%
7411     \hspace{\marginparsep}%
7412     \usebox{#2}%
7413   }
7414   \@biditytfloat@float@debug{Caption position: [left]]}%
7415 }%
7416 }
7417 \newcommand{\@biditytfloat@float@fullwidth}[3][Opt]{%
7418   \ifthenelse{\equal{\floatalignment}{b}}{%
7419     {% place caption above figure
7420       \ifthenelse{\NOT\boolean{@biditytfloat@symmetric}}\OR\boolean{@biditytfloat@float@cr}
7421         {\hfill\smash{\raisebox{#1}{\usebox{#3}}}\par\usebox{#2}\@biditytfloat@float@debug}
7422         {\smash{\raisebox{#1}{\usebox{#3}}}\hfill\par\usebox{#2}\@biditytfloat@float@debug}
7423     }{% place caption below figure
7424       \ifthenelse{\NOT\boolean{@biditytfloat@symmetric}}\OR\boolean{@biditytfloat@float@cr}
7425         {\usebox{#2}\par\hfill\smash{\raisebox{#1}{\usebox{#3}}}\@biditytfloat@float@debug}
7426         {\usebox{#2}\par\smash{\raisebox{#1}{\usebox{#3}}}\hfill\@biditytfloat@float@debug}
7427     }%
7428 }
7429 \renewenvironment{figure}[1][htbp]%
7430   {\ifvmode\else\unskip\fi\begin{@biditytfloat@float}[#1]{figure}{}}
7431   {\end{@biditytfloat@float}}
7432 \renewenvironment{table}[1][htbp]
7433   {\ifvmode\else\unskip\fi\begin{@biditytfloat@float}[#1]{table}{}}
7434   {\end{@biditytfloat@float}}
7435 \renewenvironment{figure*}[1][htbp]%
7436   {\ifvmode\else\unskip\fi\begin{@biditytfloat@float}[#1]{figure}{star}}
7437   {\end{@biditytfloat@float}}
7438 \renewenvironment{table*}[1][htbp]%
7439   {\ifvmode\else\unskip\fi\begin{@biditytfloat@float}[#1]{table}{star}}
7440   {\end{@biditytfloat@float}}
7441 \newenvironment{fullwidth}
7442   {\ifthenelse{\boolean{@biditytfloat@symmetric}}{%
7443     {\ifthenelse{\boolean{@biditytfloat@changepage}}{\begin{adjustwidth*}}{-\@biditytfloat@float@overhang}}%
7444     {\begin{adjustwidth}}{-\@biditytfloat@overhang}}%
7445   }%
7446   {\ifthenelse{\boolean{@biditytfloat@symmetric}}{%
7447     {\ifthenelse{\boolean{@biditytfloat@changepage}}{\end{adjustwidth*}}{\end{adjustwidth}}}%
7448     {\end{adjustwidth}}}%
7449   }
7450 \long\def\@caption#1[#2]#3{%
7451   \par%
7452   \addcontentsline{\csname ext@#1\endcsname}{#1}%
7453     {\protect\numberline{\csname the#1\endcsname}{\ignorespaces #2}}%
7454   \begingroup%
7455     \@parboxrestore%
7456     \if@minipage%
7457       \@setminipage%
7458     \fi%

```



```

7459 \@biditytfloat@caption@font\@biditytfloat@caption@justification%
7460 \noindent\csname fnum@#1\endcsname: \ignorespaces#3\par%
7461 %\@makecaption{\csname fnum@#1\endcsname}{\ignorespaces #3}\par
7462 \endgroup}
7463 %%
7464 % Turns newlines into spaces. Based on code from the 'titlesec' package.
7465 \DeclareRobustCommand{\@biditytfloat@newlinetospace}{%
7466 \ifstar{\@biditytfloat@newlinetospace@i}{\@biditytfloat@newlinetospace@i}%
7467 }
7468 \def\@biditytfloat@newlinetospace@i{%
7469 \ifdim\lastskip>\z@\else\space\fi
7470 \ignorespaces%
7471 }
7472 \DeclareRobustCommand{\newlinetospace}[1]{%
7473 \let\@biditytfloat@orig@cr\\% save the original meaning of \\
7474 \def\\{\@biditytfloat@newlinetospace}% turn \\ and \* into \space
7475 \let\newline\\% turn \newline into \space
7476 #1%
7477 \let\\ \@biditytfloat@orig@cr% revert to original meaning of \\
7478 }
7479 \RequirePackage{fancyhdr}
7480 \pagestyle{fancy}
7481 \AtBeginDocument{%
7482 \ifthenelse{\boolean{@biditytfloat@symmetric}}{
7483 {\fancyhfoffset[LE,RO]{\@biditytfloat@overhang}}{
7484 {\fancyhfoffset[RE,RO]{\@biditytfloat@overhang}}
7485 }
7486 % The running heads/feet don't have rules
7487 \renewcommand{\headrulewidth}{0pt}
7488 \renewcommand{\footrulewidth}{0pt}
7489 % The 'fancy' page style is the default style for all pages.
7490 \fancyhf{} % clear header and footer fields
7491 \ifthenelse{\boolean{@biditytfloat@symmetric}}{
7492 {\fancyhead[LE]{\thepage\quad\textsl{\newlinetospace{\plainauthor}}}%
7493 \fancyhead[RO]{\textsl{\newlinetospace{\plaintitle}}\quad\thepage}}{
7494 {\fancyhead[RE,RO]{\textsl{\newlinetospace{\plaintitle}}\quad\thepage}}}%
7495 % The 'plain' page style is used on chapter opening pages.
7496 % In Tufte's /Beautiful Evidence/ he never puts page numbers at the
7497 % bottom of pages -- the folios are unexpressed.
7498 \fancypagestyle{plain}{
7499 \fancyhf{} % clear header and footer fields
7500 % Uncomment the following five lines of code if you want the opening page
7501 % of the chapter to express the folio in the lower outside corner.
7502 % \ifthenelse{\boolean{@biditytfloat@symmetric}}{
7503 % {\fancyfoot[LE,RO]{\thepage}}
7504 % {\fancyfoot[RE,RO]{\thepage}}
7505 }
7506 % The 'empty' page style suppresses all headers and footers.
7507 % It's used on title pages and 'intentionally blank' pages.
7508 \fancypagestyle{empty}{
7509 \fancyhf{} % clear header and footer fields
7510 }
7511 \def\morefloats{% provides a total of 52 floats
7512 \ifthenelse{\isundefined{\bx@S}}{%

```



```

7513 \bidituftefloatDebugInfoNL{Adding 34 more float slots.}
7514 \newinsert\bx@S
7515 \newinsert\bx@T
7516 \newinsert\bx@U
7517 \newinsert\bx@V
7518 \newinsert\bx@W
7519 \newinsert\bx@X
7520 \newinsert\bx@Y
7521 \newinsert\bx@Z
7522 \newinsert\bx@a
7523 \newinsert\bx@b
7524 \newinsert\bx@c
7525 \newinsert\bx@d
7526 \newinsert\bx@e
7527 \newinsert\bx@f
7528 \newinsert\bx@g
7529 \newinsert\bx@h
7530 \newinsert\bx@i
7531 \newinsert\bx@j
7532 \newinsert\bx@k
7533 \newinsert\bx@l
7534 \newinsert\bx@m
7535 \newinsert\bx@n
7536 \newinsert\bx@o
7537 \newinsert\bx@p
7538 \newinsert\bx@q
7539 \newinsert\bx@r
7540 \newinsert\bx@s
7541 \newinsert\bx@t
7542 \newinsert\bx@u
7543 \newinsert\bx@v
7544 \newinsert\bx@w
7545 \newinsert\bx@x
7546 \newinsert\bx@y
7547 \newinsert\bx@z
7548 \gdef\@freelist{\@elt\bx@A\@elt\bx@B\@elt\bx@C\@elt\bx@D\@elt\bx@E
7549 \@elt\bx@F\@elt\bx@G\@elt\bx@H\@elt\bx@I\@elt\bx@J
7550 \@elt\bx@K\@elt\bx@L\@elt\bx@M\@elt\bx@N
7551 \@elt\bx@O\@elt\bx@P\@elt\bx@Q\@elt\bx@R
7552 \@elt\bx@S\@elt\bx@T\@elt\bx@U\@elt\bx@V
7553 \@elt\bx@W\@elt\bx@X\@elt\bx@Y\@elt\bx@Z
7554 \@elt\bx@a\@elt\bx@b\@elt\bx@c\@elt\bx@d\@elt\bx@e
7555 \@elt\bx@f\@elt\bx@g\@elt\bx@h\@elt\bx@i\@elt\bx@j
7556 \@elt\bx@k\@elt\bx@l\@elt\bx@m\@elt\bx@n
7557 \@elt\bx@o\@elt\bx@p\@elt\bx@q\@elt\bx@r
7558 \@elt\bx@s\@elt\bx@t\@elt\bx@u\@elt\bx@v
7559 \@elt\bx@w\@elt\bx@x\@elt\bx@y\@elt\bx@z}%
7560 }{% we've already added another 34 floats, so we'll add 26 more, but that's it!
7561 \ifthenelse{\isundefined{\bx@AA}}{%
7562 \bidituftefloatDebugInfoNL{Adding 26 more float slots.}
7563 \newinsert\bx@AA
7564 \newinsert\bx@BB
7565 \newinsert\bx@CC
7566 \newinsert\bx@DD

```



```

7567 \newinsert\bx@EE
7568 \newinsert\bx@FF
7569 \newinsert\bx@GG
7570 \newinsert\bx@HH
7571 \newinsert\bx@II
7572 \newinsert\bx@JJ
7573 \newinsert\bx@KK
7574 \newinsert\bx@LL
7575 \newinsert\bx@MM
7576 \newinsert\bx@NN
7577 \newinsert\bx@OO
7578 \newinsert\bx@PP
7579 \newinsert\bx@QQ
7580 \newinsert\bx@RR
7581 \newinsert\bx@SS
7582 \newinsert\bx@TT
7583 \newinsert\bx@UU
7584 \newinsert\bx@VV
7585 \newinsert\bx@WW
7586 \newinsert\bx@XX
7587 \newinsert\bx@YY
7588 \newinsert\bx@ZZ
7589 \gdef\@freelist{\@elt\bx@A\@elt\bx@B\@elt\bx@C\@elt\bx@D\@elt\bx@E
7590 \@elt\bx@F\@elt\bx@G\@elt\bx@H\@elt\bx@I\@elt\bx@J
7591 \@elt\bx@K\@elt\bx@L\@elt\bx@M\@elt\bx@N
7592 \@elt\bx@O\@elt\bx@P\@elt\bx@Q\@elt\bx@R
7593 \@elt\bx@S\@elt\bx@T\@elt\bx@U\@elt\bx@V
7594 \@elt\bx@W\@elt\bx@X\@elt\bx@Y\@elt\bx@Z
7595 \@elt\bx@a\@elt\bx@b\@elt\bx@c\@elt\bx@d\@elt\bx@e
7596 \@elt\bx@f\@elt\bx@g\@elt\bx@h\@elt\bx@i\@elt\bx@j
7597 \@elt\bx@k\@elt\bx@l\@elt\bx@m\@elt\bx@n
7598 \@elt\bx@o\@elt\bx@p\@elt\bx@q\@elt\bx@r
7599 \@elt\bx@s\@elt\bx@t\@elt\bx@u\@elt\bx@v
7600 \@elt\bx@w\@elt\bx@x\@elt\bx@y\@elt\bx@z
7601 \@elt\bx@AA\@elt\bx@BB\@elt\bx@CC\@elt\bx@DD\@elt\bx@EE
7602 \@elt\bx@FF\@elt\bx@GG\@elt\bx@HH\@elt\bx@II\@elt\bx@JJ
7603 \@elt\bx@KK\@elt\bx@LL\@elt\bx@MM\@elt\bx@NN
7604 \@elt\bx@OO\@elt\bx@PP\@elt\bx@QQ\@elt\bx@RR
7605 \@elt\bx@SS\@elt\bx@TT\@elt\bx@UU\@elt\bx@VV
7606 \@elt\bx@WW\@elt\bx@XX\@elt\bx@YY\@elt\bx@ZZ}%
7607 }{%
7608 \biditytfloatError{You may only call \string\morefloats\space twice. See the\Message
7609 {There are already 78 float slots allocated. Try using \string\FloatBarrier\space on
7610 }%
7611 }%
7612 }
7613 \newboolean{@biditytfloat@packages@subfigure}
7614 \setboolean{@biditytfloat@packages@subfigure}{false}
7615 \AtBeginDocument{%
7616 \ifpackageloaded{subfigure}
7617 {\GlobalSetBoolean{@biditytfloat@packages@subfigure}{true}}
7618 {\GlobalSetBoolean{@biditytfloat@packages@subfigure}{false}}%
7619 }
7620 \AtBeginDocument{%

```



```

7621 \ifpackageloaded{float}{%
7622   % Save the redefined float environment (instead of the LaTeX float environment)
7623   \let\@biditytfloat@orig@float\@float
7624   \let\@biditytfloat@orig@endfloat\endfloat
7625
7626   % Define Tufte float styles (with the caption in the margin)
7627   \newcommand{\floatc@biditytfloatplain}[2]{%
7628     \begin{lrbox}{\@biditytfloat@caption@box}%
7629     \begin{minipage}[\floatalignment]{\marginparwidth}\hbox{}%
7630     \@biditytfloat@caption@font{\@fs@cfont #1:} #2\par%
7631     \end{minipage}%
7632     \end{lrbox}%
7633     \smash{\hspace{\@biditytfloat@caption@fill}}\usebox{\@biditytfloat@caption@box}}%
7634   }
7635   \newcommand{\fs@biditytfloatplain}{%
7636     \def\@fs@cfont{\@biditytfloat@caption@font}%
7637     \let\@fs@capt\floatc@biditytfloatplain%
7638     \def\@fs@pre{}%
7639     \def\@fs@post{}%
7640     \def\@fs@mid{}%
7641     \let\@fs@iftopcapt\iftrue%
7642   }
7643   \let\fs@biditytfloatplaintop=\fs@biditytfloatplain
7644   \let\floatc@biditytfloatplaintop=\floatc@biditytfloatplain
7645   \newcommand\floatc@biditytfloatruled[2]{%
7646     {\@fs@cfont #1} #2\par%
7647   }
7648   \newcommand\fs@biditytfloatruled{%
7649     \def\@fs@cfont{\@biditytfloat@caption@font}%
7650     \let\@fs@capt\floatc@biditytfloatplain%
7651     \def\@fs@pre{\hrule height.8pt depth0pt width\textwidth \kern2pt}%
7652     \def\@fs@post{\kern2pt\hrule width\textwidth\relax}%
7653     \def\@fs@mid{}%
7654     \let\@fs@iftopcapt\iftrue%
7655   }
7656   \newcommand\fs@biditytfloatboxed{%
7657     \def\@fs@cfont{}%
7658     \let\@fs@capt\floatc@biditytfloatplain%
7659     \def\@fs@pre{%
7660       \setbox\@currbox\vbox{\hbadness10000
7661       \moveleft3.4pt\vbox{\advance\hsize by6.8pt
7662       \hrule \hbox to\hsize{\vrule\kern3pt
7663       \vbox{\kern3pt\box\@currbox\kern3pt}\kern3pt\vrule}\hrule}}
7664     }%
7665     \def\@fs@mid{\kern2pt}%
7666     \def\@fs@post{}%
7667     \let\@fs@iftopcapt\iftrue%
7668   }
7669   }{%
7670     % Nothing to do
7671   }
7672 }
7673 \AtBeginDocument{%
7674   \ifpackageloaded{algorithm}{%

```



```

7675 % Set the float style to the Tufatian version
7676 \ifthenelse{\equal{\ALG@floatstyle}{plain}\OR\equal{\ALG@floatstyle}{ruled}\OR\equal{\AL
7677 \bidituftefloatInfoNL{Switching algorithm float style from \ALG@floatstyle\MessageBrea
7678 \floatstyle{\bidituftefloat\ALG@floatstyle}%
7679 \restylefloat{algorithm}%
7680 }{}%
7681 }{%
7682 % Nothing to do
7683 }
7684 }
7685 \PassOptionsToPackage{caption=false}{subfig}

```

## 54 File `bidituftesidenote.sty`

```

7686 \NeedsTeXFormat{LaTeX2e}
7687 \ProvidesPackage{bidituftesidenote}[2017/08/09 v0.4
7688 bidi implementation of tufte sidenote]
7689 \RequirePackage{xifthen}
7690 \RequirePackage{ragged2e}
7691 \RequirePackage{setspace}
7692 \RequirePackage{biditools}
7693 \def\bidituftesidenotemarginpar{%
7694 \ifhmode
7695 \@bsphack
7696 \@floatpenalty -\@Mii
7697 \else
7698 \@floatpenalty -\@Miii
7699 \fi
7700 \ifinner
7701 \@parmoderr
7702 \@floatpenalty\z@
7703 \else
7704 \@next\@currbox\@freelist{}{}%
7705 \@next\@marbox\@freelist{\global\count\@marbox\m@ne}%
7706 {\@floatpenalty\z@
7707 \fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}%
7708 \fi
7709 \ifnextchar [\@bidituftesidenotexmpar\@bidituftesidenoteympar}
7710 \long\def\@bidituftesidenotexmpar[#1]#2{%
7711 \@bidituftesidenotesavemarbox\@marbox{#1}%
7712 \@bidituftesidenotesavemarbox\@currbox{#2}%
7713 \@xympar}
7714 \long\def\@bidituftesidenoteympar#1{%
7715 \@bidituftesidenotesavemarbox\@marbox{#1}%
7716 \global\setbox\@currbox\copy\@marbox
7717 \@xympar}
7718 \long\def \@bidituftesidenotesavemarbox #1#2{%
7719 \global\setbox #1%
7720 \color@vbox
7721 \vtop{%
7722 \hsize\marginparwidth
7723 \@parboxrestore
7724 \@bidituftesidenotemarginparreset
7725 #2%

```



```

7726         \@minipagefalse
7727         \outer@nobreak
7728     }%
7729     \color@endbox
7730 }
7731 \def \@bidityftesidenotemarginparreset {%
7732     \reset@font
7733     \normalsize
7734     \@minipagetrue
7735     \everypar{\@minipagefalse\everypar{}}\if@RTL@footnote\beginR\else\beginL\fi}%
7736 }
7737 \def\LTRbidityftesidenotemarginpar{%
7738     \ifhmode
7739         \@bsphack
7740         \@floatpenalty -\@Mii
7741     \else
7742         \@floatpenalty-\@Miii
7743     \fi
7744     \ifinner
7745         \@parmoderr
7746         \@floatpenalty\z@
7747     \else
7748         \@next\@currbox\@freelist{}\}%
7749         \@next\@marbox\@freelist{\global\count\@marbox\m@ne}%
7750         {\@floatpenalty\z@
7751         \@fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}}%
7752     \fi
7753     \ifnextchar [\@LTRbidityftesidenotexmpar\@LTRbidityftesidenoteympar}
7754 \long\def\@LTRbidityftesidenotexmpar[#1]#2{%
7755     \@LTRbidityftesidenotesavemarbox\@marbox{#1}%
7756     \@LTRbidityftesidenotesavemarbox\@currbox{#2}%
7757     \@xympar}
7758 \long\def\@LTRbidityftesidenoteympar#1{%
7759     \@LTRbidityftesidenotesavemarbox\@marbox{#1}%
7760     \global\setbox\@currbox\copy\@marbox
7761     \@xympar}
7762 \long\def \@LTRbidityftesidenotesavemarbox #1#2{%
7763     \global\setbox #1%
7764         \color@vbox
7765         \vtop{%
7766             \hsize\marginparwidth
7767             \@parboxrestore
7768             \@LTRbidityftesidenotemarginparreset
7769             #2%
7770             \@minipagefalse
7771             \outer@nobreak
7772         }%
7773     \color@endbox
7774 }
7775 \def \@LTRbidityftesidenotemarginparreset {%
7776     \reset@font
7777     \normalsize
7778     \@minipagetrue
7779     \everypar{\@minipagefalse\everypar{}}\beginL}%

```



```

7780 }
7781 \def\RTLbidityftesidenotemarginpar{%
7782   \ifhmode
7783     \@bsphack
7784     \@floatpenalty -\@Mii
7785   \else
7786     \@floatpenalty-\@Miii
7787   \fi
7788   \ifinner
7789     \@parmoderr
7790     \@floatpenalty\z@
7791   \else
7792     \@next\@currbox\@freelist{}\{}%
7793     \@next\@marbox\@freelist{\global\count\@marbox\m@ne}%
7794     {\@floatpenalty\z@
7795       \@fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}}%
7796   \fi
7797   \@ifnextchar [\@RTLbidityftesidenotexmpar\@RTLbidityftesidenoteympar}
7798 \long\def\@RTLbidityftesidenotexmpar[#1]#2{%
7799   \@RTLbidityftesidenotesavemarbox\@marbox{#1}%
7800   \@RTLbidityftesidenotesavemarbox\@currbox{#2}%
7801   \@xympar}
7802 \long\def\@RTLbidityftesidenoteympar#1{%
7803   \@RTLbidityftesidenotesavemarbox\@marbox{#1}%
7804   \global\setbox\@currbox\copy\@marbox
7805   \@xympar}
7806 \long\def \@RTLbidityftesidenotesavemarbox #1#2{%
7807   \global\setbox #1%
7808     \color@vbox
7809     \vtop{%
7810       \hsize\marginparwidth
7811       \@parboxrestore
7812       \@RTLbidityftesidenotemarginparreset
7813       #2%
7814       \@minipagefalse
7815       \outer@nobreak
7816     }%
7817   \color@endbox
7818 }
7819 \def \@RTLbidityftesidenotemarginparreset {%
7820   \reset@font
7821   \normalsize
7822   \@minipagetrue
7823   \everypar{\@minipagefalse\everypar{}\beginR}%
7824 }
7825 \newcommand*{\@bidityftesidenote@marginfont}{\normalfont\footnotesize}
7826 \newcommand*{\@bidityftesidenote@LTRmarginfont}{\normalfont\footnotesize}
7827 \newcommand*{\@bidityftesidenote@RTLmarginfont}{\normalfont\footnotesize}
7828 \newcommand*{\@bidityftesidenote@RTLmarginfont}{\@bidityftesidenote@marginfont}
7829 \newcommand*{\@bidityftesidenote@LTRsidenote@font}{\@bidityftesidenote@LTRmarginfont}
7830 \newcommand*{\@bidityftesidenote@RTLSidenote@font}{\@bidityftesidenote@RTLmarginfont}
7831 \newcommand*{\@bidityftesidenote@marginnote@font}{\@bidityftesidenote@marginfont}
7832 \newcommand*{\@bidityftesidenote@LTRmarginnote@font}{\@bidityftesidenote@LTRmarginfont}
7833 \newcommand*{\@bidityftesidenote@RTLmarginnote@font}{\@bidityftesidenote@RTLmarginfont}

```



```

7834 \newcommand*{\@bidityftesidenote@citation@font}{\@bidityftesidenote@marginfont}
7835 \newcommand*{\@bidityftesidenote@LTRcitation@font}{\@bidityftesidenote@LTRmarginfont}
7836 \newcommand*{\@bidityftesidenote@RTLcitation@font}{\@bidityftesidenote@RTLmarginfont}
7837 \newcommand*{\setsidenote@font}[1]{\renewcommand*{\@bidityftesidenote@sidenote@font}{#1}}
7838 \newcommand*{\setLTRsidenote@font}[1]{\renewcommand*{\@bidityftesidenote@LTRsidenote@font}{#1}}
7839 \newcommand*{\setRTLSidenote@font}[1]{\renewcommand*{\@bidityftesidenote@RTLSidenote@font}{#1}}
7840 \newcommand*{\setmarginnote@font}[1]{\renewcommand*{\@bidityftesidenote@marginnote@font}{#1}}
7841 \newcommand*{\setLTRmarginnote@font}[1]{\renewcommand*{\@bidityftesidenote@LTRmarginnote@font}{#1}}
7842 \newcommand*{\setRTLmarginnote@font}[1]{\renewcommand*{\@bidityftesidenote@RTLmarginnote@font}{#1}}
7843 \newcommand*{\setcitation@font}[1]{\renewcommand*{\@bidityftesidenote@citation@font}{#1}}
7844 \newcommand*{\setLTRcitation@font}[1]{\renewcommand*{\@bidityftesidenote@LTRcitation@font}{#1}}
7845 \newcommand*{\setRTLcitation@font}[1]{\renewcommand*{\@bidityftesidenote@RTLcitation@font}{#1}}
7846 \newcommand*{\@bidityftesidenote@sidenote@justification}{\@bidityftesidenote@justification@auto}
7847 \newcommand*{\@bidityftesidenote@marginnote@justification}{\@bidityftesidenote@justification@auto}
7848 \newcommand*{\@bidityftesidenote@citation@justification}{\@bidityftesidenote@justification@auto}
7849 \newcommand*{\@bidityftesidenote@justification@autodetect}{\justifying}%
7850 \newcommand{\@bidityftesidenote@margin@par}{%
7851   \setlength{\RaggedRightParindent}{0.5pc}%
7852   \setlength{\JustifyingParindent}{0.5pc}%
7853   \setlength{\parindent}{0.5pc}%
7854   \setlength{\parskip}{Opt}}%
7855 }
7856 %%
7857 % Globally sets the length
7858 \@ifundefined{gsetlength}{%
7859 \newcommand*{gsetlength}[2]{%
7860   \setlength{#1}{#2}%
7861   \global#1=#1\relax%
7862 }%
7863 }{}
7864
7865 %%
7866 % A function that removes leading and trailing spaces from the supplied macro.
7867 % Based on code written by Michael Downes (See ``Around the Bend'', #15.)
7868 % Executing \@bidityftesidenote@trim@spaces\xyzzy will result in the contents of \xyzzy
7869 % being trimmed of leading and trailing white space.
7870 \catcode\Q=3
7871 \def\@bidityftesidenote@trim@spaces#1{%
7872   % Use grouping to emulate a multi-token afterassignment queue
7873   \begingroup%
7874   % Put \toks 0 {' into the afterassignment queue
7875   \aftergroup\toks\aftergroup0\aftergroup{%
7876   % Apply \trimb to the replacement text of #1, adding a leading
7877   % \noexpand to prevent brace stripping and to serve another purpose
7878   % later.
7879   \expandafter\@bidityftesidenote@trim@b\expandafter\noexpand#1Q Q}%
7880   % Transfer the trimmed text back into #1.
7881   \edef#1{\the\toks0}%
7882 }
7883 % \trimb removes a trailing space if present, then calls \@bidityftesidenote@trim@c to
7884 % clean up any leftover bizarre Qs, and trim a leading space. In
7885 % order for \trimc to work properly we need to put back a Q first.
7886 \def\@bidityftesidenote@trim@b#1 Q{\@bidityftesidenote@trim@c#1Q}
7887 % Execute \vfuzz assignment to remove leading space; the \noexpand

```



```

7888 % will now prevent unwanted expansion of a macro or other expandable
7889 % token at the beginning of the trimmed text. The \endgroup will feed
7890 % in the \aftergroup tokens after the \vfuzz assignment is completed.
7891 \def\@bidityftesidenote@trim@c#1Q#2{\afterassignment\endgroup \vfuzz\the\vfuzz#1}
7892 \catcode\Q=11
7893 %%
7894 % Citations should go in the margin as sidenotes
7895
7896 \RequirePackage{natbib}
7897 \RequirePackage{bibentry} % allows bibitems to be typeset outside the bibliography env
7898 % Redefine the \BR@b@bibitem command to fix a bug with bibentry+chicago style
7899 \renewcommand\BR@b@bibitem[2][{}]{%
7900   \ifthenelse{\isempty{#1}}{%
7901     {\BR@bibitem{#2}}%
7902     {\BR@bibitem{#1}{#2}}%
7903   \BR@c@bibitem{#2}%
7904 }
7905 \bidi@AtEndPreamble{\nobibliography*} % pre-loads the bibliography keys
7906 %%
7907 % Normal \cite behavior
7908 \newcounter{@bidityftesidenote@num@bibkeys}%
7909 \newcommand{\@bidityftesidenote@normal@cite}[2][0pt]{%
7910   % Snag the last bibentry in the list for later comparison
7911   \let\@temp@last@bibkey\@empty%
7912   \@for\@temp@bibkey:=#2\do{\let\@temp@last@bibkey\@temp@bibkey}%
7913   \sidenote[] [#1]{%
7914     % Loop through all the bibentries, separating them with semicolons and spaces
7915     \normalsize\normalfont\@bidityftesidenote@citation@font%
7916     \setcounter{@bidityftesidenote@num@bibkeys}{0}%
7917     \@for\@temp@bibkeyx:=#2\do{%
7918       \ifthenelse{\equal{\@temp@last@bibkey}{\@temp@bibkeyx}}{%
7919         {\ifthenelse{\equal{value{@bidityftesidenote@num@bibkeys}}{0}}{\{and\ }}%
7920         \@bidityftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
7921         \bibentry{\@temp@bibkeyx}}%
7922         {\@bidityftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
7923         \bibentry{\@temp@bibkeyx};\ }%
7924       \stepcounter{@bidityftesidenote@num@bibkeys}%
7925     }%
7926   }%
7927 }
7928 \newcommand{\@bidityfteLTRsidenote@normal@cite}[2][0pt]{%
7929   % Snag the last bibentry in the list for later comparison
7930   \let\@temp@last@bibkey\@empty%
7931   \@for\@temp@bibkey:=#2\do{\let\@temp@last@bibkey\@temp@bibkey}%
7932   \LTRsidenote[] [#1]{%
7933     % Loop through all the bibentries, separating them with semicolons and spaces
7934     \normalsize\normalfont\@bidityftesidenote@LTRcitation@font%
7935     \setcounter{@bidityftesidenote@num@bibkeys}{0}%
7936     \@for\@temp@bibkeyx:=#2\do{%
7937       \ifthenelse{\equal{\@temp@last@bibkey}{\@temp@bibkeyx}}{%
7938         {\ifthenelse{\equal{value{@bidityftesidenote@num@bibkeys}}{0}}{\{and\ }}%
7939         \@bidityftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
7940         \bibentry{\@temp@bibkeyx}}%
7941         {\@bidityftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey

```



```

7942         \bibentry{\@temp@bibkeyx};\ }%
7943         \stepcounter{@bidityftesidenote@num@bibkeys}%
7944     }%
7945 }%
7946 }
7947 \newcommand{\@bidityfteRTLsidenote@normal@cite}[2][Opt]{%
7948 % Snag the last bibentry in the list for later comparison
7949 \let\@temp@last@bibkey\empty%
7950 \@for\@temp@bibkey:=#2\do{\let\@temp@last@bibkey\@temp@bibkey}%
7951 \RTLsidenote[] [#1]{%
7952 % Loop through all the bibentries, separating them with semicolons and spaces
7953 \normalsize\normalfont\@bidityftesidenote@citation@font%
7954 \setcounter{@bidityftesidenote@num@bibkeys}{0}%
7955 \@for\@temp@bibkeyx:=#2\do{%
7956 \ifthenelse{\equal{\@temp@last@bibkey}{\@temp@bibkeyx}}{%
7957     {\ifthenelse{\equal{\value{@bidityftesidenote@num@bibkeys}}{0}}{\and\ }%
7958     \@bidityftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
7959     \bibentry{\@temp@bibkeyx}}%
7960     {\@bidityftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
7961     \bibentry{\@temp@bibkeyx};\ }%
7962     \stepcounter{@bidityftesidenote@num@bibkeys}%
7963     }%
7964 }%
7965 }
7966 %%
7967 % Macros for holding the list of cite keys until after the \sidenote
7968 \gdef\@bidityftesidenote@citations{}% list of cite keys
7969 \newcommand\@bidityftesidenote@add@citation[1]{\relax% adds a new bibkey to the list of cite
7970 \ifx\@bidityftesidenote@citations\empty\else
7971     \g@addto@macro\@bidityftesidenote@citations{,}% separate by commas
7972 \fi
7973 \g@addto@macro\@bidityftesidenote@citations{#1}
7974 }
7975 \newcommand{\@bidityftesidenote@print@citations}[1][Opt]{% puts the citations in a margin no
7976 % Snag the last bibentry in the list for later comparison
7977 \let\@temp@last@bibkey\empty%
7978 \@for\@temp@bibkey:=\@bidityftesidenote@citations\do{\let\@temp@last@bibkey\@temp@bibkey}%
7979 \marginpar{%
7980     \hbox{\vspace*{#1}%
7981     \@bidityftesidenote@citation@font%
7982     \@bidityftesidenote@citation@justification%
7983     \@bidityftesidenote@margin@par% use parindent and parskip settings for marginal text
7984     \vspace*{-1\baselineskip}%
7985 % Loop through all the bibentries, separating them with semicolons and spaces
7986 \setcounter{@bidityftesidenote@num@bibkeys}{0}%
7987 \@for\@temp@bibkeyx:=\@bidityftesidenote@citations\do{%
7988 \ifthenelse{\equal{\@temp@last@bibkey}{\@temp@bibkeyx}}{%
7989     {\ifthenelse{\equal{\value{@bidityftesidenote@num@bibkeys}}{0}}{\and\ }%
7990     \@bidityftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
7991     \bibentry{\@temp@bibkeyx}}%
7992     {\@bidityftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
7993     \bibentry{\@temp@bibkeyx};\ }%
7994     \stepcounter{@bidityftesidenote@num@bibkeys}%
7995     }%

```



```

7996 }%
7997 }
7998 %%
7999 % \cite behavior when executed within a sidenote
8000 \newcommand{\@bidityftesidenote@sidenote@citations}{}% contains list of \cites in sidenote
8001 \newcommand{\@bidityftesidenote@infootnote@cite}[1]{%
8002   \@bidityftesidenote@add@citation{#1}
8003 }
8004 %%
8005 % Set the default \cite style. This is set and reset by the \sidenote command.
8006 \let\cite\@bidityftesidenote@normal@cite
8007 \let\LTRcite\@bidityftelTRsidenote@normal@cite
8008 \let\RTLcite\@bidityfteRTLsidenote@normal@cite
8009 %%
8010 % Transform existing \footnotes into \sidenotes
8011 % Sidenote: ``Where God meant footnotes to go.''' ---bidityftesidenote
8012 \RequirePackage{optparams}% for our new sidenote commands -- provides multiple optional argu
8013 \providecommand{\footnotelayout}{\@bidityftesidenote@sidenote@font\@bidityftesidenote@sidenote
8014 \renewcommand{\footnotelayout}{\@bidityftesidenote@sidenote@font\@bidityftesidenote@sidenote
8015 % Override footmisc's definition to set the sidenote marks (numbers) inside the
8016 % sidenote's text block.
8017 \bidi@patch@AfterPackage{bidi}{\long\def\@makefnmark{\@textsuperscript{\@bidityftesidenote
8018 % Set the in-text footnote mark in the same typeface as the body text itself.
8019 \bidi@patch@AfterPackage{bidi}{\def\@makefnmark{\hbox{\@textsuperscript{\normalfont\footnote
8020 \providecommand*\@multiplefootnotemark}{3sp}
8021 \providecommand*\@multfootsep}{,}
8022 \bidi@patch@AfterPackage{bidi}{%
8023 \renewcommand{\@footnotemark}{%
8024   \leavevmode%
8025   \ifhmode%
8026     \edef\@x@sf{\the\spacefactor}%
8027     \@bidityftesidenote@check@multiple@sidenotes%
8028     \nobreak%
8029     \fi%
8030     \@makefnmark%
8031     \ifhmode\spacefactor\@x@sf\fi%
8032     \relax%
8033 }%
8034 }
8035 \newcommand{\@bidityftesidenote@check@multiple@sidenotes}{%
8036   \ifdim\lastkern=\@multiplefootnotemark\relax%
8037     \edef\@x@sf{\the\spacefactor}%
8038     \unkern%
8039     \textsuperscript{\multfootsep}%
8040     \spacefactor\@x@sf\relax%
8041   \fi
8042 }
8043 \bidi@patch@AfterPackage{bidi}{%
8044 \renewcommand\@footnotetext[2][0pt]{%
8045   \bidityftesidenotemarginpar{%
8046     \hbox{}}\vspace*{#1}%
8047     \def\baselinestretch {\set@space@singlespace}%
8048     \reset@font%
8049     \bidi@@footnotetext@font% \reset@font\footnotesize%

```



```

8050 \@bidityftesidenote@margin@par% use parindent and parskip settings for marginal text
8051 \vspace*{-1\baselineskip}\noindent%
8052 \protected@edef\@currentlabel{%
8053     \csname p@footnote\endcsname\@thefnmark%
8054 }%
8055 \color@begingroup%
8056     \@makefnstext{%
8057         \ignorespaces#2%
8058     }%
8059 \color@endgroup%
8060 }%
8061 }%
8062 \renewcommand\@LTRfootnotetext[2][Opt]{%
8063     \LTRbidityftesidenotemarginpar{%
8064         \hbox{}\vspace*{#1}%
8065         \def\baselinestretch {\set@space@singlespace}%
8066         \reset@font%
8067         \bidi@LTRfootnotetext@font% \reset@font\footnotesize%
8068         \@bidityftesidenote@margin@par% use parindent and parskip settings for marginal text
8069         \vspace*{-1\baselineskip}\noindent%
8070         \protected@edef\@currentlabel{%
8071             \csname p@footnote\endcsname\@thefnmark%
8072         }%
8073         \color@begingroup%
8074             \@makefnstext{%
8075                 \ignorespaces#2%
8076             }%
8077         \color@endgroup%
8078     }%
8079 }%
8080 \renewcommand\@RTLfootnotetext[2][Opt]{%
8081     \RTLbidityftesidenotemarginpar{%
8082         \hbox{}\vspace*{#1}%
8083         \def\baselinestretch {\set@space@singlespace}%
8084         \reset@font%
8085         \bidi@RTLfootnotetext@font% \reset@font\footnotesize%
8086         \@bidityftesidenote@margin@par% use parindent and parskip settings for marginal text
8087         \vspace*{-1\baselineskip}\noindent%
8088         \protected@edef\@currentlabel{%
8089             \csname p@footnote\endcsname\@thefnmark%
8090         }%
8091         \color@begingroup%
8092             \@makefnstext{%
8093                 \ignorespaces#2%
8094             }%
8095         \color@endgroup%
8096     }%
8097 }%
8098 }
8099 %
8100 % Define \sidenote command. Can handle \cite.
8101 \newlength{\@bidityftesidenote@sidenote@vertical@offset}
8102 \setlength{\@bidityftesidenote@sidenote@vertical@offset}{0pt}
8103 % #1 = footnote num, #2 = vertical offset, #3 = footnote text

```



```

8104 \long\def\@bidityftesidenote@sidenote[#1][#2]#3{%
8105 \let\cite\@bidityftesidenote@infootnote@cite% use the in-sidenote \cite command
8106 \gdef\@bidityftesidenote@citations{}% clear out any old citations
8107 \ifthenelse{\NOT\isempty{#2}}{%
8108 \gsetlength{\@bidityftesidenote@sidenote@vertical@offset}{#2}%
8109 }{%
8110 \gsetlength{\@bidityftesidenote@sidenote@vertical@offset}{0pt}%
8111 }%
8112 \ifthenelse{\isempty{#1}}{%
8113 % no specific footnote number provided
8114 \stepcounter\@mpfn%
8115 \protected@xdef\@thefnmark{\thempfn}%
8116 \@footnotemark\@footnotetext[\@bidityftesidenote@sidenote@vertical@offset]{#3}%
8117 }{%
8118 % specific footnote number provided
8119 \begingroup%
8120 \csname c@\@mpfn\endcsname #1\relax%
8121 \unrestored@protected@xdef\@thefnmark{\thempfn}%
8122 \endgroup%
8123 \@footnotemark\@footnotetext[\@bidityftesidenote@sidenote@vertical@offset]{#3}%
8124 }%
8125 \@bidityftesidenote@print@citations% print any citations
8126 \let\cite\@bidityftesidenote@normal@cite% go back to using normal in-text \cite comm
8127 \let\LTRcite\@bidityfteLTRsidenote@normal@cite% go back to using normal in-text \LTR
8128 \let\RTLcite\@bidityfteRTLsidenote@normal@cite% go back to using normal in-text \RTL
8129 \unskip\ignorespaces% remove extra white space
8130 \kern-\multiplefootnotemarker% remove \kern left behind by sidenote
8131 \kern\multiplefootnotemarker\relax% add new \kern here to replace the one we yanked
8132 }
8133 \long\def\@LTRbidityftesidenote@sidenote[#1][#2]#3{%
8134 \let\cite\@bidityftesidenote@infootnote@cite% use the in-sidenote \cite command
8135 \gdef\@bidityftesidenote@citations{}% clear out any old citations
8136 \ifthenelse{\NOT\isempty{#2}}{%
8137 \gsetlength{\@bidityftesidenote@sidenote@vertical@offset}{#2}%
8138 }{%
8139 \gsetlength{\@bidityftesidenote@sidenote@vertical@offset}{0pt}%
8140 }%
8141 \ifthenelse{\isempty{#1}}{%
8142 % no specific footnote number provided
8143 \stepcounter\@mpfn%
8144 \protected@xdef\@thefnmark{\thempfn}%
8145 \@footnotemark\@LTRfootnotetext[\@bidityftesidenote@sidenote@vertical@offset]{#3}%
8146 }{%
8147 % specific footnote number provided
8148 \begingroup%
8149 \csname c@\@mpfn\endcsname #1\relax%
8150 \unrestored@protected@xdef\@thefnmark{\thempfn}%
8151 \endgroup%
8152 \@footnotemark\@LTRfootnotetext[\@bidityftesidenote@sidenote@vertical@offset]{#3}%
8153 }%
8154 \@bidityftesidenote@print@citations% print any citations
8155 \let\cite\@bidityftesidenote@normal@cite% go back to using normal in-text \cite comm
8156 \let\LTRcite\@bidityfteLTRsidenote@normal@cite% go back to using normal in-text \LTR
8157 \let\RTLcite\@bidityfteRTLsidenote@normal@cite% go back to using normal in-text \RTL

```



```

8158 \unskip\ignorespaces%           remove extra white space
8159 \kern-\multiplefootnotemarker%   remove \kern left behind by sidenote
8160 \kern\multiplefootnotemarker\relax% add new \kern here to replace the one we yanked
8161 }
8162 \long\def\@RTLbidityftesidenote@sidenote[#1][#2]#3{%
8163 \let\cite\@bidityftesidenote@infootnote@cite%   use the in-sidenote \cite command
8164 \gdef\@bidityftesidenote@citations{}%           clear out any old citations
8165 \ifthenelse{\NOT\isempty{#2}}{%
8166 \gsetlength{\@bidityftesidenote@sidenote@vertical@offset}{#2}%
8167 }{%
8168 \gsetlength{\@bidityftesidenote@sidenote@vertical@offset}{0pt}%
8169 }%
8170 \ifthenelse{\isempty{#1}}{%
8171 % no specific footnote number provided
8172 \stepcounter\@mpfn%
8173 \protected@xdef\@thefnmark{\thempfn}%
8174 \@footnotemark\@RTLfootnotetext[\@bidityftesidenote@sidenote@vertical@offset]{#3}%
8175 }{%
8176 % specific footnote number provided
8177 \begingroup%
8178 \csname c@\@mpfn\endcsname #1\relax%
8179 \unrestored@protected@xdef\@thefnmark{\thempfn}%
8180 \endgroup%
8181 \@footnotemark\@RTLfootnotetext[\@bidityftesidenote@sidenote@vertical@offset]{#3}%
8182 }%
8183 \@bidityftesidenote@print@citations%           print any citations
8184 \let\cite\@bidityftesidenote@normal@cite%       go back to using normal in-text \cite comm
8185 \let\LTRcite\@bidityfteLTRsidenote@normal@cite% go back to using normal in-text \LTR
8186 \let\RTLcite\@bidityfteRTLsidenote@normal@cite% go back to using normal in-text \RTL
8187 \unskip\ignorespaces%           remove extra white space
8188 \kern-\multiplefootnotemarker%   remove \kern left behind by sidenote
8189 \kern\multiplefootnotemarker\relax% add new \kern here to replace the one we yanked
8190 }
8191 \newcommand{\sidenote}{\@optparams{\@bidityftesidenote@sidenote}{[ ] [Opt]}}
8192 \newcommand{\LTRsidenote}{\@optparams{\@LTRbidityftesidenote@sidenote}{[ ] [Opt]}}
8193 \newcommand{\RTLsidenote}{\@optparams{\@RTLbidityftesidenote@sidenote}{[ ] [Opt]}}
8194 \bidi@patch@AfterPackage{bidi}{%
8195 \renewcommand{\footnote}{\@optparams{\@bidityftesidenote@sidenote}{[ ] [Opt]}}%
8196 \renewcommand{\LTRfootnote}{\@optparams{\@LTRbidityftesidenote@sidenote}{[ ] [Opt]}}%
8197 \renewcommand{\RTLfootnote}{\@optparams{\@RTLbidityftesidenote@sidenote}{[ ] [Opt]}}%
8198 }
8199 %%
8200 % Sidenote without the footnote mark
8201 \newcommand\marginnote[2] [Opt]{%
8202 \let\cite\@bidityftesidenote@infootnote@cite%   use the in-sidenote \cite command
8203 \gdef\@bidityftesidenote@citations{}%           clear out any old citations
8204 \bidityftesidenotemarginpar{\hbox{} \vspace*{#1}}\@bidityftesidenote@marginnote@font\@bidity
8205 \@bidityftesidenote@print@citations%           print any citations
8206 \let\cite\@bidityftesidenote@normal@cite%       go back to using normal in-text \cite comm
8207 \let\LTRcite\@bidityfteLTRsidenote@normal@cite% go back to using normal in-text \LTR
8208 \let\RTLcite\@bidityfteRTLsidenote@normal@cite% go back to using normal in-text \RTL
8209 }
8210 \newcommand\LTRmarginnote[2] [Opt]{%
8211 \let\cite\@bidityftesidenote@infootnote@cite%   use the in-sidenote \cite command

```



```

8212 \gdef\@bidityftesidenote@citations{%          clear out any old citations
8213 \LTRbidityftesidenotemarginpar{\hbox{} \vspace*{#1}\@bidityftesidenote@LTRmarginnote@font\@
8214 \@bidityftesidenote@print@citations%          print any citations
8215 \let\cite\@bidityftesidenote@normal@cite%      go back to using normal in-text \cite comm
8216 \let\LTRcite\@bidityfteLTRsidenote@normal@cite% go back to using normal in-text \LTR
8217 \let\RTLcite\@bidityfteRTLSidenote@normal@cite% go back to using normal in-text \RTL
8218 }
8219 \newcommand\RTLmarginnote[2][Opt]{%
8220 \let\cite\@bidityftesidenote@infootnote@cite% use the in-sidenote \cite command
8221 \gdef\@bidityftesidenote@citations{%          clear out any old citations
8222 \RTLbidityftesidenotemarginpar{\hbox{} \vspace*{#1}\@bidityftesidenote@RTLmarginnote@font\@
8223 \@bidityftesidenote@print@citations%          print any citations
8224 \let\cite\@bidityftesidenote@normal@cite%      go back to using normal in-text \cite comm
8225 \let\LTRcite\@bidityfteLTRsidenote@normal@cite% go back to using normal in-text \LTR
8226 \let\RTLcite\@bidityfteRTLSidenote@normal@cite% go back to using normal in-text \RTL
8227 }

```

## 55 File bidityftetoc.sty

```

8228 \NeedsTeXFormat{LaTeX2e}
8229 \ProvidesPackage{bidityftetoc}[2011/06/17 v0.1
8230 bidi implementation of tuftes toc]
8231 \RequirePackage{titlesec,titletoc,xifthen,biditytools}
8232 \newcommand{\@bidityftetoc@pkgname}{bidityftetoc}
8233 \newcommand{\@bidityftetocError}[2]{\PackageError{\@bidityftetoc@pkgname}{#1}{#2}}
8234 %%
8235 % Turn off section numbering
8236 \setcounter{secnumdepth}{-1}
8237 \newboolean{\@bidityftetoc@toc}
8238 \setboolean{\@bidityftetoc@toc}{true}
8239 \DeclareOption{notoc}{\setboolean{\@bidityftetoc@toc}{false}}
8240 \DeclareOption{toc}{\setboolean{\@bidityftetoc@toc}{true}}
8241 \ProcessOptions
8242 %%
8243 % Make Tuftian-style section headings and TOC formatting
8244 \bidi@patch@AfterPackage{bidi}{%
8245 \titleformat{\chapter}%
8246 [display]% shape
8247 {\relax\ifthenelse{\NOT\boolean{\@bidityftefloat@symmetric}}{\begin{fullwidth}}{}}% format
8248 {\itshape\huge\thechapter}% label
8249 {Opt}% horizontal separation between label and title body
8250 {\huge\rmfamily\itshape}% before the title body
8251 [\ifthenelse{\NOT\boolean{\@bidityftefloat@symmetric}}{\end{fullwidth}}{}}% after the title
8252 \titleformat{\section}%
8253 [hang]% shape
8254 {\normalfont\Large\itshape}% format applied to label+text
8255 {\thesection}% label
8256 {1em}% horizontal separation between label and title body
8257 {}% before the title body
8258 []% after the title body
8259 \titleformat{\subsection}%
8260 [hang]% shape
8261 {\normalfont\large\itshape}% format applied to label+text
8262 {\thesubsection}% label

```



```

8263 {1em}% horizontal separation between label and title body
8264 {}% before the title body
8265 []% after the title body
8266 \titleformat{\paragraph}%
8267 [runin]% shape
8268 {\normalfont\itshape}% format applied to label+text
8269 {\theparagraph}% label
8270 {1em}% horizontal separation between label and title body
8271 {}% before the title body
8272 []% after the title body
8273 \titlespacing*{\chapter}{0pt}{50pt}{40pt}
8274 \titlespacing*{\section}{0pt}{3.5ex plus 1ex minus .2ex}{2.3ex plus .2ex}
8275 \titlespacing*{\subsection}{0pt}{3.25ex plus 1ex minus .2ex}{1.5ex plus.2ex}
8276 }
8277 % Subsubsection and following section headings shouldn't be used.
8278 % See Bringhurst's _The Elements of Typography_, section 4.2.2.
8279 \renewcommand\subsubsection{%
8280 \bidityftetocError{\noexpand\subsubsection is undefined by this class.%
8281 \MessageBreak See Robert Bringhurst's _The Elements of
8282 \MessageBreak Typographic Style_, section 4.2.2.
8283 \MessageBreak \noexpand\subsubsection was used}
8284 {From Bringhurst's _The Elements of Typographic Style_, section 4.2.2: Use as
8285 \MessageBreak many levels of headings as you need, no more and no fewer. Also see the m
8286 \MessageBreak related threads on Ask E.T. at http://www.edwardbidityftetoc.com/.}
8287 }
8288 \renewcommand\subparagraph{%
8289 \bidityftetocError{\noexpand\subparagraph is undefined by this class.%
8290 \MessageBreak See Robert Bringhurst's _The Elements of
8291 \MessageBreak Typographic Style_, section 4.2.2.
8292 \MessageBreak \noexpand\subparagraph was used}
8293 {From Bringhurst's _The Elements of Typographic Style_, section 4.2.2: Use as
8294 \MessageBreak many levels of headings as you need, no more and no fewer. Also see the m
8295 \MessageBreak related threads on Ask E.T. at http://www.edwardbidityftetoc.com/.}
8296 }
8297 % Formatting for main TOC (printed in front matter)
8298 % {section} [left] {above} {before w/label} {before w/o label} {filler + page} [after]
8299 \ifthenelse{\boolean{@bidityftetoc@toc}}{%
8300 \bidi@patch@AfterPackage{bidi}{%
8301 \titlecontents{part}% FIXME
8302 [0em] % distance from left margin
8303 {\vspace{1.5\baselineskip}\begin{fullwidth}\LARGE\rmfamily\itshape} % above (global form
8304 {\contentslabel{2em}} % before w/label (label = ``II'')
8305 {} % before w/o label
8306 {\rmfamily\upshape\qqquad\thecontentspage} % filler + page (leaders and page num)
8307 [\end{fullwidth}] % after
8308 \titlecontents{chapter}%
8309 [0em] % distance from left margin
8310 {\vspace{1.5\baselineskip}\begin{fullwidth}\LARGE\rmfamily\itshape} % above (global form
8311 {\hspace*{0em}\contentslabel{2em}} % before w/label (label = ``2'')
8312 {\hspace*{0em}} % before w/o label
8313 {\rmfamily\upshape\qqquad\thecontentspage} % filler + page (leaders and page num)
8314 [\end{fullwidth}] % after
8315 \titlecontents{section}% FIXME
8316 [0em] % distance from left margin

```



```

8317 {\vspace{0\baselineskip}\begin{fullwidth}\Large\rmfamily\itshape} % above (global format
8318 {\hspace*{2em}\contentslabel{2em}} % before w/label (label = ``2.6'')
8319 {\hspace*{2em}} % before w/o label
8320 {\rmfamily\upshape\qquad\thecontentspage} % filler + page (leaders and page num)
8321 [\end{fullwidth}] % after
8322 \titlecontents{subsection}% FIXME
8323 [0em] % distance from left margin
8324 {\vspace{0\baselineskip}\begin{fullwidth}\large\rmfamily\itshape} % above (global format
8325 {\hspace*{4em}\contentslabel{4em}} % before w/label (label = ``2.6.1'')
8326 {\hspace*{4em}} % before w/o label
8327 {\rmfamily\upshape\qquad\thecontentspage} % filler + page (leaders and page num)
8328 [\end{fullwidth}] % after
8329 \titlecontents{paragraph}% FIXME
8330 [0em] % distance from left margin
8331 {\vspace{0\baselineskip}\begin{fullwidth}\normalsize\rmfamily\itshape} % above (global f
8332 {\hspace*{6em}\contentslabel{2em}} % before w/label (label = ``2.6.0.0.1'')
8333 {\hspace*{6em}} % before w/o label
8334 {\rmfamily\upshape\qquad\thecontentspage} % filler + page (leaders and page num)
8335 [\end{fullwidth}] % after
8336 }%
8337 {}
8338 %%
8339 % Format lists of figures/tables
8340 \renewcommand\listoffigures{%
8341 \ifundefined{chapter}%
8342 {\section*{\listfigurename}}%
8343 {\chapter*{\listfigurename}}%
8344 % \begin{fullwidth}%
8345 % \@starttoc{lof}%
8346 % \end{fullwidth}%
8347 }
8348 \renewcommand\listoftables{%
8349 \ifundefined{chapter}%
8350 {\section*{\listtablename}}%
8351 {\chapter*{\listtablename}}%
8352 % \begin{fullwidth}%
8353 % \@starttoc{lot}%
8354 % \end{fullwidth}%
8355 }
8356 \newcommand{\@biditytetoc@lof@line}[2]{%
8357 % #1 is the figure/table number and its caption text
8358 % #2 is the page number on which the figure/table appears
8359 \leftskip 0.0em
8360 \rightskip 0em
8361 \parfillskip 0em plus 1fil
8362 \parindent 0.0em
8363 \@afterindenttrue
8364 \interlinepenalty\@M
8365 \leavevmode
8366 \@tempdima 2.0em
8367 \if@RTL\advance\rightskip\@tempdima\else\advance\leftskip\@tempdima\fi
8368 \null\nobreak\hskip -\if@RTL\rightskip\else\leftskip\fi
8369 {#1}\nobreak\qquad\nobreak#2%
8370 \par%

```



```

8371 }
8372 \renewcommand*\l@figure{\@biditytetoc\lof@line}
8373 \let\l@table\l@figure

```

## 56 File biditytgeneralstructure.sty

```

8374 \NeedsTeXFormat{LaTeX2e}
8375 \ProvidesPackage{biditytgeneralstructure}[2011/06/18 v0.1
8376 bidi implementation of tufte general structure]
8377 \renewcommand\small{%
8378   \@setfontsize\small\@ixpt{12}%
8379   \abovedisplayskip 8.5\p@ \@plus3\p@ \@minus4\p@
8380   \abovedisplayshortskip \z@ \@plus2\p@
8381   \belowdisplayshortskip 4\p@ \@plus2\p@ \@minus2\p@
8382   \def\@listi{\leftmargin\leftmargini
8383     \topsep 4\p@ \@plus2\p@ \@minus2\p@
8384     \parsep 2\p@ \@plus\p@ \@minus\p@
8385     \itemsep \parsep}%
8386   \belowdisplayskip \abovedisplayskip
8387 }
8388 \renewcommand\scriptsize{\@setfontsize\scriptsize\@viipt\@viiipt}
8389 \renewcommand\tiny{\@setfontsize\tiny\@vpt\@vpt}
8390 \renewcommand\large{\@setfontsize\large\@xipt{15}}
8391 \renewcommand\Large{\@setfontsize\Large\@xiipt{16}}
8392 \renewcommand\LARGE{\@setfontsize\LARGE\@xivpt{18}}
8393 \renewcommand\huge{\@setfontsize\huge\@xxpt{30}}
8394 \renewcommand\Huge{\@setfontsize\Huge{24}{36}}
8395 \setlength\leftmargini {1pc}
8396 \setlength\leftmarginii {1pc}
8397 \setlength\leftmarginiii {1pc}
8398 \setlength\leftmarginiv {1pc}
8399 \setlength\leftmarginv {1pc}
8400 \setlength\leftmarginvi {1pc}
8401 \setlength\labelsep {.5pc}
8402 \setlength\labelwidth {\leftmargini}
8403 \addtolength\labelwidth{-\labelsep}
8404 \setlength{\parindent}{1.0pc}%
8405 \setlength{\parskip}{0pt}%
8406 \RequirePackage{ragged2e}
8407 \setlength{\RaggedRightRightskip}{\z@ plus 0.08\hsize}
8408 % Paragraph indentation and separation for normal text
8409 \newcommand{\@biditytgeneralstructure@reset@par}{%
8410   \setlength{\RaggedRightParindent}{1.0pc}%
8411   \setlength{\JustifyingParindent}{1.0pc}%
8412   \setlength{\parindent}{1pc}%
8413   \setlength{\parskip}{0pt}%
8414 }
8415 \@biditytgeneralstructure@reset@par
8416 % Require paralist package for tighter lists
8417 \RequirePackage{paralist}
8418 % Add rightmargin to compactenum
8419 \def\@compactenum@{%
8420   \expandafter\list\csname label\@enumctr\endcsname{%
8421     \usecounter{\@enumctr}%

```



```

8422 \rightmargin=2em% added this
8423 \parsep\plparsep
8424 \itemsep\plitemsep
8425 \topsep\pltopsep
8426 \partopsep\plpartopsep
8427 \def\makelabel##1{\hss\llap{##1}}
8428 %%
8429 % An environment for paragraph-style section
8430 \providecommand\newthought[1]{%
8431 \addvspace{1.0\baselineskip plus 0.5ex minus 0.2ex}%
8432 \noindent\textbf{#1}%
8433 }
8434 %%
8435 % Redefine the display environments (quote, quotation, etc.)
8436 \renewenvironment{verse}
8437 {\let\\\@centercr
8438 \list{}\itemsep \z@
8439 \itemindent -1pc%
8440 \listparindent\itemindent
8441 \rightmargin \leftmargin
8442 \advance\leftmargin 1pc}%
8443 \small%
8444 \item\relax}
8445 {\endlist}
8446 \renewenvironment{quotation}
8447 {\list{}\listparindent 1pc%
8448 \itemindent \listparindent
8449 \rightmargin \leftmargin
8450 \parsep \z@ \@plus\p@}%
8451 \small%
8452 \item\relax\noindent\ignorespaces}
8453 {\endlist}
8454 \renewenvironment{quote}
8455 {\list{}\listparindent\rightmargin\leftmargin}%
8456 \small%
8457 \item\relax}
8458 {\endlist}
8459 % Italicize description run-in headings (instead of the default bold)
8460 \renewcommand*\descriptionlabel[1]{\hspace\labelsep\normalfont\em #1}
8461 %%
8462 % Redefine \bibsection to not mark the running heads.
8463 % (Code modified from natbib.sty.)
8464 \@ifundefined{chapter}%
8465 {\renewcommand\bibsection{\section*{\refname}}}
8466 {\@ifundefined{NAT@sectionbib}%
8467 {\renewcommand\bibsection{\chapter{\bibname}}}
8468 {\renewcommand\bibsection{\section*{\bibname}}}}
8469 \RequirePackage{multicol}
8470 \renewenvironment{theindex}{%
8471 \@ifundefined{chapter}%
8472 {\section*{\indexname}}%
8473 {\chapter{\indexname}}%
8474 \begin{fullwidth}%
8475 \small%

```



```

8476 \parskip0pt%
8477 \parindent0pt%
8478 \let\item\@idxitem%
8479 \begin{multicols}{3}%
8480 }{%
8481 \end{multicols}%
8482 \end{fullwidth}%
8483 }
8484 \AtBeginDocument{%
8485 \renewcommand\@idxitem{\par\hangindent \if@RTL-\fi2em}%
8486 \renewcommand\subitem{\par\hangindent \if@RTL-\fi3em\hspace*{1em}}%
8487 \renewcommand\subsubitem{\par\hangindent \if@RTL-\fi4em\hspace*{2em}}%
8488 \renewcommand\indexspace{\par\addvspace{1.0\baselineskip plus 0.5ex minus 0.2ex}\relax}%
8489 \newcommand{\lettergroup}[1]{}% swallow the letter heading in the index

```

## 57 File `bidituftehyperref.sty`

```

8490 \NeedsTeXFormat{LaTeX2e}
8491 \ProvidesPackage{bidituftehyperref}[2011/06/18 v0.1
8492 bidi implementation of tufte hyperref]
8493 %%
8494 % Color
8495 \RequirePackage[usenames,dvipsnames,svgnames]{xcolor}%
8496 \newboolean{@bidituftehyperref@loadhyper}
8497 \setboolean{@bidituftehyperref@loadhyper}{true}
8498 \DeclareOption{hyper}{\setboolean{@bidituftehyperref@loadhyper}{true}}
8499 \DeclareOption{nohyper}{\setboolean{@bidituftehyperref@loadhyper}{false}}
8500 \ProcessOptions
8501 %% Loads the hyperref package and sets some default options.
8502 \newcommand{\bidituftehyperrefLoadHyperref}{%
8503 \RequirePackage[hyperfootnotes=false,colorlinks=true]{hyperref}
8504 \hypersetup{%
8505     bookmarksdepth = section,
8506     citecolor = DarkGreen,
8507     linkcolor = DarkBlue,
8508     pagecolor = DarkBlue,
8509     urlcolor = DarkGreen,
8510 }%
8511 }
8512 \ifthenelse{\boolean{@bidituftehyperref@loadhyper}}{%
8513 \bidituftehyperrefLoadHyperref%
8514 }{% hyperfootnotes override our modifications to the \footnote* and \@footnote* commands.
8515 \PassOptionsToPackage{hyperfootnotes=false}{hyperref}
8516 }

```

## 58 File `bidituftetitle.sty`

```

8517 \NeedsTeXFormat{LaTeX2e}
8518 \ProvidesPackage{bidituftetitle}[2011/06/18 v0.1
8519 bidi implementation of tufte title]
8520 \RequirePackage{biditools}
8521 %%
8522 % 'titlepage' option -- creates a full title page with \maketitle
8523 \newboolean{@bidituftetitle@titlepage}

```



```

8524 \DeclareOption{titlepage}{\setboolean{@bidityttitle@titlepage}{true}}
8525 \DeclareOption{notitlepage}{\setboolean{@bidityttitle@titlepage}{false}}
8526 % Default 'book' and 'handout' options
8527 \@ifclassloaded{book}{%
8528 \ExecuteOptions{titlepage}}{%
8529 \@ifclassloaded{article}{%
8530 \ExecuteOptions{notitlepage}}%
8531 {}}
8532 \ProcessOptions
8533 %%
8534 % Modified \title, \author, and \date commands. These store the
8535 % (footnote-less) values in \plaintitle, \plainauthor, and \thedata, respectively.
8536 \newcommand{\plaintitle}{}% plain-text-only title
8537 \newcommand{\plainauthor}{}% plain-text-only author
8538 \newcommand{\plainpublisher}{}% plain-text-only publisher
8539 \newcommand{\thanklesstitle}{}% full title text minus \thanks{}
8540 \newcommand{\thanklessauthor}{}% full author text minus \thanks{}
8541 \newcommand{\thanklesspublisher}{}% full publisher minus \thanks{}
8542 \newcommand{\@publisher}{}% full publisher with \thanks{}
8543 \newcommand{\thedata}{\today}
8544 \bidi@patch@AfterPackage{bidi}{%
8545 \renewcommand{\thanks}[1]{\footnote{#1}}
8546 \renewcommand{\LTRthanks}[1]{\LTRfootnote{#1}}
8547 \renewcommand{\RTLthanks}[1]{\RTLfootnote{#1}}
8548 }
8549 \renewcommand{\title}[2][]{%
8550 \gdef\@title{#2}%
8551 \begingroup%
8552 % TODO store contents of \thanks command
8553 \renewcommand{\thanks}[1]{}% swallow \thanks contents
8554 \renewcommand{\LTRthanks}[1]{}% swallow \LTRthanks contents
8555 \renewcommand{\RTLthanks}[1]{}% swallow \RTLthanks contents
8556 \protected@xdef\thanklesstitle{#2}%
8557 \endgroup%
8558 \ifthenelse{\isempty{#1}}%
8559 {\renewcommand{\plaintitle}{\thanklesstitle}}% use thankless title
8560 {\renewcommand{\plaintitle}{#1}}% use provided plain-text title
8561 \@ifundefined{hypersetup}%
8562 {}% hyperref is not loaded; do nothing
8563 {\hypersetup{pdftitle={\plaintitle}}}% set the PDF metadata title
8564 }
8565 \let\@author\@empty% suppress default latex.ltx ``no author'' warning
8566 \renewcommand{\author}[2][]{%
8567 \ifthenelse{\isempty{#2}}{}{\gdef\@author{#2}}%
8568 \begingroup%
8569 % TODO store contents of \thanks command
8570 \renewcommand{\thanks}[1]{}% swallow \thanks contents
8571 \renewcommand{\LTRthanks}[1]{}% swallow \LTRthanks contents
8572 \renewcommand{\RTLthanks}[1]{}% swallow \RTLthanks contents
8573 \protected@xdef\thanklessauthor{#2}%
8574 \endgroup%
8575 \ifthenelse{\isempty{#1}}%
8576 {\renewcommand{\plainauthor}{\thanklessauthor}}% use thankless author
8577 {\renewcommand{\plainauthor}{#1}}% use provided plain-text author

```



```

8578 \@ifundefined{hypersetup}%
8579 {}% hyperref is not loaded; do nothing
8580 {\hypersetup{pdfauthor={\plainauthor}}}% set the PDF metadata author
8581 }
8582 \renewcommand{\date}[1]{%
8583 \gdef\@date{#1}%
8584 \begingroup%
8585 % TODO store contents of \thanks command
8586 \renewcommand{\thanks}[1]{}% swallow \thanks contents
8587 \renewcommand{\LTRthanks}[1]{}% swallow \LTRthanks contents
8588 \renewcommand{\RTLthanks}[1]{}% swallow \RTLthanks contents
8589 \protected@xdef\thedata{#1}%
8590 \endgroup%
8591 }
8592 %%
8593 % Provides a \publisher command to set the publisher
8594 \newcommand{\publisher}[2][]{%
8595 \gdef\@publisher{#2}%
8596 \begingroup%
8597 \renewcommand{\thanks}[1]{}% swallow \thanks contents
8598 \renewcommand{\LTRthanks}[1]{}% swallow \LTRthanks contents
8599 \renewcommand{\RTLthanks}[1]{}% swallow \RTLthanks contents
8600 \protected@xdef\thanklesspublisher{#2}%
8601 \endgroup%
8602 \ifthenelse{\isempty{#1}}
8603 {\renewcommand{\plainpublisher}{\thanklesspublisher}}% use thankless publisher
8604 {\renewcommand{\plainpublisher}{#1}}% use provided plain-text publisher
8605 }
8606 %%
8607 % Produces a full title page
8608 \newcommand{\maketitlepage}[0]{%
8609 \cleardoublepage%
8610 {%
8611 \bfseries%
8612 \begin{fullwidth}%
8613 \fontsize{18}{20}\selectfont\par\noindent\thanklessauthor%
8614 \vspace{11.5pc}%
8615 \fontsize{36}{40}\selectfont\par\noindent\thanklesstitle%
8616 \vfill%
8617 \fontsize{14}{16}\selectfont\par\noindent\thanklesspublisher%
8618 \end{fullwidth}%
8619 }
8620 \thispagestyle{empty}%
8621 \clearpage%
8622 }
8623 %%
8624 % Title block
8625 \bidi@AfterEndPreamble{%
8626 \renewcommand{\maketitle}{%
8627 \newpage%
8628 \global\@topnum\z@% prevent floats from being placed at the top of the page
8629 \begingroup%
8630 \setlength{\parindent}{0pt}%
8631 \setlength{\parskip}{4pt}%

```



```

8632 \let\@title\@empty%
8633 \let\@author\@empty%
8634 \let\@date\@empty%
8635 \gdef\@title{\LARGE\itshape\@title\par}%
8636 \gdef\@author{\Large\itshape\@author\par}%
8637 \gdef\@date{\Large\itshape\@date\par}%
8638 \@title%
8639 \@author%
8640 \@date%
8641 \endgroup%
8642 \thispagestyle{plain}% suppress the running head
8643 }%
8644 }
8645 %%
8646 % Title page (if the `titlepage' option was passed to the bidentuftetitle-handout
8647 % class.)
8648 \bidi@AfterEndPreamble{%
8649 \ifthenelse{\boolean{@bidentuftetitle@titlepage}}{
8650 {\renewcommand{\maketitle}{\maketitlepage}}
8651 {}
8652 }
8653 %%
8654 % When \cleardoublepage is called, produce a blank (empty) page -- i.e.,
8655 % without headers and footers
8656 \def\cleardoublepage{\clearpage\if@twoside\ifodd\c@page\else
8657 \hbox{}
8658 %\vspace*{\fill}
8659 %\begin{center}
8660 % This page intentionally contains only this sentence.
8661 %\end{center}
8662 %\vspace{\fill}
8663 \thispagestyle{empty}
8664 \newpage
8665 \if@twocolumn\hbox{}\newpage\fi\fi\fi}

```

## 59 File bidentufte-handout.cls

```

8666 \NeedsTeXFormat{LaTeX2e}[1994/06/01]
8667 \ProvidesClass{bidentufte-handout}[2011/06/18 v0.1 bidentufte-handout class]
8668 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{article}}
8669 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidentuftefloat}}
8670 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidentuftetoc}}
8671 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidentuftehyperref}}
8672 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidentuftetitle}}
8673 \ProcessOptions\relax
8674 \LoadClass{article}
8675 \RequirePackage{bidentuftefloat}
8676 \RequirePackage{bidentuftesidenote}
8677 \RequirePackage{bidentuftetoc}
8678 \RequirePackage{bidentuftegeneralstructure}
8679 \RequirePackage{bidentuftehyperref}
8680 \RequirePackage{bidentuftetitle}
8681 \renewenvironment{abstract}
8682 {\begin{quotation}}

```



```

8683   {\end{quotation}}
8684 \AtBeginDocument{%
8685   \IfFileExists{biditytfe-handout.cfg}
8686     {\input{biditytfe-handout.cfg}
8687      \ClassInfo{biditytfe-handout}{Loading biditytfe-handout configuration file \@gobble}}
8688   }%
8689 }

```

## 60 File biditytfe-book.cls

```

8690 \NeedsTeXFormat{LaTeX2e}[1994/06/01]
8691 \ProvidesClass{biditytfe-book}[2011/06/18 v0.1 biditytfe-book class]
8692 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{book}}
8693 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{biditytfefloat}}
8694 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{biditytftetoc}}
8695 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{biditytfehyperref}}
8696 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{biditytftetitle}}
8697 \ProcessOptions\relax
8698 \LoadClass{book}
8699 \RequirePackage{biditytfefloat}
8700 \RequirePackage{biditytfesidenote}
8701 \RequirePackage{biditytftetoc}
8702 \RequirePackage{biditytfegeneralstructure}
8703 \RequirePackage{biditytfehyperref}
8704 \RequirePackage{biditytftetitle}
8705 %%
8706 % Set up any book-specific stuff now
8707 %%
8708 % The front matter in Tufte's /Beautiful Evidence/ contains everything up
8709 % to the opening page of Chapter 1. The running heads, when they appear,
8710 % contain only the (arabic) page number in the outside corner.
8711 %\newif\if@mainmatter \@mainmattertrue
8712 \renewcommand\frontmatter{%
8713   \cleardoublepage%
8714   \@mainmatterfalse%
8715   \pagenumbering{arabic}%
8716   %\pagestyle{plain}%
8717   \fancyhf{}%
8718   \ifthenelse{\boolean{@biditytfefloat@twoside}}{%
8719     {\fancyhead[LE,RO]{\thepage}}%
8720     {\fancyhead[RE,RO]{\thepage}}%
8721   }
8722 %%
8723 % The main matter in Tufte's /Beautiful Evidence/ doesn't restart the page
8724 % numbering---it continues where it left off in the front matter.
8725 \renewcommand\mainmatter{%
8726   \cleardoublepage%
8727   \@mainmattertrue%
8728   \fancyhf{}%
8729   \ifthenelse{\boolean{@biditytfefloat@twoside}}{%
8730     {\renewcommand{\chaptermark}[1]{\markboth{##1}{}}}%
8731     {\fancyhead[LE]{\thepage\quad\smallcaps{\newlinetospace{\plaintitle}}}% book title
8732     {\fancyhead[RO]{\smallcaps{\newlinetospace{\leftmark}}\quad\thepage}}% chapter title
8733     {\fancyhead[RE,RO]{\smallcaps{\newlinetospace{\plaintitle}}\quad\thepage}}% book title

```



```

8734 }
8735 %%
8736 % The back matter contains appendices, indices, glossaries, endnotes,
8737 % bibliographies, list of contributors, illustration credits, etc.
8738 \renewcommand\backmatter{%
8739   \if@openright%
8740     \cleardoublepage%
8741   \else%
8742     \clearpage%
8743   \fi%
8744   \@mainmatterfalse%
8745 }
8746 %%
8747 % Only show the chapter titles in the table of contents
8748 \setcounter{tocdepth}{0}
8749 \AtBeginDocument{%
8750 \IfFileExists{biditufte-book.cfg}
8751   {\input{biditufte-book.cfg}
8752     \ClassInfo{biditufte-book}{Loading biditufte-book configuration file \@gobble}}
8753   {}%
8754 }

```

## 61 File bidipoem.sty

```

8755 \NeedsTeXFormat{LaTeX2e}
8756 \ProvidesPackage{bidipoem}%
8757 [2019/03/03 v1.0 Environments for typesetting Persian traditional and modern poems]
8758
8759 % Usage:
8760 %
8761 % \Setversedim #1#2 % define the layout (within a group):
8762 % #1 = length of both half-verses
8763 % #2 = separation distance = length of a connection, if present
8764 % Variant:
8765 % \Setversedim #1[#2]#3 % for half-verses of unequal length
8766 % #1 = length of first (=right) half-verse
8767 % #2 = length of second (=left) half-verse
8768 % #3 = separation distance = length of a connection, if present
8769 %
8770 % \traditionalhalfverses #1#2 % typeset two separated half-verses
8771 % #1 = text of first (=right) half-verse
8772 % #2 = text of second (=left) half-verse
8773 % Variant:
8774 % \traditionalhalfverses #1[#2]#3 % typeset two connected half-verses
8775 % #1 = text of first (=right) half-verse
8776 % #2 = text of connection
8777 % #3 = text of second (=left) half-verse
8778 %
8779 % Alternative (if preferred):
8780 %
8781 % \traditionalconnverses #1#2#3 % = \traditionalhalfverses #1[#2]#3
8782
8783
8784 \newcommand*{\bidipoem@spreadbox}[2]{\hbox to #1{#2}}

```



```

8785
8786% define the layout, verses will be centered
8787
8788\newdimen \bidipoem@hvlen \newdimen \bidipoem@hvsep
8789\newdimen \bidipoem@hvind \newdimen \bidipoem@@hvlen
8790
8791\newcommand*{\Setversedim}[2]{% set lengths of half-verse, [separation]
8792\bidipoem@hvind \textwidth
8793\bidipoem@hvlen #1\relax \advance \bidipoem@hvind -\bidipoem@hvlen
8794\ifx [#2\def \bidipoem@next {\bidipoem@set@verseI []\else
8795\bidipoem@@hvlen \bidipoem@hvlen \def \bidipoem@next {\bidipoem@set@@verse {#2}}\fi \bidipoem
8796
8797\def \bidipoem@set@verseI [#1]{% optional parameter
8798\bidipoem@@hvlen #1\relax \bidipoem@set@@verse }
8799
8800\newcommand*{\bidipoem@set@@verse}[1]{% separation
8801\advance \bidipoem@hvind -\bidipoem@@hvlen \bidipoem@hvsep #1\relax
8802\advance \bidipoem@hvind -\bidipoem@hvsep \divide \bidipoem@hvind 2 }
8803
8804\newcommand*{\traditionalconnverses}[3]{% first half-verse, connection, second half-verse
8805\ifdim Opt > \bidipoem@hvind %
8806\bidipoem@spreadbox \bidipoem@hvlen {#1}\\ \hfill % first block
8807\else
8808\noindent \hskip \bidipoem@hvind \relax \bidipoem@spreadbox \bidipoem@hvlen {#1}\fi
8809\bidipoem@spreadbox \bidipoem@hvsep {#2}% separator
8810\bidipoem@spreadbox \bidipoem@@hvlen {#3}% second block
8811\par }
8812
8813% macro for two half verses
8814\newcommand*{\traditionalhalfverses}[2]{% optional parameter?
8815\ifx [#2\def\bidipoem@half@verses@next{\bidipoem@half@verses {#1}[]}%
8816\else\def\bidipoem@half@verses@next{\bidipoem@half@verses {#1}[\hfill]{#2}}\fi%
8817\bidipoem@half@verses@next}
8818
8819\def \bidipoem@half@verses #1[#2]#3{% first[mid]second
8820\traditionalconnverses {#1}{#2}{#3}}
8821
8822
8823{\catcode\^^M=\active % these lines must end with %
8824 \gdef\traditionalpoem@obeylines{\catcode\^^M=\active \let^^M\traditionalpoem@par}%
8825 \global\let^^M\traditionalpoem@par} % this is in case ^^M appears in a \write
8826{\catcode\^^M=\active % these lines must end with %
8827 \gdef\modernpoem@obeylines{\catcode\^^M=\active \let^^M\modernpoem@par}%
8828 \global\let^^M\modernpoem@par} % this is in case ^^M appears in a \write
8829\def\poemcolsepskip{.1\versewidth plus .1\versewidth minus .05\versewidth}
8830\def\poemmarginskip{1em plus 1fil minus 1em}
8831\def\poemextrabaseskip{0\baselineskip}
8832\def\poemskip{\medskip}
8833\newcommand{\bidipoem@openbox}{\leavevmode
8834 \hbox to.77778em{%
8835 \hfil\vrule
8836 \vbox to.675em{\hrule width.6em\vfil\hrule}%
8837 \vrule\hfil}}
8838\def\poemblocksep{\quad\hbox{\bidipoem@openbox}}

```



```

8839 \newdimen\versewidth
8840 \newtoks\bidipoem@p@ftn
8841 \def\poem@verse#1{%
8842 \ifdim\wd#1>\new@poem@width
8843 \xdef\new@poem@width{\the\wd#1}%
8844 \ifdim\new@poem@width>\poem@width
8845 \xdef\poem@width{\new@poem@width}%
8846 \global\let\poem@needrun\relax
8847 \fi
8848 \fi
8849 \hbox to\poem@width{\unhbox#1}%
8850 \global\bidipoem@p@ftn\expandafter{\expandafter}\the\bidipoem@p@ftn%
8851 }
8852 \def\poem@linebegin{\vadjust{\hskip\@flushglue\hskip\poemmargin\skip\relax}
8853 \def\poem@lineend{\nobreak\hskip\poemmargin\skip\hskip\@flushglue\vadjust{}}
8854 \def\poem@lineversesep{%
8855 \nobreak
8856 \hskip\z@ plus 1filll%
8857 \penalty600%
8858 \hskip\poemcolsepskip
8859 \hskip\z@ plus -2filll%
8860 \vadjust{}}%
8861 \nobreak
8862 \hskip\z@ plus 1filll%
8863 }
8864 \def\poem@lineparsebegin{%
8865 \halign\bgroup
8866 \global\setbox\verse@i=\hbox{%
8867 \let\@footnotetext\bidipoem@p@ftntext%
8868 \let\@LTRfootnotetext\bidipoem@p@LTRftntext%
8869 \let\@RTLfootnotetext\bidipoem@p@RTLftntext%
8870 \let\@xfootnotenext\bidipoem@p@xftntext%
8871 \let\@xfootnote\bidipoem@p@xfootnote%
8872 \let\@xLTRfootnotenext\bidipoem@p@xLTRftntext%
8873 \let\@xLTRfootnote\bidipoem@p@xLTRfootnote%
8874 \let\@xRTLfootnotenext\bidipoem@p@xRTLftntext%
8875 \let\@xRTLfootnote\bidipoem@p@xRTLfootnote%
8876 \ignorespaces##\unskip}&&
8877 \global\setbox\verse@ii=\hbox{%
8878 \let\@footnotetext\bidipoem@p@ftntext%
8879 \let\@LTRfootnotetext\bidipoem@p@LTRftntext%
8880 \let\@RTLfootnotetext\bidipoem@p@RTLftntext%
8881 \let\@xfootnotenext\bidipoem@p@xftntext%
8882 \let\@xfootnote\bidipoem@p@xfootnote%
8883 \let\@xLTRfootnotenext\bidipoem@p@xLTRftntext%
8884 \let\@xLTRfootnote\bidipoem@p@xLTRfootnote%
8885 \let\@xRTLfootnotenext\bidipoem@p@xRTLftntext%
8886 \let\@xRTLfootnote\bidipoem@p@xRTLfootnote%
8887 \ignorespaces##\unskip}
8888 \cr
8889 }
8890 \def\poem@lineparseend{%
8891 \crcr\egroup
8892 \vskip-\baselineskip

```



```

8893 }
8894 \def\traditionalpoem@cr{%
8895   \cr\poem@line
8896 }
8897 \newbox\verse@i
8898 \newbox\verse@ii
8899 \newif\ifpoem@started
8900
8901 \def\poem@line{%
8902 \poem@lineparseend
8903 \ifdim\wd\verse@i>\z@\global\poem@startedtrue\fi
8904 \ifdim\wd\verse@ii>\z@\global\poem@startedtrue\fi
8905 \ifpoem@started
8906   \ifdim\wd\verse@ii>\z@\else
8907     \nopagebreak[3]
8908   \fi
8909   \leavevmode
8910   \poem@linebegin
8911   \poem@verse\verse@i
8912   \ifdim\wd\verse@ii>\z@
8913     \poem@lineversesep
8914     \poem@verse\verse@ii
8915   \fi
8916   \poem@lineend
8917 %   \nopagebreak
8918   \par
8919   \vskip\poemextrabaseskip
8920 \fi
8921 \poem@lineparsebegin
8922 }
8923 \def\@traditionalpoem{%
8924 \stepcounter{poem@no}
8925   \ifnum\max@poem@no<\number\c@poem@no%
8926 \xdef\poem@width{\z@}%
8927   \else
8928 \xdef\poem@width{\poem@prop{poem@width}}%
8929 \fi
8930 \xdef\new@poem@width{\z@}%
8931 \global\versewidth=\poem@width
8932 \poemskip\par
8933 \begingroup
8934 \tabskip=\z@
8935 \parskip=\z@
8936 \parindent=\z@
8937 \parfillskip=\z@
8938 \rightskip=\z@
8939 \leftskip=\z@
8940 \widowpenalty=10000% No break between verses of the same line.
8941 \clubpenalty=10000% Same as above. Not really needed.
8942 \def\newblock{\hfil\poemblocksep\hfil\null}%
8943 \def\traditionalpoem@par{\traditionalpoem@cr}% Redefine \par for possible \obeylines
8944 \def\{\{\global\poem@startedtrue\traditionalpoem@cr\}%
8945 \global\poem@startedfalse
8946 \csname poem@obeylines\endcsname

```



```

8947 \let\poem@obeylines\relax
8948 \poem@lineparsebegin
8949 }
8950 \def\@endtraditionalpoem{%
8951 \cr
8952 \ifdim\wd\verse@i>\z@\poem@line\else\ifdim\wd\verse@ii>\z@\poem@line\else
8953 \noalign{%
8954 \skip0=\poemextrabaselineskip
8955 \vskip-\skip0
8956 \vskip-\baselineskip
8957 }%
8958 \fi\fi
8959 \poem@lineparseend
8960 \endgroup
8961 \par
8962 \vskip\baselineskip
8963 \poemskip
8964 \ifdim\new@poem@width<\poem@width
8965 \global\let\poem@needrun\relax
8966 \fi
8967 \poem@write@aux{\poem@width\romannumeral\c@poem@no}{\new@poem@width}%
8968 \ifx\AtEndDocument\undefined\poem@finish\fi
8969 \@endparenv
8970 }
8971
8972
8973 \long\def\bidipoem@p@ftntext#1{%
8974 \edef\@temp{x{\the\bidipoem@p@ftn\noexpand\footnotetext[\the\csname c@\mpfn\endcsname]}}%
8975 \global\bidipoem@p@ftn\expandafter{\@temp{x{#1}}}%
8976 \long\def\bidipoem@p@LTRftntext#1{%
8977 \edef\@tempxi{\the\bidipoem@p@ftn\noexpand\LTRfootnotetext[\the\csname c@\mpfn\endcsname]}}%
8978 \global\bidipoem@p@ftn\expandafter{\@tempxi{#1}}}%
8979 \long\def\bidipoem@p@RTLftntext#1{%
8980 \edef\@tempxii{\the\bidipoem@p@ftn\noexpand\RTLfootnotetext[\the\csname c@\mpfn\endcsname]}}%
8981 \global\bidipoem@p@ftn\expandafter{\@tempxii{#1}}}%
8982
8983 \long\def\bidipoem@p@xftntext[#1]#2{%
8984 \global\bidipoem@p@ftn\expandafter{\the\bidipoem@p@ftn\footnotetext[#1]{#2}}}
8985
8986 \long\def\bidipoem@p@xLTRftntext[#1]#2{%
8987 \global\bidipoem@p@ftn\expandafter{\the\bidipoem@p@ftn\LTRfootnotetext[#1]{#2}}}
8988
8989 \long\def\bidipoem@p@xRTLftntext[#1]#2{%
8990 \global\bidipoem@p@ftn\expandafter{\the\bidipoem@p@ftn\RTLfootnotetext[#1]{#2}}}
8991
8992 \def\bidipoem@p@xfootnote[#1]{%
8993 \begingroup
8994 \csname c@\mpfn\endcsname #1\relax
8995 \unrestored@protected@xdef\@thefnmark{\thempfn}%
8996 \endgroup
8997 \@footnotemark\bidipoem@p@xftntext[#1]}
8998
8999 \def\bidipoem@p@xLTRfootnote[#1]{%
9000 \begingroup

```



```

9001      \csname c@\@mpfn\endcsname #1\relax
9002      \unrestored@protected@xdef\@thefnmark{\thempfn}%
9003      \endgroup
9004      \@footnotemark\bidipoem@p@xLTRftntext[#1]}
9005
9006 \def\bidipoem@p@xRTLfootnote[#1]{%
9007     \begingroup
9008     \csname c@\@mpfn\endcsname #1\relax
9009     \unrestored@protected@xdef\@thefnmark{\thempfn}%
9010     \endgroup
9011     \@footnotemark\bidipoem@p@xRTLftntext[#1]}
9012
9013
9014
9015 \newenvironment{traditionalpoem}{\@traditionalpoem}{\@endtraditionalpoem}
9016 \expandafter\def\csname traditionalpoem*\endcsname{\let\poem@obeylines=\traditionalpoem@obey
9017 \expandafter\def\csname endtraditionalpoem*\endcsname{\endtraditionalpoem}
9018 \def\poem@finish{%
9019 \poem@write@aux{max@poem@no}{\number\c@poem@no}%
9020 \ifx\poem@needrun\relax
9021 \PackageWarning{bidipoem}{Unjustified poem.  Rerun XeLaTeX to get poem right}%
9022 \global\let\poem@needrun\undefined
9023 \fi
9024 }
9025 \ifx\AtEndDocument\undefined\else\AtEndDocument\poem@finish\fi
9026 \newcounter{poem@no}\setcounter{poem@no}{\z@}
9027 \ifx\max@poem@no\undefined
9028     \def\max@poem@no{0}%
9029 \fi
9030 \newcommand{\poem@prop}[1]{\@nameuse{#1@\romannumeral\c@poem@no}}
9031 \newcommand{\poem@write@aux}[2]{%
9032     \def\@x{\immediate\write\@auxout{\global\noexpand\@namedef{#1}{#2}}}%
9033     \@x
9034 }
9035 \def\@modernpoem{%
9036 \par
9037 \begingroup
9038 \parskip=\z@
9039 \parindent=\z@
9040 \def\[{ \@settab\@tabplus\ignorespaces}%
9041 \def\]\@tabminus\ignorespaces}%
9042 \def\newblock{\poemblocksep}%
9043 \let\newpoem@tabcr\@tabcr
9044 \def\modernpoem@par{% Redefine \par for possible \obeylines
9045     \ifpoem@started\else
9046         \ifdim\wd\@curline>\z@\global\poem@startedtrue\else
9047             \@stopfield
9048             \ifdim\wd\@curfield>\z@\global\poem@startedtrue\fi
9049             \@contfield
9050         \fi
9051     \fi
9052     \ifpoem@started\newpoem@tabcr\fi}%
9053 \def\@tabcr{\global\poem@startedtrue\newpoem@tabcr}%
9054 \global\poem@startedfalse

```



```

9055 \csname poem@obeylines\endcsname
9056 \let\poem@obeylines\relax
9057 \begin{tabbing}%
9058 }
9059 \def\@endmodernpoem{%
9060 \global\poem@startedfalse
9061 \ifdim\wd\@curline>\z@\global\poem@startedtrue\else
9062   \@stopfield
9063   \ifdim\wd\@curfield>\z@\global\poem@startedtrue\fi
9064   \@contfield
9065 \fi
9066 \ifpoem@started\else\let\@stopline\@stopfield\fi
9067 \end{tabbing}%
9068 \endgroup
9069 \par
9070 \if@nparlist \else
9071   \ifdim\lastskip >\z@
9072     \@tempskipa\lastskip \vskip -\lastskip
9073     \advance\@tempskipa\parskip \advance\@tempskipa -\@outerparskip
9074     \vskip\@tempskipa
9075   \fi
9076   \@endparenv
9077 \fi
9078 }
9079 \newenvironment{modernpoem}{\@modernpoem}{\@endmodernpoem}
9080 \expandafter\def\csname modernpoem*\endcsname{\let\poem@obeylines=\modernpoem@obeylines\mode
9081 \expandafter\def\csname endmodernpoem*\endcsname{\endmodernpoem}
9082 \gdef\@startfield{%
9083 \global\setbox\@curfield\hbox\bgroup%
9084 \let\@footnotetext\bidipoem@p@ftntext%
9085 \let\@LTRfootnotetext\bidipoem@p@LTRftntext%
9086 \let\@RTLfootnotetext\bidipoem@p@RTLftntext%
9087 \let\@xfootnotenext\bidipoem@p@xftntext%
9088 \let\@xfootnote\bidipoem@p@xfootnote%
9089 \let\@xLTRfootnotenext\bidipoem@p@xLTRftntext%
9090 \let\@xLTRfootnote\bidipoem@p@xLTRfootnote%
9091 \let\@xRTLfootnotenext\bidipoem@p@xRTLftntext%
9092 \let\@xRTLfootnote\bidipoem@p@xRTLfootnote%
9093 \color@begingroup}
9094 \gdef\@stopfield{%
9095 \color@endgroup\egroup\global\bidipoem@p@ftn\expandafter{\expandafter}\the\bidipoem@p@ftn}
9096 \gdef\@contfield{%
9097 \global\setbox\@curfield\hbox\bgroup%
9098 \let\@footnotetext\bidipoem@p@ftntext%
9099 \let\@LTRfootnotetext\bidipoem@p@LTRftntext%
9100 \let\@RTLfootnotetext\bidipoem@p@RTLftntext%
9101 \let\@xfootnotenext\bidipoem@p@xftntext%
9102 \let\@xfootnote\bidipoem@p@xfootnote%
9103 \let\@xLTRfootnotenext\bidipoem@p@xLTRftntext%
9104 \let\@xLTRfootnote\bidipoem@p@xLTRfootnote%
9105 \let\@xRTLfootnotenext\bidipoem@p@xRTLftntext%
9106 \let\@xRTLfootnote\bidipoem@p@xRTLfootnote%
9107 \color@begingroup\unhbox\@curfield}

```



## 62 File boek3-xetex-bidi.def

```

9108 \ProvidesFile{boek3-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for boek3 class for XeT
9109 \renewenvironment{theindex}{%
9110   \if@twocolumn
9111     \@restonecolfalse
9112   \else
9113     \@restonecoltrue
9114   \fi
9115   \columnseprule \z@
9116   \columnsep 35\p@
9117   \twocolumn[\@makeschapterhead{\indexname}]%
9118   \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}}%
9119   \thispagestyle{plain}\parindent\z@
9120   \parskip\z@ \@plus .3\p@\relax
9121   \let\item\@idxitem
9122 }{%
9123   \if@restonecol\onecolumn\else\clearpage\fi}
9124 \renewcommand*\head@style{%
9125   \interlinepenalty \@M
9126   \hyphenpenalty=\@M \exhyphenpenalty=\@M
9127   \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
9128 \renewcommand*\@regtocline[3]{%
9129   \ifnum #1>\c@tocdepth
9130   \else
9131     \vskip\z@ \@plus .2\p@
9132     {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
9133     \if@RTL\rightskip\else\leftskip\fi\unitindent
9134     \if@RTL\leftskip\else\rightskip\fi\unitindent \@plus 1fil
9135     \parfillskip\z@
9136     \@tempdima\unitindent
9137     \parindent\z@
9138     \leavevmode
9139     \hbox{}\hskip -\if@RTL\rightskip\else\leftskip\fi\relax#2\nobreak
9140     \hskip 1em \nobreak{\slshape #3}\par
9141     }%
9142   \fi}
9143 \if@oldtoc
9144 \renewcommand*\l@part[2]{%
9145   \ifnum \c@tocdepth >-2\relax
9146     \addpenalty{-\@highpenalty}%
9147     \addvspace{2.25em \@plus\p@}%
9148     \begingroup
9149       \setlength\@tempdima{3em}%
9150       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
9151       \parfillskip -\@pnumwidth
9152       {\leavevmode
9153         \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
9154         \nobreak
9155         \global\@nobreaktrue
9156         \everypar{\global\@nobreakfalse\everypar{}}%
9157       \endgroup
9158   \fi}
9159 \else

```



```

9160 \renewcommand*\l@part{%
9161 \ifnum \c@tocdepth >-2\relax
9162 \addpenalty{-\@highpenalty}%
9163 \addvspace{2.25em \@plus \p@}%
9164 \@regtocline{0}%
9165 \fi}
9166 \fi
9167 \if@oldtoc
9168 \renewcommand*\l@chapter[2]{%
9169 \addpenalty{-\@highpenalty}%
9170 \vskip 1.0em \@plus \p@
9171 \setlength\@tempdima{1.5em}%
9172 \begingroup
9173 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
9174 \parfillskip -\@pnumwidth
9175 \leavevmode \bfseries
9176 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima
9177 \hskip -\if@RTL\rightskip\else\leftskip\fi
9178 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
9179 \penalty\@highpenalty
9180 \endgroup}
9181 \else
9182 \renewcommand*\l@chapter{\@regtocline{0}}
9183 \fi
9184 \renewenvironment{abstract}{%
9185 \titlepage
9186 \null\vfil
9187 \section*{\SectFont \abstractname}
9188 \noindent\ignorespaces}
9189 {\par\vfil\null\endtitlepage}
9190 \renewenvironment{thebibliography}[1]
9191 {\chapter*{\bibname}%
9192 \mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
9193 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
9194 \bidi@thebibliography@font@hook%
9195 \list{\@biblabel{\@arabic\c@enumiv}}%
9196 {\settowidth\labelwidth{\@biblabel{#1}}%
9197 \leftmargin\labelwidth
9198 \advance\leftmargin\labelsep
9199 \@openbib@code
9200 \usecounter{enumiv}%
9201 \let\p@enumiv\@empty
9202 \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
9203 \sloppy\clubpenalty4000\widowpenalty4000%
9204 \sfcode\.\@m}
9205 {\def\@noitemerr
9206 {\@latex@warning{Empty `thebibliography' environment}}}%
9207 \endlist}
9208 \renewcommand*\left@footnoterule{%
9209 \kern-3\p@
9210 \kern.5\baselineskip
9211 \hrule\@width\unitindent
9212 \kern.4\baselineskip
9213 }

```



```

9214 \renewcommand*\right@footnoterule{%
9215   \kern-3\p@
9216   \kern.5\baselineskip
9217   \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
9218   \kern.4\baselineskip}
9219 \renewcommand*\thesection{\thechapter\@SepMark\@arabic\c@section}
9220 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
9221 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
9222 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
9223 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
9224 \renewcommand*\theequation{%
9225   \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@equation}
9226 \renewcommand*\thefigure{%
9227   \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@figure}
9228 \renewcommand*\thetable{%
9229   \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@table}
9230 \renewcommand*\maketitle{%
9231   \begin{titlepage}%
9232     \let\footnotesize\small
9233     \let\right@footnoterule\relax
9234     \let\left@footnoterule\relax
9235     \let\textwidth\footnoterule\relax
9236     \let \footnote \thanks
9237     \long\def\@makefntext##1{\parindent\z@
9238       \def\labelitemi{\textendash}\@revlabeltrue
9239       \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
9240     \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
9241     \if@compatibility\setcounter{page}{0}\fi
9242     \null\vfil
9243     \vskip 60\p@
9244     \begin{center}%
9245       \TitleFont
9246       {\LARGE \def\\{\penalty -\@M}
9247         \if@allcaps
9248           \expandafter\uc@nothanks\@title\thanks\relax
9249         \else
9250           \@title
9251         \fi\par}%
9252     \vskip 3em%
9253     {\large
9254       \lineskip .75em \parindent\z@
9255       \begin{tabular}[t]{c}%
9256         \if@allcaps
9257           \expandafter\uc@authornothanks\@author\and\relax
9258         \else
9259           \@author
9260         \fi
9261       \end{tabular}\par}%
9262     \vskip 1.5em%
9263     {\large
9264       \if@allcaps
9265         \uppercase\expandafter{\@date}%
9266       \else
9267         \@date

```



```

9268         \fi\par}%
9269     \end{center}\par
9270     \@thanks
9271     \vfil\null
9272 \end{titlepage}%
9273 \setcounter{footnote}{0}%
9274 \global\let\thanks\relax
9275 \global\let\maketitle\relax
9276 \global\let\@thanks\@empty
9277 \global\let\@author\@empty
9278 \global\let\@title\@empty
9279 \global\let\@date\@empty
9280 \global\let\title\relax
9281 \global\let\author\relax
9282 \global\let\date\relax
9283 \global\let\and\relax
9284 }

```

## 63 File boek-xetex-bidi.def

```

9285 \ProvidesFile{boek-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for boek class for XeTeX]
9286 \renewenvironment{theindex}{%
9287     \if@twocolumn
9288         \@restonecolfalse
9289     \else
9290         \@restonecoltrue
9291     \fi
9292     \columnseprule \z@
9293     \columnsep 35\p@
9294     \twocolumn[\@makeschapterhead{\indexname}]%
9295     \mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
9296     \thispagestyle{plain}\parindent\z@
9297     \parskip\z@ \@plus .3\p@\relax
9298     \let\item\@idxitem
9299 }{%
9300     \if@restonecol\onecolumn\else\clearpage\fi}
9301 \renewcommand*{\head@style}{%
9302     \interlinepenalty \@M
9303     \hyphenpenalty=\@M \exhyphenpenalty=\@M
9304     \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
9305 \renewcommand*{\@regtocline}[3]{%
9306     \ifnum #1>\c@tocdepth
9307     \else
9308         \vskip\z@\@plus.2\p@
9309         {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
9310         \if@RTL\rightskip\else\leftskip\fi\unitindent
9311         \if@RTL\leftskip\else\rightskip\fi\unitindent\@plus 1fil
9312         \parfillskip\z@
9313         \@tempdima\unitindent
9314         \parindent\z@
9315         \leavevmode
9316         \hbox{} \hskip -\if@RTL\rightskip\else\leftskip\fi\relax#2\nobreak
9317         \hskip 1em \nobreak{\slshape #3}\par
9318     }%

```



```

9319 \fi}
9320 \if@oldtoc
9321 \renewcommand*\l@part[2]{%
9322 \ifnum \c@tocdepth >-2\relax
9323 \addpenalty{-\@highpenalty}%
9324 \addvspace{2.25em \@plus\p@}%
9325 \begingroup
9326 \setlength\@tempdima{3em}%
9327 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
9328 \parfillskip -\@pnumwidth
9329 {\leavevmode
9330 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
9331 \nobreak
9332 \global\@nobreaktrue
9333 \everypar{\global\@nobreakfalse\everypar{}}%
9334 \endgroup
9335 \fi}
9336 \else
9337 \renewcommand*\l@part{%
9338 \ifnum \c@tocdepth >-2\relax
9339 \addpenalty{-\@highpenalty}%
9340 \addvspace{2.25em \@plus \p@}%
9341 \@regtocline{0}%
9342 \fi}
9343 \fi
9344 \if@oldtoc
9345 \renewcommand*\l@chapter[2]{%
9346 \addpenalty{-\@highpenalty}%
9347 \vskip 1.0em \@plus\p@
9348 \setlength\@tempdima{1.5em}%
9349 \begingroup
9350 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
9351 \parfillskip -\@pnumwidth
9352 \leavevmode \bfseries
9353 \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
9354 \hskip -\if@RTL\rightskip\else\leftskip\fi
9355 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
9356 \penalty\@highpenalty
9357 \endgroup}
9358 \else
9359 \renewcommand*\l@chapter{\@regtocline{0}}
9360 \fi
9361 \renewcommand*\left@footnoterule{%
9362 \kern-3\p@
9363 \kern.5\baselineskip
9364 \hrule\@width\unitindent
9365 \kern.4\baselineskip
9366 }
9367 \renewcommand*\right@footnoterule{%
9368 \kern-3\p@
9369 \kern.5\baselineskip
9370 \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
9371 \kern.4\baselineskip}
9372 \renewenvironment{abstract}{%

```



```

9373 \titlepage
9374 \null\vfil
9375 \section*{\SectFont \abstractname}
9376 \noindent\ignorespaces}
9377 {\par\vfil\null\endtitlepage}
9378 \renewenvironment{thebibliography}[1]
9379 {\chapter*{\bibname}%
9380 \mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
9381 \ifRTL\ifLTRbibitems\RTLfalse\else\fi\else\ifRTLbibitems\RTLtrue\else\fi\fi
9382 \bidi@thebibliography@font@hook%
9383 \list{\@biblabel{\@arabic\c@enumiv}}{%
9384 {\settowidth\labelwidth{\@biblabel{#1}}%
9385 \leftmargin\labelwidth
9386 \advance\leftmargin\labelsep
9387 \@openbib@code
9388 \usecounter{enumiv}%
9389 \let\p@enumiv\@empty
9390 \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
9391 \sloppy\clubpenalty4000\widowpenalty4000%
9392 \sfcode`. \@m}
9393 {\def\@noitemerr
9394 {\@latex@warning{Empty `thebibliography' environment}}}%
9395 \endlist}
9396 \renewcommand*\thesection{\thechapter\@SepMark\@arabic\c@section}
9397 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
9398 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
9399 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
9400 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
9401 \renewcommand*\theequation{%
9402 \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@equation}
9403 \renewcommand*\thefigure{%
9404 \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@figure}
9405 \renewcommand*\thetable{%
9406 \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@table}
9407 \renewcommand*\maketitle{%
9408 \begin{titlepage}%
9409 \let\footnotesize\small
9410 \let\right@footnoterule\relax
9411 \let\left@footnoterule\relax
9412 \let\textwidth\footnoterule\relax
9413 \let \footnote \thanks
9414 \long\def\@makefnmark{\parindent\z@
9415 \def\labelitemi{\textendash}\@revlabeltrue
9416 \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
9417 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
9418 \ifcompatibility\setcounter{page}{0}\fi
9419 \null\vfil
9420 \vskip 60\p@
9421 \begin{center}%
9422 \TitleFont
9423 {\LARGE \def\\{\penalty -\@M}
9424 \if@allcaps
9425 \expandafter\uc@nothanks\@title\thanks\relax
9426 \else

```



```

9427         \@title
9428         \fi\par}%
9429     \vskip 3em%
9430     {\large
9431         \lineskip .75em \parindent\z@
9432         \begin{tabular}[t]{c}%
9433             \if@allcaps
9434                 \expandafter\uc@authornothanks\@author\and\relax
9435             \else
9436                 \@author
9437             \fi
9438         \end{tabular}\par}%
9439     \vskip 1.5em%
9440     {\large
9441         \if@allcaps
9442             \uppercase\expandafter{\@date}%
9443         \else
9444             \@date
9445         \fi\par}%
9446     \end{center}\par
9447     \@thanks
9448     \vfil\null
9449 \end{titlepage}%
9450 \setcounter{footnote}{0}%
9451 \global\let\thanks\relax
9452 \global\let\maketitle\relax
9453 \global\let\@thanks\@empty
9454 \global\let\@author\@empty
9455 \global\let\@title\@empty
9456 \global\let\@date\@empty
9457 \global\let\title\relax
9458 \global\let\author\relax
9459 \global\let\date\relax
9460 \global\let\and\relax
9461 }

```

## 64 File `bookest-xetex-bidi.def`

```

9462 \ProvidesFile{bookest-xetex-bidi.def}[2010/07/25 v0.4 bidi adaptations for bookest class for
9463 \def\makechapterhead#1{%
9464     \vspace*{20\p@}
9465     {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont
9466         \ifnum \c@secnumdepth >\m@ne
9467             \if@mainmatter
9468                 {\colorA\huge\scshape \@chapapp\space \thechapter}
9469                 \par\nobreak
9470                 \vskip 10\p@
9471             \fi
9472         \fi
9473         \interlinepenalty\@M
9474     {\colorB\hrule}
9475     \vskip 15\p@
9476     \if@RTL\begin{flushleft}\else\begin{flushright}\fi
9477         {\colorA\Huge \bfseries #1}\par\nobreak

```



```

9478 \if@RTL\end{flushleft}\else\end{flushright}\fi
9479 \vskip 5\p@
9480 {\colorB\hrule}
9481 \vskip 30\p@
9482 }}
9483 \def\@makeschapterhead#1{%
9484 \vspace*{20\p@}
9485 {\parindent \z@ \raggedright \normalfont
9486 {\colorB\hrule}
9487 \vskip 15\p@
9488 \begin{center}
9489 {\colorA\Huge \bfseries #1}\par\nobreak
9490 \end{center}
9491 \vskip 5\p@
9492 {\colorB\hrule}
9493 \vskip 30\p@
9494 }}

```

## 65 File book-xetex-bidi.def

```

9495 \ProvidesFile{book-xetex-bidi.def}[2017/06/09 v1.0 bidi adaptations for standard book class]
9496 \renewenvironment{theindex}
9497     {\if@twocolumn
9498       \@restonecolfalse
9499       \else
9500         \@restonecoltrue
9501       \fi
9502       \columnseprule \z@
9503       \columnsep 35\p@
9504       \twocolumn[\@makeschapterhead{\indexname}]%
9505       \@mkboth{\MakeUppercase\indexname}%
9506               {\MakeUppercase\indexname}%
9507       \thispagestyle{plain}\parindent\z@
9508       \parskip\z@ \@plus .3\p@\relax
9509       \let\item\@idxitem}
9510     {\if@restonecol\onecolumn\else\clearpage\fi}
9511 \ifclassloaded{bookest}{\fi}%
9512 \if@titlepage
9513 \renewcommand\maketitle{\begin{titlepage}%
9514 \let\footnotesize\small
9515 \let\right@footnoterule\relax
9516 \let\left@footnoterule\relax
9517 \let\textwidth@footnoterule\relax
9518 \let \footnote \thanks
9519 \let \LTRfootnote \LTRthanks
9520 \let \RTLfootnote \RTLthanks
9521 \null\vfil
9522 \vskip 60\p@
9523 \begin{center}%
9524 {\LARGE \@title \par}%
9525 \vskip 3em%
9526 {\large
9527 \lineskip .75em%
9528 \begin{tabular}[t]{c}%

```



```

9529         \@author
9530     \end{tabular}\par}%
9531     \vskip 1.5em%
9532     {\large \@date \par}%           % Set date in \large size.
9533 \end{center}\par
9534 \@thanks
9535 \vfil\null
9536 \end{titlepage}%
9537 \setcounter{footnote}{0}%
9538 \global\let\thanks\relax
9539 \global\let\LTRthanks\relax
9540 \global\let\RTLthanks\relax
9541 \global\let\maketitle\relax
9542 \global\let\@thanks\@empty
9543 \global\let\@author\@empty
9544 \global\let\@date\@empty
9545 \global\let\@title\@empty
9546 \global\let\title\relax
9547 \global\let\author\relax
9548 \global\let\date\relax
9549 \global\let\and\relax
9550 }
9551 \else
9552 \renewcommand\maketitle{\par
9553     \begingroup
9554         \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
9555         \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
9556         \long\def\@makefntext##1{\parindent 1em\noindent
9557             \hb@xt@1.8em{%
9558                 \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
9559         \if@twocolumn
9560             \ifnum \col@number=\@one
9561                 \@maketitle
9562             \else
9563                 \twocolumn[\@maketitle]%
9564             \fi
9565         \else
9566             \newpage
9567             \global\@topnum\z@   % Prevents figures from going at top of page.
9568             \@maketitle
9569         \fi
9570         \thispagestyle{plain}\@thanks
9571     \endgroup
9572     \setcounter{footnote}{0}%
9573     \global\let\thanks\relax
9574     \global\let\LTRthanks\relax
9575     \global\let\RTLthanks\relax
9576     \global\let\maketitle\relax
9577     \global\let\@maketitle\relax
9578     \global\let\@thanks\@empty
9579     \global\let\@author\@empty
9580     \global\let\@date\@empty
9581     \global\let\@title\@empty
9582     \global\let\title\relax

```



```

9583 \global\let\author\relax
9584 \global\let\date\relax
9585 \global\let\and\relax
9586 }
9587 \def\@maketitle{%
9588 \newpage
9589 \null
9590 \vskip 2em%
9591 \begin{center}%
9592 \let \footnote \thanks
9593 \let \LTRfootnote \LTRthanks
9594 \let \RTLfootnote \RTLthanks
9595 {\LARGE \@title \par}%
9596 \vskip 1.5em%
9597 {\large
9598 \lineskip .5em%
9599 \begin{tabular}[t]{c}%
9600 \@author
9601 \end{tabular}\par}%
9602 \vskip 1em%
9603 {\large \@date}%
9604 \end{center}%
9605 \par
9606 \vskip 1.5em}
9607 \fi}
9608 \renewcommand*\l@part[2]{%
9609 \ifnum \c@tocdepth >-2\relax
9610 \addpenalty{-\@highpenalty}%
9611 \addvspace{2.25em \@plus\p}%
9612 \setlength\@tempdima{3em}%
9613 \begingroup
9614 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
9615 \parfillskip -\@pnumwidth
9616 {\leavevmode
9617 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
9618 \nobreak
9619 \global\@nobreaktrue
9620 \everypar{\global\@nobreakfalse\everypar{}}%
9621 \endgroup
9622 \fi}
9623 \renewcommand*\l@chapter[2]{%
9624 \ifnum \c@tocdepth >\m@ne
9625 \addpenalty{-\@highpenalty}%
9626 \vskip 1.0em \@plus\p@
9627 \setlength\@tempdima{1.5em}%
9628 \begingroup
9629 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
9630 \parfillskip -\@pnumwidth
9631 \leavevmode \bfseries
9632 \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
9633 \hskip -\if@RTL\rightskip\else\leftskip\fi
9634 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
9635 \penalty\@highpenalty
9636 \endgroup

```



```

9637 \fi}
9638 \renewcommand\left@footnoterule{%
9639 \kern-3\p@
9640 \hrule\@width.4\columnwidth
9641 \kern2.6\p@}
9642 \renewcommand\right@footnoterule{%
9643 \kern-3\p@
9644 \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
9645 \kern2.6\p@}
9646 \renewcommand\theequation
9647 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
9648 \renewcommand \thefigure
9649 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
9650 \renewcommand \thetable
9651 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
9652 \renewcommand \thechapter {\@arabic\c@chapter}
9653 \renewcommand \thesection {\thechapter\@SepMark\@arabic\c@section}
9654 \renewcommand \thesubsection {\thesection\@SepMark\@arabic\c@subsection}
9655 \renewcommand \thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
9656 \renewcommand \theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
9657 \renewcommand \thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
9658 \def\@makechapterhead#1{%
9659 \vspace*{50\p@}%
9660 {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont
9661 \ifnum \c@secnumdepth >\m@ne
9662 \if@mainmatter
9663 \huge\bfseries \@chapapp\space \thechapter
9664 \par\nobreak
9665 \vskip 20\p@
9666 \fi
9667 \fi
9668 \interlinepenalty\@M
9669 \Huge \bfseries #1\par\nobreak
9670 \vskip 40\p@
9671 }}
9672 \def\@makeschapterhead#1{%
9673 \vspace*{50\p@}%
9674 {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
9675 \normalfont
9676 \interlinepenalty\@M
9677 \Huge \bfseries #1\par\nobreak
9678 \vskip 40\p@
9679 }}
9680 \renewcommand\backmatter{%
9681 \if@openright
9682 \cleardoublepage
9683 \else
9684 \clearpage
9685 \fi
9686 \@mainmatterfalse}
9687 \renewenvironment{thebibliography}[1]
9688 {\chapter*{\bibname}%
9689 \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
9690 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi

```



```

9691 \bidi@thebibliography@font@hook%
9692 \list{\@biblabel{\@arabic\c@enumiv}}%
9693     {\settowidth\labelwidth{\@biblabel{#1}}%
9694      \leftmargin\labelwidth
9695      \advance\leftmargin\labelsep
9696      \@openbib@code
9697      \usecounter{enumiv}}%
9698      \let\p@enumiv\@empty
9699      \renewcommand\theenumiv{\@arabic\c@enumiv}}%
9700 \sloppy
9701 \clubpenalty4000
9702 \@clubpenalty \clubpenalty
9703 \widowpenalty4000%
9704 \sfcode`. \m}
9705 {\def\@noitemerr
9706   {\@latex@warning{Empty `thebibliography' environment}}}%
9707 \endlist}

```

## 66 File breqn-xetex-bidi.def

```

9708 \ProvidesFile{breqn-xetex-bidi.def}[2016/09/12 v0.2 bidi adaptations for breqn package for X
9709 \def\@dmath[#1]{\ifRTL\@RTLfalse\fi%
9710 \everydisplay\expandafter{\the\everydisplay \display@setup}%
9711 \ifnoskipsec \leavevmode \fi
9712 \ifinlabel \leavevmode \global\@inlabelfalse \fi
9713 \if\eq@group\else\eq@prelim\fi
9714 \setkeys{breqn}{#1}%
9715 \the\eqstyle
9716 \eq@setnumber
9717 \begingroup
9718 \eq@setup@a
9719 \eq@startup
9720 }
9721 \def\@dgroup[#1]{\ifRTL\@RTLfalse\fi%
9722 \let\eq@group\@True \global\let\eq@GRP@first@dmath\@True
9723 \global\GRP@queue\@emptytoks \global\setbox\GRP@box\box\voidb@x
9724 \global\let\GRP@label\@empty
9725 \global\grp@wdL\z@\global\grp@wdR\z@\global\grp@wdT\z@
9726 \global\grp@linewidth\z@\global\grp@wdNum\z@
9727 \global\let\grp@eqs@numbered\@False
9728 \global\let\grp@aligned\@True
9729 \global\let\grp@shiftnumber\@False
9730 \eq@prelim
9731 \setkeys{breqn}{#1}%
9732 \if\grp@hasNumber \grp@setnumber \fi
9733 }
9734 \def\@dseries[#1]{\ifRTL\@RTLfalse\fi%
9735 \let\display@setup\dseries@display@setup
9736 % Question: should this be the default for dseries???
9737 \global\eq@wdCond\z@
9738 \@dmath[layout={M},#1]%
9739 \mathsurround\z@\@math \penalty\@Mi
9740 \let\endmath\ends@math
9741 \def\premath{%

```



```

9742 \ifdim\lastskip<.3em \unskip
9743 \else\ifnum\lastpenalty<\@M \dquad\fi\fi
9744 }%
9745 \def\postmath{\unpenalty\eq@addpunct \penalty\intermath@penalty \dquad \@ignoretrue}%
9746 \ignorespaces
9747 }
9748 \def\eqnumform#1{\if@nonlatin\beginR\@RTLtrue\fi(#1\@@italiccorr)\if@nonlatin\endR\fi}
9749 \renewenvironment{dsuspend}{%
9750 \global\setbox\EQ@box\vbox\bgroup\if@nonlatin\@RTLtrue\fi \@parboxrestore
9751 \parshape 1 \displayindent \displaywidth\relax
9752 \hsize=\columnwidth \noindent\ignorespaces
9753 }{%
9754 \par\egroup
9755 \global\setbox\GRP@box\vbox{%
9756 \hbox{\copy\EQ@box\vtop{\unvbox\EQ@box}}%
9757 \unvbox\GRP@box
9758 }%
9759 \global\GRP@queue\@xp{\the\GRP@queue
9760 \@elt{\let\eq@isIntertext\@True}}%
9761 }%
9762 }

```

## 67 File cals-xetex-bidi.def

```

9763 \ProvidesFile{cals-xetex-bidi.def}[2016/11/30 v0.4 bidi adaptations for cals package for XeT
9764 \renewcommand\cals@setup@alignment[1]{%
9765 \if c#1\relax \cals@vfillAdd \leftskip \cals@vfillAdd \rightskip \fi
9766 \if l#1\relax \cals@vfillDrop\leftskip \cals@vfillDrop\rightskip \fi
9767 \if r#1\relax \cals@vfillAdd \leftskip \cals@vfillDrop\rightskip \fi
9768 }
9769 \renewcommand\cals@table@alignment{\if@RTLtab r\else l\fi}
9770 \renewenvironment{calstable}[1][\cals@table@alignment]{%
9771 \if@RTLtab\cals@activate@rtl\fi
9772 \let\cals@thead@tokens=\relax
9773 \let\cals@tfoot@tokens=\relax
9774 \let\cals@tbody@tokens=\relax
9775 \cals@tfoot@height=0pt \relax
9776 \let\cals@last@context=n%
9777 \let\cals@current@context=b%
9778 \parindent=0pt \relax%
9779 \cals@setup@alignment{#1}%
9780 \cals@setpadding{Ag}\cals@setcellprevdepth{Al}\cals@set@tohsize%
9781 %% Alignment inside is independent on center/flushright outside
9782 \parfillskip=0pt plus1fil\relax
9783 \let\cals@borderL=\relax
9784 \let\cals@borderR=\relax
9785 \let\cals@borderT=\relax
9786 \let\cals@borderB=\relax
9787 \setbox\cals@backup@row=\box\voidb@x\relax
9788 \cals@AtBeginTable
9789 }{% End of the table
9790 \cals@tfoot@tokens\lastrule\cals@AtEndTable}
9791 \renewcommand\alignL{%
9792 \if@RTLtab

```



```

9793 \cals@vfillAdd\cals@paddingL
9794 \else
9795 \cals@vfillDrop\cals@paddingL
9796 \fi
9797 \cals@vfillDrop\cals@paddingR}
9798 \renewcommand\alignR{%
9799 \if@RTLtab
9800 \cals@vfillDrop\cals@paddingL
9801 \else
9802 \cals@vfillAdd\cals@paddingL
9803 \fi
9804 \cals@vfillDrop\cals@paddingR}

```

## 68 File caption-xetex-bidi.def

```

9805 \ProvidesFile{caption-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for caption package f
9806 \let\makecaption\caption@makecaption

```

## 69 File caption3-xetex-bidi.def

```

9807 \ProvidesFile{caption3-xetex-bidi.def}[2013/04/01 v0.1 bidi adaptations for caption3 package
9808 \renewcommand*\caption@par{%
9809 \parindent\caption@parindent\hangindent\if@RTL-\fi\caption@hangindent}%

```

## 70 File colortbl-xetex-bidi.def

```

9810 \ProvidesFile{colortbl-xetex-bidi.def}[2012/06/10 v0.2 bidi adaptations for colortbl package
9811 \def\CT@setup{%
9812 \@tempdimb\col@sep
9813 \@tempdimc\col@sep
9814 \def\CT@color{%
9815 \global\let\CT@do@color\CT@@do@color
9816 \bidicolor}}
9817 \def\@classz{\@classx
9818 \@tempcnta\count@
9819 \prepnext@tok
9820 \expandafter\CT@extract\the\toks\@tempcnta\columncolor!\@nil
9821 \@addtopreamble{\if@RTLtab\beginL\fi%
9822 \setbox\z@\hbox\bgroup\bgroup\if@RTLtab\beginR\fi
9823 \ifcase \@chnum
9824 \hskip\stretch{.5}\kern\z@
9825 \d@llarbegin
9826 \insert@column
9827 \d@llarend\hskip\stretch{.5}\or
9828 \d@llarbegin \insert@column \d@llarend \hfill \or
9829 \hfill\kern\z@ \d@llarbegin \insert@column \d@llarend \or
9830 $\vcenter
9831 \@startpbox{\@nextchar}\insert@column \@endpbox $\or
9832 \vtop \@startpbox{\@nextchar}\insert@column \@endpbox \or
9833 \vbox \@startpbox{\@nextchar}\insert@column \@endpbox
9834 \fi
9835 \if@RTLtab\endR\fi\egroup\egroup
9836 \begingroup
9837 \CT@setup

```



```

9838 \CT@column@color
9839 \CT@row@color
9840 \CT@cell@color
9841 \CT@do@color
9842 \endgroup
9843 \@tempdima\ht\z@
9844 \advance\@tempdima\minrowclearance
9845 \vrule\@height\@tempdima\@width\z@
9846 \unhbox\z@\if@RTLtab\endL\fi}%
9847 \prepnext@tok}

```

## 71 File color-xetex-bidi.def

```

9848 \ProvidesFile{color-xetex-bidi.def}[2013/04/08 v0.2 bidi adaptations for color package for Xe
9849 \long\def\color@box#1#2#3{%
9850 \leavevmode\ifmmode\else\if@RTL\beginL\fi\fi
9851 \setbox\z@\hbox{\kern\fbboxsep{\set@color\if@RTL\beginR\fi#3\if@RTL\endR\fi}\kern\fbboxsep}%
9852 \dimen@ \ht\z@\advance\dimen@\fbboxsep\ht\z@\dimen@
9853 \dimen@ \dp\z@\advance\dimen@\fbboxsep\dp\z@\dimen@
9854 {#1{#2\color@block{\wd\z@}{\ht\z@}{\dp\z@}%
9855 \box\z@}}\ifmmode\else\if@RTL\endL\fi\fi}
9856 \def\normalcolor{\let\current@color\default@color\ifhmode\if@RTL\beginL\aftergroup\endR\fi\fi}
9857 \DeclareRobustCommand\color{%
9858 \ifhmode\if@RTL\beginL\aftergroup\endR\fi\fi@ifnextchar[\@undeclaredcolor\@declaredcolor}%
9859 \def\@declaredcolor#1{%
9860 \@ifundefined{\string\color @#1}%
9861 {\c@lor@error{`#1'}}%
9862 {\expandafter\let\expandafter\current@color
9863 \csname\string\color @#1\endcsname
9864 \set@color}%
9865 \ifhmode\if@RTL\beginR\aftergroup\endL\fi\fi\ignorespaces}
9866 \def\@undeclaredcolor[#1]#2{%
9867 \@ifundefined{color@#1}%
9868 {\c@lor@error{model `#1'}}%
9869 {\csname color@#1\endcsname\current@color{#2}%
9870 \set@color}%
9871 \ifhmode\if@RTL\beginR\aftergroup\endL\fi\fi\ignorespaces}
9872 \DeclareRobustCommand\bidicolor{%
9873 \@ifnextchar[\@bidiundeclaredcolor\@bidideclaredcolor}%
9874 \def\@bidiundeclaredcolor[#1]#2{%
9875 \@ifundefined{color@#1}%
9876 {\c@lor@error{model `#1'}}%
9877 {\csname color@#1\endcsname\current@color{#2}%
9878 \set@color}%
9879 \ignorespaces}
9880 \def\@bidideclaredcolor#1{%
9881 \@ifundefined{\string\color @#1}%
9882 {\c@lor@error{`#1'}}%
9883 {\expandafter\let\expandafter\current@color
9884 \csname\string\color @#1\endcsname
9885 \set@color}%
9886 \ignorespaces}
9887 \def\color@box#1#2{\color@box\relax{\bidicolor#1{#2}}}
9888 \def\color@fbbox#1#2#3{%

```



```

9889 \color@b@x{\fboxsep\z@\bidicolor#1{#2}\fbox}{\bidicolor#1{#3}}
9890 \def\color@setgroup{\begingroup\ifhmode\if@RTL\beginL\aftergroup\endR\fi\fi\set@color\ifhmode

```

## 72 File combine-xetex-bidi.def

```

9891 \ProvidesFile{combine-xetex-bidi.def}[2011/09/23 v0.1 bidi adaptations for combine class for
9892 \renewcommand{\c@ll@chapsecii}[2]{%
9893 \if@RTL\advance\rightskip\@tempdima\else\advance\leftskip\@tempdima\fi
9894 \if@RTL\hskip -\rightskip\else\hskip -\leftskip\fi
9895 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
9896 }
9897 \renewcommand{\c@ll@chapseci}{%
9898 \setlength\@tempdima{0em}%
9899 \begingroup
9900 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
9901 \parfillskip -\@pnumwidth
9902 \leavevmode
9903 }
9904 \renewenvironment{tocindent}[1]{%
9905 \hangindent \if@RTL-\fi#1 \hangafter -100\relax}{%

```

## 73 File crop-xetex-bidi.def

```

9906 \ProvidesFile{crop-xetex-bidi.def}[2013/04/10 v0.2 bidi adaptations for crop package for XeT
9907 \renewcommand*\CROP@ulc{%
9908 \if@RTLmain%
9909 \begin{picture}(0,0)
9910 \unitlength\p@\thinline
9911 \put(-40,0){\circle{10}}
9912 \put(-30,-5){\line(0,1){10}}
9913 \put(-35,0){\line(1,0){30}}
9914 \put(-10,30){\circle{10}}
9915 \put(-5,30){\line(1,0){10}}
9916 \put(0,35){\line(0,-1){30}}
9917 \end{picture}%
9918 \else%
9919 \begin{picture}(0,0)
9920 \unitlength\p@\thinline
9921 \put(-30,0){\circle{10}}
9922 \put(-30,-5){\line(0,1){10}}
9923 \put(-35,0){\line(1,0){30}}
9924 \put(0,30){\circle{10}}
9925 \put(-5,30){\line(1,0){10}}
9926 \put(0,35){\line(0,-1){30}}
9927 \end{picture}%
9928 \fi%
9929 }
9930 \renewcommand*\CROP@urc{%
9931 \if@RTLmain%
9932 \begin{picture}(0,0)
9933 \unitlength\p@\thinline
9934 \put(20,0){\circle{10}}
9935 \put(30,-5){\line(0,1){10}}
9936 \put(35,0){\line(-1,0){30}}

```



```

9937         \put(-10,30){\circle{10}}
9938         \put(-5,30){\line(1,0){10}}
9939         \put(0,35){\line(0,-1){30}}
9940     \end{picture}%
9941 \else%
9942     \begin{picture}(0,0)
9943         \unitlength\p@\thinline
9944         \put(30,0){\circle{10}}
9945         \put(30,-5){\line(0,1){10}}
9946         \put(35,0){\line(-1,0){30}}
9947         \put(0,30){\circle{10}}
9948         \put(-5,30){\line(1,0){10}}
9949         \put(0,35){\line(0,-1){30}}
9950     \end{picture}%
9951 \fi%
9952 }
9953 \renewcommand*\CROP@llc{%
9954     \if@RTLmain%
9955         \begin{picture}(0,0)
9956             \unitlength\p@\thinline
9957             \put(-40,0){\circle{10}}
9958             \put(-30,-5){\line(0,1){10}}
9959             \put(-35,0){\line(1,0){30}}
9960             \put(-10,-30){\circle{10}}
9961             \put(-5,-30){\line(1,0){10}}
9962             \put(0,-35){\line(0,1){30}}
9963         \end{picture}%
9964     \else%
9965         \begin{picture}(0,0)
9966             \unitlength\p@\thinline
9967             \put(-30,0){\circle{10}}
9968             \put(-30,-5){\line(0,1){10}}
9969             \put(-35,0){\line(1,0){30}}
9970             \put(0,-30){\circle{10}}
9971             \put(-5,-30){\line(1,0){10}}
9972             \put(0,-35){\line(0,1){30}}
9973         \end{picture}%
9974     \fi%
9975 }
9976 \renewcommand*\CROP@lrc{%
9977     \if@RTLmain%
9978         \begin{picture}(0,0)
9979             \unitlength\p@\thinline
9980             \put(20,0){\circle{10}}
9981             \put(30,-5){\line(0,1){10}}
9982             \put(35,0){\line(-1,0){30}}
9983             \put(-10,-30){\circle{10}}
9984             \put(-5,-30){\line(1,0){10}}
9985             \put(0,-35){\line(0,1){30}}
9986         \end{picture}%
9987     \else%
9988         \begin{picture}(0,0)
9989             \unitlength\p@\thinline
9990             \put(30,0){\circle{10}}

```



```

9991      \put(30,-5){\line(0,1){10}}
9992      \put(35,0){\line(-1,0){30}}
9993      \put(0,-30){\circle{10}}
9994      \put(-5,-30){\line(1,0){10}}
9995      \put(0,-35){\line(0,1){30}}
9996  \end{picture}%
9997  \fi%
9998 }
9999 \@ifpackagewith{crop}{cam}{%
10000 \CROP@execopt{cam}%
10001 }{}

```

## 74 File cutwin-xetex-bidi.def

```

10002 \ProvidesFile{cutwin-xetex-bidi.def}[2011/11/12 v0.1 bidi adaptations for cutwin package for
10003 \renewcommand*{\c@twcompctr}[2]{%
10004   \def\c@twfirst{1}
10005   \loop\advance\c@twwinlines\m@ne
10006   \setbox\c@twslicea=\vsplit#1 to\baselineskip
10007   \setbox\c@twsliceb=\vsplit#1 to\baselineskip
10008   \c@twprune{\c@twslicea}{\c@twlftside}%
10009   \c@twprune{\c@twsliceb}{\c@twrtside}%
10010   \ifnum\c@twfirst=\@ne
10011     \setbox#2=\vbox{\unvbox#2\hbox
10012       to\hsize{\if@RTL\box\c@twsliceb\else\box\c@twslicea\fi\pageinwindow\hfil\if@RTL\box\c@tw
10013     \else
10014       \setbox#2=\vbox{\unvbox#2\hbox
10015       to\hsize{\if@RTL\box\c@twsliceb\else\box\c@twslicea\fi\hfil\if@RTL\box\c@twslicea\else\box
10016     \fi
10017   \def\c@twfirst{2}
10018   \ifnum\c@twwinlines>\z@\repeat}
10019 \renewcommand*{\c@twcompodctr}[2]{%
10020   \def\c@twrounds{1}
10021   \def\c@twfirst{1}
10022   \@for\c@twlspec:=\c@twb\do{%
10023     \ifnum\c@twrounds=1
10024       \setbox\c@twslicea=\vsplit#1 to\baselineskip % first of pair
10025       \c@twprune{\c@twslicea}{\c@twlspec}%
10026       \def\c@twrounds{2}
10027     \else
10028       \setbox\c@twsliceb=\vsplit#1 to\baselineskip % second of pair
10029       \c@twprune{\c@twsliceb}{\c@twlspec}%
10030       \ifnum\c@twfirst=1
10031         \setbox#2=\vbox{\unvbox#2\hbox
10032           to\hsize{\if@RTL\box\c@twsliceb\else\box\c@twslicea\fi\hfil\picinwindow\hfil\if@RTL\
10033         \def\c@twfirst{2}
10034       \else
10035         \setbox#2=\vbox{\unvbox#2\hbox
10036           to\hsize{\if@RTL\box\c@twsliceb\else\box\c@twslicea\fi\hfil\if@RTL\box\c@twslicea\el
10037       \fi
10038     \def\c@twrounds{1}
10039   \fi}}

```



## 75 File cuted-xetex-bidi.def

```

10040 \ProvidesFile{cuted-xetex-bidi.def}[2022/02/18 v0.7 bidi adaptations for cuted package for Xe
10041
10042 \def\RTL@outputdblcol{%
10043   \if@firstcolumn
10044     \global\@firstcolumnfalse
10045     \global\setbox\@leftcolumn\copy\@outputbox
10046     \splitmaxdepth\maxdimen
10047     \vbadness\maxdimen
10048     \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
10049     \setbox\@outputbox\vsplit\@outputbox to\maxdimen
10050     \toks@{\expandafter{\topmark}}%
10051     \xdef\@firstcoltopmark{\the\toks@}%
10052     \toks@\expandafter{\splitfirstmark}%
10053     \xdef\@firstcolfirstmark{\the\toks@}%
10054     \ifx\@firstcolfirstmark\@empty
10055       \global\let\@setmarks\relax
10056     \else
10057       \gdef\@setmarks{%
10058         \let\firstmark\@firstcolfirstmark
10059         \let\topmark\@firstcoltopmark}%
10060     \fi
10061   \else
10062     \global\@firstcolumntrue
10063     \setbox\@outputbox\vbox{%
10064       \hb@xt@\textwidth{%
10065         \hskip \columnwidth
10066         \hfil
10067         {\normalcolor\vrule \@width\columnseprule}%
10068         \hfil
10069         \hb@xt@\columnwidth{%
10070           \bidi@firstcolumn@status@write%
10071           \box\@leftcolumn \hss}%
10072         \hskip -\textwidth
10073         \hb@xt@\columnwidth{%
10074           \bidi@lastcolumn@status@write%
10075           \box\@outputbox \hss}%
10076         \hskip \columnsep
10077         \hskip \columnwidth }}%
10078     \ifvoid\hold@viper
10079     \else
10080       \setbox\@outputbox \vbox to\textheight{%
10081         \box\hold@viper
10082         \box\@outputbox
10083         \vss
10084       }%
10085     \fi
10086   \@combinedblfloats
10087   \@setmarks
10088   \@outputpage
10089   \begingroup
10090   \@dblfloatplacement
10091   \@startdblcolumn

```



```

10092      \@whiles\if@fcolmade \fi{\@outputpage
10093      \@startdblcolumn}%
10094      \ifvoid\@viper
10095      \else
10096        \global\setbox\@viper\vbox{%
10097          \vskip-\stripsep
10098          \unvbox\@viper
10099          }%
10100        \@viperoutput
10101      \fi
10102    \endgroup
10103  \fi}%
10104
10105  \def\LTR@outputdblcol{%
10106    \if@firstcolumn
10107      \global\@firstcolumnfalse
10108      \global\setbox\@leftcolumn\copy\@outputbox
10109      \splitmaxdepth\maxdimen
10110      \vbadness\maxdimen
10111      \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
10112      \setbox\@outputbox\vsplit\@outputbox to\maxdimen
10113      \toks@\expandafter{\topmark}%
10114      \xdef\@firstcoltopmark{\the\toks@}%
10115      \toks@\expandafter{\splitfirstmark}%
10116      \xdef\@firstcolfirstmark{\the\toks@}%
10117      \ifx\@firstcolfirstmark\@empty
10118        \global\let\@setmarks\relax
10119      \else
10120        \gdef\@setmarks{%
10121          \let\firstmark\@firstcolfirstmark
10122          \let\topmark\@firstcoltopmark}%
10123      \fi
10124    \else
10125      \global\@firstcolumntrue
10126      \setbox\@outputbox\vbox{%
10127        \hb@xt@\textwidth{%
10128          \hb@xt@\columnwidth{%
10129            \bidi@firstcolumn@status@write%
10130            \box\@leftcolumn \hss}%
10131          \hfil
10132          {\normalcolor\vrule \@width\columnseprule}%
10133          \hfil
10134          \hb@xt@\columnwidth{%
10135            \bidi@lastcolumn@status@write%
10136            \box\@outputbox \hss}}}%
10137      \ifvoid\hold@viper
10138      \else
10139        \setbox\@outputbox \vbox to\textheight{%
10140          \box\hold@viper
10141          \box\@outputbox
10142          \vss
10143          }%
10144      \fi
10145    \@combinedblfloats

```



```

10146 \setmarks
10147 \@outputpage
10148 \beginngroup
10149 \@dblfloatplacement
10150 \startdblcolumn
10151 \@whiles\if@fcolmade \fi{\@outputpage
10152 \startdblcolumn}%
10153 \ifvoid\@viper
10154 \else
10155 \global\setbox\@viper\vbox{%
10156 \vskip-\stripsep
10157 \unvbox\@viper
10158 }%
10159 \@viperoutput
10160 \fi
10161 \endgroup
10162 \fi}%
10163
10164 \def\@addviper{%
10165 \insertfalse
10166 \def\var@thecol@num{2}%
10167 \if@firstcolumn
10168 \def\var@thecol@num{1}%
10169 \@reqcolroom=.5\@pageht
10170 \ht@viper=\@reqcolroom
10171 \advance\@reqcolroom by\ht\@viper
10172 \advance\@reqcolroom by\stripsep
10173 \else
10174 \@reqcolroom=\@colht
10175 \advance\@reqcolroom by\@pageht
10176 \ht@viper.5\@reqcolroom
10177 \@reqcolroom=\ht@viper
10178 \advance\@reqcolroom by\ht\@viper
10179 \advance\@reqcolroom by\stripsep
10180 \global\setbox\@holdpg\vbox{%
10181 \setbox\cuted@tempbox@a\vbox{%
10182 \aftergroup\unvbox
10183 \unvcopy\@leftcolumn
10184 \unskip\unkern\unpenalty
10185 \setbox\@tempbox@a\lastbox
10186 \ifdim\dimexpr\ht\@tempbox+a\wd\@tempbox+a\dp\@tempbox>\z@
10187 %% keeps lastbox
10188 \aftergroup\@leftcolumn
10189 \else
10190 %% removes lastbox
10191 \aftergroup\cuted@tempbox@a
10192 \fi
10193 }%
10194 \unskip\unkern\unpenalty
10195 \on@stripcols@break
10196 \the\At@ViperColsBreak
10197 \unvbox\@holdpg
10198 }%
10199 \global\At@ViperColsBreak{}%

```



```

10200      \ht@viper=.5\ht\@holdpg
10201      \ifdim\ht@viper>\@colht
10202          \ht@viper=\@colht
10203      \fi
10204  \fi
10205  %%
10206  %% calculations for breaking
10207  %%
10208  \ifvoid\hold@viper
10209      \ht@hold@viper=\z@
10210  \else
10211      \ht@hold@viper=\ht\hold@viper
10212  \fi
10213  \cuted@@tempdim@b\ht@viper
10214  \set@split@topskip@to\topskip
10215  \loop
10216      \xdef\saved@tempdimb{\the\cuted@@tempdim@b}%
10217      \setbox\cuted@@varbox@a\copy\@holdpg
10218      \setbox\cuted@@tempbox@a\vsplit\cuted@@varbox@a to\cuted@@tempdim@b
10219      %% set leftcolumn boxes
10220      \setbox\cuted@@tempbox@c\vbox{\unvbox\cuted@@tempbox@a}%
10221      \setbox\cuted@@tempbox@a\vbox to\cuted@@tempdim@b{\unvcopy\cuted@@tempbox@c}%
10222      \xdef\var@@leftcolumn@badness{\the\badness}%
10223      %% set rightcolumn boxes
10224      \setbox\cuted@@varbox@c\vbox{\unvbox\cuted@@varbox@a}%
10225      \setbox\cuted@@varbox@a\vbox to\cuted@@tempdim@b{\unvcopy\cuted@@varbox@c}%
10226      \xdef\var@@rightcolumn@badness{\the\badness}%
10227      %% analyzing split goodness
10228      \cuted@@tempdim@spread=\ht\cuted@@tempbox@c
10229      \advance\cuted@@tempdim@spread by\dp\cuted@@tempbox@c
10230      \advance\cuted@@tempdim@spread by-\ht\cuted@@varbox@c
10231      \advance\cuted@@tempdim@spread by-\dp\cuted@@varbox@c
10232      \cuted@@wlog@debug{CUTED [----]}%
10233      ^^JLeft: \the\ht\cuted@@tempbox@c
10234      +\the\dp\cuted@@tempbox@c\space/\var@@leftcolumn@badness
10235      ^^JRight: \the\ht\cuted@@varbox@c
10236      +\the\dp\cuted@@varbox@c\space/\var@@rightcolumn@badness
10237      ^^JSplit: \the\cuted@@tempdim@b
10238      ^^JExtra height: \the\cuted@@tempdim@spread
10239      }%
10240      \ifnum\var@@leftcolumn@badness<\cuted@@column@badness
10241          \ifnum\var@@rightcolumn@badness<\cuted@@column@badness
10242              \cuted@@tempdim@spread=\z@
10243          \fi
10244      \fi
10245      \ifdim\cuted@@tempdim@spread<\z@
10246          \if@leftcolumn@spread
10247              \if@rightcolumn@shrink
10248                  \ifdim\dimexpr\cuted@@tempdim@spread+\pageshrink>\z@
10249                      \cuted@@tempdim@a=\dimexpr\ht\cuted@@tempbox@c-0.5\cuted@@tempdim@spread+\pageshrink>\z@
10250                  \else
10251                      \cuted@@tempdim@a=-\dimexpr\cuted@@tempdim@spread+.5\pageshrink\relax
10252                  \fi
10253              \setbox\cuted@@varbox@a\vbox to\cuted@@tempdim@a{\unvcopy\cuted@@tempbox@c}

```



```

10254         \ifnum\badness<\cuted@@column@badness
10255             \cuted@@tempdim@b=\cuted@@tempdim@a
10256             \cuted@@tempdim@spread=\z@
10257         \fi
10258         \cuted@@wlog@debug{CUTED [leftcolumn badness]: \number\badness\space on
10259         \setbox\cuted@@varbox@a\vbox to\cuted@@tempdim@a{\unvcopy\cuted@@varbox@c
10260         \cuted@@wlog@debug{CUTED [rightcolumn badness]: \number\badness\space on
10261     \else
10262         \setbox\cuted@@varbox@a\vbox to\ht\cuted@@varbox@c{%
10263             \unvcopy\cuted@@tempbox@c
10264         }%
10265         \ifnum\badness<\cuted@@column@badness
10266             \@tempdimb=\ht\cuted@@varbox@c
10267             \cuted@@tempdim@spread=\z@
10268         \fi
10269         \cuted@@wlog@debug{CUTED [leftcolumn badness]: \number\badness on \the\h
10270         \setbox\cuted@@varbox@a\vbox to\ht\cuted@@varbox@c{%
10271             \unvcopy\cuted@@varbox@c
10272         }%
10273         \cuted@@wlog@debug{CUTED [rightcolumn badness]: \number\badness on \the\
10274     \fi
10275     \else
10276         \if@right@column@shrink
10277             \ifdim\dimexpr\cuted@@tempdim@spread+\pageshrink<\z@
10278             \else
10279                 \cuted@@tempdim@b=\ht\cuted@@tempbox@c
10280                 \cuted@@tempdim@spread=\z@
10281             \fi
10282         \fi
10283     \fi
10284     \else
10285         \ifdim\cuted@@tempdim@spread>\z@
10286             \ifdim\dimexpr\@tempdimb+\p@>\relax>\@colht
10287                 \cuted@@tempdim@b=\@colht
10288                 \cuted@@tempdim@spread=\z@
10289             \fi
10290         \fi
10291     \fi
10292     \ifdim\cuted@@tempdim@spread<\z@
10293         \advance\cuted@@tempdim@b 1\p@
10294     \repeat
10295     \wlog{CUTED [- LAST -]}%
10296     ^^JExtra skip:\the\cuted@@tempdim@spread
10297     ^^JLeft:\the\ht\cuted@@tempbox@c/\the\dp\cuted@@tempbox@c
10298     ^^JRight:\the\ht\cuted@@varbox@c/\the\dp\cuted@@varbox@c
10299     ^^JSplit: \saved@tempdimb
10300     ^^JOutput:\the\cuted@@tempdim@b
10301     ^^JPageshrink: \the\pageshrink
10302     ^^JPagestretch: \the\pagestretch
10303     ^^J@colht:\the\@colht
10304     }%
10305 %%
10306 %% final construction of the cuted page above strip
10307 %%

```



```

10308 \setbox\cuted@@tempbox@c\vsplit\@holdpg to\saved@tempdimb
10309 \setbox\cuted@@tempbox@a\vbox to\cuted@@tempdim@b{%
10310   \cuted@@tempdim@a=\dimexpr
10311     \cuted@@tempdim@b-\ht\cuted@@tempbox@c
10312   \relax
10313   \cuted@@tempdim@spread=\dp\cuted@@tempbox@c
10314   \unvbox\cuted@@tempbox@c
10315   \ifdim\cuted@@tempdim@spread>\dp\strutbox
10316   \else
10317     \vskip-\cuted@@tempdim@spread
10318   \fi
10319   \prevdepth\z@
10320   \hrule\@height\cuted@@page@rule width\textwidth
10321   \vskip-\cuted@@page@rule
10322   \ifdim\cuted@@tempdim@a>\z@
10323     \if@left@column@spread
10324     \else
10325       \vss
10326     \fi
10327   \else
10328     \ifdim\cuted@@tempdim@a<\z@
10329       \if@left@column@shrink
10330       \else
10331         \vss
10332       \fi
10333     \fi
10334   \fi
10335 }%
10336 \wlog{CUTED [output]: \the\cuted@@tempdim@b
10337   ^^JCUTED [leftcolumn badness]: \number\badness
10338 }%
10339 \setbox\cuted@@varbox@a\vbox to\cuted@@tempdim@b{%
10340   \cuted@@tempdim@a=\dimexpr
10341     \cuted@@tempdim@b-\ht\@holdpg
10342   \relax
10343   \unvbox\@holdpg
10344   \ifdim\cuted@@tempdim@a>\z@
10345     \if@right@column@spread
10346     \else
10347       \vss
10348     \fi
10349   \else
10350     \ifdim\cuted@@tempdim@a<\z@
10351       \if@right@column@shrink
10352       \else
10353         \vss
10354       \fi
10355     \fi
10356   \fi
10357 }%
10358 \wlog{CUTED [rightcolumn badness]: \number\badness}%
10359 \setbox\cuted@@tempbox@var\vbox{%
10360   \hb@xt@\textwidth{%
10361     \if@RTLmain

```



```

10362         \hskip \columnwidth
10363         \hfil
10364         {\normalcolor\vrule \@width\columnseprule}%
10365         \hfil
10366         \hb@xt@\columnwidth{%
10367             \vbox to\ht@viper{\box\cuted@@tempbox@a\vss}%
10368             \hss
10369         }%
10370         \hskip -\textwidth
10371         \hb@xt@\columnwidth{%
10372             \vbox to\ht@viper{\box\cuted@@varbox@a\vss}%
10373             \hss
10374         }%
10375         \hskip \columnsep
10376         \hskip \columnwidth
10377     \else
10378         \hb@xt@\columnwidth{%
10379             \vbox to\ht@viper{\box\cuted@@tempbox@a\vss}%
10380             \hss
10381         }%
10382         \hfil
10383         {\normalcolor\vrule \@width\columnseprule}%
10384         \hfil
10385         \hb@xt@\columnwidth{%
10386             \vbox to\ht@viper{\box\cuted@@varbox@a\vss}%
10387             \hss
10388         }%
10389     \fi
10390     }%
10391 }%
10392 %%
10393 %% finalize cuted page
10394 %%
10395 \ifvoid\hold@viper
10396     \global\setbox\hold@viper\vbox{%
10397         \unvbox\cuted@@tempbox@var
10398         \penalty\interlinepenalty
10399         \vskip\stripsep
10400         \the\preCutedStrip
10401         \ifnum\outputpenalty<-\@Mii
10402             \vskip -\parskip
10403         \fi
10404         \outputpenalty\z@
10405     }%
10406 \else
10407     \global\setbox\hold@viper\vbox{%
10408         \unvbox\hold@viper
10409         \cuted@@tempbox@var
10410         \penalty\interlinepenalty
10411         \vskip\stripsep
10412         \the\preCutedStrip
10413         \ifnum\outputpenalty<-\@Mii
10414             \vskip -\parskip
10415         \fi

```



```

10416         \outputpenalty\z@
10417     }%
10418 \fi
10419 \ifdim\@colht>\@reqcolroom
10420     \global\setbox\hold@viper\vbox{%
10421         \unvbox\hold@viper
10422         \box\@viper
10423         \penalty\interlinepenalty
10424         \the\postCutedStrip
10425         \vskip\stripsep
10426         \ifnum\outputpenalty<-\@Mii
10427             \vskip -\parskip
10428         \fi
10429         \outputpenalty\z@
10430     }%
10431 \inserttrue
10432 \global\@firstcolumntrue
10433 \advance\ht@hold@viper by-\ht\hold@viper
10434 \global\advance\@colht by\ht@hold@viper
10435 \ifdim\@colht<2.5\baselineskip
10436     \@latex@warning@no@line {Optional argument of \noexpand\twocolumn
10437                             too tall on page \thepage (\var@@thecol@num column)}}%
10438     \@emptycol
10439     \if@firstcolumn
10440     \else
10441         \@emptycol
10442     \fi
10443     \global\@lastvipertrue
10444 \else
10445     \global\ysize\@colht
10446     \global\@colroom\@colht
10447     \check@floats@cuted@@tempdim@a
10448     \ifdim\cuted@@tempdim@a>\z@
10449         \global\advance\@colroom by-\cuted@@tempdim@a
10450     \fi
10451     \ifdim\@colroom<\z@
10452         \global\@colroom1p@
10453         \ifdim\cuted@@tempdim@a>\@colht
10454             \@latex@warning@no@line{TOP and/or BOT FLOAT's
10455                                     to large on \thepage (\var@@thecol@num column)}}%
10456         \fi
10457         \@emptycol
10458         \if@firstcolumn
10459         \else
10460             \@emptycol
10461         \fi
10462         \global\@lastvipertrue
10463     \fi
10464 \fi
10465 \fi
10466 \if@insert
10467 \else
10468     \advance\ht@hold@viper by-\ht\hold@viper
10469     \global\advance\@colht by\ht@hold@viper

```



```

10470      \global\setbox\hold@viper\vbox{%
10471          \unvbox\hold@viper
10472          \set@split@topskip@to{\z@ plus2\p@}%
10473          \vsplit\@viper to\@colht
10474          \vss
10475      }%
10476      \vbox{%
10477      \global\@firstcolumnfalse
10478      \newpage
10479      \fi
10480      }

```

## 76 File cvthemebidicasual.sty

```

10481 \NeedsTeXFormat{LaTeX2e}
10482 \ProvidesPackage{cvthemebidicasual}
10483 \DeclareOption{blue}{}
10484 \newif\if@colourorange\@colourorangefalse
10485 \DeclareOption{orange}{\@colourorange true}
10486 \newif\if@colourgreen\@colourgreenfalse
10487 \DeclareOption{green}{\@colourgreen true}
10488 \newif\if@coloured\@colouredfalse
10489 \DeclareOption{red}{\@coloured true}
10490 \newif\if@colourgrey\@colourgreyfalse
10491 \DeclareOption{grey}{\@colourgrey true}
10492 \DeclareOption*{
10493     \PackageWarning{cvthemebidicasual}{Unknown option ‘\CurrentOption’}}
10494 \ExecuteOptions{colour}
10495 \ProcessOptions\relax
10496 \renewcommand*{\listitemsymbol}{\textbullet}
10497 \definecolor{firstnamecolor}{rgb}{0.65,0.65,0.65}
10498 \familynamecolour{808080}
10499 \firstnamecolour{A9A9A9}
10500 \quotecolour{696969}
10501 \addresscolour{696969}
10502 \definecolor{sectionrectanglecolor}{rgb}{0.25,0.50,0.75}
10503 \sectiontitlecolour{1E90FF}
10504 \subsectioncolour{4682B4}
10505 \definecolor{rulecolour}{gray}{0.6}
10506 \definecolor{footersymbolcolour}{rgb}{0.25,0.50,0.75}
10507 \definecolor{footersymbolcolor}{rgb}{0.25,0.50,0.75}
10508 \if@colourorange
10509     \definecolor{sectionrectanglecolor}{rgb}{1.00,0.65,0.20}
10510     \definecolor{sectionrectanglecolor}{rgb}{1.00,0.65,0.20}
10511     \sectiontitlecolour{FF8C00}
10512     \subsectioncolour{FF8C00}
10513     \definecolor{footersymbolcolour}{rgb}{0.95,0.55,0.15}
10514     \definecolor{footersymbolcolor}{rgb}{0.95,0.55,0.15}\fi
10515 \if@colourgreen
10516     \definecolor{sectionrectanglecolor}{rgb}{0.55,0.85,0.35}
10517     \definecolor{sectionrectanglecolour}{rgb}{0.55,0.85,0.35}
10518     \sectiontitlecolour{008000}
10519     \subsectioncolour{008000}
10520     \definecolor{footersymbolcolour}{rgb}{0.30,0.65,0.15}

```



```

10521 \definecolor{footersymbolcolor}{rgb}{0.30,0.65,0.15}\fi
10522 \if@coloured
10523 \definecolor{sectionrectanglecolor}{rgb}{1.00,0.30,0.30}
10524 \definecolor{sectionrectanglecolour}{rgb}{1.00,0.30,0.30}
10525 \sectiontitlecolour{FF0000}
10526 \subsectioncolour{FF0000}
10527 \definecolor{footersymbolcolour}{rgb}{0.95,0.20,0.20}
10528 \definecolor{footersymbolcolor}{rgb}{0.95,0.20,0.20}\fi
10529 \if@colourgrey
10530 \definecolor{sectionrectanglecolor}{rgb}{0.75,0.75,0.75}
10531 \definecolor{sectionrectanglecolour}{rgb}{0.75,0.75,0.75}
10532 \sectiontitlecolour{808080}
10533 \subsectioncolour{808080}
10534 \definecolor{footersymbolcolour}{rgb}{0.35,0.35,0.35}
10535 \definecolor{footersymbolcolor}{rgb}{0.35,0.35,0.35}\fi
10536 \renewcommand*{\ttdefault}{pcr}
10537 \renewcommand*{\firstnamefont}{\fontsize{38}{40}\mdseries\upshape}
10538 \renewcommand*{\familynamefont}{\firstnamefont}
10539 \renewcommand*{\addressfont}{\normalsize\mdseries\slshape}
10540 \renewcommand*{\quoteontext}{\large\slshape}
10541 \renewcommand*{\sectionfont}{\Large\mdseries\upshape}
10542 \renewcommand*{\subsectionfont}{\large\mdseries\upshape}
10543 \renewcommand*{\maketitle}{%
10544   {%
10545     \ifthenelse{\isundefined{\@photo}}{%
10546       {}%
10547       {\color{firstnamecolor}\framebox{\includegraphics[width=\@photowidth]{\@photo}}}%
10548       \hfill%
10549       \bidi@raggedleft{\firstnamestyle{\@firstname}~\familynamestyle{\@familyname}}\[-.35em]}%
10550     {\color{firstnamecolor}\rule{\textwidth}{.25ex}\[2.5em]}%
10551     \ifthenelse{\isundefined{\@quote}}{%
10552       {}%
10553       {\centering{\begin{minipage}{\quotewidth}\centering\quotestyle{\@quote}\end{minipage}}\%
10554     }%
10555 \newif\if@firstfooterelement\@firstfooterelementtrue
10556 \providecommand*{\footersymbol}{%
10557 \renewcommand*{\footersymbol}{%
10558 \if@firstfooterelement%
10559 \else%
10560 { ~\color{footersymbolcolor}\textbullet~~}\fi}
10561 \providecommand*{\makefooter}{%
10562 \renewcommand*{\makefooter}{%
10563 \fancypagestyle{plain}{%
10564 \fancyfoot[c]{%
10565 \parbox{0.8\textwidth}{%
10566 \centering%
10567 \addressfont\@addresscolour%
10568 \ifthenelse{\isundefined{\@address}}{\@address}{%
10569 \addresssymbol~\@address}%
10570 \@firstfooterelementfalse}%
10571 \ifthenelse{\isundefined{\@mobile}}{\@mobile}{\mobilesymbol~\@mobile\@firstfooterelementfalse}%
10572 \ifthenelse{\isundefined{\@phone}}{\@phone}{\footersymbol\phonesymbol~\@phone\@firstfooterelementfalse}%
10573 \ifthenelse{\isundefined{\@fax}}{\@fax}{\footersymbol\xfaxsymbol~\@fax\@firstfooterelementfalse}%
10574 \ifthenelse{\isundefined{\@email}}{\@email}{\footersymbol\emailsymbol~\@email\@firstfooterelementfalse}%

```



```

10575     \ifthenelse{\isundefined{\@extrainfo}}{\footersymbol\@extrainfo\@firstfooterelementf
10576   }%
10577   \pagestyle{plain}}
10578 \AtBeginDocument{\makefooter}

```

## 77 File cvthemebidiclassic.sty

```

10579 \NeedsTeXFormat{LaTeX2e}
10580 \ProvidesPackage{cvthemebidiclassic}
10581 \DeclareOption{blue}{}
10582 \newif\if@colourorange\@colourorangefalse
10583 \DeclareOption{orange}{\@colourorangetrue}
10584 \newif\if@colourgreen\@colourgreenfalse
10585 \DeclareOption{green}{\@colourgreentrue}
10586 \newif\if@colourred\@colourredfalse
10587 \DeclareOption{red}{\@colourredtrue}
10588 \newif\if@colourgrey\@colourgreyfalse
10589 \DeclareOption{grey}{\@colourgreytrue}
10590 \DeclareOption*{
10591   \PackageWarning{cvthemebidiclassic}{Unknown option ‘\CurrentOption’}}
10592 \ExecuteOptions{colour}
10593 \ProcessOptions\relax
10594 \renewcommand*{\listitemsymbol}{\textbullet}
10595 \firstnamecolour{}
10596 \familynamecolour{}
10597 \titlecolour{808080}
10598 \quotecolour{696969}
10599 \addresscolour{696969}
10600 \definecolor{sectionrectanglecolour}{rgb}{0.25,0.50,0.75}
10601 \definecolor{sectionrectanglecolor}{rgb}{0.25,0.5,0.75}
10602 \sectiontitlecolour{1E90FF}
10603 \subsectioncolour{4682B4}
10604 \if@colourorange
10605   \addresscolour{FF8C00}
10606   \definecolor{sectionrectanglecolour}{rgb}{1.00,0.65,0.20}
10607   \definecolor{sectionrectanglecolor}{rgb}{1,0.65,0.20}
10608   \sectiontitlecolour{FF8C00}
10609   \subsectioncolour{FF8C00}\fi
10610 \if@colourgreen
10611   \addresscolour{008000}
10612   \definecolor{sectionrectanglecolour}{rgb}{0.55,0.85,0.35}
10613   \definecolor{sectionrectanglecolor}{rgb}{0.55,0.85,0.35}
10614   \sectiontitlecolour{008000}
10615   \subsectioncolour{008000}\fi
10616 \if@colourred
10617   \addresscolour{FF0000}
10618   \definecolor{sectionrectanglecolour}{rgb}{1.00,0.30,0.30}
10619   \definecolor{sectionrectanglecolor}{rgb}{1.00,0.30,0.30}
10620   \sectiontitlecolour{FF0000}
10621   \subsectioncolour{FF0000}\fi
10622 \if@colourgrey
10623   \addresscolour{808080}
10624   \definecolor{sectionrectanglecolour}{rgb}{0.75,0.75,0.75}
10625   \definecolor{sectionrectanglecolor}{rgb}{0.75,0.75,0.75}

```



```

10626 \sectiontitlecolour{808080}
10627 \subsectioncolour{808080}\fi
10628 \renewcommand*{\ttdefault}{pcr}
10629 \renewcommand*{\firstnamefont}{\fontsize{34}{36}\mdseries\upshape}
10630 \renewcommand*{\titlefont}{\LARGE\mdseries\slshape}
10631 \renewcommand*{\addressfont}{\normalsize\mdseries\slshape}
10632 \renewcommand*{\familynamefont}{\firstnamefont}
10633 \renewcommand*{\quoteont}{\large\slshape}
10634 \renewcommand*{\sectionfont}{\Large\mdseries\upshape}
10635 \renewcommand*{\subsectionfont}{\large\mdseries\upshape}
10636 \newlength{\maketitlenamemaxwidth}
10637 \setlength{\maketitlenamemaxwidth}{.525\textwidth}
10638 \newlength{\maketitlenamefullwidth}
10639 \settowidth{\maketitlenamefullwidth}{\firstnamestyle{\@firstname~}\familynamestyle{\@familyname}}
10640 \newlength{\maketitlenamewidth}
10641 \ifnum\maketitlenamemaxwidth<\maketitlenamefullwidth\setlength{\maketitlenamewidth}{\maketitlenamefullwidth}
10642 \newlength{\maketitlepicturewidth}
10643 \setlength{\maketitlepicturewidth}{\@photowidth}
10644 \newlength{\maketitledetailwidth}
10645 \renewcommand*{\recomputethemelengths}{%
10646 \setlength{\maketitledetailwidth}{\textwidth}%
10647 \addtolength{\maketitledetailwidth}{-\maketitlenamewidth}%
10648 \addtolength{\maketitledetailwidth}{-\separatorcolumnwidth}%
10649 \addtolength{\maketitledetailwidth}{-\maketitlepicturewidth}}
10650 \recomputethemelengths
10651 \newif\if@firstdetailselement\@firstdetailselementtrue
10652 \newcommand*{\maketitledetailnewline}{
10653 \if@firstdetailselement%
10654 \@firstdetailselementfalse%
10655 \else%
10656 \[\.2em]\fi}
10657 \renewcommand*{\maketitle}{%
10658 % name and title
10659 \begin{minipage}[b]{\maketitlenamewidth}%
10660 \firstnamestyle{\@firstname~}\familynamestyle{\@familyname}%
10661 \ifthenelse{equal{\@title}{}}{\[\!1.25em\titlestyle{\@title}}{}
10662 \end{minipage}%
10663 % optional data
10664 \begin{minipage}[b]{\maketitledetailwidth}%
10665 \bidi@raggedleft\addressfont\addresscolour%
10666 \ifthenelse{\isundefined{\@address}}{\[\!}{}
10667 \maketitledetailnewline%
10668 \addresssymbol~\@address}%
10669 \ifthenelse{\isundefined{\@mobile}}{\maketitledetailnewline\mobilesymbol~\@mobile}%{}
10670 \ifthenelse{\isundefined{\@phone}}{\maketitledetailnewline\phonesymbol~\@phone}%{}
10671 \ifthenelse{\isundefined{\@fax}}{\maketitledetailnewline\faxsymbol~\@fax}%{}
10672 \ifthenelse{\isundefined{\@email}}{\maketitledetailnewline\emailsymbol~\emailink{\@email}}{}
10673 \ifthenelse{\isundefined{\@extrainfo}}{\maketitledetailnewline\@extrainfo}%{}
10674 \end{minipage}%
10675 % optional photo
10676 \ifthenelse{\isundefined{\@photo}}{\[\!}{}
10677 {}%
10678 {\hspace*{\separatorcolumnwidth}\color{firstnamecolor}\framebox{\includegraphics[width=\@photo]{\@photo}}}%
10679 % optional quote

```



```

10680 \ifthenelse{\isundefined{\@quote}}{%
10681   }%
10682   {\centering{\begin{minipage}{\quotewidth}\centering\quotestyle{\@quote}\end{minipage}}\\\
10683 }

```

## 78 File dblfnote-xetex-bidi.def

```

10684 \ProvidesFile{dblfnote-xetex-bidi.def}[2012/12/12 v0.3 bidi adaptations for dblfnote package]
10685 \let\autofootnoterule\relax
10686 \let\rightfootnoterule\relax
10687 \let\leftfootnoterule\relax
10688 \let\textwidthfootnoterule\relax
10689 \let\LRfootnoterule\relax
10690 \def\footnoterule{\kern-3\p@
10691   \hrule \@width \DFNcolumnwidth \kern 2.6\p@}%
10692 \AtBeginDocument{\let\dfn@latex@footnotetext\@footnotetext
10693 \let\@footnotetext\dfn@footnotetext}
10694 \long\def\dfn@LTRfootnotetext#1{\setbox\dfn@boxa\vbox{
10695   \let\insert\dfn@gobble
10696   \columnwidth\DFNcolumnwidth \hbadness\c@DFNsloppiness
10697   \def\@makefnmark{\smash{\dfn@makefnmark}}
10698   \dfn@latex@LTRfootnotetext{#1}\par \boxmaxdepth\dfn@fnmaxdp}%
10699   \dfn@dima\ht\dfn@boxa \advance\dfn@dima\dp\dfn@boxa
10700   \ifdim\dfn@dima>\z@else
10701     \dfn@dima1sp\relax
10702     \setbox\dfn@boxa\vbox{\vbox to1sp{\unvbox\dfn@boxa\vfil}}\fi
10703   \global\setbox\dfn@ins\vbox{\boxmaxdepth\dfn@fnmaxdp
10704     \ifvoid\dfn@ins\else
10705       \unvbox\dfn@ins \allowbreak \nointerlineskip \fi
10706     \ifdfn@allowcbreak \unvbox \else \box \fi \dfn@boxa}%
10707   \setbox\dfn@boxa\copy\dfn@ins
10708   \dfn@split{.5\ht\dfn@boxa}\dfn@boxa\dfn@boxb\dfn@fnmaxdp\footnotesep
10709   \advance\@tempdima\@tempdimb \@tempdimb\@tempdima
10710   \advance\@tempdima-\dfn@fnht \global\dfn@fnht\@tempdimb
10711   \insert\footins{\floatingpenalty\@MM \vbox to\@tempdima{}}%
10712   \xdef\dfn@list{\dfn@list\@elt{number\dfn@dima}{\number\@tempdima}}}}
10713 \AtBeginDocument{\let\dfn@latex@LTRfootnotetext\@LTRfootnotetext
10714 \let\@LTRfootnotetext\dfn@LTRfootnotetext}
10715 \long\def\dfn@RTLfootnotetext#1{\setbox\dfn@boxa\vbox{
10716   \let\insert\dfn@gobble
10717   \columnwidth\DFNcolumnwidth \hbadness\c@DFNsloppiness
10718   \def\@makefnmark{\smash{\dfn@makefnmark}}
10719   \dfn@latex@RTLfootnotetext{#1}\par \boxmaxdepth\dfn@fnmaxdp}%
10720   \dfn@dima\ht\dfn@boxa \advance\dfn@dima\dp\dfn@boxa
10721   \ifdim\dfn@dima>\z@else
10722     \dfn@dima1sp\relax
10723     \setbox\dfn@boxa\vbox{\vbox to1sp{\unvbox\dfn@boxa\vfil}}\fi
10724   \global\setbox\dfn@ins\vbox{\boxmaxdepth\dfn@fnmaxdp
10725     \ifvoid\dfn@ins\else
10726       \unvbox\dfn@ins \allowbreak \nointerlineskip \fi
10727     \ifdfn@allowcbreak \unvbox \else \box \fi \dfn@boxa}%
10728   \setbox\dfn@boxa\copy\dfn@ins
10729   \dfn@split{.5\ht\dfn@boxa}\dfn@boxa\dfn@boxb\dfn@fnmaxdp\footnotesep
10730   \advance\@tempdima\@tempdimb \@tempdimb\@tempdima

```



```

10731      \advance\@tempdima-\dfn@fnht \global\dfn@fnht\@tempdimb
10732      \insert\footins{\floatingpenalty\@MM \vbox to\@tempdima{}}%
10733      \xdef\dfn@list{\dfn@list\@elt{\number\dfn@dima}{\number\@tempdima}}}}
10734 \AtBeginDocument{\let\dfn@latex@RTLfootnotetext\@RTLfootnotetext
10735 \let\@RTLfootnotetext\dfn@RTLfootnotetext}
10736 \def\dfn@RTLmakecol{{\ifvoid\footins\else
10737     \dfn@dima\ht\footins
10738     \@tempcnta\z@ \dfn@countins
10739     \@tempdima\z@ \let\@elt\dfn@elt\getht
10740     \dfn@list\@nil
10741     \ifdim\@tempdima=\z@\else
10742     \dfn@split\@tempdima\dfn@ins\dfn@boxa\z@\z@
10743     \global\setbox\dfn@ins\box\dfn@ins
10744     \@tempswatrue
10745     \ifdfn@trysingle
10746         \setbox\dfn@boxb\vbox{\unvcopy\@cclv}\@tempdima\@colroom
10747         \advance\@tempdima-\ht\dfn@boxb \advance\@tempdima-\dp\dfn@boxb
10748         \advance\@tempdima-\skip\footins
10749         \advance\@tempdima-\ht\dfn@boxa
10750         \ifdim\@tempdima<\z@\else \@tempswafalse
10751             \global\setbox\footins\vbox{\boxmaxdepth\dfn@fnmaxdp
10752                 \footnoterule \unvbox\dfn@boxa}\fi\fi
10753     \if@tempswa
10754     \dfn@split{\dfn@dima}\dfn@boxa\dfn@boxb\dfn@fnmaxdp\footnotesep
10755     \global\setbox\footins\vbox{\hbox{%
10756         \hskip \DFNcolumnwidth
10757         \hskip\DFNcolumnsep
10758         \hbox to\DFNcolumnwidth{\vbox to\@tempdima{\footnoterule
10759             \unvbox\dfn@boxb\vss}\hss}
10760         \hskip -\textwidth
10761         \hbox to\DFNcolumnwidth{\ifvoid\dfn@boxa\else
10762             \vbox to\@tempdima{
10763                 \setbox\@tempboxa\vbox{\footnoterule}
10764                 \ifdfn@ruleboth \unvbox\@tempboxa
10765                 \else \@tempdima\ht\@tempboxa
10766                     \advance\@tempdima\dp\@tempboxa
10767                     \vskip\@tempdima
10768                     \prevdepth\dp\@tempboxa \fi
10769                 \unvbox\dfn@boxa\vss}\fi\hss}
10770                 \hskip \DFNcolumnsep
10771                 \hskip \DFNcolumnwidth}}}\fi\fi
10772     \global\dfn@fnht\z@
10773     \ifx\dfn@list\@empty\else
10774         \let\@elt\dfn@elt\adjust \dfn@dima\z@ \dfn@dimb\z@
10775         \dfn@list \global\advance\dfn@fnht\dfn@dimb
10776         \let\@elt\relax
10777         \ifdim\dfn@dimb>\z@
10778             \xdef\dfn@list{\@elt{0}{\number\dfn@dimb}\dfn@list}%
10779             \insert\footins{\floatingpenalty\@MM
10780                 \vbox to\dfn@dimb{}}\fi
10781         \ifdim\dfn@fnht>\@tempdima
10782             \@tempdimb\@tempdima \advance\@tempdimb-\dfn@fnht
10783             \global\dfn@fnht\@tempdima
10784             \xdef\dfn@list{\dfn@list\@elt{0}{\number\@tempdimb}}}%

```



```

10785             \xdef\dfn@afteroutput{\insert\footins{
10786                 \floatingpenalty\@MM
10787                 \vbox to\number\@tempdimb sp{}}}%
10788             \global\let\noexpand\dfn@afteroutput\relax}%
10789         \fi\fi
10790     \fi}%
10791     \let\footnoterule\relax \dfn@latex@makecol
10792     \let\footnoterule\dfn@footnoterule}
10793 \def\dfn@LTRmakecol{\ifvoid\footins\else
10794     \dfn@dima\ht\footins
10795     \@tempcnta\z@ \dfn@countins
10796     \@tempdima\z@ \let\@elt\dfn@elt@getht
10797     \dfn@list\@nil
10798     \ifdim\@tempdima=\z@\else
10799     \dfn@split\@tempdima\dfn@ins\dfn@boxa\z@\z@
10800     \global\setbox\dfn@ins\box\dfn@ins
10801     \@tempswatrue
10802     \ifdfn@trysingle
10803         \setbox\dfn@boxb\vbox{\unvcopy\@cclv}\@tempdima\@colroom
10804         \advance\@tempdima-\ht\dfn@boxb \advance\@tempdima-\dp\dfn@boxb
10805         \advance\@tempdima-\skip\footins
10806         \advance\@tempdima-\ht\dfn@boxa
10807         \ifdim\@tempdima<\z@\else \@tempswafalse
10808             \global\setbox\footins\vbox{\boxmaxdepth\dfn@fnmaxdp
10809                 \footnoterule \unvbox\dfn@boxa}\fi\fi
10810     \if@tempswa
10811     \dfn@split{\dfn@dima}\dfn@boxa\dfn@boxb\dfn@fnmaxdp\footnotesep
10812     \global\setbox\footins\vbox{\hbox{%
10813         \hbox to\DFNcolumnwidth{\vbox to\@tempdima{\footnoterule
10814             \unvbox\dfn@boxb\vss}\hss}\hskip\DFNcolumnsep
10815         \hbox to\DFNcolumnwidth{\ifvoid\dfn@boxa\else
10816             \vbox to\@tempdima{
10817                 \setbox\@tempboxa\vbox{\footnoterule}
10818                 \ifdfn@ruleboth \unvbox\@tempboxa
10819                 \else \@tempdima\ht\@tempboxa
10820                 \advance\@tempdima\dp\@tempboxa
10821                 \vskip\@tempdima
10822                 \prevdepth\dp\@tempboxa \fi
10823                 \unvbox\dfn@boxa\vss}\fi\hss}}}\fi\fi
10824     \global\dfn@fnht\z@
10825     \ifx\dfn@list\@empty\else
10826         \let\@elt\dfn@elt@adjust \dfn@dima\z@ \dfn@dimb\z@
10827         \dfn@list \global\advance\dfn@fnht\dfn@dimb
10828         \let\@elt\relax
10829         \ifdim\dfn@dimb>\z@
10830             \xdef\dfn@list{\@elt{0}{\number\dfn@dimb}\dfn@list}%
10831             \insert\footins{\floatingpenalty\@MM
10832                 \vbox to\dfn@dimb{}}\fi
10833         \ifdim\dfn@fnht>\@tempdima
10834             \@tempdimb\@tempdima \advance\@tempdimb-\dfn@fnht
10835             \global\dfn@fnht\@tempdima
10836             \xdef\dfn@list{\dfn@list\@elt{0}{\number\@tempdimb}}%
10837             \xdef\dfn@afteroutput{\insert\footins{
10838                 \floatingpenalty\@MM

```



```

10839 \vbox to\number\@tempdimb sp{}}%
10840 \global\let\noexpand\dfn@afteroutput\relax}%
10841 \fi\fi
10842 \fi}%
10843 \let\footnoterule\relax \dfn@latex@makecol
10844 \let\footnoterule\dfn@footnoterule}
10845 \renewcommand{\dfn@makecol}{\if@RTLmain\dfn@RTLmakecol\else\dfn@LTRmakecol\fi}
10846 \newcommand{\RTLdfnmakecol}{\renewcommand{\dfn@makecol}{\dfn@RTLmakecol}}
10847 \newcommand{\LTRdfnmakecol}{\renewcommand{\dfn@makecol}{\dfn@LTRmakecol}}
10848 \DFNalwaysdouble

```

## 79 File diagbox-xetex-bidi.def

```

10849 \ProvidesFile{diagbox-xetex-bidi.def}[2017/12/30 v0.2 bidi adaptations for diagbox package f
10850 \bidi@patchcmd{\diagbox@double}{%
10851 \begin{tabular}{@{\hspace{\diagbox@insepr}}>\diagbox@font}l@{}}
10852 }{\bidi@@diagbox@double@ii}{}}
10853 \bidi@patchcmd{\diagbox@double}{%
10854 \begin{tabular}{@{}>\diagbox@font}r@{\hspace{\diagbox@insepr}}}}
10855 }{\bidi@@diagbox@double@iii}{}}
10856 \newcommand*{\bidi@@diagbox@double@ii}{%
10857 \if@RTL
10858 \begin{tabular}{@{}>\diagbox@font}r@{\hspace{\diagbox@insepr}}}}
10859 \else
10860 \begin{tabular}{@{\hspace{\diagbox@insepr}}>\diagbox@font}l@{}}
10861 \fi
10862 }
10863 \newcommand*{\bidi@@diagbox@double@iii}{%
10864 \if@RTL
10865 \begin{tabular}{@{\hspace{\diagbox@insepr}}>\diagbox@font}l@{}}
10866 \else
10867 \begin{tabular}{@{}>\diagbox@font}r@{\hspace{\diagbox@insepr}}}}
10868 \fi
10869 }
10870 \bidi@patchcmd{\diagbox@triple@setbox@NW}{%
10871 \begin{tabular}{@{\hspace{\diagbox@insepr}}>\diagbox@font}l@{}}
10872 }{\bidi@@diagbox@triple@setbox@NW@tabular@i@ii}{}}
10873 \bidi@patchcmd{\diagbox@triple@setbox@NW}{%
10874 \begin{tabular}{@{\hspace{\diagbox@insepr}}>\diagbox@font}l@{}}
10875 }{\bidi@@diagbox@triple@setbox@NW@tabular@i@ii}{}}
10876 \bidi@patchcmd{\diagbox@triple@setbox@NW}{%
10877 \begin{tabular}{@{}>\diagbox@font}r@{\hspace{\diagbox@insepr}}}}
10878 }{\bidi@@diagbox@triple@setbox@NW@tabular@iii}{}}
10879 \newcommand*{\bidi@@diagbox@triple@setbox@NW@tabular@i@ii}{%
10880 \if@RTL
10881 \begin{tabular}{@{}>\diagbox@font}r@{\hspace{\diagbox@insepr}}}}
10882 \else
10883 \begin{tabular}{@{\hspace{\diagbox@insepr}}>\diagbox@font}l@{}}
10884 \fi
10885 \newcommand*{\bidi@@diagbox@triple@setbox@NW@tabular@iii}{%
10886 \if@RTL
10887 \begin{tabular}{@{\hspace{\diagbox@insepr}}>\diagbox@font}l@{}}
10888 \else
10889 \begin{tabular}{@{}>\diagbox@font}r@{\hspace{\diagbox@insepr}}}}

```



```

10890 \fi}
10891 \let\diagbox@triple@setbox@SW\diagbox@triple@setbox@NW
10892 \bidi@patchcmd{\diagbox@triple@setbox@SE}{%
10893   \begin{tabular}{@{\hspace{\diagbox@insepl}}l@{}}%
10894 }{\bidi@@diagbox@triple@setbox@SE@tabular@i}{-}{-}
10895 \bidi@patchcmd{\diagbox@triple@setbox@SE}{%
10896   \begin{tabular}{@{\hspace{\diagbox@insepr}}}%
10897 }{\bidi@@diagbox@triple@setbox@SE@tabular@ii@iii}{-}{-}
10898 \bidi@patchcmd{\diagbox@triple@setbox@SE}{%
10899   \begin{tabular}{@{\hspace{\diagbox@insepr}}}%
10900 }{\bidi@@diagbox@triple@setbox@SE@tabular@ii@iii}{-}{-}
10901 \newcommand*{\bidi@@diagbox@triple@setbox@SE@tabular@i}{%
10902   \ifRTL
10903     \begin{tabular}{@{\hspace{\diagbox@insepl}}}
10904   \else
10905     \begin{tabular}{@{\hspace{\diagbox@insepl}}l@{}}
10906   \fi
10907 }
10908 \newcommand*{\bidi@@diagbox@triple@setbox@SE@tabular@ii@iii}{%
10909   \ifRTL
10910     \begin{tabular}{@{\hspace{\diagbox@insepr}}l@{}}
10911   \else
10912     \begin{tabular}{@{\hspace{\diagbox@insepr}}}
10913   \fi
10914 }
10915 \let\diagbox@triple@setbox@NE\diagbox@triple@setbox@SE
10916 \bidi@patchcmd{\diagbox@double@pict@SE}{%
10917   \diagbox@setlinecolor
10918   \Line(0,\strip@pt\diagbox@ht)(\strip@pt\diagbox@wd,0)%
10919 }{%
10920   {\diagbox@setlinecolor
10921     \Line(0,\strip@pt\diagbox@ht)(\strip@pt\diagbox@wd,0)}%
10922 }{-}{-}
10923 \let\diagbox@double@pict@NW\diagbox@double@pict@SE
10924 \bidi@patchcmd{\diagbox@double@pict@NE}{%
10925   \diagbox@setlinecolor
10926   \Line(0,0)(\strip@pt\diagbox@wd,\strip@pt\diagbox@ht)%
10927 }{%
10928   {\diagbox@setlinecolor
10929     \Line(0,0)(\strip@pt\diagbox@wd,\strip@pt\diagbox@ht)}%
10930 }{-}{-}
10931 \let\diagbox@double@pict@SW\diagbox@double@pict@NE
10932 \bidi@patchcmd{\diagbox@triple@pict@NW}{%
10933   \diagbox@setlinecolor
10934   \Line(0,\yym)(\x,0)
10935   \Line(\xm,\y)(\x,0)%
10936 }{%
10937   {\diagbox@setlinecolor
10938     \Line(0,\yym)(\x,0)
10939     \Line(\xm,\y)(\x,0)}%
10940 }{-}{-}
10941 \bidi@patchcmd{\diagbox@triple@pict@NE}{%
10942   \diagbox@setlinecolor
10943   \Line(0,0)(\xxm,\y)

```



```

10944 \Line(0,0)(\x,\ym)%
10945 }{%
10946 {\diagbox@setlinecolor
10947 \Line(0,0)(\xxm,\y)
10948 \Line(0,0)(\x,\ym)}%
10949 }{}{}
10950 \bidi@patchcmd{\diagbox@triple@pict@SW}{%
10951 \diagbox@setlinecolor
10952 \Line(0,\ym)(\x,\y)
10953 \Line(\xm,0)(\x,\y)}%
10954 }{%
10955 {\diagbox@setlinecolor
10956 \Line(0,\ym)(\x,\y)
10957 \Line(\xm,0)(\x,\y)}%
10958 }{}{}
10959 \bidi@patchcmd{\diagbox@triple@pict@SE}{%
10960 \diagbox@setlinecolor
10961 \Line(0,\y)(\xxm,0)
10962 \Line(0,\y)(\x,\ym)}%
10963 }{%
10964 {\diagbox@setlinecolor
10965 \Line(0,\y)(\xxm,0)
10966 \Line(0,\y)(\x,\ym)}%
10967 }{}{}

```

## 80 File draftwatermark-xetex-bidi.def

```

10968 \ProvidesFile{draftwatermark-xetex-bidi.def}[2010/07/25 v0.2 bidi adaptations for draftwater
10969 \renewcommand\SetWatermarkText[1]{%
10970 \def\sc@wm@text{\if@RTLmain\beginR\fi#1\if@RTLmain\endR\fi}}

```

## 81 File eso-pic-xetex-bidi.def

```

10971 \ProvidesFile{eso-pic-xetex-bidi.def}[2022/02/18 v0.4 bidi adaptations for eso-pic package f
10972 \renewcommand\AtPageLowerLeft[1]{\AtPageUpperLeft{%
10973 \put(\if@RTLmain\paperwidth\else 0\fi,-\paperheight){#1}}
10974
10975 \ESO@isMEMOIR{%
10976 \renewcommand\AtTextUpperLeft[1]{%
10977 \begingroup
10978 \ifodd\c@page
10979 \if@RTLmain
10980 \ESO@tempdima=\paperwidth
10981 \advance\ESO@tempdima-\textwidth
10982 \advance\ESO@tempdima-\spinemargin
10983 \else
10984 \ESO@tempdima=\spinemargin
10985 \fi
10986 \else
10987 \if@RTLmain
10988 \ESO@tempdima=\spinemargin
10989 \else
10990 \ESO@tempdima=\paperwidth
10991 \advance\ESO@tempdima-\textwidth

```



```

10992         \advance\ESO@tempdima-\spinemargin
10993         \fi
10994     \fi
10995     \ESO@tempdimb=-\uppermargin
10996     \AtPageUpperLeft{%
10997         \put(\if@RTLmain-\textwidth-\fi\ESO@tempdima,\ESO@tempdimb){#1}%
10998     }%
10999 \endgroup
11000 }
11001 }{%
11002 \renewcommand\AtTextUpperLeft[1]{%
11003 \begingroup
11004 \ESO@tempdima=1in\relax
11005 \if@twoside
11006     \ifodd\c@page
11007         \if@RTLmain
11008             \advance\ESO@tempdima\evensidemargin
11009         \else
11010             \advance\ESO@tempdima\oddsidemargin
11011         \fi
11012     \else
11013         \if@RTLmain
11014             \advance\ESO@tempdima\oddsidemargin
11015         \else
11016             \advance\ESO@tempdima\evensidemargin
11017         \fi
11018     \fi
11019 \else
11020     \advance\ESO@tempdima\oddsidemargin
11021 \fi
11022 \ESO@tempdimb=-1in\relax
11023 \advance\ESO@tempdimb-\topmargin
11024 \advance\ESO@tempdimb-\headheight
11025 \advance\ESO@tempdimb-\headsep
11026 \AtPageUpperLeft{%
11027     \put(\if@RTLmain-\textwidth-\fi\ESO@tempdima,\ESO@tempdimb){#1}%
11028 }%
11029 \endgroup
11030 }
11031 }

```

## 82 File empheq-xetex-bidi.def

```

11032 \ProvidesFile{empheq-xetex-bidi.def}[2018/01/08 v0.2 bidi adaptations for empheq package for
11033 \MHInternalSyntaxOn
11034 \def\EQ_tag_plus_endmark:{%
11035     \iftagsleft@
11036         \gdef\maketag@@@##1{%
11037             \hfuzz\displaywidth
11038             \if@RTL\makebox[\widthof{##1}][r]{%
11039                 \hbox to \displaywidth{\m@th\normalfont##1\hss
11040                     \raisebox{-\dp\EQ_mathdisplay_box
11041                         -\depthof{\EQ_outerbox:}}{
11042                         {\PotEndMark{\hss}}}}

```



```

11043     \else\makebox[\widthof{##1}][l]{%
11044       \hbox to \displaywidth{\m@th\normalfont##1\hss
11045         \raisebox{-\dp\EQ_mathdisplay_box
11046           -\depthof{\EQ_outerbox: {}}}{
11047           {\PotEndMark{\hss}}}\fi}%
11048 \MH_else:
11049   \gdef\maketag@@@##1{%
11050     \hbox{\m@th\normalfont##1\llap{\hss\PotEndMark{%
11051       \settoheight{\@tempdima}{\@nameuse{\InTheoType Symbol}}}%
11052       \MH_addtolength:dn \@tempdima
11053       {\g_EQ_bottomtag_depth_dim+\mintagvsep}
11054       \setlength{\@tempdimb}
11055       {\g_EQ_bottomrow_depth_dim+\depthof{\EQ_outerbox: {}}
11056       +\depthof{\EQ_innerbox: {}}}}
11057     \MH_if_dim:w \@tempdima>\@tempdimb
11058     \MH_setlength:dn \@tempdima{-\dp\EQ_mathdisplay_box
11059     -\@tempdima+\g_EQ_bottomrow_depth_dim}
11060     \addtolength{\@tempdima}{\depthof{\EQ_innerbox: {}}}%
11061     \def\EQ_next:{\raisebox{\@tempdima}}}%
11062   \MH_else:
11063     \def\EQ_next:{
11064       \raisebox{-\dp\EQ_mathdisplay_box
11065       -\depthof{\EQ_outerbox: {}}}%
11066     \MH_fi:\EQ_next:}}}%
11067 \MH_fi:}
11068 \def\EQ_post_process:{%
11069   \EQ_initialize:
11070   \EQ_begin_equation:
11071   \MH_if_boolean:nT {outer_mult}{
11072     \setkeys{\MT_options_name:}{
11073       firstline-afterskip=0pt,
11074       lastline-preskip=0pt,
11075       multlined-width=0pt,
11076     }
11077     \ifodd \l_EQ_alignmentmode_int
11078     \setkeys{\MT_options_name:}{multlined-pos=b}
11079   \MH_else:
11080     \setkeys{\MT_options_name:}{multlined-pos=t}
11081   \MH_fi:
11082     \g@addto@macro\EQ_complete_mathdisplay:{
11083       \begin{MTmultlined}\relax}
11084   }
11085   \g@addto@macro\EQ_complete_mathdisplay:\EQ_mathbody:
11086   \MH_if_boolean:nT {outer_mult}{
11087     \g@addto@macro\EQ_complete_mathdisplay:{\end{MTmultlined}}
11088   }
11089   \EQ_end_equation:
11090   \edef\EQ_hyperref_link_fint{\number\Hy@linkcounter}
11091   \savecounters@
11092   \EQ_typeset_tags:
11093   \edef\l_EQ_equation_fint{\number\c@equation}
11094   \restorecounters@
11095   \Hy@linkcounter=\EQ_hyperref_link_fint
11096   \settowidth\l_EQ_totalwidth_dim{%

```



```

11097   $\EQ_left_side:\EQ_innerbox:{}\EQ_right_side:$}%
11098   \MH_if_boolean:nTF {outer_mult}
11099   { \def\EQ_next:{_mult} }
11100   { \def\EQ_next:{} }
11101   \@nameuse{EQ_modify_linewidth_
11102     \romannumeral\l_EQ_equationtype_int\EQ_next: :}%
11103   \EQ_typeset_display:
11104   \@nameuse{EQ_find_displaywidth_
11105     \romannumeral\l_EQ_equationtype_int\EQ_next: :}%
11106   \MH_addtolength:dn
11107   \l_EQ_totalwidth_dim{\l_EQ_displaywidth_dim}
11108   \savebox\EQ_mathdisplay_box[\l_EQ_totalwidth_dim][c]{%
11109     $\EQ_left_side:
11110     \EQ_innerbox:{%
11111       \MH_if_case:w \l_EQ_alignmentmode_int\MH_or:
11112       \makebox[\l_EQ_displaywidth_dim][c]
11113       {\usebox{\EQ_mathdisplay_box}}}%
11114     \MH_or:
11115     \makebox[\l_EQ_displaywidth_dim][c]
11116     {\usebox{\EQ_mathdisplay_box}}}%
11117     \MH_or:
11118     \if@RTL\makebox[\l_EQ_displaywidth_dim][r]{%
11119       \MH_if_num:w \l_EQ_equationtype_int=5 \MH_else:
11120       \MH_if_num:w \l_EQ_equationtype_int=6 \MH_else:
11121       \kern-\@mathmargin
11122       \MH_fi:
11123       \MH_fi:
11124       \usebox{\EQ_mathdisplay_box}}}%
11125     \else\makebox[\l_EQ_displaywidth_dim][l]{%
11126       \MH_if_num:w \l_EQ_equationtype_int=5 \MH_else:
11127       \MH_if_num:w \l_EQ_equationtype_int=6 \MH_else:
11128       \kern-\@mathmargin
11129       \MH_fi:
11130       \MH_fi:
11131       \usebox{\EQ_mathdisplay_box}}\fi%
11132     \MH_or:
11133     \if@RTL\makebox[\l_EQ_displaywidth_dim][r]{%
11134       \MH_if_num:w \l_EQ_equationtype_int=5 \MH_else:
11135       \MH_if_num:w \l_EQ_equationtype_int=6 \MH_else:
11136       \kern-\@mathmargin
11137       \MH_fi:
11138       \MH_fi:
11139       \usebox{\EQ_mathdisplay_box}}
11140     \else\makebox[\l_EQ_displaywidth_dim][l]{%
11141       \MH_if_num:w \l_EQ_equationtype_int=5 \MH_else:
11142       \MH_if_num:w \l_EQ_equationtype_int=6 \MH_else:
11143       \kern-\@mathmargin
11144       \MH_fi:
11145       \MH_fi:
11146       \usebox{\EQ_mathdisplay_box}}\fi%
11147     \MH_fi:}%
11148   \EQ_right_side:$}%
11149   \begin{AmSequation*}
11150   \@nameuse{EQ_place_display_

```



```

11151         \romannumeral\l_EQ_equationtype_int\EQ_next: :}
11152 \MH_if_dim:w \g_EQ_widesttag_dim>\z@
11153 \MH_set_boolean_T:n {show_manual_tags}
11154     \MH_if_case:w \l_EQ_alignmentmode_int
11155     \MH_or: \if@RTL\EQ_place_tag:N l\else\EQ_place_tag:N r\fi %#1
11156     \MH_or: \if@RTL\EQ_place_tag:N r\else\EQ_place_tag:N l\fi %#2
11157     \MH_or: \if@RTL\EQ_place_tag:N l\else\EQ_place_tag:N r\fi %#3
11158     \MH_or: \if@RTL\EQ_place_tag:N r\else\EQ_place_tag:N l\fi %#4
11159     \MH_fi:
11160 \MH_fi:
11161 \end{AmSequation*}
11162 \global\c@equation=\l_EQ_equation_fint\relax
11163 }
11164 \AtBeginDocument{%
11165     \@ifpackageloaded{fancybox}{%
11166         \@ifpackageloaded{color}{\definecolor{shadowcolor}{rgb}{0,0,0}}%
11167         {\renewcommand*\textcolor[2]{\normalcolor{#2}}}%
11168         \renewcommand*\shadowbox{%
11169             \@ifstar{\MH_set_boolean_T:n {shadowbox_star}
11170                 \VerbBox\EQ_shadowbox:n}
11171             {\MH_set_boolean_F:n {shadowbox_star}
11172                 \VerbBox\EQ_shadowbox:n}}
11173         \def\EQ_shadowbox:n #1{%
11174             \sbox{\z@}{\fbox{#1}}%
11175             \MH_if_boolean:nTF {shadowbox_star}{
11176                 \MH_setlength:dn \@tempdima{\z@}%
11177             }{
11178                 \MH_setlength:dn \@tempdima{\dp\z@+\shadowsize}%
11179             }
11180             \raisebox{\@tempdima}{%
11181                 \if@RTL\makebox[\z@][r]{%
11182                     \kern\shadowsize \textcolor{shadowcolor}{%
11183                         \rule[-\dp\z@-\shadowsize]{\wd\z@}{\shadowsize}}%
11184                 }%
11185                 \else\makebox[\z@][l]{%
11186                     \kern\shadowsize \textcolor{shadowcolor}{%
11187                         \rule[-\dp\z@-\shadowsize]{\wd\z@}{\shadowsize}}%
11188                 }\fi%
11189                 \usebox\z@\textcolor{shadowcolor}{%
11190                     \rule[-\dp\z@-\shadowsize]{\shadowsize}{\ht\z@+\dp\z@}}}%
11191             }{}%
11192         }
11193 \MHInternalSyntaxOff

```

### 83 File extarticle-xetex-bidi.def

```

11194 \ProvidesFile{extarticle-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for extarticle cla
11195 \renewcommand*\l@section[2]{%
11196     \ifnum \c@tocdepth >\z@
11197         \addpenalty\@secpenalty
11198         \addvspace{1.0em \@plus\p@}%
11199         \setlength\@tempdima{1.5em}%
11200         \begingroup
11201         \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth

```



```

11202     \parfillskip -\@pnumwidth
11203     \leavevmode \bfseries
11204     \advance\if@RTL\righskip\else\leftskip\fi\@tempdima
11205     \hskip -\if@RTL\righskip\else\leftskip\fi
11206     #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
11207   \endgroup
11208 \fi}
11209 \renewcommand*\l@part[2]{%
11210 \ifnum \c@tocdepth >-2\relax
11211   \addpenalty\@secpenalty
11212   \addvspace{2.25em \@plus\p@}%
11213   \begingroup
11214     \setlength\@tempdima{3em}%
11215     \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
11216     \parfillskip -\@pnumwidth
11217     {\leavevmode
11218       \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
11219     \nobreak
11220   \endgroup
11221 \fi}
11222 \def\@part[#1]#2{%
11223   \ifnum \c@secnumdepth >\m@ne
11224     \refstepcounter{part}%
11225     \addcontentsline{toc}{part}{\thepart\hspace{1em}#1}%
11226   \else
11227     \addcontentsline{toc}{part}{#1}%
11228   \fi
11229   {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
11230    \interlinepenalty \@M
11231    \normalfont
11232    \ifnum \c@secnumdepth >\m@ne
11233      \Large\bfseries \partname-\thepart
11234      \par\nobreak
11235    \fi
11236    \huge \bfseries #2%
11237    \markboth{}{}\par}%
11238   \nobreak
11239   \vskip 3ex
11240   \@afterheading}
11241 \def\@spart#1{%
11242   {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
11243    \interlinepenalty \@M
11244    \normalfont
11245    \huge \bfseries #1\par}%
11246   \nobreak
11247   \vskip 3ex
11248   \@afterheading}
11249 \renewenvironment{thebibliography}[1]
11250   {\section*{\refname
11251     \@mkboth{\MakeUppercase\refname}{\MakeUppercase\refname}}%
11252     \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
11253     \bidi@thebibliography@font@hook%
11254     \list{\@biblabel{\@arabic\c@enumiv}}%
11255     {\settowidth\labelwidth{\@biblabel{#1}}%

```



```

11256         \leftmargin\labelwidth
11257         \advance\leftmargin\labelsep
11258         \@openbib@code
11259         \usecounter{enumiv}%
11260         \let\p@enumiv\@empty
11261         \renewcommand\theenumiv{\@arabic\c@enumiv}}%
11262     \sloppy\clubpenalty4000\widowpenalty4000%
11263     \sfcode`.\@m}
11264     {\def\@noitemerr
11265       {\@latex@warning{Empty `thebibliography' environment}}}%
11266     \endlist}
11267 \renewcommand\left@footnoterule{%
11268   \kern-3\p@
11269   \hrule\@width.4\columnwidth
11270   \kern2.6\p@}
11271 \renewcommand\right@footnoterule{%
11272   \kern-3\p@
11273   \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
11274   \kern2.6\p@}
11275   \if@titlepage
11276   \renewcommand\maketitle{\begin{titlepage}%
11277     \let\footnotesize\small
11278     \let\right@footnoterule\relax
11279     \let\left@footnoterule\relax
11280     \let\textwidth\footnoterule\relax
11281     \let \footnote \thanks
11282     \null\vfil
11283     \vskip 60\p@
11284     \begin{center}%
11285       {\LARGE \@title \par}%
11286       \vskip 3em%
11287       {\large
11288         \lineskip .75em%
11289         \begin{tabular}[t]{c}%
11290           \@author
11291           \end{tabular}\par}%
11292       \vskip 1.5em%
11293       {\large \@date \par}%           % Set date in \large size.
11294     \end{center}\par
11295     \@thanks
11296     \vfil\null
11297   \end{titlepage}%
11298   \setcounter{footnote}{0}%
11299   \global\let\thanks\relax
11300   \global\let\maketitle\relax
11301   \global\let\@thanks\@empty
11302   \global\let\@author\@empty
11303   \global\let\@date\@empty
11304   \global\let\@title\@empty
11305   \global\let\title\relax
11306   \global\let\author\relax
11307   \global\let\date\relax
11308   \global\let\and\relax
11309 }

```



```

11310 \else
11311 \renewcommand\maketitle{\par
11312   \begin{group}
11313     \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
11314     \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
11315     \long\def\@makefntext##1{\parindent 1em\noindent
11316       \hb@xt@1.8em{%
11317         \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
11318     \if@twocolumn
11319       \ifnum \col@number=\@ne
11320         \@maketitle
11321       \else
11322         \twocolumn[\@maketitle]%
11323       \fi
11324     \else
11325       \newpage
11326       \global\@topnum\z@ % Prevents figures from going at top of page.
11327       \@maketitle
11328     \fi
11329     \thispagestyle{plain}\@thanks
11330   \end{group}
11331   \setcounter{footnote}{0}%
11332   \global\let\thanks\relax
11333   \global\let\maketitle\relax
11334   \global\let\@maketitle\relax
11335   \global\let\@thanks\@empty
11336   \global\let\@author\@empty
11337   \global\let\@date\@empty
11338   \global\let\@title\@empty
11339   \global\let\title\relax
11340   \global\let\author\relax
11341   \global\let\date\relax
11342   \global\let\and\relax
11343 }
11344 \def\@maketitle{%
11345   \newpage
11346   \null
11347   \vskip 2em%
11348   \begin{center}%
11349     \let \footnote \thanks
11350     {\LARGE \@title \par}%
11351     \vskip 1.5em%
11352     {\large
11353       \lineskip .5em%
11354       \begin{tabular}[t]{c}%
11355         \@author
11356       \end{tabular}\par}%
11357     \vskip 1em%
11358     {\large \@date}%
11359   \end{center}%
11360   \par
11361   \vskip 1.5em}
11362 \fi
11363 \renewcommand\thesubsection {\thesection\@SepMark\@arabic\c@subsection}

```



```

11364 \renewcommand\thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
11365 \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
11366 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}%%

```

## 84 File extbook-xetex-bidi.def

```

11367 \ProvidesFile{extbook-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for extbook class for
11368 \if@titlepage
11369 \renewcommand\maketitle{\begin{titlepage}%
11370 \let\footnotesize\small
11371 \let\right@footnoterule\relax
11372 \let\left@footnoterule\relax
11373 \let\textwidth@footnoterule\relax
11374 \let \footnote \thanks
11375 \let \LTRfootnote \LTRthanks
11376 \let \RTLfootnote \RTLthanks
11377 \null\vfil
11378 \vskip 60\p@
11379 \begin{center}%
11380 {\LARGE \@title \par}%
11381 \vskip 3em%
11382 {\large
11383 \lineskip .75em%
11384 \begin{tabular}[t]{c}%
11385 \@author
11386 \end{tabular}\par}%
11387 \vskip 1.5em%
11388 {\large \@date \par}% % Set date in \large size.
11389 \end{center}\par
11390 \@thanks
11391 \vfil\null
11392 \end{titlepage}%
11393 \setcounter{footnote}{0}%
11394 \global\let\thanks\relax
11395 \global\let\LTRthanks\relax
11396 \global\let\RTLthanks\relax
11397 \global\let\maketitle\relax
11398 \global\let\@thanks\@empty
11399 \global\let\@author\@empty
11400 \global\let\@date\@empty
11401 \global\let\@title\@empty
11402 \global\let\title\relax
11403 \global\let\author\relax
11404 \global\let\date\relax
11405 \global\let\and\relax
11406 }
11407 \else
11408 \renewcommand\maketitle{\par
11409 \begin{group
11410 \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
11411 \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
11412 \long\def\@makefntext##1{\parindent 1em\noindent
11413 \hb@xt@1.8em{%
11414 \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%

```



```

11415 \if@twocolumn
11416 \ifnum \col@number=\@ne
11417 \maketitle
11418 \else
11419 \twocolumn[\maketitle]%
11420 \fi
11421 \else
11422 \newpage
11423 \global\@topnum\z@ % Prevents figures from going at top of page.
11424 \maketitle
11425 \fi
11426 \thispagestyle{plain}\@thanks
11427 \endgroup
11428 \setcounter{footnote}{0}%
11429 \global\let\thanks\relax
11430 \global\let\LTRthanks\relax
11431 \global\let\RTLthanks\relax
11432 \global\let\maketitle\relax
11433 \global\let\@maketitle\relax
11434 \global\let\@thanks\@empty
11435 \global\let\@author\@empty
11436 \global\let\@date\@empty
11437 \global\let\@title\@empty
11438 \global\let\title\relax
11439 \global\let\author\relax
11440 \global\let\date\relax
11441 \global\let\and\relax
11442 }
11443 \def\maketitle{%
11444 \newpage
11445 \null
11446 \vskip 2em%
11447 \begin{center}%
11448 \let \footnote \thanks
11449 \let \LTRfootnote \LTRthanks
11450 \let \RTLfootnote \RTLthanks
11451 {\LARGE \@title \par}%
11452 \vskip 1.5em%
11453 {\large
11454 \lineskip .5em%
11455 \begin{tabular}[t]{c}%
11456 \@author
11457 \end{tabular}\par}%
11458 \vskip 1em%
11459 {\large \@date}%
11460 \end{center}%
11461 \par
11462 \vskip 1.5em}
11463 \fi
11464 \renewcommand*\l@part[2]{%
11465 \ifnum \c@tocdepth >-2\relax
11466 \addpenalty{-\@highpenalty}%
11467 \addvspace{2.25em \@plus\p}%
11468 \begingroup

```



```

11469 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
11470 \parfillskip -\@pnumwidth
11471 {\leavevmode
11472 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
11473 \nobreak
11474 \global\@nobreaktrue
11475 \everypar{\global\@nobreakfalse\everypar{}}%
11476 \endgroup
11477 \fi}
11478 \renewcommand\theequation
11479 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
11480 \renewcommand \thefigure
11481 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
11482 \renewcommand \thetable
11483 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
11484 \renewcommand \thechapter {\@arabic\c@chapter}
11485 \renewcommand \thesection {\thechapter\@SepMark\@arabic\c@section}
11486 \renewcommand \thesubsection {\thesection\@SepMark\@arabic\c@subsection}
11487 \renewcommand \thesubsubsection {\thesubsection \@SepMark\@arabic\c@subsubsection}
11488 \renewcommand \theparagraph {\thesubsubsection \@SepMark\@arabic\c@paragraph}
11489 \renewcommand \thesubparagraph {\theparagraph \@SepMark\@arabic\c@subparagraph}
11490 \def\@makechapterhead#1{%
11491 \vspace*{50\p@}%
11492 {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont
11493 \ifnum \c@secnumdepth >\m@ne
11494 \if@mainmatter
11495 \huge\bfseries \@chapapp\space \thechapter
11496 \par\nobreak
11497 \vskip 20\p@
11498 \fi
11499 \fi
11500 \interlinepenalty\@M
11501 \Huge \bfseries #1\par\nobreak
11502 \vskip 40\p@
11503 }}
11504
11505 \def\@makeschapterhead#1{%
11506 \vspace*{50\p@}%
11507 {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
11508 \normalfont
11509 \interlinepenalty\@M
11510 \Huge \bfseries #1\par\nobreak
11511 \vskip 40\p@
11512 }}
11513 \renewcommand\backmatter{%
11514 \if@openright
11515 \cleardoublepage
11516 \else
11517 \clearpage
11518 \fi
11519 \@mainmatterfalse}
11520 \renewenvironment{thebibliography}[1]
11521 {\chapter*{\bibname
11522 \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}}%

```



```

11523 \ifRTL\ifLTRbibitems\@RTLfalse\else\fi\else\ifRTLbibitems\@RTLtrue\else\fi\fi
11524 \bidi@thebibliography@font@hook%
11525 \list{\@biblabel{\@arabic\c@enumiv}}%
11526 {\settowidth\labelwidth{\@biblabel{#1}}%
11527 \leftmargin\labelwidth
11528 \advance\leftmargin\labelsep
11529 \@openbib@code
11530 \usecounter{enumiv}%
11531 \let\p@enumiv\@empty
11532 \renewcommand\theenumiv{\@arabic\c@enumiv}}%
11533 \sloppy
11534 \clubpenalty4000
11535 \@clubpenalty \clubpenalty
11536 \widowpenalty4000%
11537 \sfcode\.\@m}
11538 {\def\@noitemerr
11539 {\@latex@warning{Empty `thebibliography' environment}}}%
11540 \endlist}

```

## 85 File extletter-xetex-bidi.def

```

11541 \ProvidesFile{extletter-xetex-bidi.def}[2015/11/14 v0.2 bidi adaptations for extletter class]
11542 \renewcommand*{\opening}[1]{\ifx\@empty\fromaddress
11543 \thispagestyle{firstpage}%
11544 {\ifRTL\raggedright\else\raggedleft\fi\@date\par}%
11545 \else % home address
11546 \thispagestyle{empty}%
11547 {\ifRTL\raggedright\begin{tabular}{r@{}}\else\raggedleft\begin{tabular}{l@{}}\fi\ignore
11548 \fromaddress \*[2\parskip]%
11549 \@date \end{tabular}\par}%
11550 \fi
11551 \vspace{2\parskip}%
11552 {\ifRTL\raggedleft\else\raggedright\fi \toname \ \ toaddress \par}%
11553 \vspace{2\parskip}%
11554 #1\par\nobreak}
11555 \renewcommand{\closing}[1]{\par\nobreak\vspace{\parskip}%
11556 \stopbreaks
11557 \noindent
11558 \ifx\@empty\fromaddress\else
11559 \hspace*{\longindentation}\fi
11560 \parbox{\indentedwidth}{\ifRTL\raggedleft\else\raggedright\fi
11561 \ignorespaces #1\[[6\medskipamount]}%
11562 \ifx\@empty\fromsig
11563 \fromname
11564 \else \fromsig \fi\strut}%
11565 \par}
11566 \renewcommand\left@footnoterule{%
11567 \kern-\p@
11568 \hrule \@width .4\columnwidth
11569 \kern .6\p@}
11570 \renewcommand\right@footnoterule{%
11571 \kern-\p@
11572 \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
11573 \kern .6\p@}

```



## 86 File extrafootnotefeatures-xetex-bidi.def

```

11574 \ProvidesFile{extrafootnotefeatures-xetex-bidi.def}[2022/07/07 v2.0 bidi extra footnote feat
11575 \newdimen\bidi@columnwidth
11576 \def\bidi@floathook{%
11577   \bidi@columnwidth\columnwidth
11578 }
11579 \newif\if@bidi@void@footins
11580 \newif\if@bidi@void@mpfootins
11581 \newcommand*{\@bidi@before@Hy@hyperfootnotes}{%
11582 \if@bidi@csundef{ifHy@hyperfootnotes}{}%
11583 \if@bidi@csundef{HLTR@LTrfootnotetext}{}%
11584 \ifHy@hyperfootnotes
11585   \let\@H@footnotetext\@footnotetext
11586   \let\@HLTR@LTrfootnotetext\@LTrfootnotetext
11587   \let\@HRTL@RTLfootnotetext\@RTLfootnotetext
11588   \let\@H@mpfootnotetext\@mpfootnotetext
11589   \let\@HLTR@mpLTrfootnotetext\@mpLTrfootnotetext
11590   \let\@HRTL@mpRTLfootnotetext\@mpRTLfootnotetext
11591 \fi
11592 }%
11593 }%
11594 }
11595 \newcommand*{\@bidi@after@Hy@hyperfootnotes}{%
11596 \if@bidi@csundef{ifHy@hyperfootnotes}{}%
11597 \if@bidi@csundef{HLTR@LTrfootnotetext}{}%
11598 \ifHy@hyperfootnotes
11599   \let\H@footnotetext\@footnotetext
11600   \let\@footnotetext\@H@footnotetext
11601   \let\HLTR@LTrfootnotetext\@LTrfootnotetext
11602   \let\@LTrfootnotetext\@HLTR@LTrfootnotetext
11603   \let\HRTL@RTLfootnotetext\@RTLfootnotetext
11604   \let\@RTLfootnotetext\@HRTL@RTLfootnotetext
11605   \let\H@mpfootnotetext\@mpfootnotetext
11606   \let\@mpfootnotetext\@H@mpfootnotetext
11607   \let\HLTR@mpLTrfootnotetext\@mpLTrfootnotetext
11608   \let\@mpLTrfootnotetext\@HLTR@mpLTrfootnotetext
11609   \let\HRTL@mpRTLfootnotetext\@mpRTLfootnotetext
11610   \let\@mpRTLfootnotetext\@HRTL@mpRTLfootnotetext
11611 \fi
11612 }%
11613 }%
11614 }
11615 \let\autofootnoterule\relax
11616 \let\rightfootnoterule\relax
11617 \let\leftfootnoterule\relax
11618 \let\textwidthfootnoterule\relax
11619 \let\LRfootnoterule\relax
11620 \def\footnoterule{\kern-3\p@
11621   \hrule \@width \columnwidth \kern 2.6\p@}
11622 \newcommand{\@preamnormalfmt}{%
11623   \parindent 1em%
11624   \noindent
11625 }

```



```

11626 \newcommand{\@normalfootfmt}[1]{%
11627   \@preamnormalfmt
11628   \footfootmark
11629   \rule\z@\footnotesep\ignorespaces{\foottextfont #1}%
11630   \@finalstrut\strutbox
11631 }
11632 \newcommand{\@normalRTLfootfmt}[1]{%
11633   \@preamnormalfmt
11634   \RTLfootfootmark
11635   \rule\z@\footnotesep\ignorespaces{\RTLfoottextfont #1}%
11636   \@finalstrut\strutbox
11637 }
11638 \newcommand{\@normalLTRfootfmt}[1]{%
11639   \@preamnormalfmt
11640   \LTRfootfootmark
11641   \rule\z@\footnotesep\ignorespaces{\LTRfoottextfont #1}%
11642   \@finalstrut\strutbox
11643 }
11644 \renewcommand{\@footnotetext}[1]{%
11645   \insert\footins{%
11646     \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
11647     \def\baselinestretch{\m@m@footnote@spacing}%
11648     \reset@font
11649     \foottextfont
11650     \@preamfntext
11651     \hsize\columnwidth
11652     \protected@edef\@currentlabel{%
11653       \csname p@footnote\endcsname\@thefnmark}%
11654     \color@begingroup
11655     \@normalfootfmt{#1}%
11656     \color@endgroup}%
11657     \m@mmf@prepare}
11658 \renewcommand{\@RTLfootnotetext}[1]{%
11659   \insert\footins{%
11660     \@RTLtrue%
11661     \def\baselinestretch{\m@m@footnote@spacing}%
11662     \reset@font
11663     \RTLfoottextfont
11664     \@preamfntext
11665     \hsize\columnwidth
11666     \protected@edef\@currentlabel{%
11667       \csname p@footnote\endcsname\@thefnmark}%
11668     \color@begingroup
11669     \@normalRTLfootfmt{#1}%
11670     \color@endgroup}%
11671     \m@mmf@prepare}
11672 \renewcommand{\@LTRfootnotetext}[1]{%
11673   \insert\footins{%
11674     \@RTLfalse%
11675     \def\baselinestretch{\m@m@footnote@spacing}%
11676     \reset@font
11677     \LTRfoottextfont
11678     \@preamfntext
11679     \hsize\columnwidth

```



```

11680 \protected@edef\@currentlabel{%
11681 \csname p@footnote\endcsname\@thefnmark}%
11682 \color@begingroup
11683 \normalLTRfootfmt{#1}%
11684 \color@endgroup}%
11685 \m@m@prepare}
11686 \renewcommand{\@mpfootnotetext}[1]{%
11687 \global\setbox\@mpfootins\vbox{\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
11688 \unvbox\@mpfootins
11689 \def\baselinestretch{\m@m@footnote@spacing}%
11690 \reset@font%
11691 \foottextfont \hsize\columnwidth \@parboxrestore
11692 \protected@edef\@currentlabel{%
11693 \csname p@mpfootnote\endcsname\@thefnmark}%
11694 \color@begingroup
11695 \normalfootfmt{#1}%
11696 \color@endgroup}}
11697 \renewcommand{\@mpLTRfootnotetext}[1]{%
11698 \global\setbox\@mpfootins\vbox{\@RTLfalse%
11699 \unvbox\@mpfootins
11700 \def\baselinestretch{\m@m@footnote@spacing}%
11701 \reset@font%
11702 \LTRfoottextfont \hsize\columnwidth \@parboxrestore
11703 \protected@edef\@currentlabel{%
11704 \csname p@mpfootnote\endcsname\@thefnmark}%
11705 \color@begingroup
11706 \normalLTRfootfmt{#1}%
11707 \color@endgroup}}
11708 \renewcommand{\@mpRTLfootnotetext}[1]{%
11709 \global\setbox\@mpfootins\vbox{\@RTLtrue%
11710 \unvbox\@mpfootins
11711 \def\baselinestretch{\m@m@footnote@spacing}%
11712 \reset@font%
11713 \RTLfoottextfont \hsize\columnwidth \@parboxrestore
11714 \protected@edef\@currentlabel{%
11715 \csname p@mpfootnote\endcsname\@thefnmark}%
11716 \color@begingroup
11717 \normalRTLfootfmt{#1}%
11718 \color@endgroup}}
11719 \let\m@mold@footnotetext\@footnotetext
11720 \let\m@mold@LTRfootnotetext\@LTRfootnotetext
11721 \let\m@mold@RTLfootnotetext\@RTLfootnotetext
11722 \let\m@mold@mpfootnotetext\@mpfootnotetext
11723 \let\m@mold@mpLTRfootnotetext\@mpLTRfootnotetext
11724 \let\m@mold@mpRTLfootnotetext\@mpRTLfootnotetext
11725 \bidi@ensure@newcommand{\normalfootnotes}{%
11726 \bidi@before@Hy@hyperfootnotes
11727 \let\@footnotetext\m@mold@footnotetext
11728 \let\@LTRfootnotetext\m@mold@LTRfootnotetext
11729 \let\@RTLfootnotetext\m@mold@RTLfootnotetext
11730 \let\@mpfootnotetext\m@mold@mpfootnotetext
11731 \let\@mpLTRfootnotetext\m@mold@mpLTRfootnotetext
11732 \let\@mpRTLfootnotetext\m@mold@mpRTLfootnotetext
11733 \bidi@after@Hy@hyperfootnotes

```



```

11734 \@ifstar\@bidi@star@footmarkwidth\@bidi@normal@footmarkwidth
11735 }
11736 \@ifclassloaded{memoir}{\let\plainfootnotes\normalfootnotes}{}
11737 \bidi@ensure@newcommand*\setSingleSpace{1}{%
11738   \def\m@m@singlespace{#1}%
11739   \def\m@m@footnote@spacing{#1}%
11740   \def\m@m@float@spacing{#1} %
11741 }
11742 \setSingleSpace{1}
11743 \bidi@ensure@newcommand*\multiplefootnotemarker{3sp}
11744 \bidi@ensure@newcommand*\m@mmf@prepare{}%
11745 \kern-\multiplefootnotemarker
11746 \kern\multiplefootnotemarker\relax}
11747 \bidi@ensure@newlength{\footmarkwidth}
11748 \bidi@ensure@newcommand*\footmarkstyle[1]{\def\footscript##1{#1}}
11749 \bidi@ensure@newcommand*\LTRfootmarkstyle[1]{\def\LTRfootscript##1{#1}}
11750 \bidi@ensure@newcommand*\RTLfootmarkstyle[1]{\def\RTLfootscript##1{#1}}
11751 \bidi@ensure@newcommand{\footfootmark}{%
11752   \ifdim\footmarkwidth < \z@
11753     \llap{\hb@xt@ -\footmarkwidth{%
11754       \hss\normalfont\footscript{\@thefnmark}}}%
11755     \hspace*{-\footmarkwidth}}%
11756   \else
11757     \ifdim\footmarkwidth = \z@
11758       {\normalfont\footscript{\@thefnmark}}%
11759     \else
11760       \hb@xt@\footmarkwidth{\hss\normalfont\footscript{\@thefnmark}}%
11761     \fi
11762   \fi}
11763 \bidi@ensure@newcommand{\LTRfootfootmark}{%
11764   \ifdim\footmarkwidth < \z@
11765     \llap{\hb@xt@ -\footmarkwidth{%
11766       \hss\normalfont\LTRfootscript{\@thefnmark}}}%
11767     \hspace*{-\footmarkwidth}}%
11768   \else
11769     \ifdim\footmarkwidth = \z@
11770       {\normalfont\LTRfootscript{\@thefnmark}}%
11771     \else
11772       \hb@xt@\footmarkwidth{\hss\normalfont\LTRfootscript{\@thefnmark}}%
11773     \fi
11774   \fi}
11775 \bidi@ensure@newcommand{\RTLfootfootmark}{%
11776   \ifdim\footmarkwidth < \z@
11777     \llap{\hb@xt@ -\footmarkwidth{%
11778       \hss\normalfont\RTLfootscript{\@thefnmark}}}%
11779     \hspace*{-\footmarkwidth}}%
11780   \else
11781     \ifdim\footmarkwidth = \z@
11782       {\normalfont\RTLfootscript{\@thefnmark}}%
11783     \else
11784       \hb@xt@\footmarkwidth{\hss\normalfont\RTLfootscript{\@thefnmark}}%
11785     \fi
11786   \fi}
11787 \footmarkstyle{\textsuperscript{#1}}

```



```

11788 \LTRfootmarkstyle{\textsuperscript{#1}}
11789 \RTLfootmarkstyle{\textsuperscript{#1}}
11790 \newcommand*{\bidi@normal@footmarkwidth}{%
11791   \setlength{\footmarkwidth}{1em plus.3em minus.3em}%
11792 }
11793 \newcommand*{\bidi@star@footmarkwidth}{%
11794   \setlength{\footmarkwidth}{0em plus.3em minus.3em}%
11795 }
11796 \bidi@normal@footmarkwidth
11797 \bidi@ensure@newcommand{\m@mdoextrafeet}{\extrafeetins}
11798 \bidi@ensure@newcommand*{\extrafeetins}{%
11799   \setbox\@outputbox \vbox{%
11800     \boxmaxdepth \@maxdepth
11801     \unvbox\@outputbox
11802     \ifvoid\footinsv@r
11803       \ifvoid\footinsv@l
11804       \else
11805         \@footstartv@l
11806         \@LTRfootgroupv@l
11807       \fi
11808     \else
11809       \@footstartv@r
11810       \@footgroupv@r
11811       \ifvoid\footinsv@l
11812       \else
11813         \@@footstart@v@l
11814         \@LTRfootgroupv@l
11815       \fi
11816     \fi
11817     \ifvoid\@bidi@copyins@
11818     \else
11819       \vskip \skip\@bidi@copyins@
11820       \color@begingroup
11821       \normalcolor
11822       \unvbox \@bidi@copyins@
11823       \color@endgroup
11824     \fi
11825     \extrafeetinshook}}
11826 \bidi@ensure@newcommand{\extrafeetinshook}{%
11827 \bidi@ensure@newcommand{\foottextfont}{\footnotesize}
11828 \bidi@ensure@newcommand{\LTRfoottextfont}{\footnotesize}
11829 \bidi@ensure@newcommand{\RTLfoottextfont}{\footnotesize}
11830 \bidi@ensure@newlength{\footinsdim}
11831 \setlength{\footinsdim}{8in} % standard for \dimen\footins
11832 \bidi@ensure@newcommand{\@preamfntext}{%
11833 \interlinepenalty\interfootnotelinepenalty
11834 \floatingpenalty \@MM
11835 \splittopskip=\footnotesep
11836 \splitmaxdepth=\dp\strutbox
11837 \@parboxrestore}
11838 \bidi@ensure@newcommand{\m@mdoextrafeetmini}{%
11839   \extrafeetminihook}
11840 \bidi@ensure@newcommand{\extrafeetendmini}{%
11841   \ifvoid\@mpfootinsv@r

```



```

11842 \ifvoid\@mpfootinsv@l
11843 \else
11844 \vskip\skip\@mpfootins
11845 \normalcolor
11846 \if@bidi@void@@mpfootins
11847 \footnoterule
11848 \fi
11849 \mp@LTRfootgroupv@l
11850 \fi
11851 \else
11852 \vskip\skip\@mpfootins
11853 \normalcolor
11854 \if@bidi@void@@mpfootins
11855 \footnoterule
11856 \fi
11857 \mp@footgroupv@r
11858 \ifvoid\@mpfootinsv@l
11859 \else
11860 \vskip\skip\@mpfootins
11861 \normalcolor\mp@LTRfootgroupv@l
11862 \fi
11863 \fi
11864 \extrafeetendminihook}
11865 \bidi@ensure@newcommand{\extrafeetendminihook}{}
11866 \bidi@ensure@newcommand{\m@mdoextrafeetendmini}{\extrafeetendmini}
11867 \def\endminipage{%
11868 \par
11869 \unskip
11870 \ifvoid\@mpfootins
11871 \global\@bidi@void@@mpfootinstrue
11872 \else
11873 \global\@bidi@void@@mpfootinsfalse
11874 \vskip\skip\@mpfootins
11875 \normalcolor
11876 \footnoterule
11877 \unvbox\@mpfootins
11878 \fi
11879 \m@mdoextrafeetendmini
11880 \@minipagefalse
11881 \color@endgroup
11882 \egroup
11883 \expandafter\@iiiparbox\@mpargs{\unvbox\@tempboxa}}
11884 \bidi@ensure@newcommand{\m@make@footstart}[1]{%
11885 \@namedef{@footstart#1}{%
11886 \if@bidi@void@footins
11887 \bidi@mopfn@bottom
11888 \fi
11889 \leftskip=\z@
11890 \rightskip=\z@
11891 \parindent=\z@
11892 \vskip\skip\footins
11893 \if@bidi@void@footins
11894 \footnoterule
11895 \fi}}

```



```

11896 \newcommand{\bidi@make@footstart@@}[1]{%
11897   \@namedef{@@footstart@@#1}{%
11898     \leftskip=\z@
11899     \rightskip=\z@
11900     \parindent=\z@
11901     \vskip\skip\footins}}
11902 \newinsert\footinsv@r
11903 \skip\footinsv@r\bigskipamount
11904 \count\footinsv@r=1000 % no magnification
11905 \dimen\footinsv@r=\footinsdim
11906 \m@make@footstart{v@r}
11907 \newinsert\footinsv@l
11908 \skip\footinsv@l\bigskipamount
11909 \count\footinsv@l=1000 % no magnification
11910 \dimen\footinsv@l=\footinsdim
11911 \m@make@footstart{v@l}
11912 \bidi@make@footstart@@{v@l}
11913 \bidi@ensure@newcommand{\@footgroupv@r}{}
11914 \newinsert\@mpfootinsv@r
11915 \newinsert\@mpfootinsv@l
11916 \bidi@ensure@newcommand{\mp@footgroupv@r}{}
11917 \newcount\m@m@k \newdimen\m@m@h
11918 \bidi@ensure@newcommand*{\m@mrigidbalance}[3]{\setbox0=\box#1 \m@m@k=#2 \m@m@h=#3
11919   \hsize\bidi@columnwidth
11920   \@@line{\beginR\splittopskip=\m@m@h \vbadness=\@M \hfilneg
11921     \valign{##\vfill\cr\m@m@dosplits}\endR}}
11922 \newcommand*{\bidi@LTRrigidbalance}[3]{\setbox0=\box#1 \m@m@k=#2 \m@m@h=#3
11923   \hsize\bidi@columnwidth
11924   \@@line{\splittopskip=\m@m@h \vbadness=\@M \hfilneg
11925     \valign{##\vfill\cr\m@m@dosplits}}}
11926 \bidi@ensure@newcommand*{\m@m@dosplits}{\ifnum\m@m@k>0 \noalign{\hfil}\m@m@splitoff
11927   \global\advance\m@m@k-1\cr\m@m@dosplits\fi}
11928 \bidi@ensure@newcommand*{\m@m@splitoff}{\dimen0=\ht0
11929   \divide\dimen0 by\m@m@k \advance\dimen0 by\m@m@h
11930   \setbox2 \vsplit0 to \dimen0
11931   \unvbox2 }
11932 \bidi@ensure@newcommand{\twocolumnfootnotes}{%
11933   \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
11934   \@namedef{foottextfontv@l}{\LTRfoottextfont}%
11935   \@bidi@before@Hy@hyperfootnotes
11936   \let\@footnotetext\@twocolfootnotetext
11937   \let\@LTRfootnotetext\@twocolLTRfootnotetext
11938   \let\@RTLfootnotetext\@twocolRTLfootnotetext
11939   \dimen\footinsv@r=2\footinsdim
11940   \count\footinsv@r=500\relax
11941   \m@make@twocol@footgroup{v@r}%
11942   \let\@footgroupv@r\@twocol@footgroupv@r
11943   \dimen\footinsv@l=2\footinsdim
11944   \count\footinsv@l=500\relax
11945   \bidi@make@twocol@LTRfootgroup{v@l}%
11946   \let\@LTRfootgroupv@l\@twocol@LTRfootgroupv@l
11947   \let\@mpfootnotetext\@mptwocolfootnotetext
11948   \let\@mpLTRfootnotetext\@mptwocolLTRfootnotetext
11949   \let\@mpRTLfootnotetext\@mptwocolRTLfootnotetext

```



```

11950 \@bidi@after@Hy@hyperfootnotes
11951 \m@make@emptwocol@footgroup{v@r}%
11952 \let\mp@footgroupv@r\@emptwocol@footgroupv@r
11953 \bidi@make@emptwocol@LTRfootgroup{v@l}%
11954 \let\mp@LTRfootgroupv@l\@emptwocol@LTRfootgroupv@l
11955 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
11956 }
11957 \bidi@ensure@newcommand{\@twocolfootnotetext}[1]{\insert
11958   \if@RTL@footnote
11959     \footinsv@r
11960   \else
11961     \footinsv@l
11962   \fi
11963 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
11964 \def\baselinestretch{\m@m@footnote@spacing}%
11965 \reset@font\foottextfont
11966 \@preamfntext
11967 \protected@edef\@currentlabel{%
11968   \csname p@footnote\endcsname\@thefnmark}%
11969 \color@begingroup
11970   \@twocolfootfmt{#1}%
11971 \color@endgroup}%
11972 \m@mmf@prepare}
11973 \bidi@ensure@newcommand{\@twocolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
11974 \def\baselinestretch{\m@m@footnote@spacing}%
11975 \reset@font\LTRfoottextfont
11976 \@preamfntext
11977 \protected@edef\@currentlabel{%
11978   \csname p@footnote\endcsname\@thefnmark}%
11979 \color@begingroup
11980   \@twocolLTRfootfmt{#1}%
11981 \color@endgroup}%
11982 \m@mmf@prepare}
11983 \bidi@ensure@newcommand{\@twocolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
11984 \def\baselinestretch{\m@m@footnote@spacing}%
11985 \reset@font\RTLfoottextfont
11986 \@preamfntext
11987 \protected@edef\@currentlabel{%
11988   \csname p@footnote\endcsname\@thefnmark}%
11989 \color@begingroup
11990   \@twocolRTLfootfmt{#1}%
11991 \color@endgroup}%
11992 \m@mmf@prepare}
11993 \bidi@ensure@newcommand{\@preamtwofmt}{%
11994 \hspace{.45\hspace}
11995 \parindent=\z@
11996 \tolerance=5000\relax
11997 \leavevmode}
11998 \bidi@ensure@newcommand{\@twocolfootfmt}[1]{%
11999   \@preamtwofmt
12000   {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
12001 \bidi@ensure@newcommand{\@twocolLTRfootfmt}[1]{%
12002   \@preamtwofmt
12003   {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}

```



```

12004 \bidi@ensure@newcommand{\@twocolRTLfootfmt}[1]{%
12005   \@preamtwofmt
12006   {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
12007 \bidi@ensure@newcommand{\@emptwocolfootnotetext}[1]{%
12008   \global\setbox
12009     \if@RTL@footnote
12010     \@mpfootinsv@r
12011   \else
12012     \@mpfootinsv@l
12013   \fi
12014   \vbox{\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
12015     \unvbox
12016     \if@RTL@footnote
12017     \@mpfootinsv@r
12018   \else
12019     \@mpfootinsv@l
12020   \fi
12021   \def\baselinestretch{\m@m@footnote@spacing}%
12022   \reset@font\foottextfont
12023   \hsize\columnwidth \@parboxrestore
12024   \protected@edef\@currentlabel{%
12025     \csname p@mpfootnote\endcsname\@thefnmark}%
12026   \color@begingroup
12027     \@twocolfootfmt{#1}%
12028   \color@endgroup}%
12029   \m@mmf@prepare}
12030 \bidi@ensure@newcommand{\@emptwocolLTRfootnotetext}[1]{%
12031   \global\setbox\@mpfootinsv@l\vbox{\@RTLfalse%
12032     \unvbox\@mpfootinsv@l
12033     \def\baselinestretch{\m@m@footnote@spacing}%
12034     \reset@font\LTRfoottextfont
12035     \hsize\columnwidth \@parboxrestore
12036     \protected@edef\@currentlabel{%
12037       \csname p@mpfootnote\endcsname\@thefnmark}%
12038     \color@begingroup
12039       \@twocolLTRfootfmt{#1}%
12040     \color@endgroup}%
12041   \m@mmf@prepare}
12042 \bidi@ensure@newcommand{\@emptwocolRTLfootnotetext}[1]{%
12043   \global\setbox\@mpfootinsv@r\vbox{\@RTLtrue%
12044     \unvbox\@mpfootinsv@r
12045     \def\baselinestretch{\m@m@footnote@spacing}%
12046     \reset@font\RTLfoottextfont
12047     \hsize\columnwidth \@parboxrestore
12048     \protected@edef\@currentlabel{%
12049       \csname p@mpfootnote\endcsname\@thefnmark}%
12050     \color@begingroup
12051       \@twocolRTLfootfmt{#1}%
12052     \color@endgroup}%
12053   \m@mmf@prepare}
12054 \bidi@ensure@newcommand{\m@make@twocol@footgroup}[1]{%
12055   \@namedef{\twocol@footgroup#1}{%
12056     \def\baselinestretch{\m@m@footnote@spacing}%
12057     \nameuse{foottextfont#1} \splittopskip=\ht\strutbox

```



```

12058 \m@mrigidbalance{\@nameuse{footins#1}}{\tw@}{\splittopskip}}}}
12059 \newcommand{\bidi@make@twocol@LTRfootgroup}[1]{%
12060 \@namedef{@twocol@LTRfootgroup#1}{%
12061 \def\baselinestretch{\m@m@footnote@spacing}%
12062 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12063 \bidi@LTRrigidbalance{\@nameuse{footins#1}}{\tw@}{\splittopskip}}}}
12064 \bidi@ensure@newcommand{\m@make@mptwocol@footgroup}[1]{%
12065 \@namedef{@mptwocol@footgroup#1}{%
12066 \def\baselinestretch{\m@m@footnote@spacing}%
12067 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12068 \m@mrigidbalance{\@nameuse{mpfootins#1}}{\tw@}{\splittopskip}}}}
12069 \newcommand{\bidi@make@mptwocol@LTRfootgroup}[1]{%
12070 \@namedef{@mptwocol@LTRfootgroup#1}{%
12071 \def\baselinestretch{\m@m@footnote@spacing}%
12072 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12073 \bidi@LTRrigidbalance{\@nameuse{mpfootins#1}}{\tw@}{\splittopskip}}}}
12074 \bidi@ensure@newcommand{\threecolumnfootnotes}{%
12075 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
12076 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
12077 \@bidi@before@Hy@hyperfootnotes
12078 \let\@footnotetext\@threecolfootnotetext
12079 \let\@LTRfootnotetext\@threecolLTRfootnotetext
12080 \let\@RTLfootnotetext\@threecolRTLfootnotetext
12081 \dimen\footinsv@r=3\footinsdim
12082 \count\footinsv@r=333\relax
12083 \m@make@threecol@footgroup{v@r}%
12084 \let\@footgroupv@r\@threecol@footgroupv@r
12085 \dimen\footinsv@l=3\footinsdim
12086 \count\footinsv@l=333\relax
12087 \bidi@make@threecol@LTRfootgroup{v@l}%
12088 \let\@LTRfootgroupv@l\@threecol@LTRfootgroupv@l
12089 \let\@mpfootnotetext\@mpthreecolfootnotetext
12090 \let\@mpLTRfootnotetext\@mpthreecolLTRfootnotetext
12091 \let\@mpRTLfootnotetext\@mpthreecolRTLfootnotetext
12092 \@bidi@after@Hy@hyperfootnotes
12093 \m@make@mpthreecol@footgroup{v@r}%
12094 \let\mp@footgroupv@r\@mpthreecol@footgroupv@r
12095 \bidi@make@mpthreecol@LTRfootgroup{v@l}%
12096 \let\mp@LTRfootgroupv@l\@mpthreecol@LTRfootgroupv@l
12097 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
12098 }
12099 \bidi@ensure@newcommand{\@threecolfootnotetext}[1]{\insert
12100 \if@RTL@footnote
12101 \footinsv@r
12102 \else
12103 \footinsv@l
12104 \fi
12105 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
12106 \def\baselinestretch{\m@m@footnote@spacing}%
12107 \reset@font\foottextfont
12108 \@preamfntext
12109 \protected@edef\@currentlabel{%
12110 \csname p@footnote\endcsname\@thefnmark}%
12111 \color@begingroup

```



```

12112 \threecolfootfmt{#1}%
12113 \color@endgroup}\m@mmf@prepare}
12114 \bidi@ensure@newcommand{\threecolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
12115 \def\baselinestretch{\m@m@footnote@spacing}%
12116 \reset@font\LTRfoottextfont
12117 \@preamfntext
12118 \protected@edef\@currentlabel{%
12119 \csname p@footnote\endcsname\@thefnmark}%
12120 \color@begingroup
12121 \threecolLTRfootfmt{#1}%
12122 \color@endgroup}\m@mmf@prepare}
12123 \bidi@ensure@newcommand{\threecolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
12124 \def\baselinestretch{\m@m@footnote@spacing}%
12125 \reset@font\RTLfoottextfont
12126 \@preamfntext
12127 \protected@edef\@currentlabel{%
12128 \csname p@footnote\endcsname\@thefnmark}%
12129 \color@begingroup
12130 \threecolRTLfootfmt{#1}%
12131 \color@endgroup}\m@mmf@prepare}
12132 \bidi@ensure@newcommand{\@preamthreefmt}{%
12133 \hspace{.3\hspace}
12134 \parindent=\z@
12135 \tolerance=5000\relax
12136 \leavevmode}
12137 \bidi@ensure@newcommand{\threecolfootfmt}[1]{%
12138 \@preamthreefmt
12139 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
12140 \bidi@ensure@newcommand{\threecolLTRfootfmt}[1]{%
12141 \@preamthreefmt
12142 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
12143 \bidi@ensure@newcommand{\threecolRTLfootfmt}[1]{%
12144 \@preamthreefmt
12145 {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
12146 \bidi@ensure@newcommand{\@mpthreecolfootnotetext}[1]{%
12147 \global\setbox
12148 \if@RTL@footnote
12149 \@mpfootinsv@r
12150 \else
12151 \@mpfootinsv@l
12152 \fi
12153 \vbox{\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
12154 \unvbox
12155 \if@RTL@footnote
12156 \@mpfootinsv@r
12157 \else
12158 \@mpfootinsv@l
12159 \fi
12160 \def\baselinestretch{\m@m@footnote@spacing}%
12161 \reset@font\foottextfont
12162 \hspace\columnwidth \@parboxrestore
12163 \protected@edef\@currentlabel{%
12164 \csname p@mpfootnote\endcsname\@thefnmark}%
12165 \color@begingroup

```



```

12166 \threecolfootfmt{#1}%
12167 \color@endgroup}\m@mmf@prepare}
12168 \bidi@ensure@newcommand{\@mpthreecolLTRfootnotetext}[1]{%
12169 \global\setbox\@mpfootinsv@l\vbox{\@RTLfalse%
12170 \unvbox\@mpfootinsv@l
12171 \def\baselinestretch{\m@m@footnote@spacing}%
12172 \reset@font\LTRfoottextfont
12173 \hsize\columnwidth \@parboxrestore
12174 \protected@edef\@currentlabel{%
12175 \csname p@mpfootnote\endcsname\@thefnmark}%
12176 \color@beginningroup
12177 \threecolLTRfootfmt{#1}%
12178 \color@endgroup}\m@mmf@prepare}
12179 \bidi@ensure@newcommand{\@mpthreecolRTLfootnotetext}[1]{%
12180 \global\setbox\@mpfootinsv@r\vbox{\@RTLtrue%
12181 \unvbox\@mpfootinsv@r
12182 \def\baselinestretch{\m@m@footnote@spacing}%
12183 \reset@font\RTLfoottextfont
12184 \hsize\columnwidth \@parboxrestore
12185 \protected@edef\@currentlabel{%
12186 \csname p@mpfootnote\endcsname\@thefnmark}%
12187 \color@beginningroup
12188 \threecolRTLfootfmt{#1}%
12189 \color@endgroup}\m@mmf@prepare}
12190 \bidi@ensure@newcommand{\m@make@threecol@footgroup}[1]{%
12191 \@namedef{\threecol@footgroup#1}{%
12192 \def\baselinestretch{\m@m@footnote@spacing}%
12193 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12194 \m@m@rigidbalance{\@nameuse{footins#1}}{\thr@@}{\splittopskip}}}%
12195 \newcommand{\bidi@make@threecol@LTRfootgroup}[1]{%
12196 \@namedef{\threecol@LTRfootgroup#1}{%
12197 \def\baselinestretch{\m@m@footnote@spacing}%
12198 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12199 \bidi@LTRrigidbalance{\@nameuse{footins#1}}{\thr@@}{\splittopskip}}}%
12200 \bidi@ensure@newcommand{\m@make@mpthreecol@footgroup}[1]{%
12201 \@namedef{\mpthreecol@footgroup#1}{%
12202 \def\baselinestretch{\m@m@footnote@spacing}%
12203 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12204 \m@m@rigidbalance{\@nameuse{\mpfootins#1}}{\thr@@}{\splittopskip}}}%
12205 \newcommand{\bidi@make@mpthreecol@LTRfootgroup}[1]{%
12206 \@namedef{\mpthreecol@LTRfootgroup#1}{%
12207 \def\baselinestretch{\m@m@footnote@spacing}%
12208 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12209 \bidi@LTRrigidbalance{\@nameuse{\mpfootins#1}}{\thr@@}{\splittopskip}}}%
12210 \bidi@ensure@newcommand{\fourcolumnfootnotes}{%
12211 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
12212 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
12213 \@bidi@before@Hy@hyperfootnotes
12214 \let\@footnotetext\@fourcolfootnotetext
12215 \let\@LTRfootnotetext\@fourcolLTRfootnotetext
12216 \let\@RTLfootnotetext\@fourcolRTLfootnotetext
12217 \dimen\footinsv@r=4\footinsdim
12218 \count\footinsv@r=250\relax
12219 \m@make@fourcol@footgroup{v@r}%

```



```

12220 \let\@footgroupv@r\@fourcol@footgroupv@r
12221 \dimen\footinsv@l=4\footinsdim
12222 \count\footinsv@l=250\relax
12223 \bidi@make@fourcol@LTRfootgroup{v@l}%
12224 \let\@LTRfootgroupv@l\@fourcol@LTRfootgroupv@l
12225 \let\@mpfootnotetext\@mpfourcolfootnotetext
12226 \let\@mpLTRfootnotetext\@mpfourcolLTRfootnotetext
12227 \let\@mpRTLfootnotetext\@mpfourcolRTLfootnotetext
12228 \@bidi@after@Hy@hyperfootnotes
12229 \m@make@mpfourcol@footgroup{v@r}%
12230 \let\mp@footgroupv@r\@mpfourcol@footgroupv@r
12231 \bidi@make@mpfourcol@LTRfootgroup{v@l}%
12232 \let\mp@LTRfootgroupv@l\@mpfourcol@LTRfootgroupv@l
12233 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
12234 }
12235 \bidi@ensure@newcommand{\@fourcolfootnotetext}[1]{\insert
12236 \if@RTL@footnote
12237 \footinsv@r
12238 \else
12239 \footinsv@l
12240 \fi
12241 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
12242 \def\baselinestretch{\m@footnote@spacing}%
12243 \reset@font\foottextfont
12244 \@preamfntext
12245 \protected@edef\@currentlabel{%
12246 \csname p@footnote\endcsname\@thefnmark}%
12247 \color@begingroup
12248 \@fourcolfootfmt{#1}%
12249 \color@endgroup}%
12250 \m@mmf@prepare}
12251 \bidi@ensure@newcommand{\@fourcolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
12252 \def\baselinestretch{\m@footnote@spacing}%
12253 \reset@font\LTRfoottextfont
12254 \@preamfntext
12255 \protected@edef\@currentlabel{%
12256 \csname p@footnote\endcsname\@thefnmark}%
12257 \color@begingroup
12258 \@fourcolLTRfootfmt{#1}%
12259 \color@endgroup}%
12260 \m@mmf@prepare}
12261 \bidi@ensure@newcommand{\@fourcolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
12262 \def\baselinestretch{\m@footnote@spacing}%
12263 \reset@font\RTLfoottextfont
12264 \@preamfntext
12265 \protected@edef\@currentlabel{%
12266 \csname p@footnote\endcsname\@thefnmark}%
12267 \color@begingroup
12268 \@fourcolRTLfootfmt{#1}%
12269 \color@endgroup}%
12270 \m@mmf@prepare}
12271 \bidi@ensure@newcommand{\@preamfourfmt}{%
12272 \hsize .25\hsize
12273 \parindent=\z@

```



```

12274 \tolerance=5000\relax
12275 \leavevmode}
12276 \bidi@ensure@newcommand{\@fourcolfootfmt}[1]{%
12277   \@preamfourfmt
12278   {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
12279 \bidi@ensure@newcommand{\@fourcolLTRfootfmt}[1]{%
12280   \@preamfourfmt
12281   {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
12282 \bidi@ensure@newcommand{\@fourcolRTLfootfmt}[1]{%
12283   \@preamfourfmt
12284   {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
12285 \bidi@ensure@newcommand{\@mpfourcolfootnotetext}[1]{%
12286   \global\setbox
12287     \if@RTL@footnote
12288       \@mpfootinsv@r
12289   \else
12290     \@mpfootinsv@l
12291   \fi
12292   \vbox{\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
12293     \unvbox
12294     \if@RTL@footnote
12295       \@mpfootinsv@r
12296   \else
12297     \@mpfootinsv@l
12298   \fi
12299   \def\baselinestretch{\m@m@footnote@spacing}%
12300   \reset@font\foottextfont
12301   \hsize\columnwidth \@parboxrestore
12302   \protected@edef\@currentlabel{%
12303     \csname p@mpfootnote\endcsname\@thefnmark}%
12304   \color@begingroup
12305     \@fourcolfootfmt{#1}%
12306   \color@endgroup}%
12307   \m@m@mmf@prepare}
12308 \bidi@ensure@newcommand{\@mpfourcolLTRfootnotetext}[1]{%
12309   \global\setbox\@mpfootinsv@l\vbox{\@RTLfalse%
12310     \unvbox\@mpfootinsv@l
12311     \def\baselinestretch{\m@m@footnote@spacing}%
12312     \reset@font\LTRfoottextfont
12313     \hsize\columnwidth \@parboxrestore
12314     \protected@edef\@currentlabel{%
12315       \csname p@mpfootnote\endcsname\@thefnmark}%
12316     \color@begingroup
12317       \@fourcolLTRfootfmt{#1}%
12318     \color@endgroup}%
12319   \m@m@mmf@prepare}
12320 \bidi@ensure@newcommand{\@mpfourcolRTLfootnotetext}[1]{%
12321   \global\setbox\@mpfootinsv@r\vbox{\@RTLtrue%
12322     \unvbox\@mpfootinsv@r
12323     \def\baselinestretch{\m@m@footnote@spacing}%
12324     \reset@font\RTLfoottextfont
12325     \hsize\columnwidth \@parboxrestore
12326     \protected@edef\@currentlabel{%
12327       \csname p@mpfootnote\endcsname\@thefnmark}%

```



```

12328 \color@begingroup
12329 \@fourcolRTLfootfmt{#1}%
12330 \color@endgroup}%
12331 \m@mmf@prepare}
12332 \bidi@ensure@newcommand{\m@make@fourcol@footgroup}[1]{%
12333 \@namedef{\@fourcol@footgroup#1}{%
12334 \def\baselinestretch{\m@m@footnote@spacing}%
12335 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12336 \m@mrigidbodybalance{\@nameuse{footins#1}}{4}{\splittopskip}}}}
12337 \newcommand{\bidi@make@fourcol@LTRfootgroup}[1]{%
12338 \@namedef{\@fourcol@LTRfootgroup#1}{%
12339 \def\baselinestretch{\m@m@footnote@spacing}%
12340 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12341 \bidi@LTRigidbodybalance{\@nameuse{footins#1}}{4}{\splittopskip}}}}
12342 \bidi@ensure@newcommand{\m@make@mpfourcol@footgroup}[1]{%
12343 \@namedef{\@mpfourcol@footgroup#1}{%
12344 \def\baselinestretch{\m@m@footnote@spacing}%
12345 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12346 \m@mrigidbodybalance{\@nameuse{\@mpfootins#1}}{4}{\splittopskip}}}}
12347 \newcommand{\bidi@make@mpfourcol@LTRfootgroup}[1]{%
12348 \@namedef{\@mpfourcol@LTRfootgroup#1}{%
12349 \def\baselinestretch{\m@m@footnote@spacing}%
12350 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12351 \bidi@LTRigidbodybalance{\@nameuse{\@mpfootins#1}}{4}{\splittopskip}}}}
12352 \bidi@ensure@newcommand{\fivecolumnfootnotes}{%
12353 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
12354 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
12355 \@bidi@before@Hy@hyperfootnotes
12356 \let\@footnotetext\@fivecolfootnotetext
12357 \let\@LTRfootnotetext\@fivecolLTRfootnotetext
12358 \let\@RTLfootnotetext\@fivecolRTLfootnotetext
12359 \dimen\footinsv@r=5\footinsdim
12360 \count\footinsv@r=200\relax
12361 \m@make@fivecol@footgroup{v@r}%
12362 \let\@footgroupv@r\@fivecol@footgroupv@r
12363 \dimen\footinsv@l=5\footinsdim
12364 \count\footinsv@l=200\relax
12365 \bidi@make@fivecol@LTRfootgroup{v@l}%
12366 \let\@LTRfootgroupv@l\@fivecol@LTRfootgroupv@l
12367 \let\@mpfootnotetext\@mpfivecolfootnotetext
12368 \let\@mpLTRfootnotetext\@mpfivecolLTRfootnotetext
12369 \let\@mpRTLfootnotetext\@mpfivecolRTLfootnotetext
12370 \@bidi@after@Hy@hyperfootnotes
12371 \m@make@mpfivecol@footgroup{v@r}%
12372 \let\mp@footgroupv@r\@mpfivecol@footgroupv@r
12373 \bidi@make@mpfivecol@LTRfootgroup{v@l}%
12374 \let\mp@LTRfootgroupv@l\@mpfivecol@LTRfootgroupv@l
12375 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
12376 }
12377 \bidi@ensure@newcommand{\@fivecolfootnotetext}[1]{\insert
12378 \if@RTL@footnote
12379 \footinsv@r
12380 \else
12381 \footinsv@l

```



```

12382 \fi
12383 {\ifRTL@footnote\@RTLtrue\else\@RTLfalse\fi%
12384 \def\baselinestretch{\m@m@footnote@spacing}%
12385 \reset@font\foottextfont
12386 \@preamfntext
12387 \protected@edef\@currentlabel{%
12388 \csname p@footnote\endcsname\@thefnmark}%
12389 \color@begingroup
12390 \@fivecolfootfmt{#1}%
12391 \color@endgroup}%
12392 \m@mmf@prepare}
12393 \bidi@ensure@newcommand{\@fivecolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
12394 \def\baselinestretch{\m@m@footnote@spacing}%
12395 \reset@font\LTRfoottextfont
12396 \@preamfntext
12397 \protected@edef\@currentlabel{%
12398 \csname p@footnote\endcsname\@thefnmark}%
12399 \color@begingroup
12400 \@fivecolLTRfootfmt{#1}%
12401 \color@endgroup}%
12402 \m@mmf@prepare}
12403 \bidi@ensure@newcommand{\@fivecolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
12404 \def\baselinestretch{\m@m@footnote@spacing}%
12405 \reset@font\RTLfoottextfont
12406 \@preamfntext
12407 \protected@edef\@currentlabel{%
12408 \csname p@footnote\endcsname\@thefnmark}%
12409 \color@begingroup
12410 \@fivecolRTLfootfmt{#1}%
12411 \color@endgroup}%
12412 \m@mmf@prepare}
12413 \bidi@ensure@newcommand{\@preamfivefmt}{%
12414 \hspace{.2\hspace}
12415 \parindent=\z@
12416 \tolerance=5000\relax
12417 \leavevmode}
12418 \bidi@ensure@newcommand{\@fivecolfootfmt}[1]{%
12419 \@preamfivefmt
12420 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
12421 \bidi@ensure@newcommand{\@fivecolLTRfootfmt}[1]{%
12422 \@preamfivefmt
12423 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
12424 \bidi@ensure@newcommand{\@fivecolRTLfootfmt}[1]{%
12425 \@preamfivefmt
12426 {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
12427 \bidi@ensure@newcommand{\@mpfivecolfootnotetext}[1]{%
12428 \global\setbox
12429 \ifRTL@footnote
12430 \@mpfootinsv@r
12431 \else
12432 \@mpfootinsv@l
12433 \fi
12434 \vbox{\ifRTL@footnote\@RTLtrue\else\@RTLfalse\fi%
12435 \unvbox

```



```

12436 \if@RTL@footnote
12437 \@mpfootinsv@r
12438 \else
12439 \@mpfootinsv@l
12440 \fi
12441 \def\baselinestretch{\m@m@footnote@spacing}%
12442 \reset@font\foottextfont
12443 \hsize\columnwidth \@parboxrestore
12444 \protected@edef\@currentlabel{%
12445 \csname p@mpfootnote\endcsname\@thefnmark}%
12446 \color@begingroup
12447 \@fivecolfootfmt{#1}%
12448 \color@endgroup}%
12449 \m@m@mmf@prepare}
12450 \bidi@ensure@newcommand{\@mpfivecolLTRfootnotetext}[1]{%
12451 \global\setbox\@mpfootinsv@l\vbox{\@RTLfalse%
12452 \unvbox\@mpfootinsv@l
12453 \def\baselinestretch{\m@m@footnote@spacing}%
12454 \reset@font\LTRfoottextfont
12455 \hsize\columnwidth \@parboxrestore
12456 \protected@edef\@currentlabel{%
12457 \csname p@mpfootnote\endcsname\@thefnmark}%
12458 \color@begingroup
12459 \@fivecolLTRfootfmt{#1}%
12460 \color@endgroup}%
12461 \m@m@mmf@prepare}
12462 \bidi@ensure@newcommand{\@mpfivecolRTLfootnotetext}[1]{%
12463 \global\setbox\@mpfootinsv@r\vbox{\@RTLtrue%
12464 \unvbox\@mpfootinsv@r
12465 \def\baselinestretch{\m@m@footnote@spacing}%
12466 \reset@font\RTLfoottextfont
12467 \hsize\columnwidth \@parboxrestore
12468 \protected@edef\@currentlabel{%
12469 \csname p@mpfootnote\endcsname\@thefnmark}%
12470 \color@begingroup
12471 \@fivecolRTLfootfmt{#1}%
12472 \color@endgroup}%
12473 \m@m@mmf@prepare}
12474 \bidi@ensure@newcommand{\m@make@fivecol@footgroup}[1]{%
12475 \@namedef{@fivecol@footgroup#1}{%
12476 \def\baselinestretch{\m@m@footnote@spacing}%
12477 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12478 \m@m@rigidbalance{\@nameuse{footins#1}}{5}{\splittopskip}}}}
12479 \newcommand{\bidi@make@fivecol@LTRfootgroup}[1]{%
12480 \@namedef{@fivecol@LTRfootgroup#1}{%
12481 \def\baselinestretch{\m@m@footnote@spacing}%
12482 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12483 \bidi@LTRrigidbalance{\@nameuse{footins#1}}{5}{\splittopskip}}}}
12484 \bidi@ensure@newcommand{\m@make@mpfivecol@footgroup}[1]{%
12485 \@namedef{@mpfivecol@footgroup#1}{%
12486 \def\baselinestretch{\m@m@footnote@spacing}%
12487 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12488 \m@m@rigidbalance{\@nameuse{@mpfootins#1}}{5}{\splittopskip}}}}
12489 \newcommand{\bidi@make@mpfivecol@LTRfootgroup}[1]{%

```



```

12490 \@namedef{@mpfivecol@LTRfootgroup#1}{%
12491 \def\baselinestretch{\m@m@footnote@spacing}%
12492 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12493 \bidi@LTRrigidbalance{\@nameuse{@mpfootins#1}}{5}{\splittopskip}}}%
12494 \bidi@ensure@newcommand{\sixcolumnfootnotes}{%
12495 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
12496 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
12497 \@bidi@before@Hy@hyperfootnotes
12498 \let\@footnotetext\@sixcolfootnotetext
12499 \let\@LTRfootnotetext\@sixcolLTRfootnotetext
12500 \let\@RTLfootnotetext\@sixcolRTLfootnotetext
12501 \dimen\footinsv@r=6\footinsdim
12502 \count\footinsv@r=166\relax
12503 \m@make@sixcol@footgroup{v@r}%
12504 \let\@footgroupv@r\@sixcol@footgroupv@r
12505 \dimen\footinsv@l=6\footinsdim
12506 \count\footinsv@l=166\relax
12507 \bidi@make@sixcol@LTRfootgroup{v@l}%
12508 \let\@LTRfootgroupv@l\@sixcol@LTRfootgroupv@l
12509 \let\@mpfootnotetext\@mpsixcolfootnotetext
12510 \let\@mpLTRfootnotetext\@mpsixcolLTRfootnotetext
12511 \let\@mpRTLfootnotetext\@mpsixcolRTLfootnotetext
12512 \@bidi@after@Hy@hyperfootnotes
12513 \m@make@mpsixcol@footgroup{v@r}%
12514 \let\mp@footgroupv@r\@mpsixcol@footgroupv@r
12515 \bidi@make@mpsixcol@LTRfootgroup{v@l}%
12516 \let\mp@LTRfootgroupv@l\@mpsixcol@LTRfootgroupv@l
12517 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
12518 }
12519 \bidi@ensure@newcommand{\@sixcolfootnotetext}[1]{\insert
12520 \if@RTL@footnote
12521 \footinsv@r
12522 \else
12523 \footinsv@l
12524 \fi
12525 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
12526 \def\baselinestretch{\m@m@footnote@spacing}%
12527 \reset@font\foottextfont
12528 \@preamfntext
12529 \protected@edef\@currentlabel{%
12530 \csname p@footnote\endcsname\@thefnmark}%
12531 \color@begingroup
12532 \@sixcolfootfmt{#1}%
12533 \color@endgroup}%
12534 \m@mmf@prepare}
12535 \bidi@ensure@newcommand{\@sixcolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
12536 \def\baselinestretch{\m@m@footnote@spacing}%
12537 \reset@font\LTRfoottextfont
12538 \@preamfntext
12539 \protected@edef\@currentlabel{%
12540 \csname p@footnote\endcsname\@thefnmark}%
12541 \color@begingroup
12542 \@sixcolLTRfootfmt{#1}%
12543 \color@endgroup}%

```



```

12544 \m@mmf@prepare}
12545 \bidi@ensure@newcommand{\@sixcolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
12546 \def\baselinestretch{\m@m@footnote@spacing}%
12547 \reset@font\RTLfoottextfont
12548 \@preamfntext
12549 \protected@edef\@currentlabel{%
12550 \csname p@footnote\endcsname\@thefnmark}%
12551 \color@begingroup
12552 \@sixcolRTLfootfmt{#1}%
12553 \color@endgroup}%
12554 \m@mmf@prepare}
12555 \bidi@ensure@newcommand{\@preamsixfmt}{%
12556 \hsize .16\hsize
12557 \parindent=\z@
12558 \tolerance=5000\relax
12559 \leavevmode}
12560 \bidi@ensure@newcommand{\@sixcolfootfmt}[1]{%
12561 \@preamsixfmt
12562 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
12563 \bidi@ensure@newcommand{\@sixcollTRfootfmt}[1]{%
12564 \@preamsixfmt
12565 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
12566 \bidi@ensure@newcommand{\@sixcolRTLfootfmt}[1]{%
12567 \@preamsixfmt
12568 {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
12569 \bidi@ensure@newcommand{\@mpsixcolfootnotetext}[1]{\if@RTL@footnote\@RTLtrue\else\@RTLfalse%
12570 \global\setbox
12571 \if@RTL@footnote
12572 \@mpfootinsv@r
12573 \else
12574 \@mpfootinsv@l
12575 \fi
12576 \vbox{%
12577 \unvbox
12578 \if@RTL@footnote
12579 \@mpfootinsv@r
12580 \else
12581 \@mpfootinsv@l
12582 \fi
12583 \def\baselinestretch{\m@m@footnote@spacing}%
12584 \reset@font\foottextfont
12585 \hsize\columnwidth \@parboxrestore
12586 \protected@edef\@currentlabel{%
12587 \csname p@mpfootnote\endcsname\@thefnmark}%
12588 \color@begingroup
12589 \@sixcolfootfmt{#1}%
12590 \color@endgroup}%
12591 \m@mmf@prepare}
12592 \bidi@ensure@newcommand{\@mpsixcollTRfootnotetext}[1]{\@RTLfalse%
12593 \global\setbox\@mpfootinsv@l\vbox{%
12594 \unvbox\@mpfootinsv@l
12595 \def\baselinestretch{\m@m@footnote@spacing}%
12596 \reset@font\LTRfoottextfont
12597 \hsize\columnwidth \@parboxrestore

```



```

12598 \protected@edef\@currentlabel{%
12599 \csname p@mpfootnote\endcsname\@thefnmark}%
12600 \color@begingroup
12601 \@sixcolLTRfootfmt{#1}%
12602 \color@endgroup}%
12603 \m@mmf@prepare}
12604 \bidi@ensure@newcommand{\@mpsixcolRTLfootnotetext}[1]{\@RTLtrue%
12605 \global\setbox\@mpfootinsv@r\vbox{%
12606 \unvbox\@mpfootinsv@r
12607 \def\baselinestretch{\m@m@footnote@spacing}%
12608 \reset@font\RTLfoottextfont
12609 \hsize\columnwidth \@parboxrestore
12610 \protected@edef\@currentlabel{%
12611 \csname p@mpfootnote\endcsname\@thefnmark}%
12612 \color@begingroup
12613 \@sixcolRTLfootfmt{#1}%
12614 \color@endgroup}%
12615 \m@mmf@prepare}
12616 \bidi@ensure@newcommand{\m@make@sixcol@footgroup}[1]{%
12617 \@namedef{\@sixcol@footgroup#1}{%
12618 \def\baselinestretch{\m@m@footnote@spacing}%
12619 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12620 \m@mrigidbalance{\@nameuse{footins#1}}{6}{\splittopskip}}}}
12621 \newcommand{\bidi@make@sixcol@LTRfootgroup}[1]{%
12622 \@namedef{\@sixcol@LTRfootgroup#1}{%
12623 \def\baselinestretch{\m@m@footnote@spacing}%
12624 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12625 \bidi@LTRrigidbalance{\@nameuse{footins#1}}{6}{\splittopskip}}}}
12626 \bidi@ensure@newcommand{\m@make@mpsixcol@footgroup}[1]{%
12627 \@namedef{\@mpsixcol@footgroup#1}{%
12628 \def\baselinestretch{\m@m@footnote@spacing}%
12629 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12630 \m@mrigidbalance{\@nameuse{\@mpfootins#1}}{6}{\splittopskip}}}}
12631 \newcommand{\bidi@make@mpsixcol@LTRfootgroup}[1]{%
12632 \@namedef{\@mpsixcol@LTRfootgroup#1}{%
12633 \def\baselinestretch{\m@m@footnote@spacing}%
12634 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12635 \bidi@LTRrigidbalance{\@nameuse{\@mpfootins#1}}{6}{\splittopskip}}}}
12636 \bidi@ensure@newcommand{\sevendcolumnfootnotes}{%
12637 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
12638 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
12639 \@bidi@before@Hy@hyperfootnotes
12640 \let\@footnotetext\@sevendcolfootnotetext
12641 \let\@LTRfootnotetext\@sevendcolLTRfootnotetext
12642 \let\@RTLfootnotetext\@sevendcolRTLfootnotetext
12643 \dimen\footinsv@r=7\footinsdim
12644 \count\footinsv@r=142\relax
12645 \m@make@sevendcol@footgroup{v@r}%
12646 \let\@footgroupv@r\@sevendcol@footgroupv@r
12647 \dimen\footinsv@l=7\footinsdim
12648 \count\footinsv@l=142\relax
12649 \bidi@make@sevendcol@LTRfootgroup{v@l}%
12650 \let\@LTRfootgroupv@l\@sevendcol@LTRfootgroupv@l
12651 \let\@mpfootnotetext\@mpsevendcolfootnotetext

```



```

12652 \let\@mpLTRfootnotetext\@mpsevenscolLTRfootnotetext
12653 \let\@mpRTLfootnotetext\@mpsevenscolRTLfootnotetext
12654 \@bidi@after@Hy@hyperfootnotes
12655 \m@make@mpsevenscol@footgroup{v@r}%
12656 \let\mp@footgroupv@r\@mpsevenscol@footgroupv@r
12657 \bidi@make@mpsevenscol@LTRfootgroup{v@l}%
12658 \let\mp@LTRfootgroupv@l\@mpsevenscol@LTRfootgroupv@l
12659 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
12660 }
12661 \bidi@ensure@newcommand{\@sevenscolfootnotetext}[1]{\insert
12662 \if@RTL@footnote
12663 \footinsv@r
12664 \else
12665 \footinsv@l
12666 \fi
12667 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
12668 \def\baselinestretch{\m@mm@footnote@spacing}%
12669 \reset@font\foottextfont
12670 \@preamfntext
12671 \protected@edef\@currentlabel{%
12672 \csname p@footnote\endcsname\@thefnmark}%
12673 \color@begingroup
12674 \@sevenscolfootfmt{#1}%
12675 \color@endgroup}%
12676 \m@mmf@prepare}
12677 \bidi@ensure@newcommand{\@sevenscolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
12678 \def\baselinestretch{\m@mm@footnote@spacing}%
12679 \reset@font\LTRfoottextfont
12680 \@preamfntext
12681 \protected@edef\@currentlabel{%
12682 \csname p@footnote\endcsname\@thefnmark}%
12683 \color@begingroup
12684 \@sevenscolLTRfootfmt{#1}%
12685 \color@endgroup}%
12686 \m@mmf@prepare}
12687 \bidi@ensure@newcommand{\@sevenscolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
12688 \def\baselinestretch{\m@mm@footnote@spacing}%
12689 \reset@font\RTLfoottextfont
12690 \@preamfntext
12691 \protected@edef\@currentlabel{%
12692 \csname p@footnote\endcsname\@thefnmark}%
12693 \color@begingroup
12694 \@sevenscolRTLfootfmt{#1}%
12695 \color@endgroup}%
12696 \m@mmf@prepare}
12697 \bidi@ensure@newcommand{\@preamsevenfmt}{%
12698 \hsize .142\hsize
12699 \parindent=\z@
12700 \tolerance=5000\relax
12701 \leavevmode}
12702 \bidi@ensure@newcommand{\@sevenscolfootfmt}[1]{%
12703 \@preamsevenfmt
12704 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
12705 \bidi@ensure@newcommand{\@sevenscolLTRfootfmt}[1]{%

```



```

12706 \preamsevenfmt
12707 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
12708 \bidi@ensure@newcommand{\@sevencolRTLfootfmt}[1]{%
12709 \preamsevenfmt
12710 {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
12711 \bidi@ensure@newcommand{\@mpsevencolfootnotetext}[1]{\if@RTL@footnote\@RTLtrue\else\@RTLfalse%
12712 \global\setbox
12713 \if@RTL@footnote
12714 \@mpfootinsv@r
12715 \else
12716 \@mpfootinsv@l
12717 \fi
12718 \vbox{%
12719 \unvbox
12720 \if@RTL@footnote
12721 \@mpfootinsv@r
12722 \else
12723 \@mpfootinsv@l
12724 \fi
12725 \def\baselinestretch{\m@m@footnote@spacing}%
12726 \reset@font\foottextfont
12727 \hsize\columnwidth \@parboxrestore
12728 \protected@edef\@currentlabel{%
12729 \csname p@mpfootnote\endcsname\@thefnmark}%
12730 \color@begingroup
12731 \@sevencolfootfmt{#1}%
12732 \color@endgroup}%
12733 \m@m@prepare}
12734 \bidi@ensure@newcommand{\@mpsevencolLTRfootnotetext}[1]{\@RTLfalse%
12735 \global\setbox\@mpfootinsv@l\vbox{%
12736 \unvbox\@mpfootinsv@l
12737 \def\baselinestretch{\m@m@footnote@spacing}%
12738 \reset@font\LTRfoottextfont
12739 \hsize\columnwidth \@parboxrestore
12740 \protected@edef\@currentlabel{%
12741 \csname p@mpfootnote\endcsname\@thefnmark}%
12742 \color@begingroup
12743 \@sevencolLTRfootfmt{#1}%
12744 \color@endgroup}%
12745 \m@m@prepare}
12746 \bidi@ensure@newcommand{\@mpsevencolRTLfootnotetext}[1]{\@RTLtrue%
12747 \global\setbox\@mpfootinsv@r\vbox{%
12748 \unvbox\@mpfootinsv@r
12749 \def\baselinestretch{\m@m@footnote@spacing}%
12750 \reset@font\RTLfoottextfont
12751 \hsize\columnwidth \@parboxrestore
12752 \protected@edef\@currentlabel{%
12753 \csname p@mpfootnote\endcsname\@thefnmark}%
12754 \color@begingroup
12755 \@sevencolRTLfootfmt{#1}%
12756 \color@endgroup}%
12757 \m@m@prepare}
12758 \bidi@ensure@newcommand{\m@make@sevencol@footgroup}[1]{%
12759 \@namedef{\@sevencol@footgroup#1}{%

```



```

12760 \def\baselinestretch{\m@m@footnote@spacing}%
12761 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12762 \m@mrigidbalance{\@nameuse{footins#1}}{7}{\splittopskip}}}}
12763 \newcommand{\bidi@make@sevenscol@LTRfootgroup}[1]{%
12764 \@namedef{@sevenscol@LTRfootgroup#1}{%
12765 \def\baselinestretch{\m@m@footnote@spacing}%
12766 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12767 \bidi@LTRrigidbalance{\@nameuse{footins#1}}{7}{\splittopskip}}}}
12768 \bidi@ensure@newcommand{\m@make@mpsevenscol@footgroup}[1]{%
12769 \@namedef{@mpsevenscol@footgroup#1}{%
12770 \def\baselinestretch{\m@m@footnote@spacing}%
12771 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12772 \m@mrigidbalance{\@nameuse{mpfootins#1}}{7}{\splittopskip}}}}
12773 \newcommand{\bidi@make@mpsevenscol@LTRfootgroup}[1]{%
12774 \@namedef{@mpsevenscol@LTRfootgroup#1}{%
12775 \def\baselinestretch{\m@m@footnote@spacing}%
12776 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12777 \bidi@LTRrigidbalance{\@nameuse{mpfootins#1}}{7}{\splittopskip}}}}
12778 \bidi@ensure@newcommand{\eightcolumnfootnotes}{%
12779 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
12780 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
12781 \@bidi@before@Hy@hyperfootnotes
12782 \let\@footnotetext\@eightcolfootnotetext
12783 \let\@LTRfootnotetext\@eightcolLTRfootnotetext
12784 \let\@RTLfootnotetext\@eightcolRTLfootnotetext
12785 \dimen\footinsv@r=8\footinsdim
12786 \count\footinsv@r=125\relax
12787 \m@make@eightcol@footgroup{v@r}%
12788 \let\@footgroupv@r\@eightcol@footgroupv@r
12789 \dimen\footinsv@l=8\footinsdim
12790 \count\footinsv@l=125\relax
12791 \bidi@make@eightcol@LTRfootgroup{v@l}%
12792 \let\@LTRfootgroupv@l\@eightcol@LTRfootgroupv@l
12793 \let\@mpfootnotetext\@mpeightcolfootnotetext
12794 \let\@mpLTRfootnotetext\@mpeightcolLTRfootnotetext
12795 \let\@mpRTLfootnotetext\@mpeightcolRTLfootnotetext
12796 \@bidi@after@Hy@hyperfootnotes
12797 \m@make@mpeightcol@footgroup{v@r}%
12798 \let\mp@footgroupv@r\@mpeightcol@footgroupv@r
12799 \bidi@make@mpeightcol@LTRfootgroup{v@l}%
12800 \let\mp@LTRfootgroupv@l\@mpeightcol@LTRfootgroupv@l
12801 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
12802 }
12803 \bidi@ensure@newcommand{\@eightcolfootnotetext}[1]{\insert
12804 \if@RTL@footnote
12805 \footinsv@r
12806 \else
12807 \footinsv@l
12808 \fi
12809 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
12810 \def\baselinestretch{\m@m@footnote@spacing}%
12811 \reset@font\foottextfont
12812 \@preamfntext
12813 \protected@edef\@currentlabel{%

```



```

12814 \csname p@footnote\endcsname\@thefnmark}%
12815 \color@begingroup
12816 \@eightcolfootfmt{#1}%
12817 \color@endgroup}%
12818 \m@mmf@prepare}
12819 \bidi@ensure@newcommand{\@eightcolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
12820 \def\baselinestretch{\m@m@footnote@spacing}%
12821 \reset@font\LTRfoottextfont
12822 \@preamfntext
12823 \protected@edef\@currentlabel{%
12824 \csname p@footnote\endcsname\@thefnmark}%
12825 \color@begingroup
12826 \@eightcolLTRfootfmt{#1}%
12827 \color@endgroup}%
12828 \m@mmf@prepare}
12829 \bidi@ensure@newcommand{\@eightcolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
12830 \def\baselinestretch{\m@m@footnote@spacing}%
12831 \reset@font\RTLfoottextfont
12832 \@preamfntext
12833 \protected@edef\@currentlabel{%
12834 \csname p@footnote\endcsname\@thefnmark}%
12835 \color@begingroup
12836 \@eightcolRTLfootfmt{#1}%
12837 \color@endgroup}%
12838 \m@mmf@prepare}
12839 \bidi@ensure@newcommand{\@preameightfmt}{%
12840 \hspace{.125\hspace}
12841 \parindent=\z@
12842 \tolerance=5000\relax
12843 \leavevmode}
12844 \bidi@ensure@newcommand{\@eightcolfootfmt}[1]{%
12845 \@preameightfmt
12846 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
12847 \bidi@ensure@newcommand{\@eightcolLTRfootfmt}[1]{%
12848 \@preameightfmt
12849 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
12850 \bidi@ensure@newcommand{\@eightcolRTLfootfmt}[1]{%
12851 \@preameightfmt
12852 {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
12853 \bidi@ensure@newcommand{\@mpeightcolfootnotetext}[1]{%
12854 \global\setbox
12855 \if@RTL@footnote
12856 \@mpfootinsv@r
12857 \else
12858 \@mpfootinsv@l
12859 \fi
12860 \vbox{\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
12861 \unvbox
12862 \if@RTL@footnote
12863 \@mpfootinsv@r
12864 \else
12865 \@mpfootinsv@l
12866 \fi
12867 \def\baselinestretch{\m@m@footnote@spacing}%

```



```

12868 \reset@font\foottextfont
12869 \hsize\columnwidth \@parboxrestore
12870 \protected@edef\@currentlabel{%
12871 \csname p@mpfootnote\endcsname\@thefnmark}%
12872 \color@begingroup
12873 \@eightcolfootfmt{#1}%
12874 \color@endgroup}%
12875 \m@mmlf@prepare}
12876 \bidi@ensure@newcommand{\@mpeightcolLTRfootnotetext}[1]{%
12877 \global\setbox\@mpfootinsv@l\vbox{\@RTLfalse%
12878 \unvbox\@mpfootinsv@l
12879 \def\baselinestretch{\m@m@footnote@spacing}%
12880 \reset@font\LTRfoottextfont
12881 \hsize\columnwidth \@parboxrestore
12882 \protected@edef\@currentlabel{%
12883 \csname p@mpfootnote\endcsname\@thefnmark}%
12884 \color@begingroup
12885 \@eightcolLTRfootfmt{#1}%
12886 \color@endgroup}%
12887 \m@mmlf@prepare}
12888 \bidi@ensure@newcommand{\@mpeightcolRTLfootnotetext}[1]{%
12889 \global\setbox\@mpfootinsv@r\vbox{\@RTLtrue%
12890 \unvbox\@mpfootinsv@r
12891 \def\baselinestretch{\m@m@footnote@spacing}%
12892 \reset@font\RTLfoottextfont
12893 \hsize\columnwidth \@parboxrestore
12894 \protected@edef\@currentlabel{%
12895 \csname p@mpfootnote\endcsname\@thefnmark}%
12896 \color@begingroup
12897 \@eightcolRTLfootfmt{#1}%
12898 \color@endgroup}%
12899 \m@mmlf@prepare}
12900 \bidi@ensure@newcommand{\m@make@eightcol@footgroup}[1]{%
12901 \@namedef{@eightcol@footgroup#1}{%
12902 \def\baselinestretch{\m@m@footnote@spacing}%
12903 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12904 \m@mrigidbalance{\@nameuse{footins#1}}{8}{\splittopskip}}}%
12905 \newcommand{\bidi@make@eightcol@LTRfootgroup}[1]{%
12906 \@namedef{@eightcol@LTRfootgroup#1}{%
12907 \def\baselinestretch{\m@m@footnote@spacing}%
12908 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12909 \bidi@LTRrigidbalance{\@nameuse{footins#1}}{8}{\splittopskip}}}%
12910 \bidi@ensure@newcommand{\m@make@mpeightcol@footgroup}[1]{%
12911 \@namedef{@mpeightcol@footgroup#1}{%
12912 \def\baselinestretch{\m@m@footnote@spacing}%
12913 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12914 \m@mrigidbalance{\@nameuse{mpfootins#1}}{8}{\splittopskip}}}%
12915 \newcommand{\bidi@make@mpeightcol@LTRfootgroup}[1]{%
12916 \@namedef{@mpeightcol@LTRfootgroup#1}{%
12917 \def\baselinestretch{\m@m@footnote@spacing}%
12918 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12919 \bidi@LTRrigidbalance{\@nameuse{mpfootins#1}}{8}{\splittopskip}}}%
12920 \bidi@ensure@newcommand{\ninecolumnfootnotes}{%
12921 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]

```



```

12922 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
12923 \@bidi@before@Hy@hyperfootnotes
12924 \let\@footnotetext\@ninecolfootnotetext
12925 \let\@LTRfootnotetext\@ninecollTRfootnotetext
12926 \let\@RTLfootnotetext\@ninecolRTLfootnotetext
12927 \dimen\footinsv@r=9\footinsdim
12928 \count\footinsv@r=111\relax
12929 \m@make@ninecol@footgroup{v@r}%
12930 \let\@footgroupv@r\@ninecol@footgroupv@r
12931 \dimen\footinsv@l=9\footinsdim
12932 \count\footinsv@l=111\relax
12933 \bidi@make@ninecol@LTRfootgroup{v@l}%
12934 \let\@LTRfootgroupv@l\@ninecol@LTRfootgroupv@l
12935 \let\@mpfootnotetext\@mpninecolfootnotetext
12936 \let\@mpLTRfootnotetext\@mpninecollTRfootnotetext
12937 \let\@mpRTLfootnotetext\@mpninecolRTLfootnotetext
12938 \@bidi@after@Hy@hyperfootnotes
12939 \m@make@mpninecol@footgroup{v@r}%
12940 \let\mp@footgroupv@r\@mpninecol@footgroupv@r
12941 \bidi@make@mpninecol@LTRfootgroup{v@l}%
12942 \let\mp@LTRfootgroupv@l\@mpninecol@LTRfootgroupv@l
12943 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
12944 }
12945 \bidi@ensure@newcommand{\@ninecolfootnotetext}[1]{\insert
12946   \if@RTL@footnote
12947     \footinsv@r
12948   \else
12949     \footinsv@l
12950   \fi
12951 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
12952   \def\baselinestretch{\m@f@footnote@spacing}%
12953   \reset@font\foottextfont
12954   \@preamfntext
12955   \protected@edef\@currentlabel{%
12956     \csname p@footnote\endcsname\@thefnmark}%
12957   \color@begingroup
12958     \@ninecolfootfmt{#1}%
12959   \color@endgroup}%
12960   \m@mmf@prepare}
12961 \bidi@ensure@newcommand{\@ninecollTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
12962   \def\baselinestretch{\m@f@footnote@spacing}%
12963   \reset@font\LTRfoottextfont
12964   \@preamfntext
12965   \protected@edef\@currentlabel{%
12966     \csname p@footnote\endcsname\@thefnmark}%
12967   \color@begingroup
12968     \@ninecollTRfootfmt{#1}%
12969   \color@endgroup}%
12970   \m@mmf@prepare}
12971 \bidi@ensure@newcommand{\@ninecolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
12972   \def\baselinestretch{\m@f@footnote@spacing}%
12973   \reset@font\RTLfoottextfont
12974   \@preamfntext
12975   \protected@edef\@currentlabel{%

```



```

12976 \csname p@footnote\endcsname\@thefnmark}%
12977 \color@begingroup
12978 \@ninecolRTLfootfmt{#1}%
12979 \color@endgroup}%
12980 \m@mmf@prepare}
12981 \bidi@ensure@newcommand{\@preamninefmt}{%
12982 \hspace .1\hspace
12983 \parindent=\z@
12984 \tolerance=5000\relax
12985 \leavevmode}
12986 \bidi@ensure@newcommand{\@ninecolfootfmt}[1]{%
12987 \@preamninefmt
12988 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
12989 \bidi@ensure@newcommand{\@ninecolLTRfootfmt}[1]{%
12990 \@preamninefmt
12991 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
12992 \bidi@ensure@newcommand{\@ninecolRTLfootfmt}[1]{%
12993 \@preamninefmt
12994 {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
12995 \bidi@ensure@newcommand{\@mpninecolfootnotetext}[1]{%
12996 \global\setbox
12997 \if@RTL@footnote
12998 \@mpfootinsv@r
12999 \else
13000 \@mpfootinsv@l
13001 \fi
13002 \vbox{\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
13003 \unvbox
13004 \if@RTL@footnote
13005 \@mpfootinsv@r
13006 \else
13007 \@mpfootinsv@l
13008 \fi
13009 \def\baselinestretch{\m@m@footnote@spacing}%
13010 \reset@font\foottextfont
13011 \hspace\columnwidth \@parboxrestore
13012 \protected@edef\@currentlabel{%
13013 \csname p@mpfootnote\endcsname\@thefnmark}%
13014 \color@begingroup
13015 \@ninecolfootfmt{#1}%
13016 \color@endgroup}%
13017 \m@mmf@prepare}
13018 \bidi@ensure@newcommand{\@mpninecolLTRfootnotetext}[1]{%
13019 \global\setbox\@mpfootinsv@l\vbox{\@RTLfalse%
13020 \unvbox\@mpfootinsv@l
13021 \def\baselinestretch{\m@m@footnote@spacing}%
13022 \reset@font\LTRfoottextfont
13023 \hspace\columnwidth \@parboxrestore
13024 \protected@edef\@currentlabel{%
13025 \csname p@mpfootnote\endcsname\@thefnmark}%
13026 \color@begingroup
13027 \@ninecolLTRfootfmt{#1}%
13028 \color@endgroup}%
13029 \m@mmf@prepare}

```



```

13030 \bidi@ensure@newcommand{\@mpninecolRTLfootnotetext}[1]{%
13031   \global\setbox\@mpfootinsv@r\vbox{\@RTLtrue%
13032     \unvbox\@mpfootinsv@r
13033     \def\baselinestretch{\m@m@footnote@spacing}%
13034     \reset@font\RTLfoottextfont
13035     \hsize\columnwidth \@parboxrestore
13036     \protected@edef\@currentlabel{%
13037       \csname p@mpfootnote\endcsname\@thefnmark}%
13038     \color@begingroup
13039     \@ninecolRTLfootfmt{#1}%
13040     \color@endgroup}%
13041     \m@mmf@prepare}
13042 \bidi@ensure@newcommand{\m@make@ninecol@footgroup}[1]{%
13043   \@namedef{@ninecol@footgroup#1}{%
13044     \def\baselinestretch{\m@m@footnote@spacing}%
13045     \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13046     \m@mrigidbalance{\@nameuse{footins#1}}{9}{\splittopskip}}}%
13047 \newcommand{\bidi@make@ninecol@LTRfootgroup}[1]{%
13048   \@namedef{@ninecol@LTRfootgroup#1}{%
13049     \def\baselinestretch{\m@m@footnote@spacing}%
13050     \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13051     \bidi@LTRrigidbalance{\@nameuse{footins#1}}{9}{\splittopskip}}}%
13052 \bidi@ensure@newcommand{\m@make@mpninecol@footgroup}[1]{%
13053   \@namedef{@mpninecol@footgroup#1}{%
13054     \def\baselinestretch{\m@m@footnote@spacing}%
13055     \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13056     \m@mrigidbalance{\@nameuse{@mpfootins#1}}{9}{\splittopskip}}}%
13057 \newcommand{\bidi@make@mpninecol@LTRfootgroup}[1]{%
13058   \@namedef{@mpninecol@LTRfootgroup#1}{%
13059     \def\baselinestretch{\m@m@footnote@spacing}%
13060     \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13061     \bidi@LTRrigidbalance{\@nameuse{@mpfootins#1}}{9}{\splittopskip}}}%
13062 \bidi@ensure@newcommand{\tencolumnfootnotes}{%
13063   \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
13064   \@namedef{foottextfontv@l}{\LTRfoottextfont}%
13065   \@bidi@before@Hy@hyperfootnotes
13066   \let\@footnotetext\@tencolfootnotetext
13067   \let\@LTRfootnotetext\@tencolLTRfootnotetext
13068   \let\@RTLfootnotetext\@tencolRTLfootnotetext
13069   \dimen\footinsv@r=10\footinsdim
13070   \count\footinsv@r=100\relax
13071   \m@make@tencol@footgroup{v@r}%
13072   \let\@footgroupv@r\@tencol@footgroupv@r
13073   \dimen\footinsv@l=10\footinsdim
13074   \count\footinsv@l=100\relax
13075   \bidi@make@tencol@LTRfootgroup{v@l}%
13076   \let\@LTRfootgroupv@l\@tencol@LTRfootgroupv@l
13077   \let\@mpfootnotetext\@mptencolfootnotetext
13078   \let\@mpLTRfootnotetext\@mptencolLTRfootnotetext
13079   \let\@mpRTLfootnotetext\@mptencolRTLfootnotetext
13080   \@bidi@after@Hy@hyperfootnotes
13081   \m@make@mptencol@footgroup{v@r}%
13082   \let\mp@footgroupv@r\@mptencol@footgroupv@r
13083   \bidi@make@mptencol@LTRfootgroup{v@l}%

```



```

13084 \let\mp@LTRfootgroupv@1\@mptencol@LTRfootgroupv@1
13085 \@ifstar\ bidi@star@footmarkwidth\ bidi@normal@footmarkwidth
13086 }
13087 \bidi@ensure@newcommand{\@tencolfootnotetext}[1]{\insert
13088   \if@RTL@footnote
13089     \footinsv@r
13090   \else
13091     \footinsv@l
13092   \fi
13093 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
13094   \def\baselinestretch{\m@n@footnote@spacing}%
13095   \reset@font\foottextfont
13096   \@preamfntext
13097   \protected@edef\@currentlabel{%
13098     \csname p@footnote\endcsname\@thefnmark}%
13099   \color@begingroup
13100     \@tencolfootfmt{#1}%
13101   \color@endgroup}%
13102   \m@mmf@prepare}
13103 \bidi@ensure@newcommand{\@tencollTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
13104   \def\baselinestretch{\m@n@footnote@spacing}%
13105   \reset@font\LTRfoottextfont
13106   \@preamfntext
13107   \protected@edef\@currentlabel{%
13108     \csname p@footnote\endcsname\@thefnmark}%
13109   \color@begingroup
13110     \@tencollTRfootfmt{#1}%
13111   \color@endgroup}%
13112   \m@mmf@prepare}
13113 \bidi@ensure@newcommand{\@tencolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
13114   \def\baselinestretch{\m@n@footnote@spacing}%
13115   \reset@font\RTLfoottextfont
13116   \@preamfntext
13117   \protected@edef\@currentlabel{%
13118     \csname p@footnote\endcsname\@thefnmark}%
13119   \color@begingroup
13120     \@tencolRTLfootfmt{#1}%
13121   \color@endgroup}%
13122   \m@mmf@prepare}
13123 \bidi@ensure@newcommand{\@preamtenfmt}{%
13124   \hsize .1\hsize
13125   \parindent=\z@
13126   \tolerance=5000\relax
13127   \leavevmode}
13128 \bidi@ensure@newcommand{\@tencolfootfmt}[1]{%
13129   \@preamtenfmt
13130   {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
13131 \bidi@ensure@newcommand{\@tencollTRfootfmt}[1]{%
13132   \@preamtenfmt
13133   {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
13134 \bidi@ensure@newcommand{\@tencolRTLfootfmt}[1]{%
13135   \@preamtenfmt
13136   {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
13137 \bidi@ensure@newcommand{\@mptencolfootnotetext}[1]{%

```



```

13138 \global\setbox
13139 \if@RTL@footnote
13140 \@mpfootinsv@r
13141 \else
13142 \@mpfootinsv@l
13143 \fi
13144 \vbox{\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
13145 \unvbox
13146 \if@RTL@footnote
13147 \@mpfootinsv@r
13148 \else
13149 \@mpfootinsv@l
13150 \fi
13151 \def\baselinestretch{\m@m@footnote@spacing}%
13152 \reset@font\foottextfont
13153 \hsize\columnwidth \@parboxrestore
13154 \protected@edef\@currentlabel{%
13155 \csname p@mpfootnote\endcsname\@thefnmark}%
13156 \color@begingroup
13157 \@tencolfootfmt{#1}%
13158 \color@endgroup}%
13159 \m@m@mmf@prepare}
13160 \bidi@ensure@newcommand{\@mptencolLTRfootnotetext}[1]{%
13161 \global\setbox\@mpfootinsv@l\vbox{\@RTLfalse%
13162 \unvbox\@mpfootinsv@l
13163 \def\baselinestretch{\m@m@footnote@spacing}%
13164 \reset@font\LTRfoottextfont
13165 \hsize\columnwidth \@parboxrestore
13166 \protected@edef\@currentlabel{%
13167 \csname p@mpfootnote\endcsname\@thefnmark}%
13168 \color@begingroup
13169 \@tencolLTRfootfmt{#1}%
13170 \color@endgroup}%
13171 \m@m@mmf@prepare}
13172 \bidi@ensure@newcommand{\@mptencolRTLfootnotetext}[1]{%
13173 \global\setbox\@mpfootinsv@r\vbox{\@RTLtrue%
13174 \unvbox\@mpfootinsv@r
13175 \def\baselinestretch{\m@m@footnote@spacing}%
13176 \reset@font\RTLfoottextfont
13177 \hsize\columnwidth \@parboxrestore
13178 \protected@edef\@currentlabel{%
13179 \csname p@mpfootnote\endcsname\@thefnmark}%
13180 \color@begingroup
13181 \@tencolRTLfootfmt{#1}%
13182 \color@endgroup}%
13183 \m@m@mmf@prepare}
13184 \bidi@ensure@newcommand{\@make@tencol@footgroup}[1]{%
13185 \@namedef{\@tencol@footgroup#1}{%
13186 \def\baselinestretch{\m@m@footnote@spacing}%
13187 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13188 \m@m@rigidbalance{\@nameuse{footins#1}}{10}{\splittopskip}}}%
13189 \newcommand{\bidi@make@tencol@LTRfootgroup}[1]{%
13190 \@namedef{\@tencol@LTRfootgroup#1}{%
13191 \def\baselinestretch{\m@m@footnote@spacing}%

```



```

13192 \nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13193 \bidi@LTRrigidbalance{\nameuse{footins#1}}{10}{\splittopskip}}}}
13194 \bidi@ensure@newcommand{\m@make@mptencol@footgroup}[1]{%
13195 \namedef{@mptencol@footgroup#1}{%
13196 \def\baselinestretch{\m@m@footnote@spacing}%
13197 \nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13198 \m@mrigidbalance{\nameuse{@mpfootins#1}}{10}{\splittopskip}}}}
13199 \newcommand{\bidi@make@mptencol@LTRfootgroup}[1]{%
13200 \namedef{@mptencol@LTRfootgroup#1}{%
13201 \def\baselinestretch{\m@m@footnote@spacing}%
13202 \nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13203 \bidi@LTRrigidbalance{\nameuse{@mpfootins#1}}{10}{\splittopskip}}}}
13204 \bidi@ensure@newcommand{\m@munvxh}[1]{%
13205 \setbox0=\vbox{\unvbox#1%
13206 \global\setbox1=\lastbox}%
13207 \unhbox1
13208 \unskip
13209 \unskip
13210 \unpenalty
13211 \hskip\m@mipn@skip}
13212 \bidi@ensure@newcommand{\m@mungebox}{%
13213 \setbox0=\hbox{\m@munvxh0}%
13214 \dp0=\z@
13215 \ht0=\footfudgefactor\wd0
13216 \box0
13217 \penalty0}
13218 \newskip\m@mipn@skip
13219 \bidi@ensure@newcommand*{\m@minterparanoteglue}[1]{%
13220 {\foottextfont\global\m@mipn@skip=#1\relax}}
13221 \m@minterparanoteglue{1em plus.3em minus.3em}
13222 \bidi@ensure@newcommand*{\m@mmakehboxofhboxes}{%
13223 \setbox0=\hbox{}%
13224 \loop
13225 \unpenalty
13226 \setbox2=\lastbox
13227 \ifhbox2
13228 \setbox0=\hbox{\box2\unhbox0}
13229 \repeat}
13230 \bidi@ensure@newcommand*{\m@mremovehboxes}{\setbox0=\lastbox
13231 \ifhbox0{\m@mremovehboxes}\unhbox0 \fi}
13232 \newcommand*{\AddExtraParaSkip}[1]{%
13233 \def\bidi@xparaskip{\advance\@tempdima#1\relax}%
13234 }
13235 \let\bidi@xparaskip\relax
13236 \@onlypreamble\AddExtraParaSkip
13237 \@onlypreamble\bidi@xparaskip
13238 \bidi@ensure@newcommand{\paragraphfootnotes}{%
13239 \namedef{foottextfontv@r}{\foottextfont}% % [RS]
13240 \@bidi@before@Hy@hyperfootnotes
13241 \let\@footnotetext\@parafootnotetext
13242 \let\@LTRfootnotetext\@paraLTRfootnotetext
13243 \let\@RTLfootnotetext\@paraRTLfootnotetext
13244 \dimen\footinsv@r=\footinsdim
13245 \count\footinsv@r=1000\relax

```



```

13246 \m@make@para@footgroup{v@r}%
13247 \m@make@para@footstart{v@r}%
13248 \let\@footgroupv@r\@para@footgroupv@r
13249 \let\@footstartv@r\@para@footstartv@r
13250 \dimen\footinsv@l=\footinsdim
13251 \count\footinsv@l=1000\relax
13252 \bidi@make@para@LTRfootgroup{v@l}%
13253 \m@make@para@footstart{v@l}%
13254 \bidi@make@para@footstart@@{v@l}%
13255 \let\@LTRfootgroupv@l\@para@LTRfootgroupv@l
13256 \let\@footstartv@l\@para@footstartv@l
13257 \let\@@footstart@@v@l\@@para@footstart@@v@l
13258 \let\@mpfootnotetext\@mpparafootnotetext
13259 \let\@mpLTRfootnotetext\@mpparaLTRfootnotetext
13260 \let\@mpRTLfootnotetext\@mpparaRTLfootnotetext
13261 \@bidi@after@Hy@hyperfootnotes
13262 \m@make@mppara@footgroup{v@r}%
13263 \bidi@make@mppara@LTRfootgroup{v@l}%
13264 \let\mp@footgroupv@r\@mppara@footgroupv@r
13265 \let\mp@LTRfootgroupv@l\@mppara@LTRfootgroupv@l
13266 \g@addto@macro\bidi@floathook{%
13267   \begingroup
13268     \foottextfont \@tempdima\normalbaselineskip
13269     \multiply \@tempdima \@cclvi
13270     \@tempdimb \columnwidth
13271     \divide \@tempdimb \@cclvi
13272     \divide \@tempdima \@tempdimb
13273     \xdef\footfudgefactor{\strip@pt\@tempdima}%
13274   \endgroup
13275 }
13276 \AtBeginDocument{%
13277   \begingroup
13278     \foottextfont
13279     \@tempdima\footnotesep
13280     \advance\@tempdima -\ht\strutbox
13281     \ifdim\@tempdima<\z@ \@tempdima\z@ \fi
13282     \advance\@tempdima.5\normalbaselineskip
13283     \bidi@xparaskip
13284     \xdef\bidi@paraskip{\the\@tempdima\relax}%
13285   \endgroup
13286 }
13287 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
13288 }
13289 \newcommand{\normalRTLparaLTRfootnotes}{%
13290   \@namedef{foottextfontv@r}{\foottextfont}%
13291   \@bidi@before@Hy@hyperfootnotes
13292   \if@RTL@footnote
13293     \let\@footnotetext\m@mold@footnotetext
13294   \else
13295     \let\@footnotetext\@parafootnotetext
13296   \fi
13297   \let\@LTRfootnotetext\@paraLTRfootnotetext
13298   \let\@RTLfootnotetext\m@mold@RTLfootnotetext
13299   \dimen\footinsv@r=\footinsdim

```



```

13300 \count\footinsv@r=1000\relax
13301 \m@make@para@footgroup{v@r}%
13302 \m@make@para@footstart{v@r}%
13303 \let\@footgroupv@r\@para@footgroupv@r
13304 \let\@footstartv@r\@para@footstartv@r
13305 \dimen\footinsv@l=\footinsdim
13306 \count\footinsv@l=1000\relax
13307 \bidi@make@para@LTRfootgroup{v@l}%
13308 \m@make@para@footstart{v@l}%
13309 \bidi@make@para@footstart@@{v@l}%
13310 \let\@LTRfootgroupv@l\@para@LTRfootgroupv@l
13311 \let\@footstartv@l\@para@footstartv@l
13312 \let\@@footstart@@v@l\@para@footstart@@v@l
13313 \if@RTL@footnote
13314 \let\@mpfootnotetext\m@mold@mpfootnotetext
13315 \else
13316 \let\@mpfootnotetext\@mpparafootnotetext
13317 \fi
13318 \let\@mpLTRfootnotetext\@mpparaLTRfootnotetext
13319 \let\@mpRTLfootnotetext\m@mold@mpRTLfootnotetext
13320 \@bidi@after@Hy@hyperfootnotes
13321 \m@make@mppara@footgroup{v@r}%
13322 \bidi@make@mppara@LTRfootgroup{v@l}%
13323 \let\mp@footgroupv@r\@mppara@footgroupv@r
13324 \let\mp@LTRfootgroupv@l\@mppara@LTRfootgroupv@l
13325 \g@addto@macro\bidi@floathook{%
13326 \beginingroup
13327 \LTRfoottextfont \@tempdima\normalbaselineskip
13328 \multiply \@tempdima \@cclvi
13329 \@tempdimb \columnwidth
13330 \divide \@tempdimb \@cclvi
13331 \divide \@tempdima \@tempdimb
13332 \xdef\footfudgefactor{\strip@pt\@tempdima}%
13333 \endgroup
13334 }
13335 \AtBeginDocument{%
13336 \beginingroup
13337 \LTRfoottextfont
13338 \@tempdima\footnotesep
13339 \advance\@tempdima -\ht\strutbox
13340 \ifdim\@tempdima<\z@ \@tempdima\z@ \fi
13341 \advance\@tempdima.5\normalbaselineskip
13342 \bidi@xparaskip
13343 \xdef\bidi@paraskip{\the\@tempdima\relax}%
13344 \endgroup
13345 }
13346 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
13347 }
13348 \bidi@ensure@newcommand{\@parafootnotetext}[1]{\insert
13349 \if@RTL@footnote
13350 \footinsv@r
13351 \else
13352 \footinsv@l
13353 \fi

```



```

13354 {%
13355 \let\bid@RTL@everypar\@empty%
13356 \def\baselinestretch{\m@mm@footnote@spacing}%
13357 \reset@font\foottextfont
13358 \@preamfntext
13359 \protected@edef\@currentlabel{%
13360 \csname p@footnote\endcsname\@thefnmark}%
13361 \setbox0=\vbox{\hsize=\maxdimen
13362 \color@begingroup
13363 \noindent \@parafootfmt{#1}%
13364 \color@endgroup}%
13365 \m@mmungebox}\m@mmf@prepare}
13366 \bid@ensure@newcommand{\@paraLTRfootnotetext}[1]{\insert\footinsv@l{%
13367 \let\bid@RTL@everypar\@empty%
13368 \def\baselinestretch{\m@mm@footnote@spacing}%
13369 \reset@font\LTRfoottextfont
13370 \@preamfntext
13371 \protected@edef\@currentlabel{%
13372 \csname p@footnote\endcsname\@thefnmark}%
13373 \setbox0=\vbox{\hsize=\maxdimen
13374 \color@begingroup
13375 \noindent \@paraLTRfootfmt{#1}%
13376 \color@endgroup}%
13377 \m@mmungebox}\m@mmf@prepare}
13378 \bid@ensure@newcommand{\@paraRTLfootnotetext}[1]{\insert\footinsv@r{%
13379 \let\bid@RTL@everypar\@empty%
13380 \def\baselinestretch{\m@mm@footnote@spacing}%
13381 \reset@font\RTLfoottextfont
13382 \@preamfntext
13383 \protected@edef\@currentlabel{%
13384 \csname p@footnote\endcsname\@thefnmark}%
13385 \setbox0=\vbox{\hsize=\maxdimen
13386 \color@begingroup
13387 \noindent \@paraRTLfootfmt{#1}%
13388 \color@endgroup}%
13389 \m@mmungebox}\m@mmf@prepare}
13390 \bid@ensure@newcommand{\@parafootfmt}[1]{%
13391 \parindent=\z@
13392 \parfillskip=0pt \@plus 1fil
13393 {\footfootmark\strut {\foottextfont #1}\penalty-10}}
13394 \bid@ensure@newcommand{\@paraLTRfootfmt}[1]{%
13395 \parindent=\z@
13396 \parfillskip=0pt \@plus 1fil
13397 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\penalty-10}}
13398 \bid@ensure@newcommand{\@paraRTLfootfmt}[1]{%
13399 \parindent=\z@
13400 \parfillskip=0pt \@plus 1fil
13401 {\RTLfootfootmark\strut {\RTLfoottextfont #1}\penalty-10}}
13402 \bid@ensure@newcommand{\@mpparafootnotetext}[1]{%
13403 \global\setbox
13404 \if@RTL@footnote
13405 \@mpfootinsv@r
13406 \else
13407 \@mpfootinsv@l

```



```

13408 \fi
13409 \vbox{%
13410   \let\bidir@RTL@everypar\@empty%
13411   \def\baselinestretch{\m@m@footnote@spacing}%
13412   \unvbox
13413   \if@RTL@footnote
13414     \@mpfootinsv@r
13415   \else
13416     \@mpfootinsv@l
13417   \fi
13418   \reset@font\foottextfont
13419   \hsize\columnwidth \@parboxrestore
13420   \protected@edef\@currentlabel{%
13421     \csname p@mpfootnote\endcsname\@thefnmark}%
13422   \setbox0=\vbox{\hsize=\maxdimen
13423     \color@begingroup
13424     \noindent \@parafootfmt{#1}%
13425     \color@endgroup}%
13426   \m@mungebox}\m@mmf@prepare}
13427 \bidi@ensure@newcommand{\@mpparaLTRfootnotetext}[1]{%
13428   \global\setbox\@mpfootinsv@l\vbox{%
13429     \let\bidir@RTL@everypar\@empty%
13430     \def\baselinestretch{\m@m@footnote@spacing}%
13431     \unvbox\@mpfootinsv@l
13432     \reset@font\LTRfoottextfont
13433     \hsize\columnwidth \@parboxrestore
13434     \protected@edef\@currentlabel{%
13435       \csname p@mpfootnote\endcsname\@thefnmark}%
13436     \setbox0=\vbox{\hsize=\maxdimen
13437       \color@begingroup
13438       \noindent \@paraLTRfootfmt{#1}%
13439       \color@endgroup}%
13440     \m@mungebox}\m@mmf@prepare}
13441 \bidi@ensure@newcommand{\@mpparaRTLfootnotetext}[1]{%
13442   \global\setbox\@mpfootinsv@r\vbox{%
13443     \let\bidir@RTL@everypar\@empty%
13444     \def\baselinestretch{\m@m@footnote@spacing}%
13445     \unvbox\@mpfootinsv@r
13446     \reset@font\RTLfoottextfont
13447     \hsize\columnwidth \@parboxrestore
13448     \protected@edef\@currentlabel{%
13449       \csname p@mpfootnote\endcsname\@thefnmark}%
13450     \setbox0=\vbox{\hsize=\maxdimen
13451       \color@begingroup
13452       \noindent \@paraRTLfootfmt{#1}%
13453       \color@endgroup}%
13454     \m@mungebox}\m@mmf@prepare}
13455 \bidi@ensure@newcommand{\m@make@para@footgroup}[1]{%
13456   \@namedef{\@para@footgroup#1}{%
13457     \unvbox\@nameuse{footins#1}
13458     \@RTLtrue
13459     \m@makehboxofhboxes
13460     \setbox0=\hbox{\unhbox0 \m@removehboxes}%
13461     \hsize\bidir@columnwidth

```



```

13462 \@parboxrestore
13463 \def\baselinestretch{\m@m@footnote@spacing}%
13464 \@nameuse{foottextfont#1}%
13465 \noindent\unhbox0\par}}
13466 \bidi@ensure@newcommand{\bidi@make@para@LTRfootgroup}[1]{%
13467 \@namedef{@para@LTRfootgroup#1}{%
13468 \unvbox\@nameuse{footins#1}
13469 \@RTLfalse
13470 \m@mmakehboxofhboxes
13471 \setbox0=\hbox{\unhbox0 \m@mremovehboxes}%
13472 \hsize\bidi@columnwidth
13473 \@parboxrestore
13474 \def\baselinestretch{\m@m@footnote@spacing}%
13475 \@nameuse{foottextfont#1}%
13476 \noindent\unhbox0\par}}
13477 \bidi@ensure@newcommand{\m@m@make@mppara@footgroup}[1]{%
13478 \@namedef{@mppara@footgroup#1}{%
13479 \unvbox\@nameuse{@mpfootins#1}
13480 \@RTLtrue
13481 \m@mmakehboxofhboxes
13482 \setbox0=\hbox{\unhbox0 \m@mremovehboxes}%
13483 \def\baselinestretch{\m@m@footnote@spacing}%
13484 \@nameuse{foottextfont#1}%
13485 \noindent\unhbox0\par}}
13486 \bidi@ensure@newcommand{\bidi@make@mppara@LTRfootgroup}[1]{%
13487 \@namedef{@mppara@LTRfootgroup#1}{%
13488 \unvbox\@nameuse{@mpfootins#1}
13489 \@RTLfalse
13490 \m@mmakehboxofhboxes
13491 \setbox0=\hbox{\unhbox0 \m@mremovehboxes}%
13492 \def\baselinestretch{\m@m@footnote@spacing}%
13493 \@nameuse{foottextfont#1}%
13494 \noindent\unhbox0\par}}
13495 \bidi@ensure@newcommand{\m@m@make@para@footstart}[1]{%
13496 \@namedef{@para@footstart#1}{%
13497 \if@bidi@void@footins
13498 \bidi@mopfn@bottom
13499 \fi
13500 \leftskip=\z@
13501 \rightskip=\z@
13502 \parindent=\z@
13503 \vskip\skip\footins
13504 \if@bidi@void@footins
13505 \footnoterule
13506 \fi}}
13507 \bidi@ensure@newcommand{\bidi@make@para@footstart@@}[1]{%
13508 \@namedef{@@para@footstart@@#1}{%
13509 \leftskip=\z@
13510 \rightskip=\z@
13511 \parindent=\z@
13512 \vskip\skip\footins}}
13513 \bidi@ensure@newcommand*{\m@m@makecolfloats}{%
13514 \xdef\@freelist{\@freelist\@midlist}%
13515 \global\let\@midlist\@empty

```



```

13516 \@combinefloats}
13517 \bidi@ensure@newcommand*{\m@m@makecoltext}{%
13518 \ifvbox\@kludgeins
13519 \@makespecialcolbox
13520 \else
13521 \setbox\@outputbox \vbox to\@colht{%
13522 \@texttop
13523 \dimen@ \dp\@outputbox
13524 \unvbox \@outputbox
13525 \vskip -\dimen@
13526 \@textbottom}%
13527 \fi}
13528 \bidi@ensure@newcommand*{\m@m@makecolintro}{%
13529 \bidi@ensure@newcommand*{\m@mopfootnote}{\setbox\@outputbox \vbox{%
13530 \boxmaxdepth\@maxdepth
13531 \@tempdima\dp\@cclv
13532 \unvbox\@cclv
13533 \vskip-\@tempdima
13534 \bidi@mopfn@bottom
13535 \vskip \skip\footins
13536 \color@begingroup
13537 \normalcolor
13538 \footnoterule
13539 \unvbox \footins
13540 \color@endgroup
13541 }%
13542 }
13543 \newcommand*{\bidi@mopfootnotebf}{%
13544 \setbox\@outputbox \vbox{%
13545 \boxmaxdepth\@maxdepth
13546 \unvbox\@outputbox
13547 \bidi@mopfn@bottom
13548 \vskip\skip\footins
13549 \color@begingroup
13550 \normalcolor
13551 \footnoterule
13552 \unvbox \footins
13553 \color@endgroup
13554 }%
13555 }
13556 \gdef\mem@m@makecol{%
13557 \m@m@makecolintro
13558 \ifvoid\footins
13559 \global\@bidi@void@footintrue
13560 \setbox\@outputbox \box\@cclv
13561 \else
13562 \global\@bidi@void@footinsfalse
13563 \m@mopfootnote
13564 \fi
13565 \m@m@doextrafeet
13566 \m@m@makecolfloats
13567 \m@m@makecoltext
13568 \global \maxdepth \@maxdepth}
13569 \gdef\bidi@makecolbf{%

```



```

13570 \m@m@makecolintro
13571 \setbox\@outputbox \box\@cclv
13572 \m@m@makecolfloats
13573 \ifvoid\footins
13574   \global\@bidi@void@footinstrue
13575 \else
13576   \global\@bidi@void@footinsfalse
13577   \bidi@mopfootnotebf
13578 \fi
13579 \m@m@doextrafeet
13580 \m@m@makecoltext
13581 \global \maxdepth \@maxdepth}
13582 \newcommand{\FeetAboveFloat}{\gdef\@makecol{\mem@makecol}}
13583 \newcommand{\FeetBelowFloat}{\gdef\@makecol{\bidi@makecolbf}}
13584 \newcommand\FeetAtBottom{\def\bidi@mopfn@bottom{\vfill\relax}}
13585 \newcommand\FeetBelowRagged{\let\bidi@mopfn@bottom\relax}
13586 \FeetAboveFloat
13587 \FeetBelowRagged
13588 \AtBeginDocument{%
13589   \bidi@floathook
13590 }

```

## 87 File extreport-xetex-bidi.def

```

13591 \ProvidesFile{extreport-xetex-bidi.def}[2017/06/09 v0.3 bidi adaptations for extreport class]
13592 \renewcommand*\l@part[2]{%
13593   \ifnum \c@tocdepth >-2\relax
13594     \addpenalty{-\@highpenalty}%
13595     \addvspace{2.25em \@plus\p@}%
13596     \begingroup
13597       \setlength\@tempdima{3em}%
13598       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
13599       \parfillskip -\@pnumwidth
13600       {\leavevmode
13601         \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
13602       \nobreak
13603       \global\@nobreaktrue
13604       \everypar{\global\@nobreakfalse\everypar{}}%
13605     \endgroup
13606   \fi}
13607 \renewcommand*\l@chapter[2]{%
13608   \ifnum \c@tocdepth >\m@ne
13609     \addpenalty{-\@highpenalty}%
13610     \vskip 1.0em \@plus\p@
13611     \setlength\@tempdima{1.5em}%
13612     \begingroup
13613       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
13614       \parfillskip -\@pnumwidth
13615       \leavevmode \bfseries
13616       \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
13617       \hskip -\if@RTL\rightskip\else\leftskip\fi
13618       #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
13619       \penalty\@highpenalty
13620     \endgroup

```



```

13621 \fi}
13622 \def\@makechapterhead#1{%
13623 \vspace*{50\p@}%
13624 {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont
13625 \ifnum \c@secnumdepth >\m@ne
13626 \huge\bfseries \@chapapp\space \thechapter
13627 \par\nobreak
13628 \vskip 20\p@
13629 \fi
13630 \interlinepenalty\@M
13631 \Huge \bfseries #1\par\nobreak
13632 \vskip 40\p@
13633 }}
13634 \def\@makeschapterhead#1{%
13635 \vspace*{50\p@}%
13636 {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
13637 \normalfont
13638 \interlinepenalty\@M
13639 \Huge \bfseries #1\par\nobreak
13640 \vskip 40\p@
13641 }}
13642 \renewcommand\left@footnoterule{%
13643 \kern-3\p@
13644 \hrule\@width.4\columnwidth
13645 \kern2.6\p@}
13646 \renewcommand\right@footnoterule{%
13647 \kern-3\p@
13648 \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
13649 \kern2.6\p@}
13650 \renewenvironment{thebibliography}[1]
13651 {\chapter*{\bibname
13652 \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}}%
13653 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
13654 \bidi@thebibliography@font@hook%
13655 \list{\biblabel{\@arabic\c@enumiv}}%
13656 {\settowidth\labelwidth{\biblabel{#1}}%
13657 \leftmargin\labelwidth
13658 \advance\leftmargin\labelsep
13659 \@openbib@code
13660 \usecounter{enumiv}%
13661 \let\p@enumiv\@empty
13662 \renewcommand\theenumiv{\@arabic\c@enumiv}}%
13663 \sloppy\clubpenalty4000\widowpenalty4000%
13664 \sfcode\.\@m}
13665 {\def\@noitemerr
13666 {\@latex@warning{Empty `thebibliography' environment}}}%
13667 \endlist}
13668 \if@titlepage
13669 \renewcommand\maketitle{\begin{titlepage}%
13670 \let\footnotesize\small
13671 \let\right@footnoterule\relax
13672 \let\left@footnoterule\relax
13673 \let\textwidth\footnoterule\relax
13674 \let \footnote \thanks

```



```

13675 \null\vfil
13676 \vskip 60\p@
13677 \begin{center}%
13678   {\LARGE \@title \par}%
13679   \vskip 3em%
13680   f\large
13681   \lineskip .75em%
13682   \begin{tabular}[t]{c}%
13683     \@author
13684   \end{tabular}\par}%
13685   \vskip 1.5em%
13686   f\large \@date \par}%      % Set date in \large size.
13687 \end{center}\par
13688 \@thanks
13689 \vfil\null
13690 \end{titlepage}%
13691 \setcounter{footnote}{0}%
13692 \global\let\thanks\relax
13693 \global\let\maketitle\relax
13694 \global\let\@thanks\@empty
13695 \global\let\@author\@empty
13696 \global\let\@date\@empty
13697 \global\let\@title\@empty
13698 \global\let\title\relax
13699 \global\let\author\relax
13700 \global\let\date\relax
13701 \global\let\and\relax
13702 }
13703 \else
13704 \renewcommand\maketitle{\par
13705   \begingroup
13706     \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
13707     \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
13708     \long\def\@makefntext##1{\parindent 1em\noindent
13709       \hb@xt@1.8em{%
13710         \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
13711     \if@twocolumn
13712       \ifnum \col@number=\@one
13713         \@maketitle
13714       \else
13715         \twocolumn[\@maketitle]%
13716       \fi
13717     \else
13718       \newpage
13719       \global\@topnum\z@      % Prevents figures from going at top of page.
13720       \@maketitle
13721     \fi
13722     \thispagestyle{plain}\@thanks
13723   \endgroup
13724   \setcounter{footnote}{0}%
13725   \global\let\thanks\relax
13726   \global\let\maketitle\relax
13727   \global\let\@maketitle\relax
13728   \global\let\@thanks\@empty

```



```

13729 \global\let\@author\@empty
13730 \global\let\@date\@empty
13731 \global\let\@title\@empty
13732 \global\let\title\relax
13733 \global\let\author\relax
13734 \global\let\date\relax
13735 \global\let\and\relax
13736 }
13737 \def\@maketitle{%
13738 \newpage
13739 \null
13740 \vskip 2em%
13741 \begin{center}%
13742 \let \footnote \thanks
13743 {\LARGE \@title \par}%
13744 \vskip 1.5em%
13745 {\large
13746 \lineskip .5em%
13747 \begin{tabular}[t]{c}%
13748 \@author
13749 \end{tabular}\par}%
13750 \vskip 1em%
13751 {\large \@date}%
13752 \end{center}%
13753 \par
13754 \vskip 1.5em}
13755 \fi
13756 \renewcommand\thesection {\thechapter\@SepMark\@arabic\c@section}
13757 \renewcommand\thesubsection {\thesection\@SepMark\@arabic\c@subsection}
13758 \renewcommand\thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
13759 \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
13760 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
13761 \renewcommand\theequation{%
13762 \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@equation}
13763 \renewcommand\thefigure{%
13764 \ifnum \c@chapter>\z@\thechapter\@SepMark\fi \@arabic\c@figure}
13765 \renewcommand\thetable{%
13766 \ifnum \c@chapter>\z@\thechapter\@SepMark\fi\@arabic\c@table}

```

## 88 File fancybox-xetex-bidi.def

```

13767 \ProvidesFile{fancybox-xetex-bidi.def}[2013/05/01 v0.1 bidi adaptations for fancybox package]
13768 \def\fancy@oval#1#2#3{%
13769 \boxmaxdepth \maxdimen
13770 \@ovttrue \@ovbtrue \@ovltrue \@ovrtrue
13771 \@tfor\@tempa :=#3\do{\csname @ov\@tempa false\endcsname}%
13772 \@ovxx#1\relax
13773 \advance\@ovxx-\@wholewidth
13774 \@ovyy#2\relax
13775 \advance\@ovyy-\@wholewidth
13776 \@tempdimb \ifdim \@ovyy >\@ovxx \@ovxx \@ovxx\else \@ovyy \fi
13777 \advance\@tempdimb-2\p@
13778 \ifdim\@tempdimb>\the@cornersize\relax
13779 \@tempdimb=\the@cornersize

```



```

13780 \fi
13781 \@getcirc\@tempdimb
13782 \@ovro\ht\@tempboxa \@ovri\dp\@tempboxa
13783 \@ovdx\@ovxx \advance\@ovdx-\@tempdima \divide\@ovdx \tw@
13784 \@ovdy\@ovyy \advance\@ovdy-\@tempdima \divide\@ovdy \tw@
13785 \@circlefnt
13786 \setbox\@tempboxa\hbox{\beginL%
13787   \if@ovr \@ovvert32\kern -\@tempdima \fi
13788   \if@ovl \kern \@ovxx \@ovvert01\kern -\@tempdima \kern -\@ovxx \fi
13789   \if@ovt \@ovhorz \kern -\@ovxx \fi
13790   \if@ovb \raise \@ovyy \@ovhorz \fi\endL}%
13791 \advance\@ovdx\@ovro
13792 \advance\@ovdy\@ovro
13793 \advance\@ovxx\@wholewidth
13794 \wd\@tempboxa=\@ovxx
13795 \dp\@tempboxa=\z@}

```

## 89 File fancyhdr-xetex-bidi.def

```

13796 \ProvidesFile{fancyhdr-xetex-bidi.def}[2018/02/15 v0.7 bidi adaptations for fancyhdr package]
13797
13798 \let\f@nch@everypar\everypar
13799
13800 \def\f@nch@head#1#2#3#4#5{#1\hbox to\headwidth{\f@nch@reset
13801   \f@nch@vbox\headheight{\hbox
13802     {\rlap{\parbox[b]{\headwidth}{\bidi@raggedright#2}}\hfill
13803       \parbox[b]{\headwidth}{\centering#3}\hfill
13804       \llap{\parbox[b]{\headwidth}{\bidi@raggedleft#4}}}\headrule}}#5}
13805
13806 \def\f@nch@foot#1#2#3#4#5{#1\hbox to\headwidth{\f@nch@reset
13807   \f@nch@vbox\footskip{\footrule
13808     \hbox{\rlap{\parbox[t]{\headwidth}{\bidi@raggedright#2}}\hfill
13809       \parbox[t]{\headwidth}{\centering#3}\hfill
13810       \llap{\parbox[t]{\headwidth}{\bidi@raggedleft#4}}}\footrule}}#5}
13811

```

## 90 File fix2col-xetex-bidi.def

```

13812 \ProvidesFile{fix2col-xetex-bidi.def}[2017/05/06 v0.4 bidi adaptations for fix2col package]
13813 \def\RTL@outputdblcol{%
13814   \if@firstcolumn
13815     \global\@firstcolumnfalse
13816     \global\setbox\@leftcolumn\copy\@outputbox
13817     \splitmaxdepth\maxdimen
13818     \vbadness\maxdimen
13819     \setbox\@outputbox\vsplit\@outputbox to\maxdimen
13820     \toks@{\expandafter{\topmark}}%
13821     \xdef\@firstcoltopmark{\the\toks@}%
13822     \toks@\expandafter{\splitfirstmark}%
13823     \xdef\@firstcolfirstmark{\the\toks@}%
13824     \ifx\@firstcolfirstmark\empty
13825       \global\let\@setmarks\relax
13826     \else
13827       \gdef\@setmarks{%

```



```

13828      \let\firstmark\@firstcolfirstmark
13829      \let\topmark\@firstcoltopmark}%
13830    \fi
13831  \else \global\@firstcolumntrue
13832  \setbox\@outputbox \vbox {\hbox to\textwidth {%
13833    \hskip \columnwidth
13834    \hfil \vrule width\columnseprule \hfil
13835    \hbox to\columnwidth {%
13836      \bidi@firstcolumn@status@write%
13837      \box\@leftcolumn \hss}%
13838    \hskip -\textwidth
13839    \hbox to\columnwidth{%
13840      \bidi@lastcolumn@status@write%
13841      \box\@outputbox \hss}%
13842    \hskip \columnsep
13843    \hskip \columnwidth }}%
13844  \@combinedblfloats \setmarks \@outputpage
13845  \begingroup \@dblfloatplacement \startdblcolumn
13846  \@whiles\if@fcolmade \fi
13847  {\@outputpage \startdblcolumn }\endgroup
13848  \fi}
13849  \def\LTR@outputdblcol{%
13850    \if@firstcolumn
13851      \global\@firstcolumnfalse
13852      \global\setbox\@leftcolumn\copy\@outputbox
13853      \splitmaxdepth\maxdimen
13854      \vbadness\maxdimen
13855      \setbox\@outputbox\vsplit\@outputbox to\maxdimen
13856      \toks@\expandafter{\topmark}%
13857      \xdef\@firstcoltopmark{\the\toks@}%
13858      \toks@\expandafter{\splitfirstmark}%
13859      \xdef\@firstcolfirstmark{\the\toks@}%
13860      \ifx\@firstcolfirstmark\@empty
13861        \global\let\@setmarks\relax
13862      \else
13863        \gdef\@setmarks{%
13864          \let\firstmark\@firstcolfirstmark
13865          \let\topmark\@firstcoltopmark}%
13866      \fi
13867  \else
13868    \global\@firstcolumntrue
13869    \setbox\@outputbox\vbox{%
13870      \hb@xt@\textwidth{%
13871        \hb@xt@\columnwidth{%
13872          \bidi@firstcolumn@status@write%
13873          \box\@leftcolumn \hss}%
13874        \hfil
13875        \vrule \@width\columnseprule
13876        \hfil
13877        \hb@xt@\columnwidth{%
13878          \bidi@lastcolumn@status@write%
13879          \box\@outputbox \hss}}}%
13880    \@combinedblfloats
13881    \setmarks

```



```

13882 \outputpage
13883 \begingroup
13884 \dblfloatplacement
13885 \startdblcolumn
13886 \whilesw@ifcolmade \fi{\outputpage\startdblcolumn}%
13887 \endgroup
13888 \fi}

```

## 91 File fleqn-xetex-bidi.def

```

13889 \ProvidesFile{fleqn-xetex-bidi.def}[2010/03/01 v0.1 bidi adaptations for fleqn tag for XeTeX]
13890 \renewcommand\[\relax
13891 \ifmmode\@badmath
13892 \else
13893 \begin{trivlist}%
13894 \beginparpenalty\predisplaypenalty
13895 \endparpenalty\postdisplaypenalty
13896 \item[]\leavevmode
13897 \hb@xt@\linewidth\group \beginL$\m@th\displaystyle %$
13898 \hskip\mathindent\group
13899 \fi}
13900 \renewcommand\]{\relax
13901 \ifmmode
13902 \egroup $\hfil% $
13903 \endL\egroup
13904 \end{trivlist}%
13905 \else \@badmath
13906 \fi}
13907 \renewenvironment{equation}%
13908 {\beginparpenalty\predisplaypenalty
13909 \endparpenalty\postdisplaypenalty
13910 \refstepcounter{equation}%
13911 \trivlist \item[]\leavevmode
13912 \hb@xt@\linewidth\group\beginL $\m@th% $
13913 \displaystyle
13914 \hskip\mathindent}%
13915 {$\hfil % $
13916 \displaywidth\linewidth\hbox{\@eqnnum}%
13917 \endL\egroup
13918 \endtrivlist}

```

## 92 File float-xetex-bidi.def

```

13919 \ProvidesFile{float-xetex-bidi.def}[2013/04/04 v0.2 bidi adaptations for float package for XeTeX]
13920 \renewcommand\floatc@plain[2]{\setbox\@tempboxa\hbox{\@fs@cfont #1:} #2}%
13921 \ifdim\wd\@tempboxa>\hsize {\@fs@cfont #1:} #2\par
13922 \else\hbox to\hsize{\ifRTL\beginR\fi\hfil\box\@tempboxa\hfil\ifRTL\endR\fi}\fi}
13923 \def\float@newx#1[#2]{\ifundefined{c@#1}{\newcounter{#1}[#2]%
13924 \expandafter\edef\csname the#1\endcsname{%
13925 \expandafter\noexpand\csname
13926 the#2\endcsname\@SepMark\noexpand\arabic{#1}}}%
13927 {\PackageWarning{float}{Can't redefine counter variable for #1.}}}

```



## 93 File floatrow-xetex-bidi.def

```
13928 \ProvidesFile{floatrow-xetex-bidi.def}[2013/04/08 v0.1 bidi adaptations for floatrow package]
13929 \renewcommand\flnew@within[1]{\@addtoreset{FB@capttype}{#1}%
13930 \expandafter\edef\csname the\FB@capttype\endcsname{%
13931 \expandafter\noexpand\csname
13932 the#1\endcsname\@SepMark\noexpand\arabic{FB@capttype}}}
```

## 94 File flowfram-xetex-bidi.def

```
13933 \ProvidesFile{flowfram-xetex-bidi.def}[2018/09/29 v0.5 bidi adaptations for flowfram package]
13934 \def\@outputdblcol{%
13935 \nxtcol=\c@thisframe
13936 \c@curpg=\c@page
13937 \g@tnextcol{\nxtcol}%
13938 \if@ff@nwpg % next flow frame starts on new page
13939 \global\@firstcolumntrue
13940 \setcolbox\c@thisframe
13941 \if@specialpage
13942 \global\@specialpagefalse
13943 \nameuse{ps@\@specialstyle}\relax
13944 \fi
13945 \if@twoside
13946 \ifodd\count\z@
13947 \let\@thehead\@oddhead
13948 \let\@thefoot\@oddfoot
13949 \else
13950 \let\@thehead\@evenhead
13951 \let\@thefoot\@evenfoot
13952 \fi
13953 \else
13954 \let\@thehead\@oddhead
13955 \let\@thefoot\@oddfoot
13956 \fi
13957 \@begindvi
13958 \dodynamicthehead\@dynamicthefoot
13959 \vbadness=\@M
13960 \setbox\@outputbox\vbox{\hbox to \textwidth{\@ff@do@allframes}}%
13961 \combinedblfloats
13962 \outputpage
13963 \advance\c@curpg by -\c@page\relax
13964 \whiledo{\c@curpg>0}{\advance\c@curpg by -1\relax
13965 \setbox\@outputbox\vbox{\hbox to \textwidth{\@ff@do@allframes}}%
13966 \outputpage}
13967 \begingroup
13968 \dblfloatplacement
13969 \startdblcolumn
13970 \whilesw \if@fcolmade \fi
13971 {\@outputpage \startdblcolumn }\endgroup
13972 \resetst@tics
13973 \resetdyn@mics
13974 \else % still on same page, save contents of box255
13975 \global\@firstcolumnfalse
13976 \setcolbox\c@thisframe
```



```

13977 \fi
13978 \global\c@thisframe=\@nxtcol
13979 \@setcol{\c@thisframe}\relax
13980 \global\@colht\vsizel
13981 }
13982 \def\@outputpage{%
13983 \beginingroup
13984 \let\protect\noexpand
13985 \@resetactivechars
13986 \global\let\@ifnewlist@ifnewlist
13987 \global\@newlistfalse\@parboxrestore
13988 \global\let\@bidi@BeforeOutputPageShipOut\@firstofone
13989 \bidi@beforeoutputpageshipouthook
13990 \shipout\vbox{\set@typeset@protect
13991 \aftergroup
13992 \endgroup
13993 \aftergroup
13994 \set@typeset@protect
13995 \reset@font\normalsize
13996 \bidi@font\@outputpage
13997 \normalsfcodes
13998 \let\label\@gobble
13999 \let\index\@gobble
14000 \let\glossary\@gobble
14001 \baselineskip\z@skip
14002 \lineskip\z@skip
14003 \lineskiplimit\z@
14004 \vskip\topmargin\moveright\@themargin
14005 \vbox{%
14006 \global\let\@bidi@BeforeHeader\@firstofone
14007 \bidi@beforeheaderhook
14008 \vskip\headheight
14009 \vskip\headsep
14010 \global\let\@bidi@BeforeOutputBoxOutputPage\@firstofone
14011 \bidi@beforeoutputboxoutputpagehook
14012 \box\@outputbox
14013 \global\let\@bidi@AfterOutputBoxOutputPage\@firstofone
14014 \bidi@afteroutputboxoutputpagehook
14015 }}%
14016 \global\let\@bidi@AfterOutputPageShipOut\@firstofone
14017 \bidi@afteroutputpageshipouthook
14018 \global\let\ifnewlist\@ifnewlist
14019 \stepcounter{page}%
14020 \setcounter{displayedframe}{0}%
14021 \let\firstmark\botmark
14022 \global\let\@bidi@AtEndOutputPage\@firstofone
14023 \bidi@atendoutputpagehook
14024 }
14025
14026
14027 \newcommand*\bidi@s@tfftextcol{\ifthenelse{\equal{\ff@txtcol}{}}{\}{}}{%
14028 \expandafter\bidicolor\ff@txtcol}}
14029
14030 \newcommand{\bidi@ff@box}[3]{\@ffbackground{\vbox to#2

```



```

14031 {\hb@xt@ #1{\hss{\bidi@s@tfftextcol #3}\hss}\vss\kern\z@}}}}
14032
14033
14034 \renewcommand*{\@docolbox}[1]{%
14035 \edef\ff@frametype{%
14036 \csname @ff@frametype@romannumeral#1\endcsname}%
14037 \edef\ff@col{\csname @ff@col@romannumeral#1\endcsname}%
14038 \edef\ff@txtcol{\csname @ff@txtcol@romannumeral#1\endcsname}%
14039 \edef\ff@backcol{\csname @ff@backcol@romannumeral#1\endcsname}%
14040 \@ff@setoffset{#1}%
14041 \rotateframe{\csname @ff@angle@romannumeral#1\endcsname}{%
14042 \ifthenelse{\boolean{columnframe\romannumeral#1}}{%
14043 \@ff@fbox{\csname colwidth\romannumeral#1\endcsname}%
14044 {\csname colheight\romannumeral#1\endcsname}{%
14045 \expandafter\box\csname column\romannumeral#1\endcsname}{%
14046 \csname\ff@frametype\endcsname}%
14047 }{%
14048 \bidi@ff@box{\csname colwidth\romannumeral#1\endcsname}%
14049 {\csname colheight\romannumeral#1\endcsname}{%
14050 \expandafter\box\csname column\romannumeral#1\endcsname}%
14051 }}}
14052 \@ifclassloaded{book}{%
14053 \renewcommand\theequation
14054 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
14055 \renewcommand \thefigure
14056 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
14057 \renewcommand \thetable
14058 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
14059 \renewcommand \thechapter {\@arabic\c@chapter}
14060 \renewcommand \thesection {\thechapter\@SepMark\@arabic\c@section}
14061 \renewcommand \thesubsection {\thesection\@SepMark\@arabic\c@subsection}
14062 \renewcommand \thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
14063 \renewcommand \theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
14064 \renewcommand \thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}}{}
14065 \@ifclassloaded{report}{%
14066 \renewcommand\theequation
14067 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
14068 \renewcommand \thefigure
14069 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
14070 \renewcommand \thetable
14071 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
14072 \renewcommand \thechapter {\@arabic\c@chapter}
14073 \renewcommand \thesection {\thechapter\@SepMark\@arabic\c@section}
14074 \renewcommand \thesubsection {\thesection\@SepMark\@arabic\c@subsection}
14075 \renewcommand \thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
14076 \renewcommand \theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
14077 \renewcommand \thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}}{}
14078 \renewcommand{\rotateframe}[2]{\if@ttb@rotate
14079 \rotatebox{#1}{\if@RTL\beginL\fi#2\if@RTL\endL\fi}%
14080 else
14081 #2\relax
14082 \fi}

```



## 95 File footnote-xetex-bidi.def

```

14083 \ProvidesFile{footnote-xetex-bidi.def}[2017/08/09 v1.1 bidi footnote macros for XeTeX engine
14084 \if@RTLmain\@RTL@footnotetrue\else\@RTL@footnotefalse\fi
14085 \newif\ifbidi@autofooterule
14086 \def\bidi@mpfootnoterule{\footnoterule}
14087 \newcounter{footdir@label}
14088 \renewcommand*{\thefootdir@label}{footdir@the\value{footdir@label}}
14089 \newcommand*{\footdir@write}{%
14090   \stepcounter{footdir@label}%
14091   \zref@labelbyprops{\thefootdir@label}{abspage}%
14092 }
14093 \newif\iffootdir@debug
14094 \newcommand*{\debugfootnotedirection}{\footdir@debugtrue}
14095 \newtoks\footdir@toks
14096 \newcommand*{\footdir@debug}[1]{%
14097   \iffootdir@debug
14098     \typeout{[footdir] #1}%
14099   \fi
14100 }
14101 %\@ifpackagelater{zref-abspage}{2012/10/27}{%
14102   \newcommand*{\footdir@LeftRightElse}{%
14103     \ltx@ifundefined{footdir@the\value{zabspage}}{%
14104       \footdir@debug{abspage \the\value{zabspage}: else}%
14105       \ltx@thirdofthree
14106     }{%
14107       \if\csname footdir@the\value{zabspage}\endcsname L%
14108         \footdir@debug{abspage \the\value{zabspage}: left}%
14109         \expandafter\ltx@firstofthree
14110       \else
14111         \footdir@debug{abspage \the\value{zabspage}: right}%
14112         \expandafter\ltx@secondofthree
14113       \fi
14114     }%
14115   }%
14116 }{%
14117   \providecommand*{\c@zabspage}{\c@abspage}%
14118   \newcommand*{\footdir@LeftRightElse}{%
14119     \footdir@write
14120     \zifrefundefined{\thefootdir@label}{%
14121       \footdir@debug{abspage ??: else}%
14122       \ltx@thirdofthree
14123     }{%
14124       \edef\footdir@abspage{%
14125         \zref@extractdefault{\thefootdir@label}{abspage}{0}%
14126       }%
14127       \ltx@ifundefined{footdir@\footdir@abspage}{%
14128         \footdir@debug{\footdir@abspage: else}%
14129         \ltx@thirdofthree
14130       }{%
14131         \if\csname footdir@\footdir@abspage\endcsname L%
14132           \footdir@debug{\footdir@abspage: left}%
14133           \expandafter\ltx@firstofthree
14134         \else

```



```

14135         \footdir@debug{\footdir@abspage: right}%
14136         \expandafter\ltx@secondofthree
14137         \fi
14138     }%
14139 }%
14140 }%
14141 %}
14142 \newcommand*{\footdir@fntext}[1]{%
14143     \zifrefundefined{\thefootdir@label}{%
14144     }{%
14145         \edef\footdir@name{%
14146             footdir@zref@extractdefault{\thefootdir@label}{abspage}{0}%
14147         }%
14148         \ifundefined{\footdir@name}{%
14149             \expandafter\gdef\csname\footdir@name\endcsname{#1}%
14150         }{}%
14151     }%
14152 }
14153
14154 \newcommand*{\footdir@temp}[3]{%
14155     \ifdefinable{#1}{%
14156         \let#1#2%
14157         \renewcommand{#2}[1]{%
14158             \footdir@write
14159             \footdir@fntext{#3}%
14160             \stepcounter{footdir@label}%
14161             \footdir@fntext{#3}%
14162             \footdir@toks{##1}%
14163             \footdir@toks\expandafter{%
14164                 \the\expandafter\footdir@toks
14165                 \expandafter
14166                 \zref@labelbyprops\expandafter{\thefootdir@label}{abspage}%
14167             }%
14168             \expandafter#1\expandafter{\the\footdir@toks}%
14169         }%
14170     }%
14171 }
14172
14173 \def\right@footnoterule{%
14174     \kern-3\p@
14175     \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
14176     \kern2.6\p@}
14177 \def\left@footnoterule{\kern-3\p@
14178     \hrule \@width .4\columnwidth \kern 2.6\p@}
14179 \def\textwidth@footnoterule{\kern-3\p@
14180     \hrule \@width \columnwidth \kern 2.6\p@}
14181 \def\leftfootnoterule{%
14182     \bidi@autofootnoterulefalse%
14183     \def\footnoterule{\left@footnoterule}}
14184 \let\LRfootnoterule=\leftfootnoterule
14185 \def\rightfootnoterule{%
14186     \bidi@autofootnoterulefalse%
14187     \def\footnoterule{\right@footnoterule}}
14188 \def\textwidthfootnoterule{%

```



```

14189 \bidi@autofootnoterulefalse%
14190 \def\footnoterule{\textwidth@footnoterule}}
14191
14192
14193
14194 \def\auto@footnoterule{%
14195 \footdir@LeftRightElse%
14196 \left@footnoterule%
14197 \right@footnoterule%
14198 \left@footnoterule%
14199 }
14200
14201
14202
14203 \def\autofootnoterule{%
14204 \bidi@autofootnoteruletrue%
14205 \def\footnoterule{\auto@footnoterule}%
14206 }
14207
14208 \newcommand*{\SplitFootnoteRule}{%
14209 \gdef\split@prev{0}
14210 \let\pagefootnoterule\footnoterule
14211 \let\mpfootnoterule\footnoterule
14212 \def\splitfootnoterule{\kern-3\p@ \hrule \kern2.6\p@}
14213 \def\footnoterule{\relax
14214 \ifx \@listdepth\@mplistdepth
14215 \mpfootnoterule
14216 \else
14217 \ifnum\split@prev=\z@
14218 \pagefootnoterule
14219 \else
14220 \splitfootnoterule
14221 \fi
14222 \xdef\split@prev{\the\insertpenalties}%
14223 \fi
14224 }%
14225 }
14226
14227
14228
14229
14230 \def\RTLfootnote{\@ifnextchar[\@xRTLfootnote{\stepcounter\@mpfn
14231 \protected@xdef\@thefnmark{\thempfn}%
14232 \@footnotemark\@RTLfootnotetext}}
14233 \def\@xRTLfootnote[#1]{%
14234 \begingroup
14235 \csname c@\@mpfn\endcsname #1\relax
14236 \unrestored@protected@xdef\@thefnmark{\thempfn}%
14237 \endgroup
14238 \@footnotemark\@RTLfootnotetext}
14239 \def\LTRfootnote{\@ifnextchar[\@xLTRfootnote{\stepcounter\@mpfn
14240 \protected@xdef\@thefnmark{\thempfn}%
14241 \@footnotemark\@LTRfootnotetext}}
14242 \def\@xLTRfootnote[#1]{%

```



```

14243 \begingroup
14244 \csname c@\mpfn\endcsname #1\relax
14245 \unrestored@protected@xdef\@thefnmark{\thempfn}%
14246 \endgroup
14247 \@footnotemark\@LTRfootnotetext}
14248
14249
14250 \def\setfootnoteRL{\@RTLfootnotetrue}
14251 \def\unsetfootnoteRL{\@RTLfootnotefalse}
14252 \def\setfootnoteLR{\unsetfootnoteRL}
14253
14254 \newcommand*{\bidi@footnotetext@font}{\footnotesize}
14255 \newcommand*{\bidi@LTRfootnotetext@font}{\footnotesize}
14256 \newcommand*{\bidi@RTLfootnotetext@font}{\footnotesize}
14257
14258 \long\def\@footnotetext#1{\insert\footins{%
14259 \if@RTLfootnote\@RTLtrue\else\@RTLfalse\fi%
14260 \reset@font%
14261 \bidi@footnotetext@font% \reset@font\footnotesize
14262 \interlinepenalty\interfootnotelinepenalty
14263 \splittopskip\footnotesep
14264 \splitmaxdepth \dp\strutbox \floatingpenalty \MM
14265 \hsize\columnwidth \@parboxrestore
14266 \protected@edef\@currentlabel{%
14267 \csname p@footnote\endcsname\@thefnmark
14268 }%
14269 \color@begingroup
14270 \makefnintext{%
14271 \rule{z@footnotesep\ignorespaces#1\@finalstrut\strutbox}%
14272 \color@endgroup}}%
14273
14274
14275 \long\def\@RTLfootnotetext#1{\insert\footins{%
14276 \@RTLtrue%
14277 \reset@font%
14278 \bidi@RTLfootnotetext@font% \reset@font\footnotesize
14279 \interlinepenalty\interfootnotelinepenalty
14280 \splittopskip\footnotesep
14281 \splitmaxdepth \dp\strutbox \floatingpenalty \MM
14282 \hsize\columnwidth \@parboxrestore
14283 \protected@edef\@currentlabel{%
14284 \csname p@footnote\endcsname\@thefnmark
14285 }%
14286 \color@begingroup
14287 \makefnintext{%
14288 \rule{z@footnotesep\ignorespaces#1\@finalstrut\strutbox}%
14289 \color@endgroup}}%
14290
14291 \long\def\@LTRfootnotetext#1{\insert\footins{%
14292 \@RTLfalse%
14293 \reset@font%
14294 \bidi@LTRfootnotetext@font% \reset@font\footnotesize
14295 \interlinepenalty\interfootnotelinepenalty
14296 \splittopskip\footnotesep

```



```

14297 \splitmaxdepth \dp\strutbox \floatingpenalty \@MM
14298 \hsize\columnwidth \@parboxrestore
14299 \protected@edef\@currentlabel{%
14300 \csname p@footnote\endcsname\@thefnmark
14301 }%
14302 \color@begingroup
14303 \makefnintext{%
14304 \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}%
14305 \color@endgroup}}%
14306
14307 \AtBeginDocument{%
14308 \if@RTL@footnote
14309 \newcommand*{\bidi@footdir@footnote}{R}
14310 \else
14311 \newcommand*{\bidi@footdir@footnote}{L}
14312 \fi%
14313 }
14314
14315 \footdir@temp\footdir@ORG\bidi@footnotetext\@footnotetext{\bidi@footdir@footnote}%
14316 \footdir@temp\footdir@ORG\bidi@RTLfootnotetext\@RTLfootnotetext{R}%
14317 \footdir@temp\footdir@ORG\bidi@LTRfootnotetext\@LTRfootnotetext{L}%
14318
14319 \long\def\@mpRTLfootnotetext#1{%
14320 \ifbidi@autofootnoterule\ifnum\c@mpfootnote=\@ne\global\let\bidi@mpfootnoterule\right@footnote
14321 \global\setbox\@mpfootins\vbox{\@RTLtrue%
14322 \unvbox\@mpfootins
14323 \reset@font%
14324 \bidi@RTLfootnotetext@font% \reset@font\footnotesize
14325 \hsize\columnwidth
14326 \@parboxrestore
14327 \protected@edef\@currentlabel
14328 {\csname p@mpfootnote\endcsname\@thefnmark}%
14329 \color@begingroup
14330 \makefnintext{%
14331 \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}%
14332 \color@endgroup}}
14333 \long\def\@mpLTRfootnotetext#1{%
14334 \ifbidi@autofootnoterule\ifnum\c@mpfootnote=\@ne\global\let\bidi@mpfootnoterule\left@footnote
14335 \global\setbox\@mpfootins\vbox{\@RTLfalse%
14336 \unvbox\@mpfootins
14337 \reset@font%
14338 \bidi@LTRfootnotetext@font% \reset@font\footnotesize
14339 \hsize\columnwidth
14340 \@parboxrestore
14341 \protected@edef\@currentlabel
14342 {\csname p@mpfootnote\endcsname\@thefnmark}%
14343 \color@begingroup
14344 \makefnintext{%
14345 \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}%
14346 \color@endgroup}}
14347 \long\def\@mpfootnotetext#1{%
14348 \ifbidi@autofootnoterule\ifnum\c@mpfootnote=\@ne\if@RTL@footnote\global\let\bidi@mpfootnoterule\right@footnote
14349 \global\setbox\@mpfootins\vbox{\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
14350 \unvbox\@mpfootins

```



```

14351 \reset@font%
14352 \bidi@@footnotetext@font% \reset@font\footnotesize
14353 \hsize\columnwidth
14354 \@parboxrestore
14355 \protected@edef\@currentlabel
14356     {\csname p@mpfootnote\endcsname\@thefnmark}%
14357 \color@begingroup
14358 \makefnmark{%
14359     \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}%
14360 \color@endgroup}}
14361 \def\@iiiminipage#1#2[#3]#4{%
14362     \leavevmode
14363     \@pboxswfalse
14364     \if@hboxRconstruct\@bidi@list@minipage@parbox@not@nobtrue\fi
14365     \if@RTL\if#1t\@bidi@list@minipage@parboxtrue\else\if#1b\@bidi@list@minipage@parboxtrue\fi
14366     \setlength\@tempdima{#4}%
14367     \def\@mpargs{{#1}{#2}[#3]{#4}}%
14368     \setbox\@tempboxa\vbox\bgroup
14369         \color@begingroup
14370         \hsize\@tempdima
14371         \textwidth\hsize \columnwidth\hsize
14372         \@parboxrestore
14373         \def\@mpfn{mpfootnote}\def\thempfn{\thempfootnote}\c@mpfootnote\z@
14374         \let\@footnotetext\@mpfootnotetext
14375         \let\@LTRfootnotetext\@mpLTRfootnotetext
14376         \let\@RTLfootnotetext\@mpRTLfootnotetext
14377         \let\@listdepth\@mplistdepth \@mplistdepth\z@
14378         \@minipagerestore
14379         \setminipage}
14380 \def\endminipage{%
14381     \par
14382     \unskip
14383     \ifvoid\@mpfootins\else
14384         \vskip\skip\@mpfootins
14385         \normalcolor
14386         \bidi@mpfootnoterule
14387         \unvbox\@mpfootins
14388     \fi
14389     \@minipagefalse %% added 24 May 89
14390 \color@endgroup
14391 \egroup
14392 \expandafter\@iiiparbox\@mpargs{\unvbox\@tempboxa}}
14393 \def\LTRthanks#1{\footnotemark
14394     \protected@xdef\@thanks{\@thanks
14395         \protect\LTRfootnotetext[\the\c@footnote]{#1}}%
14396 }
14397 \def\LTRfootnotetext{%
14398     \@ifnextchar [\@xLTRfootnotenext
14399     {\protected@xdef\@thefnmark{\thempfn}%
14400     \@LTRfootnotetext}}
14401 \def\@xLTRfootnotenext[#1]{%
14402     \begingroup
14403     \csname c@\@mpfn\endcsname #1\relax
14404     \unrestored@protected@xdef\@thefnmark{\thempfn}%

```



```

14405 \endgroup
14406 \@LTRfootnotetext}
14407 \def\RTLthanks#1{\footnotemark
14408     \protected@xdef\@thanks{\@thanks
14409         \protect\RTLfootnotetext[\the\c@footnote]{#1}}%
14410 }
14411 \let\@thanks\@empty
14412 \def\RTLfootnotetext{%
14413     \@ifnextchar [\@xRTLfootnotenext
14414         {\protected@xdef\@thefnmark{\thempfn}%
14415         \@RTLfootnotetext}}
14416 \def\@xRTLfootnotenext[#1]{%
14417     \begingroup
14418         \csname c@\@mpfn\endcsname #1\relax
14419         \unrestored@protected@xdef\@thefnmark{\thempfn}%
14420     \endgroup
14421     \@RTLfootnotetext}
14422 \leftfootnoterule

```

## 96 File footnotebackref-xetex-bidi.def

```

14423 \ProvidesFile{footnotebackref-xetex-bidi.def}[2022/02/18 v0.1 bidi adaptations for footnoteback]
14424 \LetLtxMacro{\BHFN@OldLTRFootnote}{\LTRfootnote}
14425 \LetLtxMacro{\BHFN@OldRTLFootnote}{\RTLfootnote}
14426
14427 \renewcommand*\LTRfootnote{%
14428     \refstepcounter{BackrefHyperFootnoteCounter}%
14429     \edef\BackrefFootnoteTag{bhfn:\theBackrefHyperFootnoteCounter}%
14430     \label{\BackrefFootnoteTag}%
14431     \@ifnextchar [\Backref@OptLTRHyperFootnote\Backref@HyperLTRFootnote}
14432
14433 \renewcommand*\RTLfootnote{%
14434     \refstepcounter{BackrefHyperFootnoteCounter}%
14435     \edef\BackrefFootnoteTag{bhfn:\theBackrefHyperFootnoteCounter}%
14436     \label{\BackrefFootnoteTag}%
14437     \@ifnextchar [\Backref@OptRTLHyperFootnote\Backref@HyperRTLFootnote}
14438 \newcommand\Backref@HyperLTRFootnote[1]{%
14439     \BHFN@OldLTRFootnote{\Backref@HyperSymbol#1}}
14440
14441 \newcommand\Backref@HyperRTLFootnote[1]{%
14442     \BHFN@OldRTLFootnote{\Backref@HyperSymbol#1}}
14443
14444 \newcommand\Backref@OptHyperLTRFootnote[2][\empty]{%
14445     \BHFN@OldLTRFootnote[#1]{\Backref@HyperSymbol#2}}
14446
14447 \newcommand\Backref@OptHyperRTLFootnote[2][\empty]{%
14448     \BHFN@OldRTLFootnote[#1]{\Backref@HyperSymbol#2}}
14449
14450 \bidi@AfterFile{extrafootnotefeatures-xetex-bidi.def}{%
14451 \ifFootnoteBackref@numberlinked
14452 \renewcommand{\footfootmark}{%
14453     \ifdim\footmarkwidth < \z@
14454         \llap{\hb@xt@ -\footmarkwidth{%
14455             \hss\normalfont\footscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}%

```



```

14456         \hspace*{-\footmarkwidth}}}%
14457     \else
14458         \ifdim\footmarkwidth = \z@
14459             {\normalfont\footscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}%
14460         \else
14461             \hb@xt@\footmarkwidth{\hss\normalfont\footscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}%
14462         \fi
14463     \fi}
14464 \renewcommand{\LTRfootfootmark}{%
14465     \ifdim\footmarkwidth < \z@
14466         \llap{\hb@xt@ -\footmarkwidth{%
14467             \hss\normalfont\LTRfootscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}%
14468             \hspace*{-\footmarkwidth}}}%
14469     \else
14470         \ifdim\footmarkwidth = \z@
14471             {\normalfont\LTRfootscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}%
14472         \else
14473             \hb@xt@\footmarkwidth{\hss\normalfont\LTRfootscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}%
14474         \fi
14475     \fi}
14476 \renewcommand{\RTLfootfootmark}{%
14477     \ifdim\footmarkwidth < \z@
14478         \llap{\hb@xt@ -\footmarkwidth{%
14479             \hss\normalfont\RTLfootscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}%
14480             \hspace*{-\footmarkwidth}}}%
14481     \else
14482         \ifdim\footmarkwidth = \z@
14483             {\normalfont\RTLfootscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}%
14484         \else
14485             \hb@xt@\footmarkwidth{\hss\normalfont\RTLfootscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}%
14486         \fi
14487     \fi}
14488 \fi
14489 }

```

## 97 File framed-xetex-bidi.def

```

14490 \ProvidesFile{framed-xetex-bidi.def}[2012/06/05 v0.3 bidi adaptations for framed package for xetex]
14491 \renewcommand\TitleBarFrame[3] [] {\begingroup
14492     \ifx\delimiter#1\delimiter
14493         \let\TF@conlab\@empty
14494     \else
14495         \def\TF@conlab{% continuation label
14496             \nointerlineskip
14497             \smash{\rlap{\kern\wd\@tempboxa\kern\fboxrule\kern\fboxsep #1}}}%
14498     \fi
14499     %\let\TF@savecolor\current@color
14500     \textcolor{TFFrameColor}{%
14501         \CustomFBox
14502         {\TF@Title{#2}}{\TF@conlab}%
14503         \fboxrule\fboxrule\fboxrule\fboxrule
14504         %{\let\current@color\TF@savecolor\set@color #3}%
14505         {\normalcolor #3}%
14506     }\endgroup

```



```

14507 }
14508 \renewenvironment{titled-frame}[1]{%
14509   \def\FrameCommand{\fboxsep8pt\fboxrule2pt
14510     \TitleBarFrame{\textbf{#1}}}%
14511   \def\FirstFrameCommand{\fboxsep8pt\fboxrule2pt
14512     \TitleBarFrame[ $\if@RTL\blacktriangleleft\else\blacktriangleright\fi$ ]{\textbf{#1}}}%
14513   \def\MidFrameCommand{\fboxsep8pt\fboxrule2pt
14514     \TitleBarFrame[ $\if@RTL\blacktriangleleft\else\blacktriangleright\fi$ ]{\textbf{#1\ (con
14515   \def\LastFrameCommand{\fboxsep8pt\fboxrule2pt
14516     \TitleBarFrame{\textbf{#1\ (cont)}}}%
14517   \MakeFramed{\advance\hsize-20pt \FrameRestore}}%
14518 % note: 8 + 2 + 8 + 2 = 20. Don't use \width because the frame title
14519 % could interfere with the width measurement.
14520 {\endMakeFramed}
14521 \chardef\FrameRestore=\catcode`\| % for debug
14522 \catcode`\|=\catcode`\% % (debug: insert space after backslash)
14523 \def\fb@put@frame#1#2{\relax
14524   \ifdim\pagegoal=\maxdimen \pagegoal\vsizel \fi
14525   | \message{===== Entering putframe =====^~J
14526   | \pagegoal=\the\pagegoal, \pagetotal=\the\pagetotal.}%
14527   \ifinner
14528     \fb@putboxa#1%
14529     \fb@afterframe
14530   \else
14531     \dimen@ \pagegoal \advance\dimen@-\pagetotal % natural space left on page
14532     \ifdim\dimen@<2\baselineskip % Too little room on page
14533     | \message{Page has only \the\dimen@\space room left; eject.}%
14534     \eject \fb@adjheight \fb@put@frame#1#2%
14535     \else % there's appreciable room left on the page
14536       \fb@sizeofframe#1%
14537       | \message{\string\pagetotal=\the\pagetotal,
14538       | \string\pagegoal=\the\pagegoal,
14539       | \string\pagestretch=\the\pagestretch,
14540       | \string\pageshrink=\the\pageshrink,
14541       | \string\fb@frh=\the\fb@frh. \space}
14542       | \message{^^JBox of size \the\ht\@tempboxa\space}%
14543       \begingroup % temporarily set \dimen@ to be...
14544       \advance\dimen@.8\pageshrink % maximum space available on page
14545       \advance\dimen@-\fb@frh\relax % max space available for frame's contents
14546 %%% LOOKS SUBTRACTED AND ADDED, SO DOUBLE ACCOUNTING!
14547       \expandafter\endgroup
14548       % expand \ifdim, then restore \dimen@ to real room left on page
14549       \ifdim\dimen@>\ht\@tempboxa % whole box does fit
14550       | \message{fits in \the\dimen@.}%
14551       % ToDo: Change this to use vsplit anyway to capture the marks
14552       % MERGE THIS WITH THE else CLAUSE!!!
14553       \fb@putboxa#1%
14554       \fb@afterframe
14555     \else % box must be split
14556     | \message{must be split to fit in \the\dimen@.}%
14557     % update frame measurement to use \FirstFrameCommand or \MidFrameCommand
14558     \fb@sizeofframe#2%
14559     \setbox\@tempboxa\vbox{% simulate frame and flexibility of the page:
14560       \vskip \fb@frh \@plus\pagestretch \@minus.8\pageshrink

```



```

14561         \kern137sp\kern-137sp\penalty-30
14562         \unvbox\@tempboxa}%
14563     \edef\fb@resto@set{\boxmaxdepth\the\boxmaxdepth
14564         \splittopskip\the\splittopskip}%
14565     \boxmaxdepth\z@ \splittopskip\z@
14566 | \message{^^JPadded box of size \the\ht\@tempboxa\space split to \the\dimen@}%
14567     % Split box here
14568     \setbox\tw@\vsplit\@tempboxa to\dimen@
14569 | \toks99\expandafter{\splitfirstmark}%
14570 | \toks98\expandafter{\splitbotmark}%
14571 | \message{Marks are: \the\toks99, \the\toks98. }%
14572     \setbox\tw@\vbox{\unvbox\tw@}% natural-sized
14573 | \message{Natural height of split box is \the\ht\tw@, leaving
14574 | \the\ht\@tempboxa\space remainder. }%
14575     % If the split-to size > (\vsize-\topskip), then set box to full size.
14576     \begingroup
14577     \advance\dimen@\topskip
14578     \expandafter\endgroup
14579     \ifdim\dimen@>\pagegoal
14580 | \message{Frame is big -- Use up the full column. }%
14581     \dimen@ii\pagegoal
14582     \advance\dimen@ii -\topskip
14583     \advance\dimen@ii \FrameHeightAdjust\relax
14584     \else % suspect this is implemented incorrectly:
14585         % If the split-to size > feasible room_on_page, rebox it smaller.
14586         \advance\dimen@.8\pageshrink
14587         \ifdim\ht\tw@>\dimen@
14588 | \message{Box too tall; rebox it to \the\dimen@. }%
14589         \dimen@ii\dimen@
14590         \else % use natural size
14591             \dimen@ii\ht\tw@
14592         \fi
14593     \fi
14594     % Re-box contents to desired size \dimen@ii
14595     \advance\dimen@ii -\fb@frh
14596     \setbox\tw@\vbox to\dimen@ii \bgroup
14597     % remove simulated frame and page flexibility:
14598     \vskip -\fb@frh \@plus-\pagestretch \@minus-.8\pageshrink
14599     \unvbox\tw@ \unpenalty\unpenalty
14600     \ifdim\lastkern=-137sp % whole box went to next page
14601 | \message{box split at beginning! }%
14602     % need work here???
14603     \egroup \fb@resto@set \eject % (\vskip for frame size was discarded)
14604     \fb@adjheight
14605     \fb@put@frame#1#2% INSERTED ???
14606     \else % Got material split off at the head
14607         \egroup \fb@resto@set
14608         \ifvoid\@tempboxa % it all fit after all
14609 | \message{box split at end! }%
14610         \setbox\@tempboxa\box\tw@
14611         \fb@putboxa#1%
14612         \fb@afterframe
14613         \else % it really did split
14614 | \message{box split as expected. Its reboxed height is \the\ht\tw@. }%

```



```

14615         \ifdim\wd\tw@>\z@
14616         \wd\tw@\wd\@tempboxa
14617         \centerline{#2{\hboxL{\box\tw@}}}% ??? \centerline bad idea
14618     \else
14619 |         \message{Zero width means likely blank. Don't frame it (guess)}%
14620         \box\tw@
14621     \fi
14622     \hrule \@height\z@ \@width\hsize
14623     \eject
14624     \fb@adjheight
14625     \fb@put@frame\LastFrameCommand\MidFrameCommand
14626 \fi\fi\fi\fi\fi
14627 }
14628 \def\fb@putboxa#1{%
14629     \ifvoid\@tempboxa
14630         \PackageWarning{framed}{Boxa is void -- discard it.}%
14631     \else
14632 |         \message{Frame and place boxa.}%
14633 |         %{\showoutput\showbox\@tempboxa}%
14634         \centerline{#1{\hboxL{\box\@tempboxa}}}%
14635     \fi
14636 }
14637 \catcode`\|=\FrameRestore
14638 \def\FrameRestore{%
14639     \let\if@nobreak\iffalse
14640     \let\if@noskipsec\iffalse
14641     \let\-\@dischypn
14642     \let'\@acci\let'\@accii\let\=\@acciii
14643     % \message{FrameRestore:
14644     %     \@totalleftmargin=\the \@totalleftmargin,
14645     %     \rightmargin=\the\rightmargin,
14646     %     \@listdepth=\the\@listdepth.}%
14647     % Test if we are in a list (or list-like paragraph)
14648     \ifnum \ifdim\@totalleftmargin>\z@ 1\fi
14649         \ifdim\rightmargin>\z@ 1\fi
14650         \ifnum\@listdepth>\z@ 1\fi 0>\z@
14651         % \message{In a list: \linewidth=\the\linewidth, \@totalleftmargin=\the\@totalleftmargin,
14652         %     \parshape=\the\parshape, \columnwidth=\the\columnwidth, \hsize=\the\hsize,
14653         %     \labelwidth=\the\labelwidth.}%
14654         \@setminipage % snug fit around the item
14655         % Now try to propagate changes of width from \hsize to list parameters.
14656         % This is deficient, but a more advanced way to indicate modification to text
14657         % dimensions is not (yet) provided; in particular, no separate left/right
14658         % adjustment.
14659         \advance\linewidth-\columnwidth \advance\linewidth\hsize
14660         \parshape\@ne \@totalleftmargin \linewidth
14661     \else % Not in list
14662         \linewidth=\hsize
14663         %\message{No list, set \string\linewidth=\the\hsize.}%
14664     \fi
14665     \sloppy
14666 }

```



## 98 File ftnright-xetex-bidi.def

```

14667 \ProvidesFile{ftnright-xetex-bidi.def}[2018/09/29 v0.6 bidi adaptations for ftnright package]
14668
14669 \def\prepare@bidi@copyins{%
14670   \global\bidi@rcol@copyinsskip\skip\@bidi@copyins@
14671   \global\skip\@bidi@copyins@\z@
14672   \global\count\@bidi@copyins@\z@
14673   \global\dimen\@bidi@copyins@\textheight}
14674
14675 \newskip\bidi@rcol@copyinsskip
14676
14677 \def\LTR@outputdblcol{%
14678   \if@firstcolumn
14679     \global\@firstcolumnfalse
14680     \global\setbox\@leftcolumn\copy\@outputbox
14681     \global\count\footins\@m
14682     \global\skip\footins\rcol@footinsskip
14683     \global\count\@bidi@copyins@\@m
14684     \global\skip\@bidi@copyins@\bidi@rcol@copyinsskip
14685     \splitmaxdepth\maxdimen
14686     \vbadness\maxdimen
14687     \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
14688     \setbox\@outputbox\vsplit\@outputbox to\maxdimen
14689     \toks@\expandafter{\topmark}%
14690     \xdef\@firstcoltopmark{\the\toks@}%
14691     \toks@\expandafter{\splitfirstmark}%
14692     \xdef\@firstcolfirstmark{\the\toks@}%
14693     \ifx\@firstcolfirstmark\empty
14694       \global\let\@setmarks\relax
14695     \else
14696       \gdef\@setmarks{%
14697         \let\firstmark\@firstcolfirstmark
14698         \let\topmark\@firstcoltopmark}%
14699     \fi
14700   \else
14701     \preparefootins
14702     \prepare@bidi@copyins
14703     \global\@firstcolumntrue
14704     \setbox\@outputbox\vbox{%
14705       \hb@xt@\textwidth{%
14706         \hb@xt@\columnwidth{%
14707           \bidi@firstcolumn@status@write%
14708           \box\@leftcolumn \hss}%
14709         \hfil
14710         {\normalcolor\vrule \@width\columnseprule}%
14711         \hfil
14712         \hb@xt@\columnwidth{%
14713           \bidi@lastcolumn@status@write%
14714           \box\@outputbox \hss}}}%
14715     \@combinedblfloats
14716     \@setmarks
14717     \@outputpage
14718     \begingroup

```



```

14719     \@dblfloatplacement
14720     \@startdblcolumn
14721     \@whilesw@if@fcolmade \fi{\@outputpage
14722     \@startdblcolumn}%
14723   \endgroup
14724 \fi}%
14725
14726 \def\RTL@outputdblcol{%
14727   \if@firstcolumn
14728     \global\@firstcolumnfalse
14729     \global\setbox\@leftcolumn\copy\@outputbox
14730     \global\count\footins\@m
14731     \global\skip\footins\rcol@footinsskip
14732     \global\count\@bidi@copyins@\@m
14733     \global\skip\@bidi@copyins@\bidi@rcol@copyinsskip
14734     \splitmaxdepth\maxdimen
14735     \vbadness\maxdimen
14736     \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
14737     \setbox\@outputbox\vsplit\@outputbox to\maxdimen
14738     \toks@\expandafter{\topmark}%
14739     \xdef\@firstcoltopmark{\the\toks@}%
14740     \toks@\expandafter{\splitfirstmark}%
14741     \xdef\@firstcolfirstmark{\the\toks@}%
14742     \ifx\@firstcolfirstmark\@empty
14743       \global\let\@setmarks\relax
14744     \else
14745       \gdef\@setmarks{%
14746         \let\firstmark\@firstcolfirstmark
14747         \let\topmark\@firstcoltopmark}%
14748     \fi
14749   \else
14750     \preparefootins
14751     \prepare@bidi@copyins
14752     \global\@firstcolumntrue
14753     \setbox\@outputbox\vbox{%
14754       \hb@xt@\textwidth{%
14755         \hskip \columnwidth
14756         \hfil
14757         {\normalcolor\vrule \@width\columnseprule}%
14758         \hfil
14759         \hb@xt@\columnwidth{%
14760           \bidi@firstcolumn@status@write%
14761           \box\@leftcolumn \hss}%
14762         \hskip -\textwidth
14763         \hb@xt@\columnwidth{%
14764           \bidi@lastcolumn@status@write%
14765           \box\@outputbox \hss}%
14766         \hskip \columnsep
14767         \hskip \columnwidth }}%
14768   \@combinedblfloats
14769   \@setmarks
14770   \@outputpage
14771   \begingroup
14772   \@dblfloatplacement

```



```

14773 \startdblcolumn
14774 \whilesw@if@fcolmade \fi{\@outputpage
14775 \startdblcolumn}%
14776 \endgroup
14777 \fi}%
14778
14779 \def\startcolumn{%
14780 \ifx\@deferlist\@empty
14781 \global\@fcolmadefalse
14782 \global\@colroom\@colht
14783 \else
14784 \ifvoid\footins\else
14785 \ftn@amount\ht\footins
14786 \advance\ftn@amount\dp\footins
14787 \advance\ftn@amount\skip\footins
14788 \fi
14789 \ifvoid\@bidi@copyins@\else
14790 \bidi@copyins@amount\ht\@bidi@copyins@
14791 \advance\bidi@copyins@amount\dp\@bidi@copyins@
14792 \advance\bidi@copyins@amount\skip\@bidi@copyins@
14793 \fi
14794 \global\advance\@colht-\ftn@amount
14795 \global\advance\@colht-\bidi@copyins@amount
14796 \global\@colroom\@colht
14797 \xstartcol
14798 \global\advance\@colht\ftn@amount
14799 \global\advance\@colroom\ftn@amount
14800 \global\advance\@colht\bidi@copyins@amount
14801 \global\advance\@colroom\bidi@copyins@amount
14802 \fi
14803 \if@fcolmade
14804 \setbox\@cclv\box\@outputbox
14805 \@makecol
14806 \else
14807 \ifvoid\footins\else
14808 \insert\footins{\unvbox\footins}\fi
14809 \ifvoid\@bidi@copyins@\else
14810 \insert\@bidi@copyins@\unvbox\@bidi@copyins@\fi
14811 \fi}
14812
14813 \newdimen\bidi@copyins@amount
14814
14815 \def\@makecol{\if@firstcolumn
14816 \setbox\@outputbox\box\@cclv
14817 \if@twocolumn \else
14818 \ifvoid\footins \else
14819 \latexerr{ftnright package
14820 used in one-column mode}%
14821 {The ftnright package was designed to
14822 work with LaTeX's standard^^Jtwocolumn
14823 option. It does *not* work with the
14824 multicol package.^^JSo please specify
14825 `twocolumn' in the
14826 \noexpand\documentclass command.}%

```



```

14827     \shipout\box\footins \fi
14828     \ifvoid\@bidi@copyins@ \else
14829         \@latexerr{ftnright package
14830             used in one-column mode}%
14831     {The ftnright package was designed to
14832     work with LaTeX's standard^^Jtwocolumn
14833     option. It does *not* work with the
14834     multicol package.^^JSo please specify
14835     `twocolumn' in the
14836     \noexpand\documentclass command.}%
14837     \shipout\box\@bidi@copyins@ \fi\fi
14838     \ifnum\insertpenalties>\z@
14839         \@latexerr{ftnright package
14840             scrambled footnotes}%
14841     {There is too much footnote material in
14842     the first column and ftnright^^Jis
14843     unable to cope with this.^^JYou need
14844     to reduce the amount to get a properly
14845     formatted page.}%
14846     \fi
14847     \else
14848     \ifvoid\footins
14849         \ifvoid\@bidi@copyins@
14850             \setbox\@outputbox\box\@cclv
14851         \else
14852             \setbox\@outputbox\vbox
14853             {\ifvoid\@cclv \else
14854             \unvbox\@cclv
14855             \vskip \skip\@bidi@copyins@
14856             \fi
14857             \color@begingroup
14858             \normalcolor
14859             \unvbox \@bidi@copyins@
14860             \color@endgroup}%
14861         \fi
14862     \else
14863         \setbox\@outputbox\vbox
14864         {\ifvoid\@cclv \else
14865         \unvbox\@cclv
14866         \vskip\skip\footins\fi
14867         \color@begingroup
14868         \normalcolor
14869         \footnoterule\unvbox\footins
14870         \color@endgroup
14871         \ifvoid\@bidi@copyins@
14872         \else
14873             \vskip \skip\@bidi@copyins@
14874             \color@begingroup
14875             \normalcolor
14876             \unvbox \@bidi@copyins@
14877             \color@endgroup
14878         \fi
14879         }%
14880     \fi

```



```

14881 \fi
14882 \xdef\@freelist{\@freelist\@midlist}%
14883 \global \let \@midlist \@empty
14884 \@combinefloats
14885 \ifvbox\@kludgeins
14886   \@makespecialcolbox
14887 \else
14888   \setbox\@outputbox\vbox to\@colht
14889     {\boxmaxdepth\maxdepth
14890       \@texttop
14891       \@tempdima\dp\@outputbox
14892       \unvbox\@outputbox
14893       \vskip-\@tempdima
14894       \@textbottom}%
14895 \fi
14896 \global\maxdepth\@maxdepth}
14897
14898 \let\leftfootnoterule\@empty
14899 \let\rightfootnoterule\@empty
14900 \let\textwidthfootnoterule\@empty
14901 \let\autofootnoterule\@empty
14902 \let\footnoterule\@empty
14903 \long\def\@makefntext#1{\parindent 1em
14904   \noindent\hbox to 2em{}}%
14905   \llap{\@thefnmark\hbox{.}\,\,\,}#1}
14906
14907 \setlength{\skip\@bidi@copyins@}
14908   {10pt plus 5pt minus 3pt}
14909 \AtBeginDocument{\prepare@bidi@copyins}

```

## 99 File graphicx-xetex-bidi.def

```

14910 \ProvidesFile{graphicx-xetex-bidi.def}[2017/06/17 v0.5 bidi adaptations for graphicx package]
14911 \def\Grot@box@std#1#2{\ifmmode\else\if@RTL\beginL\fi\fi%
14912   \Grot@setangle{#1}%
14913   \setbox\z@\hbox{\ifmmode\if@RTL\beginR\fi#2\if@RTL\endR\fi\else\if@RTL\beginR\fi#2\if@RTL\endR\fi}%
14914   \Grot@x\z@
14915   \Grot@y\z@
14916   \Grot@box\ifmmode\else\if@RTL\endL\fi\fi}
14917 \long\def\Grot@box@kv[#1]#2#3{\ifmmode\else\if@RTL\beginL\fi\fi%
14918   \@begin@tempboxa\hbox{\ifmmode\if@RTL\beginR\fi#3\if@RTL\endR\fi\else\if@RTL\beginR\fi#3\if@RTL\endR\fi}%
14919   \Grot@x\width \divide\Grot@x\tw@
14920   \Grot@y\height \advance\Grot@y-\depth \divide\Grot@y\tw@
14921   \setkeys{Grot}{#1}%
14922   \setbox\z@\box\@tempboxa
14923   \Grot@setangle{#2}%
14924   \Grot@box\ifmmode\else\if@RTL\endL\fi\fi
14925   \@end@tempboxa}
14926 \long\def\Gscale@box#1[#2]#3{\ifmmode\else\if@RTL\beginL\fi\fi%
14927   \leavevmode
14928   \def\Gscale@x{#1}\def\Gscale@y{#2}%
14929   \setbox\z@\hbox{#3}%
14930   \setbox\tw@\hbox{\Gscale@start\rlap{\copy\z@}\Gscale@end}%
14931   \ifdim#2\p<\z@

```



```

14932 \ht\tw@-#2\dp\z@
14933 \dp\tw@-#2\ht\z@
14934 \else
14935 \ht\tw@#2\ht\z@
14936 \dp\tw@#2\dp\z@
14937 \fi
14938 \ifdim#1\p@<\z@
14939 \hb@xt@-#1\wd\z@{\kern-#1\wd\z@\box\tw@hss}%
14940 \else
14941 \wd\tw@#1\wd\z@
14942 \box\tw@
14943 \fi\ifmmode\else\if@RTL\endL\fi\fi}
14944 \def\Gin@iii[#1,#2][#3,#4]#5{%
14945 \begingroup
14946 \ifmmode\else\if@RTL\beginL\fi\fi
14947 \Gin@bboxtrue
14948 \Gin@defaultbp\Gin@llx{#1}%
14949 \Gin@defaultbp\Gin@lly{#2}%
14950 \Gin@defaultbp\Gin@urx{#3}%
14951 \Gin@defaultbp\Gin@ury{#4}%
14952 \Gin@include@graphics{#5}%
14953 \ifmmode\else\if@RTL\endL\fi\fi
14954 \endgroup}
14955 \def\Gin@ii[#1]#2{%
14956 \def\@tempa{[]}\def\@tempb{#2}%
14957 \ifx\@tempa\@tempb
14958 \def\@tempa{\Gin@iii[#1] []}%
14959 \expandafter\@tempa
14960 \else
14961 \begingroup
14962 \ifmmode\else\if@RTL\beginL\fi\fi
14963 \@tempswafalse
14964 \toks@{\Gin@include@graphics{#2}}%
14965 \setkeys{Gin}{#1}%
14966 \Gin@esetsize
14967 \the\toks@
14968 \ifmmode\else\if@RTL\endL\fi\fi
14969 \endgroup
14970 \fi}
14971 \def\reflectbox{\bidiGscale@box-1[1]}
14972 \long\def\bidiGscale@box#1[#2]#3{\ifmmode\else\if@RTL\beginL\fi\fi%
14973 \leavevmode
14974 \def\Gscale@x{#1}\def\Gscale@y{#2}%
14975 \setbox\z@\hbox{\ifmmode\if@RTL\beginR\fi#3\if@RTL\endR\fi\else\if@RTL\beginR\fi#3\if@RTL\endR\fi}%
14976 \setbox\tw@\hbox{\Gscale@start\rlap{\copy\z@}\Gscale@end}%
14977 \ifdim#2\p@<\z@
14978 \ht\tw@-#2\dp\z@
14979 \dp\tw@-#2\ht\z@
14980 \else
14981 \ht\tw@#2\ht\z@
14982 \dp\tw@#2\dp\z@
14983 \fi
14984 \ifdim#1\p@<\z@
14985 \hb@xt@-#1\wd\z@{\kern-#1\wd\z@\box\tw@hss}%

```



```

14986 \else
14987 \wd\tw@#1\wd\z@
14988 \box\tw@
14989 \fi\ifmmode\else\if@RTL\endL\fi\fi}
14990 \def\scalebox#1{%
14991 \@ifnextchar[{\bidigscale@box{#1}}{\bidigscale@box{#1}[#1]}}
14992 \def\resizebox{%
14993 \leavevmode
14994 \@ifstar{\bidigscale@@box\totalheight}{\bidigscale@@box\height}}
14995 \def\bidigscale@@box#1#2#3{%
14996 \let\@tempa\Gin@exclamation
14997 \expandafter\def\expandafter\@tempb\expandafter{\string#2}%
14998 \expandafter\def\expandafter\@tempc\expandafter{\string#3}%
14999 \ifx\@tempb\@tempa
15000 \ifx\@tempc\@tempa
15001 \toks@{\mbox}%
15002 \else
15003 \toks@{\bidigscale@box@dd{#3}#1}%
15004 \fi
15005 \else
15006 \ifx\@tempc\@tempa
15007 \toks@{\bidigscale@box@dd{#2}\width}%
15008 \else
15009 \toks@{\bidigscale@box@dddd{#2}\width{#3}#1}%
15010 \fi
15011 \fi
15012 \the\toks@}
15013 \long\def\bidigscale@box@dd#1#2#3{%
15014 \@begin@tempboxa\hbox{\ifmmode\if@RTL\beginR\fi#3\if@RTL\endR\fi\else\if@RTL\beginR\fi#3\if@RTL\endR\fi}%
15015 \setlength\@tempdima{#1}%
15016 \setlength\@tempdimb{#2}%
15017 \Gscale@div\@tempa\@tempdima\@tempdimb
15018 \Gscale@box\@tempa[\@tempa]{\box\@tempboxa}%
15019 \@end@tempboxa}
15020 \long\def\bidigscale@box@dddd#1#2#3#4#5{%
15021 \@begin@tempboxa\hbox{\ifmmode\if@RTL\beginR\fi#5\if@RTL\endR\fi\else\if@RTL\beginR\fi#5\if@RTL\endR\fi}%
15022 \setlength\@tempdima{#1}%
15023 \setlength\@tempdimb{#2}%
15024 \Gscale@div\@tempa\@tempdima\@tempdimb
15025 \setlength\@tempdima{#3}%
15026 \setlength\@tempdimb{#4}%
15027 \Gscale@div\@tempb\@tempdima\@tempdimb
15028 \ifGin@iso
15029 \ifdim\@tempa\p@>\@tempb\p@
15030 \let\@tempa\@tempb
15031 \else
15032 \let\@tempb\@tempa
15033 \fi
15034 \fi
15035 \Gscale@box\@tempa[\@tempb]{\box\@tempboxa}%
15036 \@end@tempboxa}

```

## 100 File geometry-xetex-bidi.def



```

15037 \ProvidesFile{geometry-xetex-bidi.def}[2017/01/14 v0.2 bidi adaptations for geometry package]
15038 \renewcommand*{\Gm@vrules@mpi}{%
15039 \if@RTLmain%
15040     \hb@xt@{\@tempdima{\hskip-\marginparwidth\hskip-\marginparsep
15041     \llap{\Gm@vrule}\ignorespaces
15042     \hskip \marginparwidth\rlap{\Gm@vrule}\hskip \marginparsep
15043     \llap{\Gm@vrule}\hskip\textwidth\rlap{\Gm@vrule}\hss}%
15044 \else%
15045 \hb@xt@{\@tempdima{\llap{\Gm@vrule}\ignorespaces
15046 \hskip \textwidth\Gm@vrule\hskip \marginparsep
15047 \llap{\Gm@vrule}\hfil\Gm@vrule}\fi}%
15048 \renewcommand*{\Gm@vrules@mpii}{%
15049 \if@RTLmain%
15050 \hb@xt@{\@tempdima{\llap{\Gm@vrule}\ignorespaces
15051 \hskip \textwidth\Gm@vrule\hskip \marginparsep
15052 \llap{\Gm@vrule}\hfil\Gm@vrule}%
15053 \else%
15054 \hb@xt@{\@tempdima{\hskip-\marginparwidth\hskip-\marginparsep
15055 \llap{\Gm@vrule}\ignorespaces
15056 \hskip \marginparwidth\rlap{\Gm@vrule}\hskip \marginparsep
15057 \llap{\Gm@vrule}\hskip\textwidth\rlap{\Gm@vrule}\hss}\fi}%
15058 \bidi@patchcmd{\Gm@pageframes}{%
15059 \ifodd\count\z@
15060 \let\@themargin\oddsidemargin
15061 \else
15062 \let\@themargin\evensidemargin
15063 \fi
15064 }{%
15065 \ifodd\count\z@
15066 \if@RTLmain
15067 \let\@themargin\evensidemargin
15068 \else
15069 \let\@themargin\oddsidemargin
15070 \fi
15071 \else
15072 \if@RTLmain
15073 \let\@themargin\oddsidemargin
15074 \else
15075 \let\@themargin\evensidemargin
15076 \fi
15077 \fi
15078 }{}{}

```

## 101 File hvfloat-xetex-bidi.def

```

15079 \ProvidesFile{hvfloat-xetex-bidi.def}[2012/04/18 v0.2 bidi adaptations for hvfloat package]
15080 \def\do@hvFloat[#1]#2#3{%
15081 \def\hv@shortCap{#1}
15082 \def\hv@longCap{#2}
15083 \def\hv@label{#3}
15084 %\newcommand*{\hvFloat}[5][{}]{%
15085 % [#1]: keyvalues
15086 % #2: type figure | table | ...
15087 % #3: float contents

```



```

15088% [#4]: short caption
15089% #5: caption
15090% #6: label
15091% \setDefaults%
15092% \def\@tempa{#1}%
15093% \ifx\@tempa\empty\else\setkeys{hvSet}{#1}\fi% set options, only when not empty
15094% \def\@tempa{90}%
15095% \ifx\hvSet@rotAngle\@tempa \setlength{\hvMaxCapWidth}{\textheight}
15096% \else \setlength{\hvMaxCapWidth}{\linewidth}
15097% \fi
15098%
15099% First we save the object in \hvObjectBox
15100%
15101% \ifx\hvSet@objectAngle\hv@Zero % rotate the object?
15102% \savebox{\hvObjectBox}{\ifhv@useOBox\usebox{\hvOBox}\else\hv@floatObject\fi}
15103% \else
15104% \savebox{\hvObjectBox}{%
15105% \rotatebox{\hvSet@objectAngle}{%
15106% \ifhv@useOBox\usebox{\hvOBox}\else\hv@floatObject\fi}}
15107% \fi
15108% \setlength{\hvObjectWidth}{\wd\hvObjectBox}
15109%
15110% Now we save the caption with its defined \hvCapWidth
15111%
15112% \ifx\hvSet@capWidth\hv@Width\setlength{\hvCapWidth}{\hvObjectWidth}
15113% \else
15114% \ifx\hvSet@capWidth\hv@Height\setlength{\hvCapWidth}{\ht\hvObjectBox}
15115% \else
15116% \setlength{\hvCapWidth}{\hvObjectWidth}
15117% \ifx\hvSet@capPos\hv@Left\addtolength{\hvMaxCapWidth}{-\hvObjectWidth}\fi
15118% \ifx\hvSet@capPos\hv@Right\addtolength{\hvMaxCapWidth}{-\hvObjectWidth}\fi
15119% \ifdim\hvSet@capWidth\columnwidth<\hvMaxCapWidth
15120% \setlength{\hvCapWidth}{\hvSet@capWidth\columnwidth}
15121% \else
15122% \setlength{\hvCapWidth}{\hvMaxCapWidth}
15123% \fi
15124% \fi
15125% \fi
15126%
15127% now we have the object and the caption with the right
15128% rotated angles saved in boxes
15129%
15130% \def\fps@figure{\hvSet@floatPos}
15131% \ifhv@nonFloat\begin{group}% Start the nonfloat part
15132% \else \begin{\hv@floatType}% Start the floating environment
15133% \fi%
15134% \saveCaptionSkip% we put this space ourselves
15135% \ifx\hvSet@capAngle\hv@Width % need rotation?
15136% \sbox{\hvCaptionBox}{%
15137% \begin{minipage}[b]{\hvCapWidth}% minipage, to get hyphenation
15138% \ifhv@nonFloat%
15139% \ifhv@onlyText#2%
15140% \else%
15141% \ifx\hv@floatType\hv@figure

```



```

15142     \ifx\relax#1\relax \figcaption{#2}\else\figcaption[#1]{#2}\fi
15143     \else
15144         \ifx\relax#1\relax \tabcaption{#2}\else\tabcaption[#1]{#2}\fi%
15145     \fi
15146 \fi
15147 \else\ifx\relax\hv@shortCap\relax\caption{#2}\else\caption[#1]{#2}\fi%
15148 \fi%
15149 \label{#3}%
15150     \end{minipage}%
15151 }%
15152 \else%
15153     \sbox{\hvCaptionBox}{%
15154         \rotatebox{\hvSet@capAngle}{%
15155             \begin{minipage}[b]{\hvCapWidth}% minipage, to get hyphenation
15156 \ifhv@nonFloat%
15157             \ifhv@onlyText#2%
15158             \else%
15159             \ifx\hv@floatType\hv@figure
15160                 \ifx\relax#1\relax \figcaption{#2}\else\figcaption[#1]{#2}\fi
15161             \else
15162                 \ifx\relax#1\relax \tabcaption{#2}\else\tabcaption[#1]{#2}\fi%
15163             \fi
15164         \fi
15165     \else\ifx\relax\hv@shortCap\relax\caption{#2}\else\caption[#1]{#2}\fi%
15166         \fi%
15167         \label{#3}%
15168         \end{minipage}%
15169     }%
15170 }%
15171 \fi%
15172 %%
15173 \restoreCaptionSkip% save old values
15174 \ifx\hvSet@objectPos\hv@Right\@bidi@raggedleft%
15175 \else%
15176     \ifx\hvSet@objectPos\hv@Center
15177         \ifhv@nonFloat\hspace*{\fill}\else\centering\fi%
15178     \fi%
15179 \fi%
15180 %
15181 % to rotate object and caption together, we save all in another box
15182 % the caption comes first, if its on the left or the top
15183 %
15184 \savebox{\@tempboxa}{%
15185     \ifx\hvSet@capPos\hv@Left % caption on left side
15186 \if@RTL%
15187 \ifx\hvSet@capVPos\hv@Center%
15188 \ifhv@fbox
15189 \fbox{\parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}}%
15190 \else
15191 \parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}%
15192 \fi%
15193 \hspace{\hvSet@floatCapSep pt}%
15194 \ifhv@fbox
15195 \fbox{\parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}}%

```



```

15196 \else
15197 \parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}
15198 \fi%
15199 \else%
15200 \ifx\hvSet@capVPos\hv@Top
15201 \ifhv@fbox
15202 \fbox{\raisebox{-\height}{\usebox{\hvObjectBox}}}%
15203 \else
15204 \raisebox{-\height}{\usebox{\hvObjectBox}}%
15205 \fi%
15206 \hspace{\hvSet@floatCapSep pt}%
15207 \ifhv@fbox
15208 \fbox{\raisebox{-\height}{\usebox{\hvCaptionBox}}}%
15209 \else
15210 \raisebox{-\height}{\usebox{\hvCaptionBox}}%
15211 \fi
15212 \else
15213 \ifhv@fbox
15214 \fbox{\usebox{\hvObjectBox}}%
15215 \else
15216 \usebox{\hvObjectBox}%
15217 \fi
15218 \hspace{\hvSet@floatCapSep pt}%
15219 \ifhv@fbox
15220 \fbox{\usebox{\hvCaptionBox}}%
15221 \else
15222 \usebox{\hvCaptionBox}%
15223 \fi%
15224 \fi%
15225 \fi%
15226 \else% not RTL
15227 \ifx\hvSet@capVPos\hv@Center%
15228 \ifhv@fbox\fbox{\parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}}%
15229 \else \parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}%
15230 \fi%
15231 \hspace{\hvSet@floatCapSep pt}% capfloatsep
15232 \ifhv@fbox\fbox{\parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}}%
15233 \else \parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}
15234 \fi%
15235 \else%
15236 \ifx\hvSet@capVPos\hv@Top % caption at top
15237 \ifhv@fbox\fbox{\raisebox{-\height}{\usebox{\hvCaptionBox}}}%
15238 \else \raisebox{-\height}{\usebox{\hvCaptionBox}}%
15239 \fi
15240 \hspace{\hvSet@floatCapSep pt}% capfloatsep
15241 \ifhv@fbox\fbox{\raisebox{-\height}{\usebox{\hvObjectBox}}}%
15242 \else \raisebox{-\height}{\usebox{\hvObjectBox}}%
15243 \fi%
15244 \else% caption on bottom
15245 \ifhv@fbox\fbox{\usebox{\hvCaptionBox}}
15246 \else\usebox{\hvCaptionBox}
15247 \fi%
15248 \hspace{\hvSet@floatCapSep pt}%
15249 \ifhv@fbox\fbox{\usebox{\hvObjectBox}}

```



```

15250         \else         \usebox{\hvObjectBox}
15251         \fi%
15252     \fi%
15253 \fi% end of RTL
15254 \fi%
15255 \else
15256 \ifx\hvSet@capPos\hv@Top
15257 \ifdim\wd\hvCaptionBox>\wd\hvObjectBox
15258 \begin{minipage}{\wd\hvCaptionBox}
15259 \else
15260 \begin{minipage}{\wd\hvObjectBox}
15261 \fi
15262 \centering
15263 \ifhv@fbox
15264 \fbox{\usebox{\hvCaptionBox}}\[\hvBelowCaptionSkip]
15265 \fbox{\usebox{\hvObjectBox}}
15266 \else
15267 \usebox{\hvCaptionBox}\[\hvBelowCaptionSkip]
15268 \usebox{\hvObjectBox}
15269 \fi%
15270 \end{minipage}
15271 \else
15272 \ifx\hvSet@capPos\hv@Bottom
15273 \ifdim\wd\hvCaptionBox>\wd\hvObjectBox
15274 \begin{minipage}{\wd\hvCaptionBox}
15275 \else
15276 \begin{minipage}{\wd\hvObjectBox}
15277 \fi
15278 \centering
15279 \ifhv@fbox
15280 \fbox{\usebox{\hvObjectBox}}\[\hvAboveCaptionSkip]
15281 \fbox{\usebox{\hvCaptionBox}}
15282 \else
15283 \usebox{\hvObjectBox}\[\hvAboveCaptionSkip]
15284 \usebox{\hvCaptionBox}
15285 \fi%
15286 \end{minipage}
15287 \else% the last option: put the caption on the right
15288 \if@RTL%
15289     \ifx\hvSet@capVPos\hv@Center%
15290         \ifhv@fbox\fbox{\parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}}%
15291         \else         \parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}%
15292         \fi%
15293         \hspace{\hvSet@floatCapSep pt}% capfloatsep
15294         \ifhv@fbox\fbox{\parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}}
15295         \else         \parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}
15296         \fi%
15297     \else%
15298         \ifx\hvSet@capVPos\hv@Top % caption at top
15299             \ifhv@fbox\fbox{\raisebox{-\height}{\usebox{\hvCaptionBox}}}%
15300             \else         \raisebox{-\height}{\usebox{\hvCaptionBox}}%
15301             \fi
15302             \hspace{\hvSet@floatCapSep pt}% capfloatsep
15303             \ifhv@fbox\fbox{\raisebox{-\height}{\usebox{\hvObjectBox}}}

```



```

15304         \else         \raisebox{-\height}{\usebox{\hvObjectBox}}%
15305         \fi%
15306     \else% caption on bottom
15307         \ifhv@fbox\fbbox{\usebox{\hvCaptionBox}}
15308             \else\usebox{\hvCaptionBox}
15309         \fi%
15310         \hspace{\hvSet@floatCapSep pt}%
15311         \ifhv@fbox\fbbox{\usebox{\hvObjectBox}}
15312         \else         \usebox{\hvObjectBox}
15313         \fi%
15314     \fi%
15315 \fi%
15316 \else% not RTL
15317 \ifx\hvSet@capVPos\hv@Center%
15318 \ifhv@fbox
15319 \fbbox{\parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}}%
15320 \else
15321 \parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}
15322 \fi%
15323 \hspace{\hvSet@floatCapSep pt}%
15324 \ifhv@fbox
15325 \fbbox{\parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}}%
15326 \else
15327 \parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}
15328 \fi%
15329 \else%
15330 \ifx\hvSet@capVPos\hv@Top
15331 \ifhv@fbox
15332 \fbbox{\raisebox{-\height}{\usebox{\hvObjectBox}}}%
15333 \else
15334 \raisebox{-\height}{\usebox{\hvObjectBox}}%
15335 \fi%
15336 \hspace{\hvSet@floatCapSep pt}%
15337 \ifhv@fbox
15338 \fbbox{\raisebox{-\height}{\usebox{\hvCaptionBox}}}%
15339 \else
15340 \raisebox{-\height}{\usebox{\hvCaptionBox}}%
15341 \fi
15342 \else
15343 \ifhv@fbox
15344 \fbbox{\usebox{\hvObjectBox}}%
15345 \else
15346 \usebox{\hvObjectBox}%
15347 \fi
15348 \hspace{\hvSet@floatCapSep pt}%
15349 \ifhv@fbox
15350 \fbbox{\usebox{\hvCaptionBox}}%
15351 \else
15352 \usebox{\hvCaptionBox}%
15353 \fi%
15354 \fi%
15355 \fi
15356 \fi% end of RTL
15357 \fi

```



```

15358 \fi
15359 \fi
15360 }% End savebox Object and caption
15361 %
15362 % now we rotate the object and caption, if needed
15363 %
15364 \ifx\hvSet@rotAngle\hv@Zero
15365 \usebox{\@tempboxa}
15366 \else
15367 \rotatebox{\hvSet@rotAngle}{\usebox{\@tempboxa}}
15368 \fi
15369 \ifhv@nonFloat
15370 \ifx\hvSet@objectPos\hv@Center
15371 \ifhv@nonFloat
15372 \hspace{\fill}
15373 \fi
15374 \fi
15375 \endgroup% End the nonfloat part
15376 \else
15377 \end{\hv@floatType}% End the floating environment
15378 \fi
15379 }

```

## 102 File hyperref-xetex-bidi.def

```

15380 \ProvidesFile{hyperref-xetex-bidi.def}[2018/11/11 v1.1 bidi adaptations for hyperref package]
15381 \AtBeginDocument{%
15382 \def\contentsline#1#2#3#4{%
15383   \ifx\#4\%
15384     \csname l@#1\endcsname{#2}{#3}%
15385   \else
15386     \ifcase\Hy@linktoc % none
15387       \csname l@#1\endcsname{#2}{#3}%
15388     \or % section
15389       \csname l@#1\endcsname{%
15390         \hyper@linkstart{link}{#4}{\if@RTL\beginR\fi#2\if@RTL\endR\fi}\hyper@linkend
15391       }{#3}%
15392     \or % page
15393       \csname l@#1\endcsname{#2}{#3}%
15394       \hyper@linkstart{link}{#4}{#3}\hyper@linkend
15395     }%
15396   \else % all
15397     \csname l@#1\endcsname{%
15398       \hyper@linkstart{link}{#4}{\if@RTL\beginR\fi#2\if@RTL\endR\fi}\hyper@linkend
15399     }{%
15400       \hyper@linkstart{link}{#4}{#3}\hyper@linkend
15401     }%
15402   \fi
15403 \fi
15404 }
15405 \ifHy@hyperfootnotes
15406   \let\H@@footnotetext\@footnotetext
15407   \let\HRTL@RTLfootnotetext\@RTLfootnotetext
15408   \let\HLTR@LTRfootnotetext\@LTRfootnotetext

```



```

15409 \def\xfootnotenext[#1]{%
15410 \begingroup
15411 \csname c@\mpfn\endcsname #1\relax
15412 \unrestored@protected@xdef\@thefnmark{\thempfn}%
15413 \endgroup
15414 \ifx\@footnotetext\@mpfootnotetext
15415 \expandafter\H@\mpfootnotetext
15416 \else
15417 \expandafter\H@@footnotetext
15418 \fi
15419 }%
15420 \def\xRTLfootnotenext[#1]{%
15421 \begingroup
15422 \csname c@\mpfn\endcsname #1\relax
15423 \unrestored@protected@xdef\@thefnmark{\thempfn}%
15424 \endgroup
15425 \ifx\@RTLfootnotetext\@mpRTLfootnotetext
15426 \expandafter\HRTL@\mpRTLfootnotetext
15427 \else
15428 \expandafter\HRTL@@RTLfootnotetext
15429 \fi
15430 }%
15431 \def\xLTRfootnotenext[#1]{%
15432 \begingroup
15433 \csname c@\mpfn\endcsname #1\relax
15434 \unrestored@protected@xdef\@thefnmark{\thempfn}%
15435 \endgroup
15436 \ifx\@LTRfootnotetext\@mpLTRfootnotetext
15437 \expandafter\HLTR@\mpLTRfootnotetext
15438 \else
15439 \expandafter\HLTR@@LTRfootnotetext
15440 \fi
15441 }%
15442 \def\xfootnotemark[#1]{%
15443 \begingroup
15444 \c@footnote #1\relax
15445 \unrestored@protected@xdef\@thefnmark{\thefootnote}%
15446 \endgroup
15447 \H@\footnotemark
15448 }%
15449 \let\H@\mpfootnotetext\@mpfootnotetext
15450 \let\HRTL@\mpRTLfootnotetext\@mpRTLfootnotetext
15451 \let\HLTR@\mpLTRfootnotetext\@mpLTRfootnotetext
15452 \long\def\@mpfootnotetext#1{%
15453 \H@\mpfootnotetext{%
15454 \ifHy@nesting
15455 \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
15456 \else
15457 \Hy@raisedlink{%
15458 \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
15459 }#1%
15460 \fi
15461 }%
15462 }%

```



```

15463 \long\def\@mpRTLfootnotetext#1{%
15464   \HRTL@mpRTLfootnotetext{%
15465     \ifHy@nesting
15466       \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
15467     \else
15468       \Hy@raisedlink{%
15469         \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
15470       }#1%
15471     \fi
15472   }%
15473 }%
15474 \long\def\@mplTRfootnotetext#1{%
15475   \HLTR@mplTRfootnotetext{%
15476     \ifHy@nesting
15477       \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
15478     \else
15479       \Hy@raisedlink{%
15480         \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
15481       }#1%
15482     \fi
15483   }%
15484 }%
15485 \long\def\@footnotetext#1{%
15486   \H@@footnotetext{%
15487     \ifHy@nesting
15488       \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
15489     \else
15490       \Hy@raisedlink{%
15491         \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
15492       }%
15493       \let\@currentHlabel\Hy@footnote@currentHlabel
15494       \let\@currentHref\Hy@footnote@currentHref
15495       \let\@currentlabelname\@empty
15496       #1%
15497     \fi
15498   }%
15499 }%
15500 \long\def\@RTLfootnotetext#1{%
15501   \HRTL@RTLfootnotetext{%
15502     \ifHy@nesting
15503       \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
15504     \else
15505       \Hy@raisedlink{%
15506         \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
15507       }%
15508       \let\@currentHlabel\Hy@footnote@currentHlabel
15509       \let\@currentHref\Hy@footnote@currentHref
15510       \let\@currentlabelname\@empty
15511       #1%
15512     \fi
15513   }%
15514 }%
15515 \long\def\@LTRfootnotetext#1{%
15516   \HLTR@LTRfootnotetext{%

```



```

15517 \ifHy@nesting
15518 \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
15519 \else
15520 \Hy@raisedlink{%
15521 \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
15522 }%
15523 \let\@currentHlabel\Hy@footnote@currentHlabel
15524 \let\@currentHref\Hy@footnote@currentHref
15525 \let\@currentlabelname\@empty
15526 #1%
15527 \fi
15528 }%
15529 }%
15530 \@ifpackageloaded{tabularx}{%
15531 \let\HyOrg@TX@endtabularx\TX@endtabularx
15532 \def\Hy@tabularx@hook{%
15533 \let\@footnotetext\H@@footnotetext
15534 \let\@LTRfootnotetext\HLTR@@LTRfootnotetext
15535 \let\@RTLfootnotetext\HRTL@@RTLfootnotetext
15536 \let\@footnotemark\H@@footnotemark
15537 \let\@mpfootnotetext\H@@mpfootnotetext
15538 \let\@mpLTRfootnotetext\HLTR@@mpLTRfootnotetext
15539 \let\@mpRTLfootnotetext\HRTL@@mpRTLfootnotetext
15540 }%
15541 \begingroup
15542 \toks@\expandafter{\TX@endtabularx}%
15543 \xdef\Hy@gtemp{%
15544 \noexpand\Hy@tabularx@hook
15545 \the\toks@
15546 }%
15547 \endgroup
15548 \let\TX@endtabularx\Hy@gtemp
15549 }{}%
15550 \@ifpackageloaded{longtable}{%
15551 \CheckCommand*{\LT@p@LTRftntext}[1]{%
15552 \edef\@tempa{%
15553 \the\LT@p@ftn
15554 \noexpand\LTRfootnotetext[\the\c@footnote]%
15555 }%
15556 \global\LT@p@ftn\expandafter{\@tempa{#1}}%
15557 }%
15558 \long\def\LT@p@LTRftntext#1{%
15559 \edef\@tempa{%
15560 \the\LT@p@ftn
15561 \begingroup
15562 \noexpand\c@footnote=\the\c@footnote\relax
15563 \noexpand\protected\xdef\noexpand\@thefnmark{%
15564 \noexpand\thempfn
15565 }%
15566 \noexpand\Hy@LT@LTRfootnotetext{%
15567 \Hy@footnote@currentHref
15568 }%
15569 }%
15570 \global\LT@p@ftn\expandafter{%

```



```

15571         \@tempa{#1}%
15572     \endgroup
15573 }%
15574 }%
15575 \long\def\Hy@LT@LTRfootnotetext#1#2{%
15576 \HLTR@@LTRfootnotetext{%
15577     \ifHy@nesting
15578     \hyper@@anchor{#1}{#2}%
15579     \else
15580     \Hy@raisedlink{%
15581         \hyper@@anchor{#1}{\relax}%
15582     }%
15583     \def\@currentHref{#1}%
15584     \let\@currentlabelname\@empty
15585     #2%
15586 \fi
15587 }%
15588 }%
15589 \CheckCommand*{\LT@p@RTLftntext}[1]{%
15590     \edef\@tempa{%
15591         \the\LT@p@ftn
15592         \noexpand\RTLfootnotetext[\the\c@footnote]%
15593     }%
15594     \global\LT@p@ftn\expandafter{\@tempa{#1}}%
15595 }%
15596 \long\def\LT@p@RTLftntext#1{%
15597     \edef\@tempa{%
15598         \the\LT@p@ftn
15599         \begingroup
15600         \noexpand\c@footnote=\the\c@footnote\relax
15601         \noexpand\protected@xdef\noexpand\@thefnmark{%
15602             \noexpand\thempfn
15603         }%
15604         \noexpand\Hy@LT@RTLfootnotetext{%
15605             \Hy@footnote@currentHref
15606         }%
15607     }%
15608     \global\LT@p@ftn\expandafter{%
15609         \@tempa{#1}%
15610     \endgroup
15611 }%
15612 }%
15613 \long\def\Hy@LT@RTLfootnotetext#1#2{%
15614 \HRTL@@RTLfootnotetext{%
15615     \ifHy@nesting
15616     \hyper@@anchor{#1}{#2}%
15617     \else
15618     \Hy@raisedlink{%
15619         \hyper@@anchor{#1}{\relax}%
15620     }%
15621     \def\@currentHref{#1}%
15622     \let\@currentlabelname\@empty
15623     #2%
15624 \fi

```



```

15625     }%
15626   }%
15627 }{}%
15628   \@ifpackageloaded{bidipoem}{%
15629   \long\def\bidipoem@p@ftntext#1{%
15630     \edef\@tempix{%
15631       \the\bidipoem@p@ftn
15632       \beginngroup
15633         \noexpand\csname c@\@mpfn\endcsname=\the\csname c@\@mpfn\endcsname\relax
15634         \noexpand\protected@xdef\noexpand\@thefnmark{%
15635           \noexpand\thempfn
15636         }%
15637         \noexpand\Hy@bidipoem@footnotetext{%
15638           \Hy@footnote@currentHref
15639         }%
15640       }%
15641       \global\bidipoem@p@ftn\expandafter{%
15642         \@tempix{#1}%
15643       \endgroup
15644     }%
15645   }%
15646   \long\def\Hy@bidipoem@footnotetext#1#2{%
15647     \H@@footnotetext{%
15648       \ifHy@nesting
15649         \hyper@@anchor{#1}{#2}%
15650       \else
15651         \Hy@raisedlink{%
15652           \hyper@@anchor{#1}{\relax}%
15653         }%
15654         \def\@currentHref{#1}%
15655         \let\@currentlabelname\@empty
15656         #2%
15657       \fi
15658     }%
15659   }%
15660   \long\def\bidipoem@p@LTRftntext#1{%
15661     \edef\@tempxi{%
15662       \the\bidipoem@p@ftn
15663       \beginngroup
15664         \noexpand\csname c@\@mpfn\endcsname=\the\csname c@\@mpfn\endcsname\relax
15665         \noexpand\protected@xdef\noexpand\@thefnmark{%
15666           \noexpand\thempfn
15667         }%
15668         \noexpand\Hy@bidipoem@LTRfootnotetext{%
15669           \Hy@footnote@currentHref
15670         }%
15671       }%
15672       \global\bidipoem@p@ftn\expandafter{%
15673         \@tempxi{#1}%
15674       \endgroup
15675     }%
15676   }%
15677   \long\def\Hy@bidipoem@LTRfootnotetext#1#2{%
15678     \HLTR@@LTRfootnotetext{%

```



```

15679     \ifHy@nesting
15680     \hyper@@anchor{#1}{#2}%
15681   \else
15682     \Hy@raisedlink{%
15683       \hyper@@anchor{#1}{\relax}%
15684     }%
15685     \def\@currentHref{#1}%
15686     \let\@currentlabelname\@empty
15687     #2%
15688   \fi
15689 }%
15690 }%
15691   \long\def\bidipoem@p@RTLftntext#1{%
15692   \edef\@tempxi{%
15693     \the\bidipoem@p@ftn
15694     \begingroup
15695       \noexpand\csname c@\@mpfn\endcsname=\the\csname c@\@mpfn\endcsname\relax
15696       \noexpand\protected@xdef\noexpand\@thefnmark{%
15697         \noexpand\thempfn
15698       }%
15699       \noexpand\Hy@bidipoem@RTLfootnotetext{%
15700         \Hy@footnote@currentHref
15701       }%
15702     }%
15703     \global\bidipoem@p@ftn\expandafter{%
15704       \@tempxi{#1}%
15705     \endgroup
15706   }%
15707 }%
15708 \long\def\Hy@bidipoem@RTLfootnotetext#1#2{%
15709   \HRTL@@RTLfootnotetext{%
15710     \ifHy@nesting
15711     \hyper@@anchor{#1}{#2}%
15712   \else
15713     \Hy@raisedlink{%
15714       \hyper@@anchor{#1}{\relax}%
15715     }%
15716     \def\@currentHref{#1}%
15717     \let\@currentlabelname\@empty
15718     #2%
15719   \fi
15720 }%
15721 }%
15722 }-}%
15723 \let\HyOrg@maketitle\maketitle
15724 \def\maketitle{%
15725   \let\Hy@saved@footnotemark\@footnotemark
15726   \let\Hy@saved@footnotetext\@footnotetext
15727   \let\HyRTL@saved@RTLfootnotetext\@RTLfootnotetext
15728   \let\HyLTR@saved@LTRfootnotetext\@LTRfootnotetext
15729   \let\@footnotemark\H@@footnotemark
15730   \let\@footnotetext\H@@footnotetext
15731   \let\@RTLfootnotetext\HRTL@@RTLfootnotetext
15732   \let\@LTRfootnotetext\HLTR@@LTRfootnotetext

```



```

15733 \@ifnextchar[\Hy@maketitle@optarg{% ]
15734 \HyOrg@maketitle
15735 \Hy@maketitle@end
15736 }%
15737 }%
15738 \def\Hy@maketitle@optarg[#1]{%
15739 \HyOrg@maketitle[{#1}]%
15740 \Hy@maketitle@end
15741 }%
15742 \def\Hy@maketitle@end{%
15743 \ifx\@footnotemark\H@@footnotemark
15744 \let\@footnotemark\Hy@saved@footnotemark
15745 \fi
15746 \ifx\@footnotetext\H@@footnotetext
15747 \let\@footnotetext\Hy@saved@footnotetext
15748 \fi
15749 \ifx\@RTLfootnotetext\HRTL@@RTLfootnotetext
15750 \let\@RTLfootnotetext\HyRTL@saved@RTLfootnotetext
15751 \fi
15752 \ifx\@LTRfootnotetext\HLTR@@LTRfootnotetext
15753 \let\@LTRfootnotetext\HyLTR@saved@LTRfootnotetext
15754 \fi
15755 }%
15756 \def\realfootnote{%
15757 \@ifnextchar[\@xfootnote{%
15758 \stepcounter{\@mpfn}%
15759 \protected@xdef\@thefnmark{\thempfn}%
15760 \H@@@footnotemark\H@@@footnotetext
15761 }%
15762 }%
15763 \fi
15764 \def\Hy@BeginAnnot#1{%
15765 \ifmmode\else\beginL\fi%
15766 \global\advance\c@Hy@AnnotLevel\@ne
15767 \ifnum\c@Hy@AnnotLevel=\@ne
15768 #1%
15769 \fi
15770 }
15771 \def\Hy@EndAnnot{%
15772 \ifnum\c@Hy@AnnotLevel=\@ne
15773 \Hy@endcolorlink
15774 \@pdfm@mark{eann}%
15775 \fi
15776 \global\advance\c@Hy@AnnotLevel\m@ne
15777 \ifmmode\else\endL\fi%
15778 }
15779 \def\hyper@link#1#2#3{%
15780 \hyper@linkstart{#1}{#2}\ifmmode\else\if@RTL\beginR\fi\fi#3\ifmmode\else\if@RTL\endR\fi\fi
15781 }
15782 \def\hyper@linkfile#1#2#3{%
15783 \leavevmode
15784 \Hy@BeginAnnot{%
15785 \def\Hy@pstringF{#2}%
15786 \Hy@CleanupFile\Hy@pstringF

```



```

15787 \Hy@pstringdef\Hy@pstringF\Hy@pstringF
15788 \Hy@pstringdef\Hy@pstringD{#3}%
15789 \Hy@MakeRemoteAction
15790 \@pdfm@mark{%
15791   bann<<%
15792     /Type/Annot%
15793     /Subtype/Link%
15794     \ifHy@pdfa /F 4\fi
15795     \Hy@setpdfborder
15796     \ifx\@filebordercolor\relax
15797     \else
15798       /C[\@filebordercolor]%
15799     \fi
15800   /A<<%
15801     /S/GoToR%
15802     /F(\Hy@pstringF)%
15803     /D%
15804     \ifx\#3\%
15805       [\Hy@href@page\@pdfremotestartview]%
15806     \else
15807       (\Hy@pstringD)%
15808     \fi
15809     \Hy@SetNewWindow
15810     \Hy@href@nextactionraw
15811   >>%
15812 >>%
15813 }%
15814 \Hy@colorlink\@filecolor
15815 }%
15816 \ifmmode\else\if@RTL\beginR\fi\fi#1\ifmmode\else\if@RTL\endR\fi\fi\Hy@xspace@end
15817 \Hy@endAnnot
15818 }
15819 \def\@hyper@launch run:#1\#2#3{% filename, anchor text linkname
15820 \leavevmode
15821 \Hy@BeginAnnot{%
15822   \Hy@pstringdef\Hy@pstringF{#1}%
15823   \Hy@pstringdef\Hy@pstringP{#3}%
15824   \@pdfm@mark{%
15825     bann<<%
15826       /Type/Annot%
15827       /Subtype/Link%
15828       \ifHy@pdfa /F 4\fi
15829       \Hy@setpdfborder
15830       \ifx\@runbordercolor\relax
15831       \else
15832         /C[\@runbordercolor]%
15833       \fi
15834     /A<<%
15835       /F(\Hy@pstringF)%
15836       /S/Launch%
15837       \Hy@SetNewWindow
15838       \ifx\#3\%
15839       \else
15840         /Win<</P(\Hy@pstringP)/F(\Hy@pstringF)>>%

```



```

15841         \fi
15842         \Hy@href@nextactionraw
15843         >>%
15844         >>%
15845     }%
15846     \Hy@colorlink\@runcolor
15847 }%
15848 \ifmmode\else\if@RTL\beginR\fi\fi#2\ifmmode\else\if@RTL\endR\fi\fi\Hy@xspace@end
15849 \Hy@EndAnnot
15850 }
15851 \def\hyper@linkurl#1#2{%
15852     \leavevmode
15853     \Hy@BeginAnnot{%
15854         \Hy@pstringdef\Hy@pstringURI{#2}%
15855         \@pdfm@mark{%
15856             bann<<%
15857             /Type/Annot%
15858             /Subtype/Link%
15859             \ifHy@pdfa /F 4\fi
15860             \Hy@setpdfborder
15861             \ifx\@urlbordercolor\relax
15862             \else
15863                 /C[\@urlbordercolor]%
15864             \fi
15865             /A<<%
15866             /S/URI%
15867             /URI(\Hy@pstringURI)%
15868             \ifHy@href@ismap
15869                 /IsMap true%
15870             \fi
15871             \Hy@href@nextactionraw
15872             >>%
15873             >>%
15874         }%
15875         \Hy@colorlink\@urlcolor
15876     }%
15877     \ifmmode\else\if@RTL\beginR\fi\fi#1\ifmmode\else\if@RTL\endR\fi\fi\Hy@xspace@end
15878     \Hy@EndAnnot
15879 }
15880 \def\Acrobatmenu#1#2{%
15881     \Hy@Acrobatmenu{#1}{#2}%
15882     \Hy@BeginAnnot{%
15883         \EdefEscapeName\Hy@temp@menu{#1}%
15884         \@pdfm@mark{%
15885             bann<<%
15886             /Type/Annot%
15887             /Subtype/Link%
15888             \ifHy@pdfa /F 4\fi
15889             \Hy@setpdfborder
15890             \ifx\@menubordercolor\relax
15891             \else
15892                 /C[\@menubordercolor]%
15893             \fi
15894             /A<<%

```



```

15895         /S/Named%
15896         /N/\Hy@temp@menu
15897         \Hy@href@nextactionraw
15898         >>%
15899         >>%
15900     }%
15901     \Hy@colorlink\@menucolor
15902 }%
15903 \ifmmode\else\if@RTL\beginR\fi\fi#2\ifmmode\else\if@RTL\endR\fi\fi\Hy@xspace@end
15904 \Hy@endAnnot
15905 }%
15906 }
15907 \def\hyper@natlinkstart#1{%
15908     \Hy@backout{#1}%
15909     \hyper@linkstart{cite}{cite.#1}\if@RTL\beginR\fi%
15910     \def\hyper@nat@current{#1}%
15911 }
15912 \def\hyper@natlinkend{%
15913     \if@RTL\endR\fi\hyper@linkend
15914 }
15915 \def\hyper@natlinkbreak#1#2{%
15916     \if@RTL\endR\fi\hyper@linkend#1\hyper@linkstart{cite}{cite.#2}\if@RTL\beginR\fi%
15917 }%
15918 }
15919 \pdfstringdefDisableCommands{%
15920 \let\LRE\@firstofone
15921 \let\LR\@firstofone
15922 \let\RLE\@firstofone
15923 \let\RL\@firstofone
15924 \def\XeTeX{XeTeX}%
15925 \def\XeLaTeX{XeLaTeX}%
15926 }
15927 \@ifpackageloaded{longtable}{%
15928     \begingroup
15929         \def\y{\LT@array}%
15930         \@ifundefined{scr@LT@array}{%
15931             \@ifundefined{adl@LT@array}{%
15932                 \def\y{\adl@LT@array}}%
15933             \def\y{\scr@LT@array}}%
15934         \long\def\x{\refstepcounter#1#2\@sharp#3#4\@nil}%
15935         \expandafter\endgroup
15936         \expandafter\def\y[##1]##2{%
15937             \H@refstepcounter{#1}%
15938             \hyper@makecurrent{table}%
15939             \let\Hy@LT@currentHref\@currentHref
15940             #2\@sharp###4%
15941         }%
15942     \expandafter\expandafter\expandafter\x\y[##1]##2\@nil
15943     \begingroup
15944         \def\x#1\ifvoid\LT@foot#2\fi#3\@nil{%
15945             \endgroup
15946             \def\LT@start{%
15947                 #1%
15948                 \ifvoid\LT@foot#2\fi

```



```

15949         \let\@currentHref\Hy@LT@currentHref
15950         \Hy@raisedlink{%
15951             \hyper@anchorstart{\@currentHref}\hyper@anchorend
15952         }%
15953         #3%
15954     }%
15955 }%
15956 \expandafter\x\LT@start\@nil
15957 }{}
15958 \bidi@patchcmd\@TextField{%
15959     \@pdfm@mark
15960 }{%
15961     \if@RTL
15962         \hskip\Fld@width
15963     \fi
15964     \@pdfm@mark
15965 }{}{}
15966 \bidi@patchcmd\@TextField{%
15967     \unhbox
15968 }{%
15969     \if@RTL
15970         \hskip-\Fld@width
15971     \fi
15972     \unhbox
15973 }{}{}
15974 \bidi@patchcmd\@@Radio{%
15975     \@pdfm@mark
15976 }{%
15977     \if@RTL
15978         \hskip\Fld@width
15979     \fi
15980     \@pdfm@mark
15981 }{}{}
15982 \bidi@patchcmd\@@Radio{%
15983     \unhcopy
15984 }{%
15985     \if@RTL
15986         \hskip-\Fld@width
15987     \fi
15988     \unhcopy
15989 }{}{}
15990 \bidi@patchcmd\@Submit{%
15991     \@pdfm@mark
15992 }{%
15993     \if@RTL
15994         \null
15995         \hskip\wd\pdfm@box
15996     \fi
15997     \@pdfm@mark
15998 }{}{}
15999 \bidi@patchcmd\@Submit{%
16000     \unhbox
16001 }{%
16002     \if@RTL

```



```

16003 \hskip-\wd\pdfm@box
16004 \fi
16005 \unhbox
16006 }{}{}
16007 \bidi@patchcmd\@Reset{%
16008 \@pdfm@mark
16009 }{%
16010 \if@RTL
16011 \null
16012 \hskip\wd\pdfm@box
16013 \fi
16014 \@pdfm@mark
16015 }{}{}
16016 \bidi@patchcmd\@Reset{%
16017 \unhbox
16018 }{%
16019 \if@RTL
16020 \hskip-\wd\pdfm@box
16021 \fi
16022 \unhbox
16023 }{}{}

```

## 103 File `imsproc-xetex-bidi.def`

```

16024 \ProvidesFile{imsproc-xetex-bidi.def}[2017/06/09 v0.1 bidi adaptations for imspoc class for
16025 \newenvironment{thebibliography}[1]{%
16026 \@bibtitlestyle
16027 \normalfont\bibliofont\labelsep .5em\relax
16028 \renewcommand\theenumiv{\arabic{enumiv}}\let\p@enumiv\@empty
16029 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
16030 \bidi@thebibliography@font@hook
16031 \list{\@biblabel{\theenumiv}}{\settowidth\labelwidth{\@biblabel{#1}}%
16032 \leftmargin\labelwidth \advance\leftmargin\labelsep
16033 \usecounter{enumiv}}%
16034 \sloppy \clubpenalty\@M \widowpenalty\clubpenalty
16035 \sfcode`\.=\@m
16036 }{%
16037 \def\@noitemerr{\@latex@warning{Empty `thebibliography' environment}}%
16038 \endlist
16039 }
16040
16041 \def\theindex{\@restonecoltrue\if@twocolumn\@restonecolfalse\fi
16042 \columnseprule\z@ \columnsep 35\p@
16043 \@indextitlestyle
16044 \thispagestyle{plain}%
16045 \let\item\@idxitem
16046 \parindent\z@ \parskip\z@\@plus.3\p@\relax
16047 \if@RTL\raggedleft\else\raggedright\fi
16048 \hyphenpenalty\@M
16049 \footnotesize}
16050 \def\@idxitem{\par\hangindent \if@RTL-\fi2em}
16051 \def\subitem{\par\hangindent \if@RTL-\fi2em\hspace*{1em}}
16052 \def\subsubitem{\par\hangindent \if@RTL-\fi3em\hspace*{2em}}
16053

```



```

16054 \def\right@footnoterule{%
16055   \kern-.4\p@
16056   \hbox to \columnwidth{\hskip \dimexpr\columnwidth-5pc\relax \hrulefill }
16057   \kern11\p@\kern-\footnotesep}
16058 \def\left@footnoterule{\kern-.4\p@
16059   \hrule\@width 5pc\kern11\p@\kern-\footnotesep}
16060 \def\@makefnmark{%
16061   \leavevmode
16062   \raise.9ex\hbox{\fontsize\sf@size\z@\normalfont\@thefnmark}%
16063 }
16064
16065 \def\part{\@startsection{part}{0}%
16066   \z@\linespacing\@plus\linespacing}{.5\linespacing}%
16067   {\normalfont\bfseries\if@RTL\raggedleft\else\raggedright\fi}}
16068 \def\@tocline#1#2#3#4#5#6#7{\relax
16069   \ifnum #1>\c@tocdepth % then omit
16070   \else
16071     \par \addpenalty\@secpenalty\addvspace{#2}%
16072     \begingroup \hyphenpenalty\@M
16073     \@ifempty{#4}{%
16074       \@tempdima\csname r@tocindent\number#1\endcsname\relax
16075     }{%
16076       \@tempdima#4\relax
16077     }%
16078     \parindent\z@ \if@RTL\righskip\else\leftskip\fi#3\relax \advance\if@RTL\righskip\else\
16079     \if@RTL\leftskip\else\righskip\fi\@pnumwidth plus4em \parfillskip-\@pnumwidth
16080     #5\leavevmode\hskip-\@tempdima #6\nobreak\relax
16081     \hfil\hbox to\@pnumwidth{\@tocpagenum{#7}}\par
16082     \nobreak
16083     \endgroup
16084   \fi}
16085 \renewcommand\thesubsection {\thesection\@SepMark\arabic{subsection}}
16086 \renewcommand\thesubsubsection {\thesubsection \@SepMark\arabic{subsubsection}}
16087 \renewcommand\theparagraph {\thesubsubsection\@SepMark\arabic{paragraph}}
16088 \renewcommand\thesubparagraph {\theparagraph\@SepMark\arabic{subparagraph}}
16089 \def\maketitle{\par
16090   \@topnum\z@ % this prevents figures from falling at the top of page 1
16091   \@setcopyright
16092   \thispagestyle{firstpage}% this sets first page specifications
16093   \uppercasenonmath\shorttitle
16094   \ifx\@empty\shortauthors \let\shortauthors\shorttitle
16095   \else \andify\shortauthors
16096   \fi
16097   \@maketitle@hook
16098   \begingroup
16099   \@maketitle
16100   \toks@\@xp{\shortauthors}\@temptokena\@xp{\shorttitle}%
16101   \toks4{\def\{\ignorespaces}}% defend against questionable usage
16102   \edef\@tempa{%
16103     \nx\markboth{\the\toks4
16104       \nx\MakeUppercase{\the\toks@}}{\the\@temptokena}}%
16105   \@tempa
16106   \endgroup
16107   \c@footnote\z@

```



```

16108 \@cleartopmattertags
16109 }

```

## 104 File leqno-xetex-bidi.def

```

16110 \ProvidesFile{leqno-xetex-bidi.def}[2018/01/07 v0.2 bidi adaptations for leqno tag for XeTeX]
16111 \renewcommand\@eqnnum{\hb@xt@.01\p@{}}%
16112 \rlap{\hskip -\displaywidth
16113 \normalfont\normalcolor\if@RTL\beginR\fi(\theequation)\if@RTL\endR\fi}

```

## 105 File letter-xetex-bidi.def

```

16114 \ProvidesFile{letter-xetex-bidi.def}[2015/11/14 v0.3 bidi adaptations for standard letter class]
16115 \renewcommand*\opening[1]{\ifx\@empty\fromaddress
16116 \thispagestyle{firstpage}%
16117 \if@RTL\raggedright\else\raggedleft\fi\@date\par}%
16118 \else % home address
16119 \thispagestyle{empty}%
16120 \if@RTL\raggedright\else\raggedleft\fi\if@RTL\begin{tabular}{r@{}}\else\begin{tabular}{l@{}}
16121 \fromaddress \*[2\parskip]%
16122 \@date \end{tabular}\par}%
16123 \fi
16124 \vspace{2\parskip}%
16125 \if@RTL\raggedleft\else\raggedright\fi \toname \ \ toaddress \par}%
16126 \vspace{2\parskip}%
16127 #1\par\nobreak}
16128 \renewcommand\left@footnoterule{%
16129 \kern-\p@
16130 \hrule \@width .4\columnwidth
16131 \kern .6\p@}
16132 \renewcommand\right@footnoterule{%
16133 \kern-\p@
16134 \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
16135 \kern .6\p@}

```

## 106 File lettrine-xetex-bidi.def

```

16136 \ProvidesFile{lettrine-xetex-bidi.def}[2019/05/01 v0.7 bidi adaptations for lettrine package]
16137 \def\@lettrine[#1]#2#3{%
16138 \def\l@initial{#2}\let\l@refstring\l@initial
16139 \setcounter{L@lines}{\value{DefaultLines}}%
16140 \setcounter{L@depth}{\value{DefaultDepth}}%
16141 \renewcommand*\L@hang{\DefaultLhang}%
16142 \renewcommand*\L@oversize{\DefaultLoversize}%
16143 \renewcommand*\L@raise{\DefaultLraise}%
16144 \renewcommand*\L@ante{}%
16145 \setlength{\L@Findent}{\DefaultFindent}%
16146 \setlength{\L@Nindent}{\DefaultNindent}%
16147 \setlength{\L@slope}{\DefaultSlope}%
16148 \setlength{\L@novskip}{\DiscardVskip}%
16149 \ifLettrineImage\L@imagetrue\else\L@imagefalse\fi
16150 \ifLettrineOnGrid\L@gridtrue\else\L@gridfalse\fi
16151 \ifLettrineRealHeight\L@realhtrue\else\L@realhfalse\fi
16152 \ifLettrineSelfRef\L@selfreftrue\else\L@selfreffalse\fi

```



```

16153 \setkeys{L}{#1}%
16154 \sbox{\L@tbox}{\LettrineTextFont{\LettrineSecondString}}%
16155 \ifL@realh
16156   \def\@tempa{#3}%
16157   \ifx\@tempa\@empty
16158     \PackageWarning{lettrine.sty}%
16159       {Empty second argument, \MessageBreak
16160         ignoring option `realheight'};%
16161   \else
16162     \sbox{\L@tbox}{\LettrineTextFont{#3}}%
16163   \fi
16164 \fi
16165 \if\DefaultOptionsFile\relax
16166 \else
16167   \begingroup
16168   \InputIfFileExists{\DefaultOptionsFile}%
16169   {}%
16170   {\PackageWarning{lettrine.sty}%
16171     {File \DefaultOptionsFile\space not found}}%
16172  }%
16173   \def\color##1##{\l@color{##1}}%
16174   \let\l@color\@gobbletwo
16175   \def\textcolor##1##{\l@textcolor{##1}}%
16176   \def\l@textcolor##1##2##3{##3}%
16177   \expandafter\ifx\csname l@#2-keys\endcsname\relax
16178     \gdef\l@LOKeys{}%
16179   \else
16180     \xdef\l@LOKeys{\csname l@#2-keys\endcsname}%
16181   \fi
16182 \endgroup
16183 \def\KV@prefix{KV@L@}%
16184 \let\@tempc\relax
16185 \expandafter\KV@do\l@LOKeys,\relax,
16186 \setupL@lbox
16187 \setlength{\LettrineWidth}{\wd\L@lbox}%
16188 \def\KV@prefix{KV@L@}%
16189 \let\@tempc\relax
16190 \expandafter\KV@do\l@LOKeys,\relax,
16191 \setkeys{L}{#1}%
16192 \fi
16193 \setupL@lbox
16194 \setlength{\LettrineWidth}{\wd\L@lbox}%
16195 \setlength{\LettrineHeight}{\ht\L@lbox}%
16196 \setlength{\LettrineDepth}{\dp\L@lbox}%
16197 \begingroup
16198 \def\IeC##1{##1}%
16199 \@tempdima=L@oversize pt\relax
16200 \PackageInfo{lettrine.sty}%
16201   {Targeted height = \the\L@target@tth\MessageBreak
16202     (no accent, loversize=0), \MessageBreak
16203     Lettrine height = \the\LettrineHeight\space (#2)%
16204     \ifdim\@tempdima=z@\else\space loversize=L@oversize\fi;%
16205     \MessageBreak reported}%
16206 \endgroup

```



```

16207 \sbox{\L@tbox}{\LettrineTextFont{#3}}%
16208 \setlength{\L@first}{\LettrineHeight}%
16209 \setlength{\L@lraise}{\L@raise\L@target@ttht}%
16210 \addtolength{\L@first}{\L@lraise}%
16211 \ifnum\value{L@lines}=1
16212   \addtolength{\L@first}{-\ht\L@tbox}%
16213 \else
16214   \addtolength{\L@first}{-\L@target@ttht}%
16215   \addtolength{\L@lraise}{-\L@target@dp}%
16216 \fi
16217 \par
16218 \ifdim\L@first>\L@novskip
16219   \ifL@grid
16220     \@tempdima=\baselineskip
16221     \@tempdimb=\@tempdima
16222     \advance\@tempdimb by \L@novskip
16223     \@tempcnta=1
16224     \loop\ifdim\L@first>\@tempdimb
16225       \advance\@tempcnta by 1
16226       \advance\L@first by -\@tempdima
16227     \repeat
16228     \L@first=\@tempcnta\baselineskip
16229   \fi
16230   \vskip\L@first
16231 \fi
16232 \setlength{\L@Pindent}{\wd\L@lbox}%
16233 \addtolength{\L@Pindent}{-\L@hang\wd\L@lbox}%
16234 \settowidth{\L@first}{\L@ante}%
16235 \addtolength{\L@Pindent}{\L@first}%
16236 \addtolength{\L@Pindent}{\L@Findent}%
16237 \setlength{\L@first}{\linewidth}%
16238 \addtolength{\L@first}{-\L@Pindent}%
16239 \addtolength{\L@Nindent}{\L@Pindent}%
16240 \setlength{\L@next}{\linewidth}%
16241 \addtolength{\L@next}{-\L@Nindent}%
16242 \addtolength{\L@Pindent}{\@totalleftmargin}%
16243 \addtolength{\L@Nindent}{\@totalleftmargin}%
16244 \addtocounter{L@lines}{1}%
16245 \addtocounter{L@lines}{\value{L@depth}}%
16246 \ifRTL
16247   \def\L@parshape{\c@L@lines \z@ \the\L@first}%
16248 \else
16249   \def\L@parshape{\c@L@lines \the\L@Pindent \the\L@first}%
16250 \fi
16251 \@tempcnta=\tw@
16252 \@whilenum \@tempcnta<\c@L@lines\do{%
16253   \ifRTL
16254     \edef\L@parshape{\L@parshape \z@ \the\L@next}%
16255   \else
16256     \edef\L@parshape{\L@parshape \the\L@Nindent \the\L@next}%
16257   \fi
16258   \addtolength{\L@Nindent}{\L@slope}%
16259   \addtolength{\L@next}{-\L@slope}%
16260   \advance\@tempcnta\@ne}%

```



```

16261 \if@RTL
16262   \edef\L@parshape{\L@parshape \z@ \the\linewidth}%
16263 \else
16264   \edef\L@parshape{\L@parshape \@totalleftmargin \the\linewidth}%
16265 \fi
16266 \noindent
16267 \parshape=\L@parshape\relax
16268 \smash{\llap{\mbox{\L@ante}\raisebox{\L@lraise}{\usebox{\L@lbox}}}%
16269   \hskip \the\L@Findent}}%
16270 \usebox{\L@tbox}%
16271 \ifnum\@listdepth>0 \Lreset@listparshape \fi
16272 }

```

## 107 File lineno-xetex-bidi.def

```

16273 \ProvidesFile{lineno-xetex-bidi.def}[2018/01/28 v0.2 bidi adaptations for lineno package for
16274 \bidi@patchcmd{\MakeLineNo}{%
16275   \hb@xt@\z@{\makeLineNumber}%
16276 }{%
16277   \hboxL to \z@{\makeLineNumber}%
16278 }{}{}
16279
16280 \bidi@patchcmd{\makeLineNumberLeft}{\LineNumber}{%
16281   \if@RTL
16282     \hb@xt@\linewidthwidth{\LineNumber\hss}%
16283   \else
16284     \LineNumber
16285   \fi
16286 }{}{}
16287
16288 \bidi@patchcmd{\makeLineNumberRight}{%
16289   \hb@xt@\linewidthwidth{\hss\LineNumber}%
16290 }{%
16291   \if@RTL
16292     \LineNumber
16293   \else
16294     \hb@xt@\linewidthwidth{\hss\LineNumber}%
16295   \fi
16296 }{}{}
16297
16298 \bidi@AfterPreamble{%
16299   \if@RTLmain
16300     \rightlinenumbers*
16301   \else
16302     \leftlinenumbers*
16303   \fi
16304   \@ifpackagewith{lineno}{left}{%
16305     \leftlinenumbers*
16306   }{}
16307   \@ifpackagewith{lineno}{right}{%
16308     \rightlinenumbers*
16309   }{}
16310 }
16311

```



## 108 File listings-xetex-bidi.def

```

16312 \ProvidesFile{listings-xetex-bidi.def}[2018/09/15 v1.5 bidi adaptations for listings package]
16313 \lst@Key{captiondirection}{textdirection}{%
16314   \lstKV@SwitchCases{#1}%
16315   {textdirection:\\%
16316     RTL:\chardef\bidi@lst@caption@direction\@ne\\%
16317     LTR:\chardef\bidi@lst@caption@direction\z@%
16318   }{\PackageError{Listings}{direction #1 unknown}\@ehc}}
16319
16320 \lst@Key{captionscript}{textscript}{%
16321   \lstKV@SwitchCases{#1}%
16322   {textscript:\\%
16323     latin:\chardef\bidi@lst@caption@script\@ne\\%
16324     nonlatin:\chardef\bidi@lst@caption@script\z@%
16325   }{\PackageError{Listings}{direction #1 unknown}\@ehc}}
16326
16327 \newcommand*{\bidi@lst@ensure@caption@direction}[2]{%
16328   \@ifundefined{bidi@lst@caption@direction}{-}{%
16329     \ifnum\bidi@lst@caption@direction=\z@%
16330       #1%
16331     \else%
16332       \ifnum\bidi@lst@caption@direction=\@ne%
16333         #2%
16334       \fi%
16335     \fi%
16336   }}
16337
16338 \newcommand*{\bidi@lst@ensure@caption@script}[2]{%
16339   \@ifundefined{bidi@lst@caption@script}{-}{%
16340     \ifnum\bidi@lst@caption@script=\z@%
16341       #1%
16342     \else%
16343       \ifnum\bidi@lst@caption@script=\@ne%
16344         #2%
16345       \fi%
16346     \fi%
16347   }}
16348
16349 \long\def\@bidi@lst@makecaption#1#2{%
16350   \bidi@lst@ensure@caption@script{\@nonlatintrue}{\@nonlatinfalse}%
16351   \vskip\abovcaptionskip
16352   \bidi@lst@ensure@caption@direction{\@RTLfalse}{\@RTLtrue}%
16353   \sbox\@tempboxa{%
16354     \bidi@lst@ensure@caption@direction{\beginL}{\beginR}%
16355     #1: #2%
16356     \bidi@lst@ensure@caption@direction{\endL}{\endR}%
16357   }%
16358   \ifdim \wd\@tempboxa >\hsize
16359     #1: #2\par
16360   \else
16361     \global \@minipagefalse
16362     \hb@xt@\hsize{\hfil\box\@tempboxa\hfil}%
16363   \fi

```



```

16364 \vskip\belowcaptionskip}%
16365 \def\lst@makecaption{\@bidi@lst@makecaption}
16366 \def\lst@maketitle{\@bidi@lst@makecaption\lst@title@dropdelim}
16367 \bidi@AtEndPreamble{%
16368 \bidi@patchcmd{\lst@MakeCaption}{%
16369 \ifx #1t%
16370 \ifx\lst@@caption\@empty\expandafter\lst@HRefStepCounter \else
16371 \expandafter\refstepcounter
16372 \fi {lstlisting}%
16373 }{%
16374 \ifx #1t%
16375 \bidi@lst@ensure@caption@direction{\@RTLfalse}{\@RTLtrue}%
16376 \ifx\lst@@caption\@empty\expandafter\lst@HRefStepCounter \else
16377 \expandafter\refstepcounter
16378 \fi {lstlisting}%
16379 \bidi@lst@ensure@caption@direction{\@RTLfalse}{\@RTLfalse}%
16380 }{}{}%
16381 \bidi@patchcmd{\lst@MakeCaption}{%
16382 \addcontentsline{lol}{lstlisting}%
16383 {\protect\numberline{\thelstlisting}\lst@@caption}%
16384 }{%
16385 \begingroup%
16386 \bidi@lst@ensure@caption@direction{\@RTLfalse}{\@RTLtrue}%
16387 \addcontentsline{lol}{lstlisting}%
16388 {\protect\numberline{\thelstlisting}\lst@@caption}%
16389 \endgroup%
16390 }{}{}%
16391 }
16392 \@ifpackageloaded{caption}{%
16393 \AtBeginCaption{%
16394 \bidi@lst@ensure@caption@script{\@nonlatintrue}{\@nonlatinfalse}%
16395 \bidi@lst@ensure@caption@direction{\@RTLfalse}{\@RTLtrue}%
16396 }
16397 \let\@bidi@lst@makecaption\caption@makecaption%
16398 \def\lst@makecaption{\caption@starfalse\@bidi@lst@makecaption}%
16399 \def\lst@maketitle{\caption@startrue\@bidi@lst@makecaption\@empty}%
16400 }{%
16401 \AtBeginDocument{%
16402 \@ifundefined{captionlabelfalse}{}{%
16403 \def\lst@maketitle{\captionlabelfalse\@bidi@lst@makecaption\@empty}}%
16404 \@ifundefined{caption@startrue}{}{%
16405 \def\lst@maketitle{\caption@startrue\@bidi@lst@makecaption\@empty}}%
16406 }%
16407 }
16408 \AtBeginDocument{
16409 \@ifundefined{thechapter}{\let\lst@ifnumberbychapter\iffalse}{}
16410 \lst@ifnumberbychapter
16411 \gdef\thelstlisting%
16412 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@lstlisting}
16413 \else
16414 \gdef\thelstlisting{\@arabic\c@lstlisting}
16415 \fi}

```



## 109 File loadingorder-xetex-bidi.def

```
16416 \ProvidesFile{loadingorder-xetex-bidi.def}[2017/12/29 v0.97 making sure that bidi is the las
16417 \bidi@isloaded{amsmath}
16418 \bidi@isloaded{amstext}
16419 \bidi@isloaded{amsthm}
16420 \bidi@isloaded{animate}
16421 \bidi@isloaded{breqn}
16422 \bidi@isloaded{cals}
16423 \bidi@isloaded{caption}
16424 \bidi@isloaded{crop}
16425 \bidi@isloaded{cuted}
16426 \bidi@isloaded{cutwin}
16427 \bidi@isloaded{color}
16428 \bidi@isloaded{dblfnote}
16429 \bidi@isloaded{diagbox}
16430 \bidi@isloaded{xcolor}
16431 \bidi@isloaded{colortbl}
16432 \bidi@isloaded{float}
16433 \bidi@isloaded{floatrow}
16434 \bidi@isloaded{flowfram}
16435 \bidi@isloaded{framed}
16436 \bidi@isloaded{ftnright}
16437 \bidi@isloaded{xltextra}
16438 \bidi@isloaded{xunicode}
16439 \bidi@isloaded{wrapfig}
16440 \bidi@isloaded{graphicx}
16441 \bidi@isloaded{geometry}
16442 \bidi@isloaded{hvfloat}
16443 \bidi@isloaded{mdframed}
16444 \bidi@isloaded{midfloat}
16445 \bidi@isloaded{ntheorem}
16446 \bidi@isloaded{ntheorem-hyper}
16447 \bidi@isloaded{hyperref}
16448 \bidi@isloaded{fancybox}
16449 \bidi@isloaded{fancyhdr}
16450 \bidi@isloaded{fix2col}
16451 \bidi@isloaded{draftwatermark}
16452 \bidi@isloaded{empheq}
16453 \bidi@isloaded{overpic}
16454 \bidi@isloaded{pdfpages}
16455 \bidi@isloaded{listings}
16456 \bidi@isloaded{lettrine}
16457 \bidi@isloaded{lineno}
16458 \bidi@isloaded{media9}
16459 \bidi@isloaded{pstricks}
16460 \bidi@isloaded{pgf}
16461 \bidi@isloaded{picinpar}
16462 \bidi@isloaded{quotchap}
16463 \bidi@isloaded{tikz}
16464 \bidi@isloaded{titlesec}
16465 \bidi@isloaded{titletoc}
16466 \bidi@isloaded{array}
16467 \bidi@isloaded{soul}
```



```

16468 \bidi@isloaded{stabular}
16469 \bidi@isloaded{subfig}
16470 \bidi@isloaded{subfigure}
16471 \bidi@isloaded{supertabular}
16472 \bidi@isloaded{xtab}
16473 \bidi@isloaded{longtable}
16474 \bidi@isloaded{arydshln}
16475 \bidi@isloaded{multicol}
16476 \bidi@isloaded{multienum}
16477 \bidi@isloaded{minitoc}
16478 \bidi@isloaded{natbib}
16479 \bidi@isloaded{newfloat}
16480 \bidi@isloaded{ragged2e}
16481 \bidi@isloaded{rotating}
16482 \bidi@isloaded{tabls}
16483 \bidi@isloaded{tabulary}
16484 \bidi@isloaded{tocbasic}
16485 \bidi@isloaded{tocstyle}
16486 \bidi@isloaded{tocbibind}
16487 \bidi@isloaded{fontspec}
16488 \bidi@isloaded{arabxetex}
16489 \bidi@isloaded{polyglossia}
16490 \bidi@isloaded{fancyvrb}
16491 \AtBeginDocument{
16492   \if@bidi@amsmathloaded@ \else
16493     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package amsmath after bidi packa
16494   \fi%
16495   \if@bidi@amstextloaded@ \else
16496     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package amstext after bidi packa
16497   \fi%
16498   \if@bidi@amsthmloaded@ \else
16499     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package amsthm after bidi packa
16500   \fi%
16501   \if@bidi@animateloaded@ \else
16502     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package animate after bidi packa
16503   \fi%
16504   \if@bidi@breqnloaded@ \else
16505     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package breqn after bidi packag
16506   \fi%
16507   \if@bidi@calsloaded@ \else
16508     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package cals after bidi package
16509   \fi%
16510   \if@bidi@captionloaded@ \else
16511     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package caption after bidi pack
16512   \fi%
16513   \if@bidi@croplloaded@ \else
16514     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package crop after bidi package
16515   \fi%
16516   \if@bidi@colorloaded@ \else
16517     \ifpackageloaded{hyperref}{\fi}%
16518     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package color after bidi packag
16519   \fi%
16520   \if@bidi@cutwinloaded@ \else
16521     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package cutwin after bidi packa

```



```

16522 \fi%
16523   \if@bidi@cutedloaded@else
16524     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package cuted after bidi packag
16525   \fi%
16526   \if@bidi@dblfnloaded@else
16527     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package dblfnote after bidi pac
16528   \fi%
16529   \if@bidi@diagboxloaded@else
16530     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package diagbox after bidi pack
16531   \fi%
16532   \if@bidi@xcolorloaded@else
16533     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package xcolor after bidi packa
16534   \fi%
16535   \if@bidi@colortblloaded@else
16536     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package colortbl after bidi pac
16537   \fi%
16538   \if@bidi@floatloaded@else
16539     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package float after bidi packag
16540   \fi%
16541     \if@bidi@floatrowloaded@else
16542       \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package floatrow after bidi pac
16543     \fi%
16544   \if@bidi@flowframloaded@else
16545     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package flowfram after bidi pac
16546   \fi%
16547   \if@bidi@framedloaded@else
16548     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package framed after bidi packa
16549   \fi%
16550     \if@bidi@ftnrightloaded@else
16551       \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package ftnright after bidi pac
16552     \fi%
16553   \if@bidi@xltxtraloaded@else
16554     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package xltxtra after bidi pack
16555   \fi%
16556   \if@bidi@xunicodeloaded@else
16557     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package xunicode after bidi pac
16558   \fi%
16559   \if@bidi@wrapfigloaded@else
16560     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package wrapfig after bidi pack
16561   \fi%
16562   \if@bidi@graphicxloaded@else
16563     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package graphicx after bidi pac
16564   \fi%
16565     \if@bidi@geometryloaded@else
16566       \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package geometry after bidi pac
16567     \fi%
16568   \if@bidi@hvfloatloaded@else
16569     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package hvfloat after bidi pack
16570   \fi%
16571     \if@bidi@mdframedloaded@else
16572       \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package mdframed after bidi pac
16573     \fi%
16574     \if@bidi@midfloatloaded@else
16575       \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package midfloat after bidi pac

```



```

16576 \fi%
16577 \if@bidi@ntheoremloaded@else
16578 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package ntheorem after bidi pac
16579 \fi%
16580 \if@bidi@hyperrefloaded@else
16581 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package hyperref after bidi pac
16582 \fi%
16583 \if@bidi@fancyboxloaded@else
16584 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package fancybox after bidi pac
16585 \fi%
16586 \if@bidi@fancyhdrloaded@else
16587 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package fancyhdr after bidi pac
16588 \fi%
16589 \if@bidi@draftwatermarkloaded@else
16590 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package draftwatermark after bi
16591 \fi%
16592 \if@bidi@empheqloaded@else
16593 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package empheq after bidi packa
16594 \fi%
16595 \if@bidi@overpicloaded@else
16596 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package overpic after bidi pack
16597 \fi%
16598 \if@bidi@pdfpagesloaded@else
16599 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package pdfpages after bidi pac
16600 \fi%
16601 \if@bidi@lettrineloaded@else
16602 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package lettrine after bidi pac
16603 \fi%
16604 \if@bidi@linenoloaded@else
16605 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package lineno after bidi packa
16606 \fi%
16607 \if@bidi@listingsloaded@else
16608 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package listings after bidi pac
16609 \fi%
16610 \csname if@bidi@media9loaded@endcsname@else
16611 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package media9 after bidi packa
16612 \fi%
16613 \if@bidi@pstricksloaded@else
16614 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package pstricks after bidi pac
16615 \fi%
16616 \if@bidi@pgfloaded@else
16617 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package pgf after bidi package.
16618 \fi%
16619 \if@bidi@picinparloaded@else
16620 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package picinpar after bidi pac
16621 \fi%
16622 \if@bidi@quotchaploaded@else
16623 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package quotchap after bidi pac
16624 \fi%
16625 \if@bidi@tikzloaded@else
16626 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package tikz after bidi package
16627 \fi%
16628 \if@bidi@titlesecloaded@else
16629 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package titlesec after bidi pac

```



```

16630 \fi%
16631 \if@bidi@titletocloaded@else
16632     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package titletoc after bidi pac
16633 \fi%
16634 \if@bidi@arrayloaded@else
16635     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package array after bidi packag
16636 \fi%
16637 \if@bidi@stabularloaded@else
16638     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package stabular after bidi pac
16639 \fi%
16640 \if@bidi@soulloaded@else
16641     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package soul after bidi package
16642 \fi%
16643 \if@bidi@subfigloaded@else
16644     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package subfig after bidi packa
16645 \fi%
16646 \if@bidi@subfigureloaded@else
16647     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package subfigure after bidi pa
16648 \fi%
16649 \if@bidi@supertabularloaded@else
16650     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package supertabular after bidi
16651 \fi%
16652 \if@bidi@xtabloaded@else
16653     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package xtab after bidi package
16654 \fi%
16655 \if@bidi@longtableloaded@else
16656     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package longtable after bidi pa
16657 \fi%
16658 \if@bidi@arydshlnloaded@else
16659     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package arydshln after bidi pac
16660 \fi%
16661 \if@bidi@multicolloaded@else
16662     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package multicol after bidi pac
16663 \fi%
16664 \if@bidi@multienumloaded@else
16665     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package multienum after bidi pa
16666 \fi%
16667 \if@bidi@minitocloaded@else
16668     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package minitoc after bidi pack
16669 \fi%
16670 \if@bidi@natbibloaded@else
16671     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package natbib after bidi packa
16672 \fi%
16673 \if@bidi@newfloatloaded@else
16674     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package newfloat after bidi pac
16675 \fi%
16676 \csname if@bidi@ragged2loaded@endcsname\else
16677     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package ragged2e after bidi pac
16678 \fi%
16679 \if@bidi@rotatingloaded@else
16680     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package rotating after bidi pac
16681 \fi%
16682 \if@bidi@tblsloaded@else
16683     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package tbls after bidi packag

```



```

16684 \fi%
16685 \if@bidi@tabularyloaded@else
16686 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package tabulary after bidi pac
16687 \fi%
16688 \if@bidi@tocbasicloaded@else
16689 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package tocbasic after bidi pac
16690 \fi%
16691 \if@bidi@tocstyleloaded@else
16692 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package tocstyle after bidi pac
16693 \fi%
16694 \if@bidi@tocbibindloaded@else
16695 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package tocbibind after bidi pa
16696 \fi%
16697 \if@bidi@fontspecloaded@else
16698 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package fontspec after bidi pac
16699 \fi%
16700 \if@bidi@arabxetexloaded@else
16701 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package arabxetex after bidi pa
16702 \fi%
16703 \if@bidi@polyglossialoaded@else
16704 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package polyglossia after bidi
16705 \fi%
16706 \if@bidi@fancyvrbloaded@else
16707 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package fancyvrb after bidi pac
16708 \fi%
16709 }

```

## 110 File longtable-xetex-bidi.def

```

16710 \ProvidesFile{longtable-xetex-bidi.def}[2022/05/20 v0.6 bidi adaptations for longtable packa
16711 \def\LT@array[#1]#2{%
16712 \refstepcounter{table}\stepcounter{LT@tables}%
16713 \if l#1%
16714 \if@RTLtab\LTleft\fill \LTright\z@else\LTleft\z@ \LTright\fill\fi
16715 \else\if r#1%
16716 \if@RTLtab\LTleft\z@ \LTright\fill\else\LTleft\fill \LTright\z@\fi
16717 \else\if c#1%
16718 \LTleft\fill \LTright\fill
16719 \fi\fi\fi
16720 \let\LT@mc\multicolumn
16721 \let\LT@tabarray\@tabarray
16722 \let\LT@hline\hline
16723 \def\@tabarray{%
16724 \let\hline\LT@hline
16725 \LT@tabarray}%
16726 \let\LT@tabularcr\let\tabularnewline\\
16727 \def\newpage{\noalign{\break}}%
16728 \def\pagebreak{\noalign{\ifnum`}=0\fi\@testopt{\LT@no@pgbk-}4}%
16729 \def\nopagebreak{\noalign{\ifnum`}=0\fi\@testopt{\LT@no@pgbk4}}%
16730 \let\hline\LT@hline \let\kill\LT@kill\let\caption\LT@caption
16731 \@tempdima\ht\strutbox
16732 \let\@endpbox\LT@endpbox
16733 \ifx\extrarowheight\@undefined
16734 \let\@acol\@tabacol

```



```

16735 \let\@classz\@tabclassz \let\@classiv\@tabclassiv
16736 \def\@startpbox{\vtop\LT@startpbox}%
16737 \let\@@startpbox\@startpbox
16738 \let\@@endpbox\@endpbox
16739 \let\LT@LL@FM@cr\@tabularcr
16740 \else
16741 \advance\@tempdima\extrarowheight
16742 \col@sep\@tabcolsep
16743 \let\@startpbox\LT@startpbox\let\LT@LL@FM@cr\@arraycr
16744 \fi
16745 \setbox\@arstrutbox\hbox{\vrule
16746 \@height \arraystretch \@tempdima
16747 \@depth \arraystretch \dp \strutbox
16748 \@width \z@}%
16749 \let\@sharp#\let\protect\relax
16750 \begingroup
16751 \mkpream{#2}%
16752 \xdef\LT@bchunk{%
16753 \global\advance\c@LT@chunks\@ne
16754 \global\LT@rows\z@\setbox\z@\vbox\bgroup
16755 \LT@setprevdepth
16756 \tabskip\LTleft \noexpand\halign to\hsize\bgroup
16757 \tabskip\z@ \@arstrut \preamble \tabskip\LTright \cr}%
16758 \endgroup
16759 \expandafter\LT@nofcols\LT@bchunk&\LT@nofcols
16760 \LT@make@row
16761 \m@th\let\par\@empty
16762 \everycr{}\lineskip\z@\baselineskip\z@
16763 \LT@bchunk}
16764 \def\LT@makecaption#1#2#3{%
16765 \LT@mcol\LT@cols c{\hbox to\z@{\hss\parbox[t]\LTcapwidth{%
16766 \sbox\@tempboxa{\if@RTL\beginR\fi#1{#2: }#3\if@RTL\endR\fi}%
16767 \ifdim\wd\@tempboxa>\hsize
16768 #1{#2: }#3%
16769 \else
16770 \hbox to\hsize{\hfil\box\@tempboxa\hfil}%
16771 \fi
16772 \endgraf\vskip\baselineskip}%
16773 \hss}}}
16774 \@ifpackageloaded{caption}{%
16775 \renewcommand\LT@makecaption[3]{%
16776 \caption@LT@make{%
16777 \caption@LT@settype\LTcaptype
16778 \caption@LT@setup
16779 \caption@setautoposition{\ifcase\LT@rows t\else b\fi}%
16780 \caption@startrue#1\caption@starfalse
16781 \caption@prepare@stepcounter\LTcaptype
16782 \caption@begin\LTcaptype
16783 \caption@normalsize
16784 \vskip-\ht\strutbox
16785 \caption@ifdefined\FBifcapttop{%
16786 \let\caption@belowskip\@empty}{}%
16787 \caption@make@above
16788 \caption@@make{#2}{#3}\endgraf

```



```

16789         \caption@make@below
16790         \caption@end}}%
16791     }{}
16792 \def\LT@startpbox#1{%
16793     \bgroup\color@begingroup
16794     \let\@footnotetext\LT@p@ftntext
16795     \let\@LTRfootnotetext\LT@p@LTRftntext
16796     \let\@RTLfootnotetext\LT@p@RTLftntext
16797     \setlength\hsize{#1}%
16798     \@arrayparboxrestore
16799     \vrule \@height \ht\@arstrutbox \@width \z@}
16800 \def\LT@p@LTRftntext#1{%
16801     \edef\@tempa{\the\LT@p@ftn\noexpand\LTRfootnotetext[\the\c@footnote]}}%
16802     \global\LT@p@ftn\expandafter{\@tempa{#1}}}%
16803 \def\LT@p@RTLftntext#1{%
16804     \edef\@tempa{\the\LT@p@ftn\noexpand\RTLfootnotetext[\the\c@footnote]}}%
16805     \global\LT@p@ftn\expandafter{\@tempa{#1}}}%
16806
16807
16808 \def\LT@output{%
16809     \ifnum\outputpenalty <-\@Mi
16810         \ifnum\outputpenalty > -\LT@end@pen
16811             \LT@err{floats and marginpars not allowed in a longtable}\@ehc
16812         \else
16813             \setbox\z@\vbox{\unvbox\@cclv}%
16814             \ifdim \ht\LT@lastfoot>\ht\LT@foot
16815                 \dimen@ \pagegoal
16816                 \advance\dimen@-\ht\LT@lastfoot
16817                 \ifdim\dimen@<\ht\z@
16818                     \setbox\@cclv\vbox{\unvbox\z@\copy\LT@foot\vss}%
16819                     \@makecol
16820                     \@outputpage
16821                     \setbox\z@\vbox{\box\LT@head}%
16822                 \fi
16823             \fi
16824             \global\@colroom\@colht
16825             \global\vsizel\@colht
16826             \vbox
16827                 {\if@RTLtab\hbox\bgroup\beginR\vbox\bgroup\fi\unvbox\z@\box\ifvoid\LT@lastfoot\LT@fo
16828             \fi
16829         \else
16830             \setbox\@cclv\vbox{\if@RTLtab\hbox\bgroup\beginR\vbox\bgroup\fi\unvbox\@cclv\copy\LT@fo
16831             \@makecol
16832             \@outputpage
16833             \global\vsizel\@colroom
16834             \copy\LT@head\nobreak
16835         \fi}

```

## 111 File `lscope-xetex-bidi.def`

```

16836 \ProvidesFile{lscope-xetex-bidi.def}[2022/02/18 v0.1 bidi adaptations for lscope package for
16837 \bidi@patchcmd{\LS@rot}{\rotatebox{90}{\box\@outputbox}}{%
16838     \if@RTL
16839         \rotatebox[origin=br]{-90}{\box\@outputbox}%

```



```

16840 \else
16841   \rotatebox{90}{\box\@outputbox}%
16842 \fi
16843 }{}{}
16844 \g@addto@macro{\landscape}{%
16845   \let\bidileft@footnoterule\left@footnoterule
16846   \let\bidiright@footnoterule\right@footnoterule
16847   \def\left@footnoterule{%
16848     \if@RTL
16849       \bidiright@footnoterule
16850     \else
16851       \bidileft@footnoterule
16852     \fi
16853   }%
16854   \def\right@footnoterule{%
16855     \if@RTL
16856       \bidileft@footnoterule
16857     \else
16858       \bidiright@footnoterule
16859     \fi
16860   }%
16861 }

```

## 112 File `mathtools-xetex-bidi.def`

```

16862 \ProvidesFile{mathtools-xetex-bidi.def}[2018/01/07 v0.1 bidi adaptations for mathtools packa
16863 \MHInternalSyntaxOn
16864 \def\MT_define_tagform:nwnn #1[#2]#3#4{
16865   \@namedef{MT_tagform_#1:n}##1
16866   {\maketag@@@{\if@nonlatin\beginR\fi#3\kern\z@\ignorespaces#2{##1}\unskip\@@italiccorr#4}
16867 }
16868 \renewtagform{default}{\{()\}}
16869 \MHInternalSyntaxOff

```

## 113 File `mdframed-xetex-bidi.def`

```

16870 \ProvidesFile{mdframed-xetex-bidi.def}[2013/09/22 v0.4 bidi adaptations for mdframed package
16871 \newif\if@bidi@mdf@RTL
16872 \def\mdf@lrbbox#1{%
16873   \mdf@patchamsthm%patch amsthm
16874   \if@RTL\@bidi@mdf@RTLtrue\fi%
16875   \@RTLfalse%
16876   \setbox#1\vbox\bgroup%
16877   \color@begingroup%
16878   \if@bidi@mdf@RTL\@RTLtrue\fi%
16879   \mdf@horizontalmargin@equation%
16880   \columnwidth=\hsize%
16881   \textwidth=\hsize%
16882   \let\if@nobreak\iffalse%
16883   \let\if@noskipsec\iffalse%
16884   \let\par\@par%
16885   \let\-\@dischph%
16886   \let'\@acci\let\`@accii\let\=\@acciii%
16887   \parindent\z@ \parskip\z@skip%

```



```

16888 \linewidth\hsize%
16889 \@totalleftmargin\z@%
16890 \leftskip\z@skip \rightskip\z@skip \@rightskip\z@skip%
16891 \parfillskip\@flushglue \lineskip\normallineskip%
16892 \baselineskip\normalbaselineskip%
16893 %% \sloppy%
16894 \let\\\@normalcr%
16895 \mdf@par@local%New feature to restore parskip/parindent local in save box
16896 \ifbool{mdf@suppressfirstparskip}{\vspace*{-\parskip}}{}%
16897 \@afterindentfalse%
16898 %\@afterheading%
16899 }
16900 \renewrobustcmd\mdfframedtitleenv[1]{%
16901 \mdf@lrbox{\mdf@frametitlebox}%
16902 \mdf@frametitlealignment%
16903 \leavevmode{\color{\mdf@frametitlefontcolor}%
16904 \normalfont\mdf@frametitlefont{#1}
16905 \ifbool{mdf@ignorelastdescenders}%
16906 {%
16907 \par\strut\par
16908 \unskip\unskip\setbox0=\lastbox
16909 \vspace*{\dimexpr\ht\strutbox-\baselineskip\relax}%
16910 }{}}%
16911 \par\unskip\ifvmode\nointerlineskip\hrule \@height\z@ \@width\hsize\fi%
16912 \endmdf@lrbox\relax%
16913 \mdf@ignorevbadness%
16914 \setbox\mdf@frametitlebox=\vbox{\unvbox\mdf@frametitlebox}%
16915 \mdfframetitleboxwidth=\wd\mdf@frametitlebox\relax%
16916 \mdfframetitleboxheight=\ht\mdf@frametitlebox\relax%
16917 \mdfframetitleboxdepth=\dp\mdf@frametitlebox\relax%
16918 \mdfframetitleboxtotalheight=\dimexpr
16919 \ht\mdf@frametitlebox
16920 +\dp\mdf@frametitlebox%
16921 +\mdf@frametitleaboveskip@length
16922 +\mdf@frametitlebelowskip@length
16923 \relax%
16924 }
16925
16926 \renewrobustcmd*\mdf@footnoteoutput{%
16927 \ifvoid\@mpfootins\else%
16928 \nobreak%
16929 \vskip\mdf@footnotedistance@length%
16930 \normalcolor%
16931 \bidi@mpfootnoterule%
16932 \unvbox\@mpfootins%
16933 \fi%
16934 }
16935
16936
16937 \renewrobustcmd*\mdf@footnoteinput{%
16938 \def\@mpfn{mpfootnote}%
16939 \def\thempfn{\thempfootnote}%
16940 \c@mpfootnote\z@%
16941 \let\@footnotetext\@mpfootnotetext%

```



```

16942 \let\LTRfootnotetext\@mpLTRfootnotetext%
16943 \let\RTLfootnotetext\@mpRTLfootnotetext%
16944 }

```

## 114 File bidi-media9.sty

```

16945 \ProvidesExplPackage{bidi-media9}{2022/02/18}{0.4}
16946 {bidi fixes for media9 package for the XeTeX engine}
16947
16948 \keys_define:nn{media9/mbtn}{
16949   draft .code:n = {},
16950   final .code:n = {},
16951
16952   tooltip .tl_gset_x:N = \g_mix_tooltip_tl,
16953   tooltip .value_required:n = {true},
16954
16955   overface .code:n = {
16956     \sbox\l_mix_poster_box{
16957       \bool_if:NTF\g_pbs_lscape_bool{\rotatebox{90}{#1}}{\if@RTL\beginR\fi#1\if@RTL\endR\fi}
16958       \mix_pdfxform:n{\l_mix_poster_box}
16959       \tl_gset:Nx\g_mix_overbtn_tl{\mix_pdflastxform:}
16960     },
16961     overface .value_required:n = {true},
16962
16963     downface .code:n = {
16964       \sbox\l_mix_poster_box{
16965         \bool_if:NTF\g_pbs_lscape_bool{\rotatebox{90}{#1}}{\if@RTL\beginR\fi#1\if@RTL\endR\fi}
16966         \mix_pdfxform:n{\l_mix_poster_box}
16967         \tl_gset:Nx\g_mix_downbtn_tl{\mix_pdflastxform:}
16968       },
16969       downface .value_required:n = {true},
16970
16971       3Dgotoview .code:n = {
16972         \tl_set:Nx\l_tmpa_tl{#1} %extract ref
16973         \regex_replace_once:nnN{([~:~]+):??.*}{\1}\l_tmpa_tl
16974         \tl_trim_spaces:N\l_tmpa_tl
16975         \tl_if_exist:cTF{ann@\l_tmpa_tl}{
16976           \str_if_eq:eeF{\tl_use:c{ann@\l_tmpa_tl}}{draft}{
16977             \tl_set:Nx\l_tmpb_tl{#1} %extract idx
16978             \regex_replace_once:nnN{[~:~]+:~}{\1}\l_tmpb_tl
16979             \tl_trim_spaces:N\l_tmpb_tl
16980             \tl_if_blank:VF\l_tmpb_tl{
16981               \regex_match:nVTF{^[DFLNP]$}\l_tmpb_tl{
16982                 \tl_set:Nx\l_mix_vidx_tl{/}\l_tmpb_tl
16983               }{
16984                 \regex_match:nVTF{^~\d+$}\l_tmpb_tl{
16985                   \tl_set:Nx\l_mix_vidx_tl{~}\l_tmpb_tl
16986                 }{
16987                   \regex_replace_once:nnN{^~\(\s*\)}{\1}\l_tmpb_tl
16988                   \regex_replace_once:nnN{(\s*)$}{\1}\l_tmpb_tl
16989                   \tl_set:Nx\l_mix_vidx_tl{~(\l_tmpb_tl)}
16990                 }
16991               }
16992             }

```



```

16993     \mix_pdfobj:nnn(){dict}{
16994       /S/JavaScript/JS~(
16995         if(typeof(annotRM)=='undefined'){annotRM=new~Array();}
16996         if(typeof(annotRM['\l_tmpa_tl'])=='undefined'){
16997           annotRM['\l_tmpa_tl']=
16998             this.getAnnotRichMedia(\tl_use:c{page@\l_tmpa_tl},'\l_tmpa_tl');
16999         }
17000         annotRM['\l_tmpa_tl'].activated=true;
17001       )
17002     \tl_if_blank:VF\l_tmpb_tl{
17003       /Next~<<
17004       /S/GoTo3DView
17005       /TA~\tl_use:c{ann@\l_tmpa_tl}
17006       /V\l_mix_vidx_tl
17007       >>
17008     }
17009   }
17010   \tl_gput_right:Nx\g_mix_btnactions_tl{~\mix_pdflastobj:}
17011 }
17012 }{
17013   \msg_warning:nxx{media9}{undefined~reference}{\l_tmpa_tl}
17014   \cs_if_exist:NF\g_mix_refundefwarned_tl{
17015     \tl_new:N\g_mix_refundefwarned_tl
17016     \AtEndDocument{\msg_warning:nn{media9}{undefined~references}}
17017   }
17018 }
17019 },
17020 3Dgotoview .value_required:n = {true},
17021
17022 mediacommand .code:n = {
17023   \tl_set:Nx\l_tmpa_tl{#1}
17024   \regex_replace_once:nnN{([~:])+}??.*}{\1}\l_tmpa_tl %extract ref
17025   \tl_trim_spaces:N\l_tmpa_tl
17026   \tl_if_exist:cTF{ann@\l_tmpa_tl}{
17027     \str_if_eq:eeF{\tl_use:c{ann@\l_tmpa_tl}}{draft}{
17028       \tl_set:Nx\l_tmpb_tl{#1}
17029       \regex_replace_once:nnN{([~:])+~:~?}{\1}\l_tmpb_tl
17030       \tl_trim_spaces:N\l_tmpb_tl
17031       \regex_replace_all:nnN{^{\|\\$}}{\1}\l_tmpb_tl
17032       \tl_set:Nx\l_mix_cmd_tl{
17033         \exp_after:wN\mix_separate_cmd_from_actn:w\l_tmpb_tl[]\q_stop}
17034       \tl_trim_spaces:N\l_mix_cmd_tl
17035       \tl_set:Nx\l_mix_arg_tl{
17036         \exp_after:wN\mix_separate_arg_from_actn:w\l_tmpb_tl[]\q_stop}
17037       \tl_trim_spaces:N\l_mix_arg_tl
17038     }
17039     /S/JavaScript/JS~(
17040       if(typeof(annotRM)=='undefined'){annotRM=new~Array();}
17041       if(typeof(annotRM['\l_tmpa_tl'])=='undefined'){
17042         annotRM['\l_tmpa_tl']=
17043           this.getAnnotRichMedia(\tl_use:c{page@\l_tmpa_tl},'\l_tmpa_tl');
17044       }
17045       annotRM['\l_tmpa_tl'].activated=true;
17046     )

```



```

17047         \tl_if_blank:VF\l_mix_cmd_tl{
17048             /Next~<<
17049             /S/RichMediaExecute
17050             /TA~\tl_use:c{ann@\l_tmpa_tl}
17051             /TI~\tl_use:c{main@\l_tmpa_tl}
17052             /CMD~<<
17053             /C~(\l_mix_cmd_tl)
17054             \tl_if_blank:VF\l_mix_arg_tl{
17055                 /A~[\l_mix_arg_tl]
17056             }
17057         >>
17058     >>
17059     }
17060 }
17061 \tl_gput_right:Nx\g_mix_btnactions_tl{~\mix_pdflastobj:}
17062 }
17063 }{
17064     \msg_warning:nnx{media9}{undefined-reference}{\l_tmpa_tl}
17065     \cs_if_exist:NF\g_mix_refundefwarned_tl{
17066         \tl_new:N\g_mix_refundefwarned_tl
17067         \AtEndDocument{\msg_warning:nn{media9}{undefined-references}}
17068     }
17069 }
17070 },
17071 mediacommand .value_required:n = {true},
17072
17073 jsaction .code:n = {
17074     \tl_set:Nx\l_tmpa_tl{#1}
17075     \regex_match:nVTF{^[^{}:]+:.*$}\l_tmpa_tl{
17076         \regex_replace_once:nnN{([{}:]+):??.*}{\1}\l_tmpa_tl %extract ref
17077         \tl_trim_spaces:N\l_tmpa_tl
17078     }{\tl_clear:N\l_tmpa_tl}
17079     \tl_set:Nx\l_tmpb_tl{#1}
17080     \tl_if_blank:VF\l_tmpa_tl{
17081         \tl_if_exist:cF{ann@\l_tmpa_tl}{
17082             \msg_warning:nnx{media9}{undefined-reference}{\l_tmpa_tl}
17083             \cs_if_exist:NF\g_mix_refundefwarned_tl{
17084                 \tl_new:N\g_mix_refundefwarned_tl
17085                 \AtEndDocument{\msg_warning:nn{media9}{undefined-references}}
17086             }
17087         }
17088         \regex_replace_once:nnN{[{}:]+\:}{\1}\l_tmpb_tl
17089     }
17090     \tl_set:Nx\l_tmpb_tl{\exp_after:wN\use:n\l_tmpb_tl}
17091     \tl_trim_spaces:N\l_tmpb_tl
17092     \tl_if_blank:VF\l_tmpb_tl{
17093         \mix_pdfobj:nnn{}{dict}{
17094             /S/JavaScript/JS~(
17095                 try{\l_tmpb_tl}catch(e){console.show();console.println(e)})}}
17096     \bool_lazy_and:nnT{
17097         \tl_if_exist_p:c{ann@\l_tmpa_tl}
17098     }{
17099         !\str_if_eq_p:ee{\tl_use:c{ann@\l_tmpa_tl}}{draft}
17100     }{

```



```

17101 \mix_pdfobj:nnn{}{dict}{
17102   /S/JavaScript/JS~(
17103     if(typeof(annotRM)=='undefined'){annotRM=new~Array();}
17104     if(typeof(annotRM['\l_tmpa_tl'])=='undefined'){
17105       annotRM['\l_tmpa_tl']=
17106       this.getAnnotRichMedia(\tl_use:c{page@\l_tmpa_tl},'\l_tmpa_tl');
17107     }
17108     annotRM['\l_tmpa_tl'].activated=true;
17109   )
17110   \tl_if_blank:VF\l_tmpb_tl{/Next~\mix_pdflastobj:}
17111 }
17112 }
17113 \bool_if:nT{
17114   \bool_lazy_and:p:nn{
17115     \tl_if_exist_p:c{ann@\l_tmpa_tl}
17116   }{
17117     !\str_if_eq_p:ee{\tl_use:c{ann@\l_tmpa_tl}}{draft}
17118   }
17119   || !\tl_if_blank_p:V\l_tmpb_tl
17120 }{
17121   \tl_gput_right:Nx\g_mix_btnactions_tl{~\mix_pdflastobj:}
17122 }
17123 },
17124 jsaction .value_required:n = {true},
17125
17126 unknown .code:n = {
17127   \msg_error:nnx{media9}{unknown~option}{\l_keys_key_tl}
17128 }
17129 }
17130
17131 \RenewDocumentCommand\includemedia{0}{mm}{%#1 options, #2 text/image #3 media file
17132 \mix_uriend:
17133 \group_begin:
17134 \mix_beginLTR:
17135 \mode_leave_vertical:
17136 %empty stream as appearance dummy
17137 \cs_if_exist:NF\g_mix_appearance_tl{
17138   \hbox_set:Nn\l_mix_poster_box{\phantom{\rule{1pt}{1pt}}}
17139   \mix_pdfxform:n{\l_mix_poster_box}
17140   \tl_gset:Nx\g_mix_appearance_tl{\mix_pdflastxform:}
17141 }
17142 \mix_reset:
17143 \mix_uribegin: %treat URI characters correctly
17144 \keys_set:nn{media9/user}{#1}
17145 \mix_uriend:
17146 \tl_greplace_all:Nnn\g_mix_flashvars_tl{~&}{&}
17147 \tl_greplace_all:Nnn\g_mix_flashvars_tl{&~}{&}
17148 \tl_greplace_all:Nnn\g_mix_flashvars_tl{~=}{=}
17149 \tl_greplace_all:Nnn\g_mix_flashvars_tl{=~}{=}
17150 \tl_gtrim_spaces:N\g_mix_flashvars_tl
17151
17152 \cs_if_exist:NT\Ginput@path{\cs_set_eq:NN\input@path\Ginput@path}
17153
17154 %\hbox_set:Nn\l_mix_poster_box{\group_begin:#2\group_end:}

```



```

17155 %\hbox_set:Nn\l_mix_poster_box{#2}
17156 \sbox\l_mix_poster_box{\if@RTL\beginR\fi#2\if@RTL\endR\fi}
17157 \mix_scale:n{\l_mix_poster_box}
17158 \bool_if:nTF{
17159   \dim_compare_p:n{\g_mix_tt_tl=\c_zero_dim}||
17160   \dim_compare_p:n{\g_mix_wd_tl=\c_zero_dim}
17161 }{
17162   \tl_gset:Nn\g_mix_usrpbtn_tl{none}
17163 }
17164 \bool_if:NTF\g_mix_usrdraft_bool{
17165   \tl_if_empty:NF\g_mix_usrlabel_tl{
17166     \mix_keytoaux_now:nn{ann@\g_mix_usrlabel_tl}{draft}
17167   }
17168   \tl_if_blank:oTF{#2}{
17169     \mix_uribegin: %treat URI characters correctly
17170     \mix_draftbox:n{\tl_to_str:n{#3}}
17171     \mix_uriend:
17172   }{
17173     \hbox_to_wd:nn{\g_mix_wd_tl}{
17174       \vrule-width~\c_zero_dim-height~\g_mix_ht_tl-depth~\g_mix_dp_tl
17175       \box_use:N\l_mix_poster_box\hss
17176     }
17177   }
17178 }{
17179   \bool_if:nF{\str_if_eq_p:Vn\g_mix_usrpbtn_tl{none}}{
17180     %attach script that switches off play button overlay upon activation
17181     \mix_pdfobj:nnn{}{stream}{
17182       {}{
17183         var~ocgs=host.getOCGs(host.pageNum);
17184         for(var~i=0;i<ocgs.length;i++){
17185           if(ocgs[i].name=='MediaPlayerButton\int_use:N\g_mix_rmcnt_int'){
17186             ocgs[i].state=false;
17187           }
17188         }
17189       }
17190     }
17191     \mix_pdfobj:nnn{}{dict}{
17192       /Type/Filespec/EF~<</F~\mix_pdflastobj:>>/F~(btnoff)%/UF~(btnoff)
17193     }
17194     \tl_gset:Nx\g_mix_assets_tl{(btnoff)~\mix_pdflastobj:}
17195     \tl_set:Nx\l_mix_scripts_tl{~\mix_pdflastobj:~}
17196     %enforce plain playbutton overlay for XeTeX
17197     \sys_if_engine_xetex:T{\tl_gset:Nn\g_mix_usrpbtn_tl{plain}}
17198   }
17199   %embed main asset
17200   \mix_uribegin:
17201   \mix_embedasset:n{#3}
17202   \bool_if:nTF{
17203     \str_if_eq_p:Vn\l_mix_ext_tl{prc}||\str_if_eq_p:Vn\l_mix_ext_tl{u3d}
17204   }{
17205     \bool_gset_true:N\g_mix_iiid_bool
17206     \tl_gset:Nn\g_mix_mainassetsub_tl{3D}
17207   }{
17208     \str_case_e:nnF{\l_mix_base_tl}{

```



```

17209         {APlayer}}{\tl_gset:Nn\g_mix_mainassetsub_tl{Sound}}
17210         {AudioPlayer}}{\tl_gset:Nn\g_mix_mainassetsub_tl{Sound}}
17211         {VPlayer}}{\tl_gset:Nn\g_mix_mainassetsub_tl{Video}}
17212         {VideoPlayer}}{\tl_gset:Nn\g_mix_mainassetsub_tl{Video}}
17213         {StrobeMediaPlayback}}{\tl_gset:Nn\g_mix_mainassetsub_tl{Video}}
17214     }{\tl_gset:Nn\g_mix_mainassetsub_tl{Flash}}
17215 }
17216 \tl_gset:Nx\g_mix_mainasset_tl{~\g_mix_lastasset_tl}
17217 \mix_uriend:
17218 %secondary assets (added by addresource)
17219 \seq_map_function:NN\g_mix_res_seq\mix_embedasset:n
17220 \seq_map_inline:Nn\g_mix_script_seq{
17221     \mix_embedasset:n{##1}
17222     \tl_put_right:Nx\l_mix_scripts_tl{~\g_mix_lastasset_tl}
17223 }
17224 %attach 3D calculation script
17225 \bool_if:nT{\g_mix_iiid_bool && \g_mix_iiidcalc_bool}{
17226     \mix_embedasset:n{3Dmenu.js}
17227     \tl_put_left:Nx\l_mix_scripts_tl{\g_mix_lastasset_tl~}
17228 }
17229 %create 3D views from file (option 3Dviews)
17230 \bool_if:nT{\g_mix_iiid_bool && !(\tl_if_blank_p:V\g_mix_vfile_tl)}{
17231     \tl_set:Nn\l_mix_level_tl{-1}
17232     \int_zero:N\l_mix_viewcnt_int
17233     \int_zero:N\l_mix_lineno_int
17234
17235     \ior_open:Nn\l_mix_vfile_stream{\g_mix_vfile_tl}
17236     \ior_map_inline:Nn\l_mix_vfile_stream{
17237         \int_incr:N\l_mix_lineno_int
17238         \keys_set:nn{media9/views}{##1} %process input line
17239     }
17240     \ior_close:N\l_mix_vfile_stream
17241 }
17242 \bool_if:nT{ %create default 3D view if required
17243     \g_mix_iiid_bool &&
17244     (\g_mix_opt_iiidview_bool || \tl_if_blank_p:V\l_mix_iiidviewarray_tl)
17245 }{
17246     \tl_set_eq:NN\l_mix_bg_tl\g_mix_opt_bg_tl
17247     \tl_set_eq:NN\l_mix_ls_tl\g_mix_opt_ls_tl
17248     \tl_set_eq:NN\l_mix_rm_tl\g_mix_opt_rm_tl
17249     \tl_set_eq:NN\l_mix_psob_tl\g_mix_opt_psob_tl
17250     \tl_set_eq:NN\l_mix_coo_tl\g_mix_opt_coo_tl
17251     \tl_set_eq:NN\l_mix_ctoc_tl\g_mix_opt_ctoc_tl
17252     \tl_set_eq:NN\l_mix_ciiw_tl\g_mix_opt_ciiw_tl
17253
17254     \fp_set_eq:NN\l_mix_roo_fp\g_mix_opt_roo_fp
17255     \fp_set_eq:NN\l_mix_aac_fp\g_mix_opt_aac_fp
17256     \fp_set_eq:NN\l_mix_oscale_fp\g_mix_opt_oscale_fp
17257     \fp_set_eq:NN\l_mix_roll_fp\g_mix_opt_roll_fp
17258
17259     \bool_set_eq:NN\l_mix_ciiw_bool\g_mix_opt_ciiw_bool
17260     \bool_set_eq:NN\l_mix_iiidortho_bool\g_mix_opt_iiidortho_bool
17261     \tl_clear:N\l_mix_naarray_tl
17262

```



```

17263     \bool_if:NF\l_mix_ciiw_bool{
17264         \tl_set:Nx\l_mix_args_tl{\l_mix_coo_tl\space\l_mix_ctoc_tl\space}
17265         \exp_after:wN\mix_calc_ciiw:w\l_mix_args_tl\q_stop
17266     }
17267
17268     \tl_clear:N\l_mix_naarray_tl
17269     \tl_clear:N\l_mix_saarray_tl
17270     \tl_set_eq:NN\l_mix_nr_tl\g_mix_nrdflt_tl
17271
17272     \mix_view:n{Default}
17273     \tl_set:Nx\l_mix_dfltview_tl{\mix_pdflastobj:}
17274
17275 }
17276 \mix_pdfobj:nnn{}{dict}{
17277     /Type/RichMediaInstance
17278     /Subtype/\g_mix_mainassetsub_tl
17279     /Asset~\g_mix_mainasset_tl
17280     \bool_if:NF\g_mix_iiid_bool{
17281         /Params~<<
17282         /Binding\str_if_eq:VnTF\g_mix_transp_tl{true}{
17283             /Foreground
17284         }{
17285             /Background
17286         }
17287         \tl_if_blank:VF\g_mix_flashvars_tl{
17288             /FlashVars~(\g_mix_flashvars_tl)
17289         }
17290         >>
17291     }
17292 }
17293 \tl_if_empty:NF\g_mix_usrlabel_tl{
17294     \mix_keytoaux_now:nn{main@\g_mix_usrlabel_tl}{\mix_pdflastobj:}
17295 }
17296 \mix_pdfobj:nnn{}{dict}{
17297     /Type/RichMediaConfiguration
17298     /Subtype/\g_mix_mainassetsub_tl
17299     /Instances~[\mix_pdflastobj:]
17300 }
17301 \mix_pdfobj:nnn{}{dict}{
17302     /Type/RichMediaContent
17303     /Assets~<</Names~[\g_mix_assets_tl]>>
17304     /Configurations~[\mix_pdflastobj:]
17305     \bool_if:nT{
17306         \g_mix_iiid_bool && !(\tl_if_empty_p:V\l_mix_iiidviewarray_tl)
17307     }{
17308         /Views~[\l_mix_iiidviewarray_tl]
17309     }
17310 }
17311 \tl_set:Nx\l_mix_content_tl{\mix_pdflastobj:}
17312 \bool_if:nT{
17313     \g_mix_iiid_bool && \str_if_eq_p:Vn\g_mix_playtpe_tl{Oscillating}
17314 }{
17315     \tl_gset:Nx\g_mix_playcnt_tl{\int_eval:n{\g_mix_playcnt_tl*2}}
17316 }

```



```

17317 %determine floating window size
17318 \bool_if:NT\g_mix_opt_windowed_bool{
17319   \exp_after:wN\mix_parse_winsizearg:w\g_mix_winsize_tl\q_stop
17320 }
17321 \mix_pdfobj:nnn{}{dict}{
17322   /Activation~<<
17323   /Condition\g_mix_act_tl
17324   \bool_if:NT{
17325     \g_mix_iiid_bool &&
17326     !(\str_if_eq_p:Vn\g_mix_playtpe_tl{None})
17327   }{%seems to work only with 3D content
17328     /Animation~<<
17329     /Subtype/\g_mix_playtpe_tl
17330     /PlayCount~\g_mix_playcnt_tl
17331     /Speed~\g_mix_playspd_tl
17332   >>
17333 }
17334 \bool_if:NT{
17335   \g_mix_iiid_bool && (
17336     \g_mix_opt_iiidview_bool || \tl_if_blank_p:V\l_mix_iiidviewarray_tl
17337   )
17338 }{/View~\l_mix_dfltview_tl}
17339 /Presentation~<<
17340 /Transparent~\g_mix_transp_tl
17341 \bool_if:NTF\g_mix_opt_windowed_bool{
17342   /Style/Windowed
17343   /Window~<<
17344     /Width~<</Default~\tl_mix_fltd>>
17345     /Height~<</Default~\tl_mix_flht>>
17346     /Position~<<
17347     /HOffset~0/VOffset~0
17348     \str_case_e:nnF{\g_mix_winpos_tl}{
17349       {tl}{/VAlign/Near/HAlign/Near}
17350       {cl}{/VAlign/Center/HAlign/Near}
17351       {bl}{/VAlign/Far/HAlign/Near}
17352       {bc}{/VAlign/Far/HAlign/Center}
17353       {br}{/VAlign/Far/HAlign/Far}
17354       {cr}{/VAlign/Center/HAlign/Far}
17355       {tr}{/VAlign/Near/HAlign/Far}
17356       {tc}{/VAlign/Near/HAlign/Center}
17357     }{/HAlign/Center/VAlign/Center}
17358   >>
17359   >>
17360 }{
17361   /Style/Embedded
17362 }
17363 \bool_if:NTF\g_mix_iiid_bool{
17364   /Toolbar~\g_mix_tools_tl
17365   /NavigationPane~\g_mix_nav_tl
17366 }{
17367   /PassContextClick~\g_mix_contextclick_tl
17368 }
17369 >>
17370 \tl_if_blank:VF\l_mix_scripts_tl{/Scripts~[\l_mix_scripts_tl]}

```



```

17371     >>
17372     /Deactivation~<</Condition\g_mix_deact_tl>>
17373   }
17374   \tl_set:Nx\l_mix_settings_tl{\mix_pdflastobj:}
17375   \tl_if_empty:NF\g_mix_usrlabel_tl{
17376     \tl_gset_eq:NN\g_mix_label_tl\g_mix_usrlabel_tl
17377   }
17378   % #1:width, #2:height, #3:depth, #4:content (key-value)
17379   \mix_pdfannot:nnnn{\g_mix_wd_tl}{\g_mix_ht_tl}{\g_mix_dp_tl}{
17380     /Subtype/RichMedia
17381     /F~4
17382     /BS~<</W~0/S/S>>
17383     /Contents~(media-embedded-by-media9~[\g_mix_version_tl~(\g_mix_date_tl)])
17384     /NM~(\g_mix_label_tl)
17385     /AP~<</N~\g_mix_appearance_tl>>
17386     /RichMediaSettings~\l_mix_settings_tl
17387     /RichMediaContent~\l_mix_content_tl
17388   }
17389   \tl_if_empty:NF\g_mix_usrlabel_tl{
17390     \mix_keytoaux_now:nn{ann@\g_mix_usrlabel_tl}{\mix_pdflastann:}
17391     \mix_keytoaux_shipout:nn{page@\g_mix_usrlabel_tl}{
17392       \noexpand\the\g@mix@page@int}
17393   }
17394   \mix_pdfobj:nnn{}{dict}{
17395     /S/JavaScript/JS~(
17396       try{
17397         if(typeof(annotRM)=='undefined'){annotRM=new~Array();}
17398         if(typeof(annotRM['\g_mix_label_tl'])=='undefined'){
17399           annotRM['\g_mix_label_tl']=
17400             this.getAnnotRichMedia(this.pageNum,'\g_mix_label_tl');
17401         }
17402         \str_if_eq:eeF{\g_mix_usrpbtn_tl}{none}{
17403           if(typeof(ocgBtn\int_use:N\g_mix_rmcnt_int)=='undefined'){
17404             var~ocgs=this.getOCGs(this.pageNum);
17405             for(var~i=0;i<ocgs.length;i++){
17406               if(ocgs[i].name=='MediaPlayerButton\int_use:N\g_mix_rmcnt_int'){
17407                 var~ocgBtn\int_use:N\g_mix_rmcnt_int=ocgs[i];
17408               }
17409             }
17410           }
17411           if(
17412             !annotRM['\g_mix_label_tl'].activated&&(
17413               app.viewerType=='Reader' ||
17414               app.viewerType=='Exchange' ||
17415               app.viewerType=='Exchange-Pro'
17416             )&&app.viewerVersion>=9
17417           ){
17418             ocgBtn\int_use:N\g_mix_rmcnt_int.state=true;
17419           }
17420         }
17421       }catch(e){}
17422       this.dirty=false;
17423     )
17424   }

```



```

17425 \mix_pdfannot:nnnn{Opt}{Opt}{Opt}{
17426 /Subtype/Widget
17427 /FT/Btn/Ff~65537/F~2
17428 /BS~<</W~0>>
17429 /T~(fd@~\g_mix_label_tl)
17430 /AA~<</PO~\mix_pdflastobj:~/PV~\mix_pdflastobj:>>
17431 }
17432 \mix_appendtofields:n{\mix_pdflastann:}
17433 \hbox_overlap_right:n{\box_use:N\l_mix_poster_box}
17434 \str_if_eq:eeTF{\g_mix_usrpbtn_tl}{none}{
17435 \hbox_to_wd:nn{\g_mix_wd_tl}{
17436 \vrule~width~\c_zero_dim~height~\g_mix_ht_tl~depth~\g_mix_dp_tl\hss
17437 }
17438 }{%insert play button overlay
17439 \mix_insert_btnocg: %create OCG
17440 \cs_gset_eq:Nc~\mix_pbtn:NN{g~\mix_usrpbtn_tl @tl}
17441 \group_begin:
17442 \cs_if_exist:NT~\textdir{\textdir TLT}
17443 \sbox\l_mix_pbtn_box{\mix_pbtn:NN\g_mix_wd_tl\g_mix_tt_tl}
17444 \box_move_down:nn{\g_mix_dp_tl}{
17445 \hbox_to_wd:nn{\g_mix_wd_tl}{
17446 \vbox_to_ht:nn{\g_mix_tt_tl}{
17447 \vss
17448 \ocgbase_oc_bdc:n{\g_mix_btnocg_tl}
17449 \box_use:N\l_mix_pbtn_box
17450 \ocgbase_oc_emc:
17451 }
17452 }
17453 }
17454 \group_end:
17455 }
17456 \int_gincr:N\g_mix_rmcnt_int
17457 }
17458 \mix_endLTR:
17459 \group_end:
17460 }
17461 \tl_set_eq:NN\l_mix_includemedia_tl\includemedia
17462 \tl_set:Nn\includemedia{\mix_uribegin:\l_mix_includemedia_tl}
17463
17464 \RenewDocumentCommand\mediabutton{0{m}}{%#1 options, #2 normal button text
17465 \mix_uribegin:
17466 \group_begin:
17467 \mix_beginLTR:
17468 \mode_leave_vertical:
17469 %reset various variables
17470 \tl_gclear:N\g_mix_overbtn_tl
17471 \tl_gclear:N\g_mix_downbtn_tl
17472 \tl_gclear:N\g_mix_btnactions_tl
17473 \tl_gclear:N\g_mix_tooltip_tl
17474 %process options
17475 \bool_gset_eq:NN\g_mix_btndraft_bool\g_mix_pkgdraft_bool
17476 \mix_uribegin: %treat URI characters correctly
17477 \keys_set:nn{media9/mbtndraft}{#1} %detect draft/final on first pass
17478 \bool_if:NF\g_mix_btndraft_bool{\keys_set:nn{media9/mbtn}{#1}}

```



```

17479 \mix_urien:
17480 %normal button appearance
17481 %\hbox_set:Nn\l_mix_poster_box{#2}
17482 \sbox\l_mix_poster_box{\if@RTL\beginR\fi#2\if@RTL\endR\fi}
17483 \tl_set:Nx\width {\dim_use:N\box_wd:N\l_mix_poster_box}
17484 \tl_set:Nx\height{\dim_use:N\box_ht:N\l_mix_poster_box}
17485 \tl_set:Nx\depth {\dim_use:N\box_dp:N\l_mix_poster_box}
17486 \bool_if:NTF\g_mix_btndraft_bool{\box_use:N\l_mix_poster_box}{
17487   \sbox\l_mix_poster_box{\bool_if:NTF\g_pbs_lscape_bool{\rotatebox{90}{
17488     \box_use:N\l_mix_poster_box}}{\box_use:N\l_mix_poster_box}}
17489   \mix_pdfxform:n{\l_mix_poster_box}
17490   \tl_set:Nx\g_mix_normalbtn_tl{\mix_pdflastxform:}
17491   %insert widget annotation
17492   \mix_pdfannot:nnnn{\width}{\height}{\depth}{
17493     /Subtype/Widget
17494     /T~(mbtn@\int_use:N\g_mix_mbtncnt_int)
17495     \tl_if_empty:NF\g_mix_tooltip_tl{/TU~(\g_mix_tooltip_tl)}
17496     /FT/Btn/Ff~65536
17497     \tl_if_empty:NTF\g_mix_downbtn_tl{/H/I}{/H/P}
17498     /AP~<<
17499     /N~\g_mix_normalbtn_tl
17500     \tl_if_empty:NF\g_mix_overbtn_tl{/R~\g_mix_overbtn_tl}
17501     \tl_if_empty:NF\g_mix_downbtn_tl{/D~\g_mix_downbtn_tl}
17502     >>
17503     /MK~<<
17504     /TP~1~/IF~<</S/A/FB~true/A~[0.0~0.0]>>
17505     /I~\g_mix_normalbtn_tl
17506     \tl_if_empty:NF\g_mix_overbtn_tl{/RI~\g_mix_overbtn_tl}
17507     \tl_if_empty:NF\g_mix_downbtn_tl{/IX~\g_mix_downbtn_tl}
17508     >>
17509     /A~<<
17510     /S/JavaScript/JS~(app.focusRect=false;)
17511     %sequence of actions to perform
17512     \tl_if_empty:NF\g_mix_btnactions_tl{/Next~[\g_mix_btnactions_tl]}
17513     >>
17514   }
17515   \mix_appendtofields:n{\mix_pdflastann:}
17516   \hbox_to_wd:nn{\width}{
17517     \vrule~width~\c_zero_dim~height~\height~depth~\depth\hss
17518   }
17519   \int_gincr:N\g_mix_mbtncnt_int
17520 }
17521 \mix_endLTR:
17522 \group_end:
17523 }
17524 \tl_set_eq:NN\l_mix_mediabutton_tl\mediabutton
17525 \tl_set:Nn\mediabutton{\mix_uribegin:\l_mix_mediabutton_tl}
17526

```

## 115 File memoir-xetex-bidi.def

```

17527 \ProvidesFile{memoir-xetex-bidi.def}[2017/06/09 v0.6 bidi adaptations for memoir class for X
17528 \renewcommand{\keepthetitle}{%
17529   \@bsmtitleempty

```



```

17530 \global\let\thanks\relax
17531 \global\let\LTRthanks\relax
17532 \global\let\RTLthanks\relax
17533 \global\let\and\relax
17534 \global\let\andnext\relax
17535 \global\let\@thanks\@empty
17536 \global\let\@title\@empty
17537 \global\let\@author\@empty
17538 \global\let\@date\@empty}
17539 \renewcommand{\maketitle}{\par
17540 \begingroup
17541 \@bsmarkseries
17542 \def\@makefnmark{\@textsuperscript{%
17543 \normalfont\@bsthanksheadpre \tamark \@bsthanksheadpost}}%
17544 \long\def\@makefntext##1{\makethanksmark ##1}
17545 \if@twocolumn
17546 \ifnum \col@number=\@ne
17547 \@maketitle
17548 \else
17549 \twocolumn[\@maketitle]%
17550 \fi
17551 \else
17552 \ifdim\pagetotal>\z@
17553 \newpage
17554 \fi
17555 \global\@topnum\z@
17556 \@maketitle
17557 \fi
17558 \thispagestyle{title}\@thanks
17559 \endgroup
17560 \@bscontmark % \setcounter{footnote}{0}%
17561 }
17562 \renewcommand*{\memRTLleftskip}{\if@RTL\rightskip\else\leftskip\fi}
17563 \renewcommand*{\memRTLrightskip}{\if@RTL\leftskip\else\rightskip\fi}
17564 \renewcommand*{\memRTLvleftskip}{\if@RTL\vrightskip\else\vleftskip\fi}
17565 \renewcommand*{\memRTLvrightskip}{\if@RTL\vleftskip\else\vrightskip\fi}
17566 \renewcommand*{\memRTLraggedright}{\if@RTL\raggedleft\else\raggedright\fi}
17567 \renewcommand*{\memRTLraggedleft}{\if@RTL\raggedright\else\raggedleft\fi}
17568 \renewcommand*{\thesection}{\thechapter\@SepMark\@arabic\c@section}
17569 \renewcommand*{\thesubsection}{%
17570 \thesection\@SepMark\@arabic\c@subsection}
17571 \renewcommand*{\thesubsubsection}{%
17572 \thesubsection\@SepMark\@arabic\c@subsubsection}
17573 \renewcommand*{\theparagraph}{%
17574 \thesubsubsection\@SepMark\@arabic\c@paragraph}
17575 \renewcommand*{\thesubparagraph}{%
17576 \theparagraph\@SepMark\@arabic\c@subparagraph}
17577 \renewcommand{\setthesection}{\thechapter\@SepMark\Alph{section}}
17578 \renewcommand{\theequation}{%
17579 \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
17580 \renewcommand{\thefigure}{\thechapter\@SepMark\@arabic\c@figure}
17581 \renewcommand{\thetable}{\thechapter\@SepMark\@arabic\c@table}
17582 \ifartopt
17583 \chapterstyle{article}

```



```

17584 \counterwithout{figure}{chapter}
17585 \counterwithout{table}{chapter}
17586 \counterwithout{footnote}{chapter}
17587 \counterwithout{equation}{chapter}
17588 \renewcommand{\chaptername}{%
17589 \renewcommand{\maketitlehookb}{%
17590 \vskip -1.5\topsep\vskip -1.5\partopsep}
17591 \renewcommand{\maketitlehookc}{%
17592 \vskip -1.5\topsep\vskip -1.5\partopsep}
17593 \fi
17594 \long\def\@makecaption#1#2{\let\@memtempa\relax
17595 \ifdim\prevdepth>-99\p@ \vskip\abovecaptionskip
17596 \else \def\@memtempa{\vbox to\topskip{}}\fi
17597 \let\@contfnote\footnote \renewcommand{\footnote}[2][]{%
17598 \let\@contfmark\footnotemark \renewcommand{\footnotemark}[1][]{%
17599 \sbox\@tempboxa{\@contnfont #1\@contdelim \@conttfont #2\@contfinal}
17600 \let\footnote\@contfnote
17601 \let\footnotemark\@contfmark
17602 \ifdim\wd\@tempboxa<\linewidth \centering \fi
17603 \if@contcw
17604 \centering
17605 \parbox{\@contcwidth}{%
17606 \ifdim\wd\@tempboxa<\@contcwidth \centering \fi
17607 \fi
17608 \ifdim\wd\@tempboxa<\linewidth
17609 \@contpre
17610 {\@contnfont #1\@contdelim}\@memtempa
17611 {\@contcshortstyle \@conttfont #2\@contfinal\par}
17612 \else
17613 \if@conthang
17614 \sbox\@tempboxa{\@contnfont #1\@contdelim}
17615 \@contpre%
17616 {\@contcstyle\hangindent=\wd\@tempboxa
17617 \noindent\box\@tempboxa\@memtempa \@conttfont #2\@contfinal\par}
17618 \else
17619 \if@contindent
17620 \@contpre%
17621 {\@contnfont #1\@contdelim}\@memtempa
17622 {\@contcstyle\hangindent=\@contindw
17623 \hangafter=\@one\@conttfont #2\@contfinal\par}% <- v1.4
17624 \else
17625 \@contpre%
17626 {\@contnfont #1\@contdelim}\@memtempa
17627 {\@contcstyle \@conttfont #2\@contfinal\par}
17628 \fi
17629 \fi
17630 \fi
17631 \@contpost
17632 \if@contcw
17633 \par
17634 } % end of the \parbox
17635 \fi
17636 \vskip\belowcaptionskip}
17637 \ifpackageloaded{caption}{%

```



```

17638 \AtBeginPackage{caption}{
17639 \ClassWarningNoLine{memoir}{%
17640 You are using the caption package with the memoir \MessageBreak
17641 class. This may cause unexpected or inconsistent \MessageBreak
17642 results if you use any of memoir's captioning facilities}
17643
17644 \long\def\@makecaption##1##2{%
17645 \vskip\abovecaptionskip
17646 \sbox\@tempboxa{\if@RTL\beginR\fi##1: ##2\if@RTL\endR\fi}%
17647 \ifdim \wd\@tempboxa >\hsize
17648 \if@RTL\beginR\fi##1: ##2\if@RTL\endR\fi\par
17649 \else
17650 \global \@minipagefalse
17651 \hb@xt@\hsize{\hfil\box\@tempboxa\hfil}%
17652 \fi
17653 \vskip\belowcaptionskip}
17654
17655 \def\caption{%
17656 \ifx\@capytype\@undefined
17657 \@latex@error{\noexpand\caption outside float}\@ehd
17658 \expandafter\@gobble
17659 \else
17660 \refstepcounter\@capytype
17661 \expandafter\@firstofone
17662 \fi
17663 {\@dblarg{\@caption\@capytype}}%
17664 }
17665
17666 \long\def\@caption##1[##2]##3{%
17667 \par
17668 \addcontentsline{\csname ext@##1\endcsname}{##1}%
17669 {\protect\numberline{\csname the##1\endcsname}{\ignorespaces ##2}}%
17670 \begingroup
17671 \@parboxrestore
17672 \if@minipage
17673 \@setminipage
17674 \fi
17675 \normalsize
17676 \@makecaption{\csname fnum@##1\endcsname}{\ignorespaces ##3}\par
17677 \endgroup}
17678 }{}
17679 \renewenvironment{thebibliography}[1]{%
17680 \bibsection
17681 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
17682 \bidi@thebibliography@font@hook%
17683 \begin{bibitemlist}{#1}}{\end{bibitemlist}\postbibhook}

```

## 116 File midfloat-xetex-bidi.def

```

17684 \ProvidesFile{midfloat-xetex-bidi.def}[2017/05/06 v0.4 bidi adaptations for midfloat package]
17685 \def\RTL\outputdblcol{%
17686 \if@firstcolumn
17687 \global \@firstcolumnfalse
17688 \global\setbox\@leftcolumn\copy\@outputbox

```



```

17689 \splitmaxdepth\maxdimen
17690 \vbadness\maxdimen
17691 \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
17692 \setbox\@outputbox\vsplit\@outputbox to\maxdimen
17693 \toks@\expandafter{\topmark}%
17694 \xdef\@firstcoltopmark{\the\toks@}%
17695 \toks@\expandafter{\splitfirstmark}%
17696 \xdef\@firstcolfirstmark{\the\toks@}%
17697 \ifx\@firstcolfirstmark\@empty
17698 \global\let\@setmarks\relax
17699 \else
17700 \gdef\@setmarks{%
17701 \let\firstmark\@firstcolfirstmark
17702 \let\topmark\@firstcoltopmark}%
17703 \fi
17704 \global\c@colht\@colht\global\c@addvipersep\z@
17705 \ifnum\jua@sk>0
17706 \remove@strip\jua@sar
17707 \global\@colht\the\jua@pr
17708 \ifdim\right@cor>\z@
17709 \global\advance\@colht by\right@cor
17710 \fi
17711 \global\advance\@colht by\cor@height
17712 \global\cor@height=0pt
17713 \fi
17714 \global \setbox\@rightcolumn \vbox{%
17715 \else
17716 \ifdim\c@colht>\@colht
17717 \@tempdima\@colht
17718 \ifdim\@colht>\z@
17719 \global\setbox\@rightcolumn \vbox{%
17720 \unvbox\@rightcolumn
17721 \vbox to\@tempdima{%
17722 \vskip\c@addvipersep\unvbox\@outputbox}%
17723 \vskip\stripsep
17724 \vrule height\the\jua@ht width 0pt depth 0pt
17725 \vskip\stripsep
17726 }%
17727 \global\c@addvipersep\m@addvipersep
17728 \else
17729 \global\setbox\@rightcolumn \vbox{%
17730 \unvbox\@rightcolumn
17731 \vrule height\the\jua@ht width 0pt depth 0pt
17732 \vskip\stripsep
17733 }%
17734 \fi
17735 \ifnum\jua@sk>0
17736 \remove@strip\jua@sar
17737 \global\@colht\the\jua@pr
17738 \global\advance\@colht by -\ht\@rightcolumn
17739 \global\advance\@colht by\cor@height
17740 \global\cor@height=0pt
17741 \else
17742 \global\advance\c@colht by-\ht\@rightcolumn

```



```

17743         \global\@colht\c@colht
17744     \fi
17745 \else
17746 \global\@firstcolumntrue
17747 \global\setbox\@outputbox\vbox to\ht\@leftcolumn{%
17748     \unvbox\@rightcolumn
17749     \vskip\c@addvipersep
17750     \unvbox\@outputbox
17751 }%
17752 \setbox\@outputbox \vbox {%
17753     \hb@xt@\textwidth {%
17754         \hskip \columnwidth
17755         \hfil
17756         \vrule \@width\columnseprule
17757         \hfil
17758         \hb@xt@\columnwidth {%
17759             \bidi@firstcolumn@status@write%
17760             \box\@leftcolumn \hss}%
17761         \hskip-\textwidth
17762         \hb@xt@\columnwidth {%
17763             \bidi@lastcolumn@status@write%
17764             \box\@outputbox \hss}%
17765         \hskip\columnwidth
17766         \hskip\columnsep}%
17767     }%
17768 \@combinedblfloats
17769 \setmarks
17770 \outputpage
17771 \begingroup
17772     \@dblfloatplacement
17773     \startdblcolumn
17774     \@whiles\if@fcolmade \fi
17775     {\outputpage
17776     \startdblcolumn}%
17777 \endgroup
17778 \global\jua@sk=0\global\jua@sar={}%
17779 \global\cor@height\z@\global\c@addvipersep\z@
17780 \fi
17781 \fi
17782 }
17783
17784
17785 \def\LTR@outputdblcol{%
17786 \if@firstcolumn
17787     \global \@firstcolumnfalse
17788     \global\setbox\@leftcolumn\copy\@outputbox
17789     \splitmaxdepth\maxdimen
17790     \vbadness\maxdimen
17791     \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
17792     \setbox\@outputbox\vsplit\@outputbox to\maxdimen
17793     \toks@\expandafter{\topmark}%
17794     \xdef\@firstcoltopmark{\the\toks@}%
17795     \toks@\expandafter{\splitfirstmark}%
17796     \xdef\@firstcolfirstmark{\the\toks@}%

```



```

17797 \ifx\@firstcolfirstmark\@empty
17798 \global\let\@setmarks\relax
17799 \else
17800 \gdef\@setmarks{%
17801 \let\firstmark\@firstcolfirstmark
17802 \let\topmark\@firstcoltopmark}%
17803 \fi
17804 \global\c@colht\@colht\global\c@addvipersep\z@
17805 \ifnum\jua@sk>0
17806 \remove@strip\jua@sar
17807 \global\@colht\the\jua@pr
17808 \ifdim\right@cor>\z@
17809 \global\advance\@colht by\right@cor
17810 \fi
17811 \global\advance\@colht by\cor@height
17812 \global\cor@height=0pt
17813 \fi
17814 \global\setbox\@rightcolumn\ vbox{%
17815 \else
17816 \ifdim\c@colht>\@colht
17817 \@tempdima\@colht
17818 \ifdim\@colht>\z@
17819 \global\setbox\@rightcolumn\ vbox{%
17820 \unvbox\@rightcolumn
17821 \vbox to\@tempdima{%
17822 \vskip\c@addvipersep\unvbox\@outputbox}%
17823 \vskip\stripsep
17824 \vrule height\the\jua@ht width 0pt depth 0pt
17825 \vskip\stripsep
17826 }%
17827 \global\c@addvipersep\m@addvipersep
17828 \else
17829 \global\setbox\@rightcolumn\ vbox{%
17830 \unvbox\@rightcolumn
17831 \vrule height\the\jua@ht width 0pt depth 0pt
17832 \vskip\stripsep
17833 }%
17834 \fi
17835 \ifnum\jua@sk>0
17836 \remove@strip\jua@sar
17837 \global\@colht\the\jua@pr
17838 \global\advance\@colht by -\ht\@rightcolumn
17839 \global\advance\@colht by\cor@height
17840 \global\cor@height=0pt
17841 \else
17842 \global\advance\c@colht by-\ht\@rightcolumn
17843 \global\@colht\c@colht
17844 \fi
17845 \else
17846 \global\@firstcolumntrue
17847 \global\setbox\@outputbox\ vbox to\ht\@leftcolumn{%
17848 \unvbox\@rightcolumn
17849 \vskip\c@addvipersep
17850 \unvbox\@outputbox

```



```

17851 }%
17852 \setbox\@outputbox \vbox {%
17853     \hb@xt@\textwidth {%
17854         \hb@xt@\columnwidth {%
17855             \bidi@firstcolumn@status@write%
17856             \box\@leftcolumn \hss}%
17857         \hfil
17858         \vrule \@width\columnseprule
17859         \hfil
17860         \hb@xt@\columnwidth {%
17861             \bidi@lastcolumn@status@write%
17862             \box\@outputbox \hss}%
17863         }%
17864     }%
17865 \@@combinedblfloats
17866 \@@setmarks
17867 \@@outputpage
17868 \begin@group
17869 \@@dblfloatplacement
17870 \@@startdblcolumn
17871 \@@whilesw@if@fcolmade \fi
17872     {\@@outputpage
17873     \@@startdblcolumn}%
17874 \end@group
17875 \global\jua@sk=0\global\jua@sar={}%
17876 \global\cor@height\z@\global\c@addvipersep\z@
17877 \fi
17878 \fi
17879 }
17880
17881
17882 \def\@strip[#1/#2]{\global\@tempdima=#1\global\@tempdimb=#2%
17883 \global \setbox\@viper\vbox\bgroup@if@RTLmain\moveleft\dimexpr(\columnwidth+\columnsep)\fi
17884     \hsize\textwidth
17885     \@parboxrestore
17886     \col@number \@ne
17887     \vrule height\topskip width0pt depth0pt
17888 }
17889
17890 \def\endstrip{%
17891     \egroup\egroup
17892     \if@firstcolumn
17893         \ifdim\pagetotal>\z@
17894             \vskip\stripsep
17895             \global\ht@strip\pagegoal
17896             \global\advance\ht@strip by-\pagetotal
17897             \global\advance\ht@strip by-\stripsep
17898             \global\advance\ht@strip by-\ht\@viper
17899             \global\advance\ht@strip by-\stripsep
17900             \global\jua@ht=\ht\@viper
17901         \else
17902             \global\ht@strip\z@
17903         \fi
17904         \ifdim\ht@strip>\z@

```



```

17905         \unvbox\@viper
17906         \vskip\stripsep
17907         \add@strip{\the\pagetotal}{\the\jua@ht}{\the\@tempdima}{\the\@tempdimb}%
17908         \global\advance\jua@sk by1
17909     \else
17910         \@latex@error{Strip needs more place!}\@ehc
17911         \if@vihproof
17912             \framebox[\columnwidth]{??? Strip ???}%
17913         \fi
17914     \fi
17915 \else
17916     \@latex@error{Strip is used only on left column!}\@ehc
17917     \if@vihproof
17918         \framebox[\columnwidth]{??? Strip ???}%
17919     \fi
17920 \fi
17921 }

```

## 117 File minitoc-xetex-bidi.def

```

17922 \ProvidesFile{minitoc-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for minitoc package f
17923 \def\@undottedtocline#1#2#3#4#5{%
17924     \ifnum #1>\c@tocdepth\relax \else
17925         \vskip \z@ plus.2\p@
17926         {\if@RTL\righskip\else\leftskip\fi #2\relax \if@RTL\leftskip\else\righskip\fi \@tocrmarg
17927         \parindent #2\relax\@afterindenttrue
17928         \interlinepenalty\@M
17929         \leavevmode
17930         \@tempdima #3\relax \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \hbox{}%
17931         \hskip -\if@RTL\righskip\else\leftskip\fi
17932         #4\nobreak\hfill \nobreak
17933         \null\par}%
17934     \fi}
17935 \def\@Undottedtocline#1#2#3#4#5{%
17936     \ifnum #1>\c@tocdepth\relax \else
17937         \vskip \z@ \@plus.2\p@
17938         {\if@RTL\righskip\else\leftskip\fi #2\relax \if@RTL\leftskip\else\righskip\fi \@tocrma
17939         \parindent #2\relax\@afterindenttrue
17940         \interlinepenalty\@M
17941         \leavevmode
17942         \@tempdima #3\relax
17943         \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
17944         {\coffee\font #4}\nobreak \nobreak\null
17945         \par}%
17946     \fi}
17947 \def\@Undottedtoclinep#1#2#3#4#5{%
17948     \ifnum #1>\c@tocdepth\relax \else
17949         \vskip \z@ \@plus.2\p@
17950         {\if@RTL\righskip\else\leftskip\fi #2\relax \if@RTL\leftskip\else\righskip\fi \@tocrma
17951         \parindent #2\relax\@afterindenttrue
17952         \interlinepenalty\@M
17953         \leavevmode
17954         \@tempdima #3\relax
17955         \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ

```



```

17956      {#4}\nobreak \hfill \nobreak\null
17957      \hb@xt@\@pnumwidth{\hfil\normalfont \normalcolor #5}}%
17958      \par}%
17959      \fi}

```

## 118 File multicol-xetex-bidi.def

```

17960 \ProvidesFile{multicol-xetex-bidi.def}[2022/02/01 v1.3 bidi adaptations for multicol package]
17961 \def\page@sofar{%
17962   \process@cols\mult@rightbox
17963   {\ifvoid\count@
17964     \setbox\count@\hbox to\hsize{%
17965       \else
17966         \wd\count@\hsize
17967       \fi}%
17968   \count@\col@number \advance\count@m@ne
17969   \mult@info\z@
17970   {Column spec: \the\full@width\space = indent
17971     + columns + sep =\MessageBreak
17972     \the\multicol@leftmargin\space
17973     + \the\col@number\space
17974     x \the\hsize\space
17975     + \the\count@\space
17976     x \the\columnsep
17977   }%
17978   \ifvmode\else\errmessage{Multicol Error}\fi
17979   \nointerlineskip
17980   \setbox\z@\hbox{p}\global\dimen\tw@\dp\z@
17981   \moveright\multicol@leftmargin
17982   \hbox to\full@width{%
17983     \bidi@multicol@align@columns
17984     \rlap{\phantom p}%
17985   }%
17986   \prevdepth\z@
17987   \kern-\dimen\tw@
17988   \ifdim\dimen\tw@ > \mc@gridwarn
17989     \PackageWarning{multicol}%
17990       {Very deep columns!\MessageBreak
17991         Grid alignment might be broken}%
17992   \fi
17993 }
17994 \def\LTR@column@boxes{%
17995   \process@cols\mult@firstbox{%
17996     \ifdim\dp\count@>\dimen\tw@
17997       \global\dimen\tw@\dp\count@ \fi
17998     \mc@col@status@write
17999     \box\count@
18000     \hss{\columnseprulecolor\vrule
18001       \@width\columnseprule}\hss}%
18002   \ifdim\dp\mult@rightbox>\dimen\tw@
18003     \global\dimen\tw@\dp\mult@rightbox \fi
18004   \mc@lastcol@status@write
18005   \box\mult@rightbox
18006 }

```



```

18007
18008 \def\RTL@column@boxes{%
18009     \process@cols\mult@firstbox{%
18010         \hskip\hsize
18011         \hss{\columnseprulecolor\vrule
18012             \@width\columnseprule}\hss
18013     }%
18014     \hskip\hsize
18015     \process@cols\mult@firstbox{%
18016         \ifdim\dp\count@>\dimen\tw@
18017             \global\dimen\tw@\dp\count@ \fi
18018         \hskip-\hsize
18019         \mc@col@status@write
18020         \box\count@
18021         \hskip-\hsize
18022         \hskip-\columnsep
18023     }%
18024     \ifdim\dp\mult@rightbox>\dimen\tw@
18025         \global\dimen\tw@\dp\mult@rightbox \fi
18026     \hskip-\hsize
18027     \mc@lastcol@status@write
18028     \box\mult@rightbox
18029     \hskip-\hsize
18030     \hskip\full@width
18031 }
18032
18033 \newcommand\RTLmulticolcolumns
18034     {\let\bidimulticol@align@columns
18035      \RTL@column@boxes}
18036 \newcommand\LTRmulticolcolumns
18037     {\let\bidimulticol@align@columns
18038      \LTR@column@boxes}
18039 \newcommand\bidimulticol@align@columns
18040     {\if@RTLmain\RTL@column@boxes\else\LTR@column@boxes\fi}
18041 \bidimulticol@AtEndPreamble{%
18042     \if@bidimulticol@csdef{footinsv@1}{%
18043         \def\footnoterule{\kern-3\p@
18044             \hrule \@width \textwidth \kern 2.6\p@}%
18045     }{}%
18046 }
18047 \def\multicols#1{\col@number#1\relax
18048     \ifnum\col@number<\tw@
18049         \PackageWarning{multicol}%
18050             {Using '\number\col@number'
18051              columns doesn't seem a good idea.^J
18052              I therefore use two columns instead}%
18053         \col@number\tw@ \fi
18054     \ifnum\col@number>20
18055         \PackageError{multicol}%
18056             {Too many columns}%
18057         {Current implementation doesn't
18058          support more than 20 columns.%
18059          \MessageBreak
18060          I therefore use 20 columns instead}%

```



```

18061 \col@number20 \fi
18062 \ifx\@footnotetext\mult@footnotetext
18063 \else
18064 \let\orig@footnotetext\@footnotetext
18065 \let\@footnotetext\mult@footnotetext
18066 \fi
18067 \ifx\@LTRfootnotetext\mult@LTRfootnotetext
18068 \else
18069 \let\orig@LTRfootnotetext\@LTRfootnotetext
18070 \let\@LTRfootnotetext\mult@LTRfootnotetext
18071 \fi
18072 \ifx\@RTLfootnotetext\mult@RTLfootnotetext
18073 \else
18074 \let\orig@RTLfootnotetext\@RTLfootnotetext
18075 \let\@RTLfootnotetext\mult@RTLfootnotetext
18076 \fi
18077 \@ifnextchar[\mult@cols{\mult@cols[]}]
18078 \long\def\mult@footnotetext#1{\begingroup
18079 \hsize\textwidth
18080 \columnwidth\textwidth
18081 \orig@footnotetext{#1}\endgroup}
18082 \long\def\mult@LTRfootnotetext#1{\begingroup
18083 \hsize\textwidth
18084 \columnwidth\textwidth
18085 \orig@LTRfootnotetext{#1}\endgroup}
18086 \long\def\mult@RTLfootnotetext#1{\begingroup
18087 \hsize\textwidth
18088 \columnwidth\textwidth
18089 \orig@RTLfootnotetext{#1}\endgroup}
18090 \def\right@footnoterule{%
18091 \kern-3\p@
18092 \hbox to \textwidth{\hskip \dimexpr\textwidth-.4\columnwidth\relax \hrulefill }
18093 \kern2.6\p@}
18094 \def\textwidth@footnoterule{\kern-3\p@
18095 \hrule \@width \textwidth \kern 2.6\p@}
18096 \def\bidileave@mult@copyins{%
18097 \advance\dimen@-\skip\@bidi@copyins@
18098 \advance\dimen@-\ht\@bidi@copyins@
18099 }
18100 \bidi@AtEndPreamble{%
18101 \if@bidi@csdef{footinsv@l}{%
18102 \def\bidileave@mult@footins@vr{%
18103 \advance\dimen@-\skip\footinsv@r
18104 \advance\dimen@-\ht\footinsv@r
18105 }%
18106 \def\bidileave@mult@footins@vl{%
18107 \advance\dimen@-\skip\footinsv@l
18108 \advance\dimen@-\ht\footinsv@l
18109 }%
18110 \def\bidiiinit@mult@footinsv@r{%
18111 \multiply\count\footinsv@r\col@number
18112 \multiply\skip \footinsv@r\col@number
18113 }%
18114 \def\bidiiinit@mult@footinsv@l{%

```



```

18115     \multiply\count\footinsv@l\col@number
18116     \multiply\skip \footinsv@l\col@number
18117 }%
18118 \def\bidireinsert@footnotesv@r{\ifvoid\footinsv@r\else
18119     \insert\footinsv@r{}\fi}%
18120 \def\bidireinsert@footnotesv@l{\ifvoid\footinsv@l\else
18121     \insert\footinsv@l{}\fi}%
18122 \bidi@patchcmd{\prepare@multicols}{%
18123     \reinsert@footnotes
18124 }{%
18125     \reinsert@footnotes
18126     \bidi@init@mult@footinsv@r
18127     \bidi@reinsert@footnotesv@r
18128     \bidi@init@mult@footinsv@l
18129     \bidi@reinsert@footnotesv@l
18130 }{}{}%
18131 \bidi@patchcmd{\multi@column@out}{%
18132     \ifnum \c@tracingmulticols>\thr@@
18133 }{%
18134     \ifvoid\footinsv@r
18135     \ifvoid\footinsv@l
18136     \else
18137         \PackageWarning{multicol}%
18138             {I moved some lines to
18139              the next page.\MessageBreak
18140              Footnotes on page
18141              \thepage\space might be wrong}%
18142     \fi
18143     \else
18144         \PackageWarning{multicol}%
18145             {I moved some lines to
18146              the next page.\MessageBreak
18147              Footnotes on page
18148              \thepage\space might be wrong}%
18149     \fi
18150 \ifnum \c@tracingmulticols>\thr@@
18151 }{}{}%
18152 \bidi@patchcmd{\endmulticols}{%
18153     \reinsert@footnotes
18154 }{%
18155     \reinsert@footnotes
18156     \bidi@reinsert@footnotesv@r
18157     \bidi@reinsert@footnotesv@l
18158 }{}{}%
18159 \bidi@patchcmd{\speci@ls}{%
18160     \reinsert@footnotes
18161 }{%
18162     \reinsert@footnotes
18163     \bidi@reinsert@footnotesv@r
18164     \bidi@reinsert@footnotesv@l
18165 }{}{}%
18166 \bidi@patchcmd{\speci@ls}{%
18167     \reinsert@footnotes
18168 }{%

```



```

18169 \reinsert@footnotes
18170 \bidi@reinsert@footnotesv@r
18171 \bidi@reinsert@footnotesv@l
18172 }{}{}%
18173 }{}%
18174 \bidi@patchcmd{\multi@column@out}{%
18175 \ifvbox \@kludgeins
18176 }{}%
18177 \if@bidi@csdef{footinsv@l}{%
18178 \divide\skip\footinsv@r\col@number
18179 \ifvoid\footinsv@r \else
18180 \bidi@leave@mult@footins@vr
18181 \fi
18182 \divide\skip\footinsv@l\col@number
18183 \ifvoid\footinsv@l \else
18184 \bidi@leave@mult@footins@vl
18185 \fi
18186 }{}%
18187 \ifvoid\@bidi@copyins@ \else
18188 \bidi@leave@mult@copyins
18189 \fi
18190 \ifvbox \@kludgeins
18191 }{}{}%
18192 }

```

## 119 File multienum-xetex-bidi.def

```

18193 \ProvidesFile{multienum-xetex-bidi.def}[2011/04/16 v0.1 bidi adaptations for multienum packa
18194 \renewcommand{\itemx}[1]{\parbox[t]{%
18195 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep%
18196 \parbox[t]{\remainx}{\bidi@raggedright #1}\par}%\smallskip
18197 \renewcommand{\itemxxx}[2]{\parbox[t]{%
18198 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18199 \parbox[t]{.5\remainxx}{\bidi@raggedright #1}\hfill\parbox[t]{%
18200 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18201 \parbox[t]{0.5\remainxx}{\bidi@raggedright #2}\smallskip}
18202 \renewcommand{\itemxxxx}[3]{\parbox[t]{%
18203 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep%
18204 \parbox[t]{.3333\remainxxx}{\bidi@raggedright #1}\hfill\parbox[t]{%
18205 {\labelwidth}{\hfill {\labelname}}\hskip\labelsep%
18206 \parbox[t]{0.3333\remainxxx}{\bidi@raggedright #2}\hfill\parbox[t]{%
18207 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep%
18208 \parbox[t]{0.3333\remainxxx}{\bidi@raggedright #3}\par}%\smallskip
18209 \renewcommand{\itemxxxxx}[4]{\parbox[t]{%
18210 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18211 \parbox[t]{.25\remainxxxx}{\bidi@raggedright #1}\hfill\parbox[t]{%
18212 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18213 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #2}\hfill%
18214 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18215 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #3}\hfill%
18216 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18217 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #4}\smallskip}
18218 \renewcommand{\itemxxxxxx}[5]{\parbox[t]{%
18219 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep

```



```

18220 \parbox[t]{0.2\remainxxxx}{\bidi@raggedright #1}\hfill%
18221 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18222 \parbox[t]{0.2\remainxxxx}{\bidi@raggedright #2}\hfill%
18223 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18224 \parbox[t]{0.2\remainxxxx}{\bidi@raggedright #3}\hfill%
18225 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18226 \parbox[t]{0.2\remainxxxx}{\bidi@raggedright #4}\hfill%
18227 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18228 \parbox[t]{0.2\remainxxxx}{\bidi@raggedright #5}\smallskip}
18229 \renewcommand{\itemxox}[2]{\parbox[t]{%
18230 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18231 \parbox[t]{\remainxox}{\bidi@raggedright #1}\hfill%
18232 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18233 \parbox[t]{0.3333\remainxxx}{\bidi@raggedright #2}\smallskip}
18234 \renewcommand{\itemxxo}[2]{\parbox[t]{%
18235 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18236 \parbox[t]{0.3333\remainxxx}{\bidi@raggedright #1}\hfill%
18237 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18238 \parbox[t]{\remainxox}{\bidi@raggedright #2}\smallskip}
18239 \renewcommand{\itemxox}[3]{\parbox[t]{%
18240 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18241 \parbox[t]{\remainxox}{\bidi@raggedright #1}\hfill%
18242 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18243 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #2}\hfill%
18244 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18245 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #3}\smallskip}
18246 \renewcommand{\itemxxox}[3]{\parbox[t]{%
18247 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18248 \parbox[t]{.25\remainxxxx}{\bidi@raggedright #1}\hfill%
18249 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18250 \parbox[t]{\remainxox}{\bidi@raggedright #2}\hfill%
18251 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18252 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #3}\smallskip}
18253 \renewcommand{\itemxxxo}[3]{\parbox[t]{%
18254 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18255 \parbox[t]{.25\remainxxxx}{\bidi@raggedright #1}\hfill%
18256 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18257 \parbox[t]{.25\remainxxxx}{\bidi@raggedright #2}\hfill%
18258 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
18259 \parbox[t]{\remainxox}{\bidi@raggedright #3}\smallskip}

```

## 120 File natbib-xetex-bidi.def

```

18260 \ProvidesFile{natbib-xetex-bidi.def}[2017/06/09 v0.2 bidi adaptations for natbib package for
18261 \renewenvironment{thebibliography}[1]{%
18262 \bibsection
18263 \parindent\z@
18264 \bibpreamble
18265 \bibfont
18266 \if@RTL\if@LTR\bibitems\@RTLfalse\else\fi\else\if@RTL\bibitems\@RTLtrue\else\fi\fi
18267 \bidi@@thebibliography@font@hook%
18268 \list{\@biblabel{\the\c@NAT@ctr}}{\@bibsetup{#1}\global\c@NAT@ctr\z@}%
18269 \ifNAT@openbib
18270 \renewcommand\newblock{\par}%

```



```

18271 \else
18272 \renewcommand\newblock{\hskip .11em \@plus.33em \@minus.07em}%
18273 \fi
18274 \sloppy\clubpenalty4000\widowpenalty4000
18275 \sfcode`.\@m
18276 \let\NAT@bibitem@first@sw\@firstoftwo
18277 \let\citeN\cite \let\shortcite\cite
18278 \let\citeasnoun\cite
18279 }{%
18280 \bibitem@fin
18281 \bibpostamble
18282 \def\@noitemerr{%
18283 \PackageWarning{natbib}{Empty `thebibliography' environment}%
18284 }%
18285 \endlist
18286 \bibcleanup
18287 }%

```

## 121 File newfloat-xetex-bidi.def

```

18288 \ProvidesFile{newfloat-xetex-bidi.def}[2013/05/22 v0.1 bidi adaptations for newfloat package]
18289 \renewcommand*\newfloat@setwithin[2]{%
18290 \ifcsname c@chapter\endcsname
18291 \@removefromreset{#1}{chapter}%
18292 \fi
18293 \@removefromreset{#1}{section}%
18294 \edef\@tempa{#2}%
18295 \ifx\@tempa\@empty
18296 \def\@tempa{none}%
18297 \fi
18298 \def\@tempb{none}%
18299 \ifx\@tempa\@tempb
18300 \ifcsname c@chapter\endcsname
18301 \chapterlistsgap@off{#1}%
18302 \fi
18303 \newfloat@@setwithin{#1}{-}{-}%
18304 \else
18305 \def\@tempb{chapter}%
18306 \ifx\@tempa\@tempb
18307 \@addtoreset{#1}{chapter}%
18308 \@chapterlistsgap@on{#1}%
18309 \newfloat@@setwithin{#1}{\ifnum\c@chapter>\z@ \thechapter\@SepMark\fi}{\theHchapter\@S
18310 \else
18311 \def\@tempb{section}%
18312 \ifx\@tempa\@tempb
18313 \@addtoreset{#1}{section}%
18314 \ifcsname c@chapter\endcsname
18315 \@addtoreset{#1}{chapter}%
18316 \@chapterlistsgap@on{#1}%
18317 \newfloat@@setwithin{#1}{\thesection\@SepMark}{\theHsection\@SepMark}%
18318 \else
18319 \newfloat@@setwithin{#1}{\ifnum\c@section>\z@ \thesection\@SepMark\fi}{\theHsection
18320 \fi
18321 \else

```



```

18322      \newfloat@Error{Invalid value `#2' for option `within'}%
18323      \fi
18324      \fi
18325      \fi}

```

## 122 File nicematrix-xetex-bidi.def

```

18326 \ProvidesFile{nicematrix-xetex-bidi.def}[2022/07/04 v0.1 bidi adaptations for nicematrix package]
18327 \ExplSyntaxOn
18328 \bidi@patchcmd{\__nicematrix_array:}{\@tabarray}{%
18329   \bool_if:NF \l__nicematrix_NiceTabular_bool \@RTLtabfalse
18330   \@tabarray
18331 }{}{}
18332 \ExplSyntaxOff
18333

```

## 123 File ntheorem-xetex-bidi.def

```

18334 \ProvidesFile{ntheorem-xetex-bidi.def}[2012/05/01 v0.1 bidi adaptations for ntheorem package]
18335 \gdef\@thm#1#2#3{%
18336   \if@thmmarks
18337     \stepcounter{end\InTheoType ctr}%
18338   \fi
18339   \renewcommand{\InTheoType}{#1}%
18340   \if@thmmarks
18341     \stepcounter{curr#1ctr}%
18342     \setcounter{end#1ctr}{0}%
18343   \fi
18344   \refstepcounter{#2}%
18345   \theorem@prework
18346   \thm@topsepadd \theorempostskipamount % cf. latex.ltx: \@trivlist
18347   \ifvmode \advance\thm@topsepadd\partopsep\fi
18348   \@trivlist
18349   \@topsep \theorempreskipamount
18350   \@topsepadd \thm@topsepadd % used by \@endparenv
18351   \advance\linewidth -\theorem@indent
18352   \advance\@totalleftmargin \theorem@indent
18353   \if@RTL\parshape \@ne 0pt \linewidth\else \parshape \@ne \@totalleftmargin \linewidth\fi
18354   \@ifnextchar[{\@ythm{#1}{#2}{#3}}{\@xthm{#1}{#2}{#3}}

```

## 124 File ntheorem-hyper-xetex-bidi.def

```

18355 \ProvidesFile{ntheorem-hyper-xetex-bidi.def}[2012/05/01 v0.1 bidi adaptations for ntheorem package]
18356 \gdef\@thm#1#2#3{%
18357   \if@thmmarks
18358     \stepcounter{end\InTheoType ctr}%
18359   \fi
18360   \renewcommand{\InTheoType}{#1}%
18361   \if@thmmarks
18362     \stepcounter{curr#1ctr}%
18363     \setcounter{end#1ctr}{0}%
18364   \fi
18365   \refstepcounter{#2}%
18366   \thm@topsepadd \theorempostskipamount % cf. latex.ltx: \@trivlist

```



```

18367 \ifvmode \advance\thm@topsepadd\partopsep\fi
18368 \trivlist
18369 \@topsep \theorempreskipamount
18370 \@topsepadd \thm@topsepadd % used by \@endparenv
18371 \advance\linewidth -\theorem@indent
18372 \advance\@totalleftmargin \theorem@indent
18373 \ifRTL\parshape \@ne 0pt \linewidth\else \parshape \@ne \@totalleftmargin \linewidth\fi
18374 \@ifnextchar [{\@ythm{#1}{#2}{#3}}{\@xthm{#1}{#2}{#3}}

```

## 125 File overpic-xetex-bidi.def

```

18375 \ProvidesFile{overpic-xetex-bidi.def}[2015/12/07 v0.1 bidi adaptations for overpic package f
18376 \renewenvironment{overpic}[2][\%
18377 \sbox{z@}{\includegraphics[#1]{#2}}\%
18378 \settodepth{\@tempcnta}{\usebox{z@}}\%
18379 \settoheight{\@tempcntb}{\usebox{z@}}\%
18380 \advance\@tempcntb\@tempcnta\%
18381 \settowidth{\@tempcnta}{\usebox{z@}}\%
18382 \setlength{\@tempdima}{\unitlength}\%
18383 \count@=\z@\Gin@gridfalse\setkeys{Gin}{#1}\%
18384 \%
18385 \OVP@calc\%
18386 \%
18387 \begin{picture}(\@tempcnta,\@tempcntb)\%
18388 \ifRTL\else\put(0,0){\makebox(0,0)[bl]{\usebox{z@}}}\%
18389 \ifGin@grid\%
18390 \put(0,0){\normalfont\fontsize\@viipt\@viipt\selectfont\%
18391 \grid(\@tempcnta,\@tempcntb)(\count@,\count@)[0,0]}\%
18392 \fi\fi\%
18393 % reset the graphics parameter
18394 \let\Gin@outer@scalex\relax
18395 \let\Gin@outer@scaley\relax
18396 \let\Gin@angle\relax
18397 \let\Gin@ewidth\Gin@exclamation
18398 \let\Gin@eheight\Gin@ewidth
18399 \def\Gin@scalex{1}
18400 \let\Gin@scaley\Gin@exclamation
18401 }{\%
18402 \ifRTL\ifGin@grid\%
18403 \put(0,0){\normalfont\fontsize\@viipt\@viipt\selectfont\%
18404 \grid(\@tempcnta,\@tempcntb)(\count@,\count@)[0,0]}\%
18405 \fi\%
18406 \put(0,0){\makebox(0,0)[bl]{\usebox{z@}}}\fi\%
18407 \end{picture}\%
18408 }{\%

```

## 126 File pdfbase-xetex-bidi.def

```

18409 \ProvidesFile{pdfbase-xetex-bidi.def}[2022/02/18 v0.4 bidi adaptations for pdfbase package f
18410 \ExplSyntaxOn
18411 \cs_set_eq:NN\pbs_outputpage_orig:\@outputpage
18412 \cs_set_nopar:Npn\@outputpage{
18413 \int_gincr:N\g_pbs_page_int
18414 \box_if_vertical:cTF{\@outputbox}{

```



```

18415 \bool_set_true:N\l_pbs_is_vertical_bool
18416 }{
18417 \bool_set_false:N\l_pbs_is_vertical_bool
18418 }
18419 \hbox_set:Nn\@outputbox{
18420 %begin of page
18421 \hbox_overlap_right:n{\seq_map_inline:Nn\g_pbs_bop_seq{##1}}
18422 \box_use_drop:N\@outputbox
18423 %end of page
18424 \hbox_overlap_right:n{\seq_map_inline:Nn\g_pbs_eop_seq{##1}}
18425 }
18426 \bool_if:NT\l_pbs_is_vertical_bool{
18427 \vbox_set:Nn\@outputbox{\box_use_drop:N\@outputbox}
18428 }
18429 \pbs_outputpage_orig:
18430 }
18431 \ExplSyntaxOff

```

## 127 File pdfscape-xetex-bidi.def

```

18432 \ProvidesFile{pdfscape-xetex-bidi.def}[2022/02/18 v0.1 bidi adaptations for pdfscape packa
18433 \bidi@patchcmd{\landscape}{\PLS@Rotate{90}}{%
18434 \if@RTL
18435 \PLS@Rotate{-90}%
18436 \else
18437 \PLS@Rotate{90}%
18438 \fi
18439 }{}{}

```

## 128 File pdfpages-xetex-bidi.def

```

18440 \ProvidesFile{pdfpages-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for pdfpages package
18441 \renewcommand*{\includepdf}[2] [] {%
18442 \begingroup
18443 \@RTLfalse
18444 \let\AM@threadname\relax
18445 \AM@split@options{pdfpages}{#1}%
18446 \edef\AM@temp{\{pdfpages\}\the\@temptokena}%
18447 \expandafter\setkeys\AM@temp
18448 \ifthenelse{\boolean{AM@pkg@draft} \and \boolean{AM@survey}}{%
18449 \let\AM@currentdocname\relax
18450 \renewcommand\includegraphics[2] [] {Survey in draft-mode}%
18451 \def\AM@pagecount{0}%
18452 }{%
18453 \AM@findfile{#2}%
18454 \if\AM@threadname\relax
18455 \def\AM@threadname{\AM@currentdocname}%
18456 \fi
18457 }%
18458 \ifAM@survey
18459 \def\AM@pagestemp{}%
18460 \@tempcnta=0
18461 \def\foo{%
18462 \ifundefined{r@\AM@xrprefix pdfpages@page\the\@tempcnta}%

```



```

18463     {\let\foo\relax}
18464     {\expandafter\ifx\expandafter\\AM@pagestemp\
18465       \edef\AM@pagestemp{%
18466         \AM@pageref{\AM@xrprefix pdfpages@page\the\@tempcnta}}}%
18467     \else
18468       \edef\AM@pagestemp{\AM@pagestemp,%
18469         \AM@pageref{\AM@xrprefix pdfpages@page\the\@tempcnta}}}%
18470     \fi
18471     \advance\@tempcnta 1\relax
18472   }%
18473   \foo
18474 }%
18475 \foo
18476 \expandafter\ifx\expandafter\\AM@pagestemp\
18477   \def\AM@pagestemp{1}%
18478 \fi
18479 \fi
18480 \ifAM@output
18481   \expandafter\AM@readlist\expandafter{\AM@pagestemp}%
18482   \AM@output{#1}%
18483 \fi
18484 \AM@CheckAtEnd
18485 \endgroup
18486 \AM@ClearShipoutPicture
18487 }

```

## 129 File pgfcorescopes.code-xetex-bidi.def

```

18488 \ProvidesFile{pgfcorescopes.code-xetex-bidi.def}[2015/11/14 v0.1 bidi adaptations for pgf pa
18489 \def\pgfpicture{%
18490   \begingroup%
18491     \ifmmode\else\@RTLfalse\beginL\fi%
18492     \pgfpicturetrue%
18493     \global\advance\pgf@picture@serial@count by1\relax%
18494     \edef\pgfpictureid{\pgfid\the\pgf@picture@serial@count}%
18495     \let\pgf@nodecallback=\pgfutil@gobble%
18496     \pgf@picmaxx=-16000pt\relax%
18497     \pgf@picminx=16000pt\relax%
18498     \pgf@picmaxy=-16000pt\relax%
18499     \pgf@picminy=16000pt\relax%
18500     \pgf@relevantforpicturesizetrue%
18501     \pgf@resetpathsizes%
18502     \pgfutil@ifnextchar\bgroup\pgf@oldpicture\pgf@picture}
18503 \def\endpgfpicture{%
18504     \ifpgfrememberpicturepositiononpage%
18505       \hbox to0pt{\pgfsys@markposition{\pgfpictureid}}%
18506     \fi%
18507     % ok, now let's position the box
18508     \ifdim\pgf@picmaxx=-16000pt\relax%
18509       % empty picture. make size 0.
18510       \global\pgf@picmaxx=0pt\relax%
18511       \global\pgf@picminx=0pt\relax%
18512       \global\pgf@picmaxy=0pt\relax%
18513       \global\pgf@picminy=0pt\relax%

```



```

18514         \fi%
18515         % Shift baseline outside:
18516         \pgf@relevantforpicturesizefalse%
18517         \pgf@process{\pgf@baseline}%
18518         \xdef\pgf@shift@baseline{\the\pgf@y}%
18519         %
18520         \pgf@process{\pgf@trimleft}%
18521         \global\advance\pgf@x by-\pgf@picminx
18522         % prepare \hskip\pgf@trimleft@final.
18523         % note that \pgf@trimleft@final is also queried
18524         % by the pgf image externalization.
18525         \xdef\pgf@trimleft@final{-\the\pgf@x}%
18526         %
18527         \pgf@process{\pgf@trimright}%
18528         \global\advance\pgf@x by-\pgf@picmaxx
18529         % prepare \hskip\pgf@trimright@final.
18530         % note that \pgf@trimright@final is also queried
18531         % by the pgf image externalization.
18532         \xdef\pgf@trimright@final{\the\pgf@x}%
18533         %
18534         \pgf@remember@layerlist@globally
18535         \endgroup%
18536         \hss%
18537         \egroup%
18538         \pgf@restore@layerlist@from@global
18539         \pgf@insertlayers%
18540         \endgroup%
18541         \pgfsys@discardpath%
18542         \endgroup%
18543         \pgfsys@endscope%
18544         \pgfsys@endpicture%
18545         \endgroup%
18546         \hss
18547     \egroup%
18548     \pgfsys@typesetpicturebox\pgfpic%
18549     \ifmmode\else\endL\fi%
18550     \endgroup%
18551 }

```

## 130 File pgfsys.code-xetex-bidi.def

```

18552 \ProvidesFile{pgfsys.code-xetex-bidi.def}[2022/06/01 v0.1 bidi adaptations for pgfsys.code.t
18553 \def\pgfsys@shadingoutsidepgfpicture#1{%
18554     \beginL#1\endL%
18555 }
18556
18557

```

## 131 File picinpar-xetex-bidi.def

```

18558 \ProvidesFile{picinpar-xetex-bidi.def}[2013/04/08 v0.2 bidi adaptations for picinpar package
18559 \long\def\@makewincaption#1#2{%
18560     \setbox\@tempboxa\hbox{\footnotesize{\bf #1:\enspace}{#2}}%
18561     \ifdim\wd\@tempboxa>\picwd

```



```

18562      {\footnotesize{\bf #1:\enspace}{#2\par}}
18563      \else
18564          \hbox to\picwd{\if@RTL\beginR\fi\hfil\box\@tempboxa\hfil\if@RTL\endR\fi}
18565      \fi}
18566 \def\endwindow{%
18567     \global\tcd=\tcdsav
18568     \egroup\vskip\parskip\parshape=0 % reset parshape; end \box\rawtext
18569     \vbadness=10000
18570     \splittopskip=0pt
18571 %
18572 % Typeset the lines above the window
18573 %
18574 \ifnum\tcd>0\setbox\holder=\vsplit\rawtext to \tcd\baselineskip
18575 \tcn=\tcd
18576 \loop\advance\tcn -1
18577 \setbox\fslice=\vsplit\holder to\baselineskip
18578 \prune\fslice\linewidth
18579 \topheight=0pt
18580 \ifnum\dp\fslice>\dp\wstrutbox
18581     \advance\topheight-\dp\fslice
18582     \advance\topheight\dp\wstrutbox
18583     \advance\topheight\ilg\fi
18584 \hbox to\linewidth{\box\fslice}
18585 \vskip-\topheight
18586 \ifdim\ht\holder>0pt\repeat
18587 \fi
18588 %
18589 % Now we build the boxes beside the window
18590 %
18591 \global\topheight=\tcl\baselineskip
18592 \ifnum\cumpartcl>0\global\tcl=\cumtcl
18593     \global\topheight=\vpic
18594 \fi
18595 \ifnum\bl>0 \ifnum\br>0 \multiply\topheight by 2\fi\fi
18596 \ifnum\bl>0\setbox\holder=\vsplit\rawtext to\topheight
18597 \else\ifnum\br>0\setbox\holder=\vsplit\rawtext to\topheight\fi\fi
18598 \tcn=\tcl \na=0 \nb=0
18599 \ifnum\bl>0 \ifnum\br>0 \multiply\tcn by 2\fi\fi
18600 \ifnum\bl>0\na=\tcn\ifnum\br>0\divide\na by 2\fi\fi
18601 \ifnum\br>0\nb=\tcn\ifnum\bl>0\divide\nb by 2\fi\fi
18602 \ifnum\na=0\ifnum\nb=0
18603     \setbox\waslice=\vbox to\vpic{\vss}
18604     \setbox\wbslice=\vbox to\vpic{\vss}
18605     \bl=1\br=1
18606     \vskip\ilg
18607 \fi\fi
18608 %
18609 % both sides
18610 %
18611 \ifnum\na>0 \ifnum\nb>0
18612 \loop\advance\nb -1
18613 \advance\na -1
18614 \if@RTL%
18615 \setbox\bslice=\vsplit\holder to\baselineskip

```



```

18616 \prune\bslice\rtside
18617 \setbox\wbslice=\vbox{\unvbox\wbslice\hbox
18618 to\rtside{\box\bslice\hfil}}
18619 \setbox\aslice=\vsplit\holder to\baselineskip
18620 \prune\aslice\lftside
18621 \setbox\waslice=\vbox{\unvbox\waslice\hbox
18622 to\lftside{\box\aslice\hfil}}
18623 \else%
18624 \setbox\aslice=\vsplit\holder to\baselineskip
18625 \prune\aslice\lftside
18626 \setbox\waslice=\vbox{\unvbox\waslice\hbox
18627 to\lftside{\box\aslice\hfil}}
18628 \setbox\bslice=\vsplit\holder to\baselineskip
18629 \prune\bslice\rtside
18630 \setbox\wbslice=\vbox{\unvbox\wbslice\hbox
18631 to\rtside{\box\bslice\hfil}}
18632 \fi%
18633 \ifnum\nb>0\repeat
18634 \fi\fi
18635 %
18636 % only text on the left side
18637 %
18638 \ifnum\na>0
18639   \loop\advance\na -1
18640   \setbox\aslice=\vsplit\holder to\baselineskip
18641   \prune\aslice\lftside
18642   \setbox\waslice=\vbox{\unvbox\waslice\hbox
18643   to\lftside{\box\aslice\hfil}}
18644   \ifdim\ht\holder>0pt\repeat
18645 \fi
18646 %
18647 % only text on the right side
18648 %
18649 \ifnum\nb>0
18650   \loop\advance\nb -1
18651   \setbox\bslice=\vsplit\holder to\baselineskip
18652   \prune\bslice\rtside
18653   \setbox\wbslice=\vbox{\unvbox\wbslice\hbox
18654   to\rtside{\box\bslice\hfil}}
18655   \ifdim\ht\holder>0pt\repeat
18656 \fi
18657 %
18658 % fixing the dimensions of the window part
18659 %
18660 \ifnum\bl=0\topheight=\ht\wbslice
18661 \else\ifnum\br=0\topheight=\ht\waslice
18662   \else\ifdim\ht\waslice>\ht\wbslice\topheight=\ht\waslice
18663     \else\topheight=\ht\wbslice\fi\fi\fi
18664 %
18665 % ship out the window material to the main vertical list
18666 %
18667 \ifnum\bl>0 \ifnum\br>0 \ifdim\ht\wbslice<\topheight
18668 \setbox\wbslice=\vbox to\topheight{\box\wbslice\vfill}
18669 \fi\fi\fi

```



```

18670 \setbox\windowbox=\vbox{\hbox to\linewidth{%
18671 \ifnum\bl>0\box\waslice\hfill\fi%
18672 \vbox to\topheight{\hrule width\picwd height0pt depth0pt\vskip0pt%
18673 \vfill\unvbox\picbox%
18674 \ifnum\picwd>0\vfill\fi%
18675 \vss}\ifnum\br>0\hfill\vbox{\box\wbslice}\fi}}%
18676 \unvbox\windowbox%
18677 \loop
18678 \setbox\bslice=\vsplit\rawtext to\baselineskip
18679 \prune\bslice\linewidth
18680 \setbox\wbslice=\vbox{\hbox to\linewidth{\box\bslice\hfill}}
18681 \unvbox\wbslice
18682 \ifdim\ht\rawtext>0pt
18683 \repeat
18684 }% FINITO

```

## 132 File plain-xetex-bidi.def

```

18685 \def\TeXeTOn{\TeXeTstate=1 }
18686 \def\TeXeTOff{\TeXeTstate=0 }
18687 \TeXeTOn
18688 \def\usebox#1{\leavevmode\copy #1\relax}
18689 \def\bidi@RTL@everypar{\setbox\z@\lastbox\if@RTL\beginR\else\beginL\fi\ifvoid\z@\else\usebo
18690 \let\bidi@o@everypar=\everypar
18691 \newtoks\bidi@n@everypar
18692 \bidi@n@everypar\expandafter{\the\bidi@o@everypar}
18693 \bidi@o@everypar{\bidi@RTL@everypar\the\bidi@n@everypar}
18694 \let\everypar=\bidi@n@everypar
18695 \def\moreLRE{\bracetext \aftergroup\endL \beginL\@RTLfalse}
18696 \def\moreRLE{\bracetext \aftergroup\endR \beginR\@RTLtrue}
18697 \protected\def\hboxR{\hbox\bgroup
18698 \everyhbox{%
18699 \aftergroup\egroup
18700 \everyhbox{}}%
18701 \beginR
18702 \@hboxRconstructtrue
18703 \bgroup
18704 \aftergroup\endR
18705 \aftergroup\egroup
18706 }\hbox}
18707 \protected\def\hboxL{\hbox\bgroup
18708 \everyhbox{%
18709 \aftergroup\egroup
18710 \everyhbox{}}%
18711 \beginL
18712 \@hboxRconstructfalse
18713 \bgroup
18714 \aftergroup\endL
18715 \aftergroup\egroup
18716 }\hbox}
18717 \protected\def\vboxR{\vbox\bgroup
18718 \everyvbox{%
18719 \aftergroup\egroup
18720 \everyvbox{}}%

```



```

18721 \RTLtrue
18722 \bgroup
18723 \aftergroup\egroup
18724 }\vbox}
18725 \protected\def\vboxL{\vbox\bgroup
18726 \everyvbox{%
18727 \aftergroup\egroup
18728 \everyvbox{}}%
18729 \RTLfalse
18730 \bgroup
18731 \aftergroup\egroup
18732 }\vbox}
18733 \def\LTR{\par\RTLfalse\RTL@footnotefalse\hsize\linewidth\parshape\z@}
18734 \def\endLTR{\par}
18735 \def\RTL{\par\RTLtrue\RTL@footnotettrue\hsize\linewidth\parshape\z@}
18736 \def\endRTL{\par}
18737 \def\setRTL{\RTLtrue\RTL@footnotettrue}
18738 \def\setLTR{\RTLfalse\RTL@footnotefalse}
18739 \let\unsetRTL=\setLTR
18740 \let\unsetLTR=\setRTL
18741 \let\LR=\LRE
18742 \let\RL=\RLE
18743 \def\@ensure@RTL#1{\if@RTL#1\else\RLE{#1}\fi}
18744 \def\@ensure@LTR#1{\if@RTL\LRE{#1}\else#1\fi}
18745 \let\@ensure@RL=\@ensure@RTL
18746 \let\@ensure@LR=\@ensure@LTR
18747 \def\@ensure@dir#1{\if@RTL\RLE{#1}\else{#1}\fi}
18748 \let\@ensure@maindir=\@ensure@dir
18749 \def\@RTL{RTL}
18750 \def\@LTR{LTR}
18751 \def\save@dir{\if@RTL\gdef\saved@dir{RTL}\else\gdef\saved@dir{LTR}\fi}
18752 \def\reset@dir{\ifx\saved@dir\@RTL\setRTL\else\ifx\saved@dir\@LTR\setLTR\else\relax\fi}
18753 \let\@TeX\TeX
18754 \def\TeX{\@ensure@LTR{\@TeX}}
18755 \def\pagecontents{\ifvoid\topins\else\unvbox\topins\fi}
18756 \dimen@=\dp\cclv\unvbox\cclv % open up \box255
18757 \ifvoid\footins\else % footnote info is present
18758 \vskip\skip\footins
18759 \footnoterule
18760 \unvbox\footins\fi
18761 \ifraggedbottom \kern-\dimen@ \vfil \fi
18762 \ifvoid\@bidi@copyins@
18763 \else
18764 \vskip\skip\@bidi@copyins@
18765 \unvbox\@bidi@copyins@
18766 \fi
18767 }
18768 \long\def\bidi@reflect@box#1{%
18769 \leavevmode
18770 \setbox\z@\hbox{#1}}%
18771 \setbox\tw@\hbox{\special{x:gsave}\special{x:scale -1 1}\rlap{\copy\z@}\special{x:grestore}}
18772 \hbox to \wd\z@{\kern\wd\z@\box\tw@\hss}%
18773 }
18774 \def\XeTeX{\LR{\leavevmode$\smash{\hbox{X}\lower.5ex

```



```

18775 \hbox{\kern-.125em\bidireflect@box{E}}\kern-.1667em \TeX}}$}}
18776 \let\setRL=\setRTL
18777 \let\setLR=\setLTR
18778 \let\unsetRL=\setLTR
18779 \let\bidisaved@eqno=\eqno
18780 \let\bidisaved@leqno=\leqno
18781 \def\eqno{\ifnum\predisplaydirection<\z@ \bidisaved@leqno \else \bidisaved@eqno \fi}
18782 \def\leqno{\ifnum\predisplaydirection<\z@ \bidisaved@eqno \else \bidisaved@leqno \fi}
18783 \def\centerline#1{\line{\hss\if@RTL\beginR\fi#1\if@RTL\endR\fi\hss}}
18784 \def\leftline#1{\line{\if@RTL\beginR\fi#1\if@RTL\endR\fi\hss}}
18785 \def\rightline#1{\line{\hss\if@RTL\beginR\fi#1\if@RTL\endR\fi}}

```

### 133 File pstricks-xetex-bidi.def

```

18786 \ProvidesFile{pstricks-xetex-bidi.def}[2015/11/18 v0.5 bidi adaptations for pstricks package]
18787 \def\pspicture{\begingroup\ifmmode\else\@RTLfalse\beginL\fi\pst@ifstar\pst@picture}
18788 \def\endpspicture{%
18789   \ifshowgrid\ifnum\showgridp>0
18790     \psgrid[xunit=\sh@wgridXunit,yunit=\sh@wgridYunit,style=gridstyle]\fi\fi%
18791   \pst@killglue
18792   % \global\pst@shift=\pst@shift% in fact of the following endgroup
18793   \endgroup
18794   \egroup
18795   \ifdim\wd\pst@hbox=\z@\else
18796     %\@pstrickserr{Extraneous space in the pspicture environment}%
18797     %\Type \space <return> \space to proceed.}%
18798   \fi
18799   \ht\pst@hbox=\pst@dimd
18800   \dp\pst@hbox=-\pst@dimb
18801   \setbox\pst@hbox=\hbox{%
18802     \kern-\pst@dima
18803   % Orig version -----
18804   %\ifx\pst@tempa\@empty\else
18805   %\advance\pst@dimd-\pst@dimb
18806   %\pst@dimd=\pst@tempa\pst@dimd
18807   %\advance\pst@dimd\pst@dimb
18808   %\lower\pst@dimd
18809   %\fi
18810   %----- end Orig
18811   \ifPst@shift@star%\typeout{==pstricks== old behaviour of the shift option}% shift=*
18812   \advance\pst@dimd-\pst@dimb
18813   \pst@dimd=0.5\pst@dimd
18814   \else\pst@dimd-\pst@shift\fi
18815   \advance\pst@dimd\pst@dimb
18816   \lower\pst@dimd
18817   \box\pst@hbox
18818   \kern\pst@dimc}%
18819   \if@star\setbox\pst@hbox=\hbox{\clipbox@@\z@}\fi
18820   \leavevmode\ifdim\overfullrule=\z@\box\pst@hbox\else
18821   \fboxsep=0pt
18822   \fbox{\rule[-\pst@shift]{0pt}{\ht\pst@hbox}\rule{\wd\pst@hbox}{0pt}}\fi
18823   \ifmmode\else\endL\fi
18824   \endgroup%
18825   \psset[pstricks]{shift=0}% reset value

```



18826 }

## 134 File quotchap-xetex-bidi.def

```
18827 \ProvidesFile{quotchap-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for quotchap package]
18828 \renewcommand{\qauthor}[1]{%
18829   \par\smallskip
18830   {\if@RTL\raggedright\else\raggedleft\fi\upshape #1\qqquad\hbox{\par}\bigskip}
18831 \renewcommand{\@makechapterhead}[1]{\chapterheadstartvskip%
18832   {\size@chapter{\sectfont\if@RTL\raggedright\else\raggedleft\fi
18833     {\chapnumfont
18834       \ifnum \c@secnumdepth >\m@ne%
18835       \if@mainmatter\thechapter%
18836       \fi\fi
18837       \par\nobreak}%
18838     {\if@RTL\raggedright\else\raggedleft\fi\advance\if@RTL\rightmargin\else\leftmargin\fi}
18839     \nobreak\chapterheadendvskip}}
18840 \renewcommand*{\@iprintcites}{%
18841   \vbox to\z@{\leavevmode\copy\@quotebox\vss}
18842   \global\let\@printcites\relax}
```

## 135 File ragged2e-xetex-bidi.def

```
18843 \ProvidesFile{ragged2e-xetex-bidi.def}[2018/10/17 v0.3 bidi adaptations for ragged2e package]
18844 \renewcommand{\Centering}{%
18845   \ifx\\ \@raggedtwoe@savedcr
18846     \let\\ \@centercr
18847   \fi
18848   \let\@gnewline\@raggedtwoe@gnewline
18849   \if@RTL\rightskip\else\leftskip\fi\CenteringLeftskip
18850   \@rightskip\CenteringRightskip
18851   \if@RTL\leftskip\else\rightskip\fi\@rightskip
18852   \parfillskip\CenteringParfillskip
18853   \parindent\CenteringParindent
18854   \@raggedtwoe@spaceskiptrue
18855   \@raggedtwoe@everyselectfont
18856 }
18857 \renewcommand{\RaggedLeft}{%
18858   \ifx\\ \@raggedtwoe@savedcr
18859     \let\\ \@centercr
18860   \fi
18861   \let\@gnewline\@raggedtwoe@gnewline
18862   \if@RTL\rightskip\else\leftskip\fi\RaggedLeftLeftskip
18863   \@rightskip\RaggedLeftRightskip
18864   \if@RTL\leftskip\else\rightskip\fi\@rightskip
18865   \parfillskip\RaggedLeftParfillskip
18866   \parindent\RaggedLeftParindent
18867   \@raggedtwoe@spaceskiptrue
18868   \@raggedtwoe@everyselectfont
18869 }
18870 \renewcommand{\RaggedRight}{%
18871   \ifx\\ \@raggedtwoe@savedcr
18872     \let\\ \@centercr
18873   \fi
```



```

18874 \let\@gnewline\@raggedtwoe@gnewline
18875 \if@RTL\rightrightskip\else\leftskip\fi\RaggedRightLeftskip
18876 \@rightskip\RaggedRightRightskip
18877 \if@RTL\leftskip\else\rightskip\fi\@rightskip
18878 \parfillskip\RaggedRightParfillskip
18879 \parindent\RaggedRightParindent
18880 \@raggedtwoe@spaceskiptrue
18881 \@raggedtwoe@everyselectfont
18882 }
18883 \renewcommand{\justifying}{%
18884 \let\\\@raggedtwoe@savedcr
18885 \let\@gnewline\@raggedtwoe@saved@gnewline
18886 \if@RTL\rightrightskip\else\leftskip\fi\z@
18887 \@rightskip\z@
18888 \if@RTL\leftskip\else\rightskip\fi\@rightskip
18889 \parfillskip\JustifyingParfillskip
18890 \parindent\JustifyingParindent
18891 \@raggedtwoe@spaceskipfalse
18892 \@raggedtwoe@everyselectfont
18893 }
18894 \def\@raggedtwoe@raggedrightboxes@opt{%
18895 \renewcommand{\arrayparboxrestore}{%
18896 \let\if@nobreak\iffalse
18897 \let\if@noskipsec\iffalse
18898 \let\par\@par
18899 \let\-\@dischyph
18900 \let'\@acci\let\` \@acci\let\=\@acciii
18901 \parskip\z@skip
18902 \everypar{}%
18903 \linewidth\hsize
18904 \@totalleftmargin\z@
18905 \if@RTL
18906 \RaggedLeft
18907 \else
18908 \RaggedRight
18909 \fi
18910 \lineskip\normallineskip
18911 \baselineskip\normalbaselineskip
18912 \sloppy}%
18913 \let\@raggedtwoe@raggedrightboxes@opt\relax
18914 }
18915 \def\@raggedtwoe@document@opt{%
18916 \AtBeginDocument{\@raggedtwoe@abdhook}%
18917 \@raggedtwoe@raggedrightboxes@opt
18918 \@raggedtwoe@footmisctrue
18919 \let\@raggedtwoe@document@opt\relax
18920 }
18921 \def\@raggedtwoe@abdhook{%
18922 \PackageInfo{ragged2e}{ABD: executing '\string\RaggedLeft' for
18923 right to left documents and '\string\RaggedRight' for left
18924 to right documents}%
18925 \if@RTL
18926 \RaggedLeft
18927 \else

```



```

18928   \RaggedRight
18929   \fi
18930   \@ifundefined{@tocrmarg}{\edef\tocrmarg{\tocrmarg plus 2em}}%
18931   \let\@raggedtwoe@abdhook\relax
18932   }
18933   \@ifpackagewith{ragged2e}{raggedrightboxes}{%
18934     \@raggedtwoe@raggedrightboxes@opt
18935   }{}
18936   \@ifpackagewith{ragged2e}{document}{%
18937     \@raggedtwoe@document@opt
18938   }{}
18939   \let\origin@RaggedLeft=\RaggedLeft
18940   \let\origin@RaggedRight=\RaggedRight
18941   \def\RaggedLeft{\if@RTL\origin@RaggedRight\else\origin@RaggedLeft\fi}
18942   \def\RaggedRight{\if@RTL\origin@RaggedLeft\else\origin@RaggedRight\fi}

```

## 136 File rapport1-xetex-bidi.def

```

18943 \ProvidesFile{rapport1-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for rapport1 class f
18944 \renewenvironment{theindex}{%
18945   \if@twocolumn
18946     \@restonecolfalse
18947   \else
18948     \@restonecoltrue
18949   \fi
18950   \columnseprule \z@
18951   \columnsep 35\p@
18952   \twocolumn[\@makeschapterhead{\indexname}]%
18953   \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
18954   \thispagestyle{plain}\parindent\z@
18955   \parskip\z@ \@plus .3\p@\relax
18956   \let\item\@idxitem
18957 }{%
18958   \if@restonecol\onecolumn\else\clearpage\fi}
18959 \renewcommand*\head@style{%
18960   \interlinepenalty \@M
18961   \hyphenpenalty=\@M \exhyphenpenalty=\@M
18962   \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
18963 \if@titlepage
18964   \renewenvironment{abstract}{%
18965     \titlepage
18966     \null\vfil
18967     \section*{\SectFont\abstractname}%
18968     \noindent\ignorespaces}
18969   {\par\vfil\null\endtitlepage}
18970 \else
18971   \renewenvironment{abstract}{%
18972     \if@twocolumn
18973       \section*{\abstractname}%
18974     \else
18975       \bgroup\if@RTL\leftskip\else\rightskip\fi=\unitindent
18976       \section*{\small\SectFont\abstractname}%
18977       \noindent\ignorespaces
18978     \fi}

```



```

18979      {\if@twocolumn\else\par\egroup\fi}
18980 \fi
18981 \renewcommand*{\@regtocline[3]{%
18982   \ifnum #1>\c@tocdepth
18983   \else
18984     \vskip\z@ \@plus.2\p@
18985     {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
18986      \if@RTL\righskip\else\leftskip\fi\unitindent
18987      \if@RTL\leftskip\else\righskip\fi\unitindent\@plus 1fil
18988      \parfillskip\z@
18989      \@tempdima\unitindent
18990      \parindent\z@
18991      \leavevmode
18992      \hbox{}\hskip -\if@RTL\righskip\else\leftskip\fi\relax#2\nobreak
18993      \hskip 1em \nobreak{\slshape #3}\par
18994     }%
18995   \fi}
18996 \if@oldtoc
18997 \renewcommand*{\l@part[2]{%
18998   \ifnum \c@tocdepth >-2\relax
18999     \addpenalty{-\@highpenalty}%
19000     \addvspace{2.25em \@plus\p@}%
19001     \begingroup
19002       \setlength\@tempdima{3em}%
19003       \parindent \z@ \if@RTL\leftskip\else\righskip\fi \@pnumwidth
19004       \parfillskip -\@pnumwidth
19005       {\leavevmode
19006         \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
19007         \nobreak
19008         \global\@nobreaktrue
19009         \everypar{\global\@nobreakfalse\everypar{}}%
19010       \endgroup
19011     \fi}
19012 \else
19013   \renewcommand*{\l@part{%
19014     \ifnum \c@tocdepth >-2\relax
19015       \addpenalty{-\@highpenalty}%
19016       \addvspace{2.25em \@plus \p@}%
19017       \@regtocline{0}%
19018     \fi}
19019 \fi
19020 \if@oldtoc
19021 \renewcommand*{\l@chapter[2]{%
19022   \addpenalty{-\@highpenalty}%
19023   \vskip 1.0em \@plus\p@
19024   \setlength\@tempdima{1.5em}%
19025   \begingroup
19026     \parindent \z@ \if@RTL\leftskip\else\righskip\fi \@pnumwidth
19027     \parfillskip -\@pnumwidth
19028     \leavevmode \bfseries
19029     \advance\if@RTL\righskip\else\leftskip\fi\@tempdima
19030     \hskip -\if@RTL\righskip\else\leftskip\fi
19031     #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
19032     \penalty\@highpenalty

```



```

19033   \endgroup}
19034 \else
19035   \renewcommand*\l@chapter{\@regtocline{0}}
19036 \fi
19037 \renewcommand*\left@footnoterule{%
19038   \kern-3\p@
19039   \kern.5\baselineskip
19040   \hrule\@width\unitindent
19041   \kern.4\baselineskip
19042 }
19043 \renewcommand*\right@footnoterule{%
19044   \kern-3\p@
19045   \kern.5\baselineskip
19046   \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
19047   \kern.4\baselineskip}
19048 \renewenvironment{thebibliography}[1]
19049   {\chapter*{\bibname}%
19050    \mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
19051    \ifRTL\ifLTRbibitems\@RTLfalse\else\fi\else\ifRTLbibitems\@RTLtrue\else\fi\fi
19052    \bidi@thebibliography@font@hook%
19053    \list{\@biblabel{\@arabic\c@enumiv}}%
19054      {\settowidth\labelwidth{\@biblabel{#1}}%
19055       \leftmargin\labelwidth
19056       \advance\leftmargin\labelsep
19057       \@openbib@code
19058       \usecounter{enumiv}%
19059       \let\p@enumiv\@empty
19060       \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
19061   \sloppy\clubpenalty4000\widowpenalty4000%
19062   \sfcode\.\@m}
19063   {\def\@noitemerr
19064    {\@latex@warning{Empty `thebibliography' environment}}}%
19065   \endlist}
19066 \renewcommand*\thesection{\thechapter\@SepMark\@arabic\c@section}
19067 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
19068 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
19069 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
19070 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
19071 \renewcommand*\theequation{%
19072   \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@equation}
19073 \renewcommand*\thefigure{%
19074   \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@figure}
19075 \renewcommand*\thetable{%
19076   \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@table}
19077 \if@titlepage
19078 \renewcommand*\TitleFont{\rmfamily}
19079 \renewcommand*\maketitle{%
19080   \begin{titlepage}%
19081     \let\footnotesize\small
19082     \let\right@footnoterule\relax
19083     \let\left@footnoterule\relax
19084     \let\textwidth\footnoterule\relax
19085     \let \footnote \thanks
19086     \long\def\@makefntext##1{\parindent\z@

```



```

19087         \def\labelitemi{\textendash}\@revlabeltrue
19088         \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
19089 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
19090 \ifcompatibility\setcounter{page}{0}\fi
19091 \null\vfil
19092 \vskip 60\p@
19093 \begin{center}%
19094   \TitleFont
19095   {\LARGE \def\\{\penalty -\@M}
19096     \if@allcaps
19097       \expandafter\uc@nothanks\@title\thanks\relax
19098     \else
19099       \@title
19100     \fi\par}%
19101 \vskip 3em%
19102 {\large
19103   \lineskip .75em \parindent\z@
19104   \begin{tabular}[t]{c}%
19105     \if@allcaps
19106       \expandafter\uc@authornothanks\@author\and\relax
19107     \else
19108       \@author
19109     \fi
19110   \end{tabular}\par}%
19111 \vskip 1.5em%
19112 {\large
19113   \if@allcaps
19114     \uppercase\expandafter{\@date}%
19115   \else
19116     \@date
19117   \fi\par}%
19118 \end{center}\par
19119 \@thanks
19120 \vfil\null
19121 \end{titlepage}%
19122 \setcounter{footnote}{0}%
19123 \global\let\thanks\relax
19124 \global\let\maketitle\relax
19125 \global\let\@thanks\@empty
19126 \global\let\@author\@empty
19127 \global\let\@title\@empty
19128 \global\let\@date\@empty
19129 \global\let\title\relax
19130 \global\let\author\relax
19131 \global\let\date\relax
19132 \global\let\and\relax
19133 }
19134 \def\uc@nothanks#1\thanks{\uppercase{#1}\futurelet\@tempa\uc@tx}
19135 \def\uc@authornothanks#1\and{\uc@nothanks#1\thanks\relax
19136   \futurelet\@tempa\uc@ax}
19137 \def\uc@ax{%
19138   \ifx\@tempa\relax
19139   \else
19140     \ \andname \ \ \expandafter\uc@authornothanks

```



```

19141 \fi}
19142 \def\uc@tx{\ifx\@tempa\relax
19143 \else \expandafter\uc@ty \fi}
19144 \def\uc@ty#1{\thanks{#1}\uc@nothanks}
19145 \else
19146 \renewcommand*\maketitle{\par
19147 \begin{group}
19148 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
19149 \def\@makefnmark{\rlap{%
19150 \@textsuperscript{\normalfont\@thefnmark}}}%
19151 \long\def\@makefntext{\@xmakefntext{%
19152 \@textsuperscript{\normalfont\@thefnmark}}}%
19153 \if@twocolumn
19154 \ifnum \col@number=\@one
19155 \maketitle
19156 \else
19157 \twocolumn[\maketitle]%
19158 \fi
19159 \else
19160 \newpage
19161 \global\@topnum\z@
19162 \maketitle
19163 \fi
19164 \thispagestyle{plain}\@thanks
19165 \end{group}
19166 \setcounter{footnote}{0}%
19167 \global\let\thanks\relax
19168 \global\let\maketitle\relax
19169 \global\let\@maketitle\relax
19170 \global\let\@thanks\@empty
19171 \global\let\@author\@empty
19172 \global\let\@title\@empty
19173 \global\let\@date\@empty
19174 \global\let\title\relax
19175 \global\let\author\relax
19176 \global\let\date\relax
19177 \global\let\and\relax
19178 }
19179 \def\@maketitle{%
19180 \newpage
19181 \null
19182 \vskip 2em%
19183 \begin{center}%
19184 \let \footnote \thanks
19185 {\LARGE \TitleFont \@title \par}%
19186 \vskip 1.5em%
19187 {\large \TitleFont
19188 \lineskip .5em%
19189 \begin{tabular}[t]{c}%
19190 \@author
19191 \end{tabular}\par}%
19192 \vskip 1em%
19193 {\large \TitleFont \@date}%
19194 \end{center}%

```



```

19195 \par
19196 \vskip 1.5em}
19197 \fi

```

## 137 File rapport3-xetex-bidi.def

```

19198 \ProvidesFile{rapport3-xetex-bidi.def}[2017/06/09 v0.6 bidi adaptations for rapport3 class f
19199 \renewenvironment{theindex}{%
19200 \if@twocolumn
19201 \@restonecolfalse
19202 \else
19203 \@restonecoltrue
19204 \fi
19205 \columnseprule \z@
19206 \columnsep 35\p@
19207 \twocolumn[\@makeschapterhead{\indexname}]%
19208 \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
19209 \thispagestyle{plain}\parindent\z@
19210 \parskip\z@ \@plus .3\p@\relax
19211 \let\item\@idxitem
19212 }{%
19213 \if@restonecol\onecolumn\else\clearpage\fi}
19214 \if@titlepage
19215 \renewcommand*\TitleFont{\rmfamily}
19216 \renewcommand*\maketitle{%
19217 \begin{titlepage}%
19218 \let\footnotesize\small
19219 \let\right@footnoterule\relax
19220 \let\left@footnoterule\relax
19221 \let\textwidth\footnoterule\relax
19222 \let \footnote \thanks
19223 \let \LTRfootnote \LTRthanks
19224 \let \RTLfootnote \RTLthanks
19225 \long\def\@makefntext##1{\parindent\z@
19226 \def\labelitemi{\textendash}\@revlabeltrue
19227 \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
19228 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
19229 \if@compatibility\setcounter{page}{0}\fi
19230 \null\vfil
19231 \vskip 60\p@
19232 \begin{center}%
19233 \TitleFont
19234 {\LARGE \def\\{\penalty -\@M}
19235 \if@allcaps
19236 \expandafter\uc@nothanks\@title\thanks\relax
19237 \else
19238 \@title
19239 \fi\par}%
19240 \vskip 3em%
19241 {\large
19242 \lineskip .75em \parindent\z@
19243 \begin{tabular}[t]{c}%
19244 \if@allcaps
19245 \expandafter\uc@authornothanks\@author\and\relax

```



```

19246         \else
19247             \@author
19248         \fi
19249     \end{tabular}\par}%
19250 \vskip 1.5em%
19251 {\large
19252     \if@allcaps
19253         \uppercase\expandafter{\@date}%
19254     \else
19255         \@date
19256     \fi\par}%
19257 \end{center}\par
19258 \@thanks
19259 \vfil\null
19260 \end{titlepage}%
19261 \setcounter{footnote}{0}%
19262 \global\let\thanks\relax
19263 \global\let\LTRthanks\relax
19264 \global\let\RTLthanks\relax
19265 \global\let\maketitle\relax
19266 \global\let\@thanks\@empty
19267 \global\let\@author\@empty
19268 \global\let\@title\@empty
19269 \global\let\@date\@empty
19270 \global\let\title\relax
19271 \global\let\author\relax
19272 \global\let\date\relax
19273 \global\let\and\relax
19274 }
19275 \def\uc@nothanks#1\thanks{\uppercase{#1}\futurelet\@tempa\uc@tx}
19276 \def\uc@authornothanks#1\and{\uc@nothanks#1\thanks\relax
19277     \futurelet\@tempa\uc@ax}%
19278 \def\uc@ax{%
19279     \ifx\@tempa\relax
19280     \else
19281         \andname \andname \expandafter\uc@authornothanks
19282     \fi}
19283 \def\uc@tx{\ifx\@tempa\relax
19284     \else \expandafter\uc@ty \fi}
19285 \def\uc@ty#1{\thanks{#1}\uc@nothanks}
19286 \else
19287 \renewcommand*\maketitle{\par
19288     \begin{group}
19289         \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
19290         \def\@makefnmark{\rlap{%
19291             \@textsuperscript{\normalfont\@thefnmark}}}%
19292         \long\def\@makefntext{\@xmakefntext{%
19293             \@textsuperscript{\normalfont\@thefnmark}}}%
19294         \if@twocolumn
19295             \ifnum \col@number=\@ne
19296                 \@maketitle
19297             \else
19298                 \twocolumn[\@maketitle]%
19299             \fi

```



```

19300 \else
19301 \newpage
19302 \global\@topnum\z@
19303 \@maketitle
19304 \fi
19305 \thispagestyle{plain}\@thanks
19306 \endgroup
19307 \setcounter{footnote}{0}%
19308 \global\let\thanks\relax
19309 \global\let\LTRthanks\relax
19310 \global\let\RTLthanks\relax
19311 \global\let\maketitle\relax
19312 \global\let\@maketitle\relax
19313 \global\let\@thanks\@empty
19314 \global\let\@author\@empty
19315 \global\let\@title\@empty
19316 \global\let\@date\@empty
19317 \global\let\title\relax
19318 \global\let\author\relax
19319 \global\let\date\relax
19320 \global\let\and\relax
19321 }
19322 \def\@maketitle{%
19323 \newpage
19324 \null
19325 \vskip 2em%
19326 \if@titlecentered
19327 \begin{center}%
19328 \let \footnote \thanks
19329 \let \LTRfootnote \LTRthanks
19330 \let \RTLfootnote \RTLthanks
19331 {\LARGE \TitleFont \@title \par}%
19332 \vskip 1.5em%
19333 {\large \TitleFont
19334 \lineskip .5em%
19335 \begin{tabular}[t]{c}%
19336 \@author
19337 \end{tabular}\par}%
19338 \vskip 1em%
19339 {\large \TitleFont \@date}%
19340 \end{center}%
19341 \else
19342 {\LARGE \TitleFont \head@style \@title \par} \vskip 1.5em
19343 {\large \TitleFont \lineskip .5em \tabcolsep\z@
19344 \def\and{%% \begin{tabular} has already started
19345 \end{tabular}\hskip 1em plus .17fil
19346 \if@RTL\begin{tabular}[t]{r}\else\begin{tabular}[t]{l}\fi}% \end{tabu
19347 \if@RTL\begin{tabular}[t]{r}\else\begin{tabular}[t]{l}\fi\@author\end{tabular}\
19348 \vskip 1em {\large \TitleFont \@date}
19349 \fi
19350 \par
19351 \vskip 1.5em}
19352 \fi
19353 \renewcommand*\@regtocline[3]{%

```



```

19354 \ifnum #1>\c@tocdepth
19355 \else
19356 \vskip\z@\@plus.2\p@
19357 {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
19358 \if@RTL\righskip\else\leftskip\fi\unitindent
19359 \if@RTL\leftskip\else\righskip\fi\unitindent\@plus 1fil
19360 \parfillskip\z@
19361 \@tempdima\unitindent
19362 \parindent\z@
19363 \leavevmode
19364 \hbox{}\hskip -\if@RTL\righskip\else\leftskip\fi\relax#2\nobreak
19365 \hskip 1em \nobreak{\slshape #3}\par
19366 }%
19367 \fi}
19368 \if@oldtoc
19369 \renewcommand*\l@part[2]{%
19370 \ifnum \c@tocdepth >-2\relax
19371 \addpenalty{-\@highpenalty}%
19372 \addvspace{2.25em \@plus\p@}%
19373 \begingroup
19374 \setlength\@tempdima{3em}%
19375 \parindent \z@ \if@RTL\leftskip\else\righskip\fi \@pnumwidth
19376 \parfillskip -\@pnumwidth
19377 {\leavevmode
19378 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
19379 \nobreak
19380 \global\@nobreaktrue
19381 \everypar{\global\@nobreakfalse\everypar{}}%
19382 \endgroup
19383 \fi}
19384 \else
19385 \renewcommand*\l@part{%
19386 \ifnum \c@tocdepth >-2\relax
19387 \addpenalty{-\@highpenalty}%
19388 \addvspace{2.25em \@plus \p@}%
19389 \@regtocline{0}%
19390 \fi}
19391 \fi
19392 \if@oldtoc
19393 \renewcommand*\l@chapter[2]{%
19394 \addpenalty{-\@highpenalty}%
19395 \vskip 1.0em \@plus\p@
19396 \setlength\@tempdima{1.5em}%
19397 \begingroup
19398 \parindent \z@ \if@RTL\leftskip\else\righskip\fi \@pnumwidth
19399 \parfillskip -\@pnumwidth
19400 \leavevmode \bfseries
19401 \advance\if@RTL\righskip\else\leftskip\fi\@tempdima
19402 \hskip -\if@RTL\righskip\else\leftskip\fi
19403 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
19404 \penalty\@highpenalty
19405 \endgroup}
19406 \else
19407 \renewcommand*\l@chapter{\@regtocline{0}}

```



```

19408 \fi
19409 \renewcommand*\head@style{%
19410     \interlinepenalty \@M
19411     \hyphenpenalty=\@M \exhyphenpenalty=\@M
19412     \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
19413 \if@titlepage
19414     \renewenvironment{abstract}{%
19415         \titlepage
19416         \null\vfil
19417         \section*{\SectFont\abstractname}%
19418         \noindent\ignorespaces}
19419     {\par\vfil\null\endtitlepage}
19420 \else
19421     \renewenvironment{abstract}{%
19422         \if@twocolumn
19423             \section*{\abstractname}%
19424         \else
19425             \bgroup\if@RTL\leftskip\else\rightskip\fi=\unitindent
19426             \section*{\small\SectFont\abstractname}%
19427             \noindent\ignorespaces
19428         \fi}
19429     {\if@twocolumn\else\par\egroup\fi}
19430 \fi
19431 \renewcommand*\thesection{\thechapter\@SepMark\@arabic\c@section}
19432 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
19433 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
19434 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
19435 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
19436 \renewcommand*\thefigure{%
19437     \ifnum\c@chapter>\z@\thechapter\@SepMark\fi\@arabic\c@figure}
19438 \renewcommand*\thetable{%
19439     \ifnum\c@chapter>\z@\thechapter\@SepMark\fi\@arabic\c@table}
19440 \renewcommand*\theequation{%
19441     \ifnum\c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@equation}
19442 \renewenvironment{thebibliography}[1]
19443     {\chapter*{\bibname}%
19444         \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
19445         \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
19446         \bidi@thebibliography@font@hook%
19447         \list{\@biblabel{\@arabic\c@enumiv}}%
19448             {\settowidth\labelwidth{\@biblabel{#1}}%
19449             \leftmargin\labelwidth
19450             \advance\leftmargin\labelsep
19451             \@openbib@code
19452             \usecounter{enumiv}%
19453             \let\p@enumiv\@empty
19454             \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
19455         \sloppy\clubpenalty4000\widowpenalty4000%
19456         \sfcode\.\@m}
19457     {\def\@noitemerr
19458         {\@latex@warning{Empty `thebibliography' environment}}%
19459         \endlist}
19460 \renewcommand*\left@footnoterule{%
19461     \kern-3\p@

```



```

19462 \kern.5\baselineskip
19463 \hrule\@width\unitindent
19464 \kern.4\baselineskip
19465 }
19466 \renewcommand*\right@footnoterule{%
19467 \kern-3\p@
19468 \kern.5\baselineskip
19469 \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
19470 \kern.4\baselineskip}
19471 \renewcommand*\head@style{%
19472 \interlinepenalty \@M
19473 \hyphenpenalty=\@M \exhyphenpenalty=\@M
19474 \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}

```

## 138 File refrep-xetex-bidi.def

```

19475 \ProvidesFile{refrep-xetex-bidi.def}[2017/06/09 v0.5 bidi adaptations for refrep class for X
19476 \if@titlepage
19477 \renewcommand\maketitle{\begin{titlepage}%
19478 \let\footnotesize\small
19479 \let\right@footnoterule\relax
19480 \let\left@footnoterule\relax
19481 \let\textwidth@footnoterule\relax
19482 \let\footnote\thanks
19483 \let\LTRfootnote\LTRthanks
19484 \let\RTLfootnote\RTLthanks
19485 \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
19486 \def\@makefnmark%
19487 {\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
19488 \long\def\@makefntext##1{%
19489 \setpar{\@par
19490 \@tempdima = \hsize
19491 \advance\@tempdima -1em
19492 \parshape \@ne 1em \@tempdima}%
19493 \par\parindent 1em \noindent
19494 \hb@xt@\z@\{\hss\@textsuperscript{\normalfont\@thefnmark}\,}##1}
19495 \null\vfil
19496 \vskip 60\p@
19497 \begin{center}%
19498 {\LARGE \@title \par}%
19499 \vskip 3em%
19500 {\large
19501 \lineskip .75em%
19502 \begin{tabular}[t]{c}%
19503 \@author
19504 \end{tabular}\par}%
19505 \vskip 1.5em%
19506 {\large \@date \par}% % Set date in \large size.
19507 \end{center}\par
19508 \@thanks
19509 \vfil\null
19510 \end{titlepage}%
19511 \setcounter{footnote}{0}%
19512 \global\let\thanks\relax

```



```

19513 \global\let\LTRthanks\relax
19514 \global\let\RTLthanks\relax
19515 \global\let\maketitle\relax
19516 \global\let\@thanks\@empty
19517 \global\let\@author\@empty
19518 \global\let\@date\@empty
19519 \global\let\@title\@empty
19520 \global\let\title\relax
19521 \global\let\author\relax
19522 \global\let\date\relax
19523 \global\let\and\relax
19524 }
19525 \else
19526 \renewcommand\maketitle{\par
19527 \begingroup
19528 \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
19529 \def\@makefnmark%
19530 {\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
19531 \long\def\@makefntext##1{%
19532 \setpar{\@par
19533 \tempdima = \hspace
19534 \advance\@tempdima -1em
19535 \parshape \@ne 1em \@tempdima}%
19536 \par\parindent 1em \noindent
19537 \hb@xt@\z@{\hss\@textsuperscript{\normalfont\@thefnmark}\,}##1}
19538 \iftwocolumn
19539 \ifnum \col@number=\@ne
19540 \@maketitle
19541 \else
19542 \twocolumn[\@maketitle]%
19543 \fi
19544 \else
19545 \newpage
19546 \global\@topnum\z@ % Prevents figures from going at top of page.
19547 \@maketitle
19548 \fi
19549 \thispagestyle{empty}\@thanks
19550 \endgroup
19551 \setcounter{footnote}{0}%
19552 \global\let\thanks\relax
19553 \global\let\LTRthanks\relax
19554 \global\let\RTLthanks\relax
19555 \global\let\maketitle\relax
19556 \global\let\@maketitle\relax
19557 \global\let\@thanks\@empty
19558 \global\let\@author\@empty
19559 \global\let\@date\@empty
19560 \global\let\@title\@empty
19561 \global\let\title\relax
19562 \global\let\author\relax
19563 \global\let\date\relax
19564 \global\let\and\relax
19565 }
19566 \def\@maketitle{%

```



```

19567 \newpage
19568 \null
19569 \longthickrule\vskip1.5em%
19570 \let \footnote \thanks
19571 \let \LTRfootnote \LTRthanks
19572 \let \RTLfootnote \RTLthanks
19573 {\secshape \parskip\z@ \parindent\z@
19574 \Large\bfseries \@title \par}%
19575 \vskip1.5em\longthickrule\vskip1.5em%
19576 {\normalsize
19577 \lineskip .5em%
19578 \begin{flushright}%
19579 {\slshape\@author\par}
19580 \vskip 1em%
19581 {\@date}%
19582 \end{flushright}\par}%
19583 \vskip 1.5em}
19584 \fi
19585 \renewcommand*\l@part[2]{%
19586 \ifnum \c@tocdepth >-2\relax
19587 \addpenalty{-\@highpenalty}%
19588 \addvspace{2.25em \@plus\p@}%
19589 \begingroup
19590 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
19591 \parfillskip -\@pnumwidth
19592 {\leavevmode
19593 \large \bfseries #1\hfil \hbox to\@pnumwidth{\hss #2}}\par
19594 \nobreak
19595 \global\@nobreaktrue
19596 \everypar{\global\@nobreakfalse\everypar{}}%
19597 \endgroup
19598 \fi}
19599 \renewcommand*\l@chapter[2]{%
19600 \ifnum \c@tocdepth >\m@ne
19601 \addpenalty{-\@highpenalty}%
19602 \vskip 1.0em \@plus\p@
19603 \setlength\@tempdima{1.5em}%
19604 \begingroup
19605 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
19606 \parfillskip -\@pnumwidth
19607 \leavevmode \bfseries
19608 \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
19609 \hskip -\if@RTL\rightskip\else\leftskip\fi
19610 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
19611 \penalty\@highpenalty
19612 \endgroup
19613 \fi}
19614 \renewcommand\secshape{\if@RTL\rightskip\else\leftskip\fi=-\leftmarginwidth%
19615 \if@RTL\leftskip\else\rightskip\fi=\@flushglue%
19616 \hyphenpenalty=2000}
19617 \renewcommand\left@footnoterule{%
19618 \kern-3\p@
19619 \hrule\@width.4\columnwidth
19620 \kern 2.6\p@}

```



```

19621 \renewcommand\right@footnoterule{%
19622   \kern-3\p@
19623   \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
19624   \kern2.6\p@}
19625 \renewcommand\theequation
19626 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
19627 \renewcommand\thefigure
19628   {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
19629 \renewcommand\thetable%
19630   {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
19631 \renewcommand\thesection {\thechapter\@SepMark\@arabic\c@section}
19632 \renewcommand\thesubsection {\thesection\@SepMark\@arabic\c@subsection}
19633 \renewcommand\thesubsubsection {\thesubsection \@SepMark\@arabic\c@subsubsection}
19634 \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
19635 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
19636 \renewenvironment{thebibliography}[1]
19637   {\chapter*{\bibname
19638     \@mkboth{\bibname}{\bibname}}%
19639     \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
19640     \bidi@thebibliography@font@hook%
19641     \list{\@biblabel{\@arabic\c@enumiv}}%
19642       {\settowidth\labelwidth{\@biblabel{#1}}%
19643        \leftmargin\labelwidth
19644        \advance\leftmargin\labelsep
19645        \@openbib@code
19646        \usecounter{enumiv}%
19647        \let\p@enumiv\@empty
19648        \renewcommand\theenumiv{\@arabic\c@enumiv}}%
19649        \sloppy
19650        \clubpenalty4000
19651        \@clubpenalty \clubpenalty
19652        \widowpenalty4000%
19653        \sfcode`\.=\@m}
19654   {\def\@noitemerr
19655     {\@latex@warning{Empty `thebibliography' environment}}}%
19656   \endlist}

```

## 139 File report-xetex-bidi.def

```

19657 \ProvidesFile{report-xetex-bidi.def}[2017/06/09 v0.8 bidi adaptations for standard report cl
19658 \renewenvironment{theindex}
19659   {\if@twocolumn
19660     \@restonecolfalse
19661     \else
19662       \@restonecoltrue
19663       \fi
19664     \columnseprule \z@
19665     \columnsep 35\p@
19666     \twocolumn[\@makeschapterhead{\indexname}]%
19667     \@mkboth{\MakeUppercase\indexname}%
19668             {\MakeUppercase\indexname}%
19669     \thispagestyle{plain}\parindent\z@
19670     \parskip\z@ \@plus .3\p@\relax
19671     \let\item\@idxitem}

```



```

19672             {\if@restonecol\onecolumn\else\clearpage\fi}
19673 \if@titlepage
19674 \renewcommand\maketitle{\begin{titlepage}%
19675 \let\footnotesize\small
19676 \let\right@footnoterule\relax
19677 \let\left@footnoterule\relax
19678 \let\textwidth@footnoterule\relax
19679 \let \footnote \thanks
19680 \let \LTRfootnote \LTRthanks
19681 \let \RTLfootnote \RTLthanks
19682 \null\vfil
19683 \vskip 60\p@
19684 \begin{center}%
19685     {\LARGE \@title \par}%
19686     \vskip 3em%
19687     {\large
19688       \lineskip .75em%
19689       \begin{tabular}[t]{c}%
19690         \@author
19691       \end{tabular}\par}%
19692     \vskip 1.5em%
19693     {\large \@date \par}%           % Set date in \large size.
19694 \end{center}\par
19695 \@thanks
19696 \vfil\null
19697 \end{titlepage}%
19698 \setcounter{footnote}{0}%
19699 \global\let\thanks\relax
19700 \global\let\LTRthanks\relax
19701 \global\let\RTLthanks\relax
19702 \global\let\maketitle\relax
19703 \global\let\@thanks\@empty
19704 \global\let\@author\@empty
19705 \global\let\@date\@empty
19706 \global\let\@title\@empty
19707 \global\let\title\relax
19708 \global\let\author\relax
19709 \global\let\date\relax
19710 \global\let\and\relax
19711 }
19712 \else
19713 \renewcommand\maketitle{\par
19714 \begingroup
19715 \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
19716 \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
19717 \long\def\@makefntext#1{\parindent 1em\noindent
19718   \hb@xt@1.8em{%
19719     \hss\@textsuperscript{\normalfont\@thefnmark}}#1}%
19720 \if@twocolumn
19721 \ifnum \col@number=\@ne
19722 \maketitle
19723 \else
19724 \twocolumn[\maketitle]%
19725 \fi

```



```

19726 \else
19727 \newpage
19728 \global\let\topnum\z@ % Prevents figures from going at top of page.
19729 \maketitle
19730 \fi
19731 \thispagestyle{plain}\@thanks
19732 \endgroup
19733 \setcounter{footnote}{0}%
19734 \global\let\thanks\relax
19735 \global\let\LTRthanks\relax
19736 \global\let\RTLthanks\relax
19737 \global\let\maketitle\relax
19738 \global\let\@maketitle\relax
19739 \global\let\@thanks\@empty
19740 \global\let\@author\@empty
19741 \global\let\@date\@empty
19742 \global\let\@title\@empty
19743 \global\let\title\relax
19744 \global\let\author\relax
19745 \global\let\date\relax
19746 \global\let\and\relax
19747 }
19748 \def\@maketitle{%
19749 \newpage
19750 \null
19751 \vskip 2em%
19752 \begin{center}%
19753 \let \footnote \thanks
19754 \let \LTRfootnote \LTRthanks
19755 \let \RTLfootnote \RTLthanks
19756 {\LARGE \@title \par}%
19757 \vskip 1.5em%
19758 {\large
19759 \lineskip .5em%
19760 \begin{tabular}[t]{c}%
19761 \@author
19762 \end{tabular}\par}%
19763 \vskip 1em%
19764 {\large \@date}%
19765 \end{center}%
19766 \par
19767 \vskip 1.5em}
19768 \fi
19769 \renewcommand*\l@part[2]{%
19770 \ifnum \c@tocdepth >-2\relax
19771 \addpenalty{-\@highpenalty}%
19772 \addvspace{2.25em \@plus\p}%
19773 \setlength\@tempdima{3em}%
19774 \begin{group
19775 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
19776 \parfillskip -\@pnumwidth
19777 {\leavevmode
19778 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
19779 \nobreak

```



```

19780         \global\@nbreaktrue
19781         \everypar{\global\@nbreakfalse\everypar{}}%
19782     \endgroup
19783 \fi}
19784 \renewcommand*\l@chapter[2]{%
19785     \ifnum \c@tocdepth >\m@ne
19786         \addpenalty{-\@highpenalty}%
19787         \vskip 1.0em \@plus\p@
19788         \setlength\@tempdima{1.5em}%
19789         \begingroup
19790             \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
19791             \parfillskip -\@pnumwidth
19792             \leavevmode \bfseries
19793             \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
19794             \hskip -\if@RTL\rightskip\else\leftskip\fi
19795             #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
19796             \penalty\@highpenalty
19797         \endgroup
19798     \fi}
19799 \renewcommand\left@footnoterule{%
19800     \kern-3\p@
19801     \hrule\@width.4\columnwidth
19802     \kern2.6\p@}
19803 \renewcommand\right@footnoterule{%
19804     \kern-3\p@
19805     \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
19806     \kern2.6\p@}
19807 \renewcommand\theequation
19808     {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
19809 \renewcommand \thefigure
19810     {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
19811 \renewcommand \thetable
19812     {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
19813 \renewcommand \thechapter {\@arabic\c@chapter}
19814 \renewcommand \thesection {\thechapter\@SepMark\@arabic\c@section}
19815 \renewcommand \thesubsection {\thesection\@SepMark\@arabic\c@subsection}
19816 \renewcommand \thesubsubsection {\thesubsection \@SepMark\@arabic\c@subsubsection}
19817 \renewcommand \theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
19818 \renewcommand \thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
19819 \def\@makechapterhead#1{%
19820     \vspace*{50\p@}%
19821     {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont
19822         \ifnum \c@secnumdepth >\m@ne
19823             \huge\bfseries \@chapapp\space \thechapter
19824             \par\nobreak
19825             \vskip 20\p@
19826         \fi
19827         \interlinepenalty\@M
19828         \Huge \bfseries #1\par\nobreak
19829         \vskip 40\p@
19830     }}
19831 \def\@makeschapterhead#1{%
19832     \vspace*{50\p@}%
19833     {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi

```



```

19834 \normalfont
19835 \interlinepenalty\@M
19836 \Huge \bfseries #1\par\nobreak
19837 \vskip 40\p@
19838 }}
19839 \renewenvironment{thebibliography}[1]
19840 {
19841   \chapter*{\bibname}%
19842   \mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
19843   \ifRTL\ifLTRbibitems\@RTLfalse\else\fi\else\ifRTLbibitems\@RTLtrue\else\fi\fi
19844   \bidi@thebibliography@font@hook%
19845   \list{\@biblabel{\@arabic\c@enumiv}}%
19846     {\settowidth\labelwidth{\@biblabel{#1}}%
19847      \leftmargin\labelwidth
19848      \advance\leftmargin\labelsep
19849      \@openbib@code
19850      \usecounter{enumiv}%
19851      \let\p@enumiv\@empty
19852      \renewcommand\theenumiv{\@arabic\c@enumiv}}%
19853   \sloppy
19854   \clubpenalty4000
19855   \@clubpenalty \clubpenalty
19856   \widowpenalty4000%
19857   \sfcode\.\@m}
19858 {\def\@noitemerr
19859 {\@latex@warning{Empty `thebibliography' environment}}}%
19860 \endlist}

```

## 140 File rotating-xetex-bidi.def

```

19860 \ProvidesFile{rotating-xetex-bidi.def}[2013/05/22 v0.2 bidi adaptations for rotating package]
19861 \def\end@rotfloat{%
19862   \end{minipage}\end{lrbox}%
19863   \stepcounter{r@tfl@t}%
19864   \rot@label{RF\ther@tfl@t}%
19865   \rot@pageref{RF\ther@tfl@t}{\R@page}%
19866   \edef\@tempa{Adding sideways \capttype\space on page \R@page\space}
19867   \rot@mess@toks\expandafter{\@tempa}
19868   \wd\rot@float@box\z@
19869   \ht\rot@float@box\z@
19870   \dp\rot@float@box\z@
19871   \vboxL to \textheight{%
19872     \setkeys{Grot}{units=360}%
19873     \if@rot@twoside
19874     \else
19875       \let\R@page\rot@LR
19876     \fi
19877     \ifthenelse{\isodd{\R@page}}{%
19878       \if@rot@twoside
19879         \rot@mess@toks\expandafter{\the\rot@mess@toks (right hand page)}%
19880       \fi
19881       \vfill
19882       @@line{%
19883         \hskip\rotFPtop
19884         \rotatebox{90}{\box\rot@float@box}%

```



```

19885         \hskip\rotFPbot
19886     }%
19887 }{%
19888     \if@rot@twoside
19889         \rot@mess@toks\expandafter{\the\rot@mess@toks (left hand page)}%
19890     \fi
19891     \@@line{%
19892         \hskip\rotFPbot
19893         \rotatebox{-90}{\box\rot@float@box}%
19894         \hskip\rotFPtop
19895     }%
19896     \vfill
19897 }%
19898     \rot@message{\the\rot@mess@toks}
19899 }%
19900 \end@float
19901 }
19902 \let\endsidewaysfigure\end@rotfloat
19903 \let\endsidewaystable\end@rotfloat
19904 \def\end@rot@dblfloat{%
19905     \end{minipage}\end{lrbox}%
19906     \stepcounter{r@tfl@t}%
19907     \rot@label{RF\ther@tfl@t}%
19908     \rot@pageref{RF\ther@tfl@t}{\R@@page}%
19909     \edef\@tempa{Adding sideways \c@type\space on page \R@@page\space}
19910     \rot@mess@toks\expandafter{\@tempa}
19911     \@tempdima\ht\rot@float@box
19912     \advance\@tempdima by \dp\rot@float@box
19913     \wd\rot@float@box\z@
19914     \ht\rot@float@box\z@
19915     \dp\rot@float@box\z@
19916     \vboxL to \textheight{%
19917         \setkeys{Grot}{units=360}%
19918         \if@rot@twoside
19919             \else
19920                 \let\R@@page\rot@LR
19921             \fi
19922         \ifthenelse{\isodd{\R@@page}}{%
19923             \ifrot@messages
19924                 \if@rot@twoside
19925                 \rot@mess@toks\expandafter{\the\rot@mess@toks (right hand page)}%
19926             \fi
19927             \fi
19928             \vfill
19929             \@@line{%
19930                 \hskip\rotFPtop
19931                 \rotatebox{90}{\box\rot@float@box}%
19932                 \hskip\rotFPbot
19933             }%
19934         }{%
19935             \ifrot@messages
19936                 \if@rot@twoside
19937                 \rot@mess@toks\expandafter{\the\rot@mess@toks (left hand page)}%
19938             \fi

```



```

19939 \fi%
19940 \@@line{%
19941 \hskip\rotFPbot
19942 \rotatebox{-90}{\box\rot@float@box}%
19943 \hskip\rotFPtop
19944 }%
19945 \vfill
19946 }%
19947 \rot@message{\the\rot@mess@toks}%
19948 }%
19949 \end@dblfloat
19950 }
19951 \def\turn#1{%
19952 \Grot@setangle{#1}%
19953 \setbox\z@\color@hbox\ifmmode\if@RTL\beginR\fi\else\if@RTL\beginR\fi\fi\ignorespaces}
19954 \def\endturn{%
19955 \ifmmode\if@RTL\endR\fi\else\if@RTL\endR\fi\fi
19956 \unskip\color@endbox
19957 \Grot@x\z@
19958 \Grot@y\z@
19959 \ifmmode\else\if@RTL\beginL\fi\fi\Grot@box\ifmmode\else\if@RTL\endL\fi\fi
19960 }
19961 \def\rotate#1{%
19962 \Grot@setangle{#1}%
19963 \setbox\z@\color@hbox\ifmmode\if@RTL\beginR\fi\else\if@RTL\beginR\fi\fi\ignorespaces}
19964 \def\endrotate{%
19965 \ifmmode\if@RTL\endR\fi\else\if@RTL\endR\fi\fi
19966 \unskip\color@endbox
19967 \Grot@x\z@
19968 \Grot@y\z@
19969 \wd0\z@\dp0\z@\ht0\z@
19970 \ifmmode\else\if@RTL\beginL\fi\fi\Grot@box\ifmmode\else\if@RTL\endL\fi\fi
19971 }
19972 \def\turnbox#1#2{%
19973 \Grot@setangle{#1}%
19974 \setbox\z@\hbox{\ifmmode\if@RTL\beginR\fi\else\if@RTL\beginR\fi\fi#2\ifmmode\if@RTL\endR\fi\fi}
19975 \Grot@x\z@\Grot@y\z@
19976 \wd0\z@\dp0\z@\ht0\z@
19977 \ifmmode\else\if@RTL\beginL\fi\fi\Grot@box\ifmmode\else\if@RTL\endL\fi\fi
19978 }
19979 \def\sideways{%
19980 \Grot@setangle{90}%
19981 \setbox\z@\color@hbox\ifmmode\if@RTL\beginR\fi\else\if@RTL\beginR\fi\fi\ignorespaces}
19982 \def\endsideways{%
19983 \ifmmode\if@RTL\endR\fi\else\if@RTL\endR\fi\fi
19984 \unskip\color@endbox
19985 \Grot@x\z@
19986 \Grot@y\z@
19987 \ifmmode\else\if@RTL\beginL\fi\fi\Grot@box\ifmmode\else\if@RTL\endL\fi\fi
19988 }

```

## 141 File `scrartcl-xetex-bidi.def`

```

19989 \ProvidesFile{scrartcl-xetex-bidi.def}[2022/05/27 v1.3 bidi adaptations for scrartcl class f

```



```

19990 \newcommand{\scr@saved@LTRfootnotetext}{}
19991 \newcommand{\scr@saved@RTLfootnotetext}{}
19992 \let\scr@saved@footnotetext\@footnotetext
19993 \let\scr@saved@LTRfootnotetext\@LTRfootnotetext
19994 \let\scr@saved@RTLfootnotetext\@RTLfootnotetext
19995 \renewcommand{\@footnotetext}[1]{%
19996   \scr@saved@footnotetext{#1}%
19997   \csname FN@mfb@prepare\endcsname
19998 }
19999 \renewcommand{\@LTRfootnotetext}[1]{%
20000   \scr@saved@LTRfootnotetext{#1}%
20001   \csname FN@mfb@prepare\endcsname
20002 }
20003 \renewcommand{\@RTLfootnotetext}[1]{%
20004   \scr@saved@RTLfootnotetext{#1}%
20005   \csname FN@mfb@prepare\endcsname
20006 }
20007 \renewcommand\deffootnote[4][1]{%
20008   \expandafter\ifnum\scr@v@is@ge{3.22}\relax
20009     \long\def\@makefntext##1{%
20010       \ExecuteDoHook{footnote/text/begin}%
20011       \raggedfootnote
20012       \if@RTL
20013         \rightskip
20014       \else
20015         \leftskip
20016       \fi
20017       #2
20018       \l@addto@macro\@trivlist{%
20019         \ifnum\@listdepth=\@one
20020           \if@RTL
20021             \advance\rightmargin #2\relax
20022           \else
20023             \advance\leftmargin #2\relax
20024           \fi
20025         \fi
20026       }%
20027       \parindent #3\noindent
20028       \IfArgIsEmpty{#1}{-}{%
20029         \hskip \dimexpr #1-#2\relax
20030       }%
20031       \ftn@font\hbox to \z@{\hss\@makefnmark}##1%
20032       \ExecuteDoHook{footnote/text/end}%
20033     }%
20034   \else
20035     \ClassInfo{\KOMAClassName}{%
20036       Using old \string\@makefntext\space due to compatibility
20037       level\MessageBreak
20038       less than 3.22}%
20039     \long\def\@makefntext##1{%
20040       \setlength{\@tempdimc}{#3}%
20041       \def\@tempa{#1}\ifx\@tempa\@empty
20042         \@setpar{\@par
20043           \@tempdima = \hspace

```



```

20044         \addtolength{\@tempdima}{-#2}%
20045         \if@RTL
20046             \parshape \@ne \z@ \@tempdima
20047         \else
20048             \parshape \@ne #2 \@tempdima
20049         \fi}%
20050     \else
20051         \addtolength{\@tempdimc}{#2}%
20052         \addtolength{\@tempdimc}{-#1}%
20053         \@setpar{\@par
20054             \@tempdima = \hsize
20055             \addtolength{\@tempdima}{-#1}%
20056             \@tempdimb = \hsize
20057             \addtolength{\@tempdimb}{-#2}%
20058             \if@RTL
20059                 \parshape \tw@ \z@ \@tempdima \z@ \@tempdimb
20060             \else
20061                 \parshape \tw@ #1 \@tempdima #2 \@tempdimb
20062             \fi
20063         }%
20064     \fi
20065     \par
20066     \parindent\@tempdimc\noindent
20067     \ftn@font\hbox to \z@{\hss\@makefnmark}##1%
20068 }%
20069 \fi
20070 \def\@makefnmark{\hbox{\ftnm@font{#4}}}%
20071 }
20072 \deffootnote[1em]{1.5em}{1em}{\textsuperscript{\thefootnotemark}}
20073 \renewcommand*\left@footnoterule{%
20074     \normalsize\ftn@rule@test@values
20075     \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
20076     \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
20077     {\usekomafont{footnoterule}{%
20078         \hrule \@height\ftn@rule@height \@width\ftn@rule@width}}%
20079     \kern 2.6\p@}
20080 \renewcommand*\right@footnoterule{%
20081     \normalsize\ftn@rule@test@values
20082     \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
20083     \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
20084     {\usekomafont{footnoterule}{%
20085         \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\ftn@rule@width\relax \leavevmode\
20086         \kern 2.6\p@}
20087     \renewcommand*\maketitle[1][1]{%
20088         \expandafter\ifnum \csname scr@v@3.12\endcsname>\scr@compatibility\relax
20089         \else
20090             \def\and{%
20091                 \end{tabular}%
20092                 \hskip 1em \@plus.17fil%
20093                 \begin{tabular}[t]{c}%
20094             }%
20095         \fi
20096         \if@titlepage
20097             \begin{titlepage}

```



```

20098 \setcounter{page}{%
20099 #1%
20100 }%
20101 \if@titlepageiscoverpage
20102 \edef\titlename@restore{%
20103 \noexpand\endgroup
20104 \noexpand\global\noexpand\@colht\the\@colht
20105 \noexpand\global\noexpand\@colroom\the\@colroom
20106 \noexpand\global\size\the\size
20107 \noexpand\global\noexpand\@titlepageiscoverpagefalse
20108 \noexpand\let\noexpand\titlename@restore\noexpand\relax
20109 }%
20110 \begingroup
20111 \topmargin=\dimexpr \coverpagetopmargin-1in\relax
20112 \oddsidemargin=\dimexpr \coverpageleftmargin-1in\relax
20113 \evensidemargin=\dimexpr \coverpageleftmargin-1in\relax
20114 \textwidth=\dimexpr
20115 \paperwidth-\coverpageleftmargin-\coverpagerightmargin\relax
20116 \textheight=\dimexpr
20117 \paperheight-\coverpagetopmargin-\coverpagebottommargin\relax
20118 \headheight=0pt
20119 \headsep=0pt
20120 \footskip=\baselineskip
20121 \@colht=\textheight
20122 \@colroom=\textheight
20123 \size=\textheight
20124 \columnwidth=\textwidth
20125 \hsize=\columnwidth
20126 \linewidth=\hsize
20127 \else
20128 \let\titlename@restore\relax
20129 \fi
20130 \let\footnotesize\small
20131 \let\right@footnoterule\relax
20132 \let\left@footnoterule\relax
20133 \let\textwidth@footnoterule\relax
20134 \let\footnote\thanks
20135 \let\LTRfootnote\LTRthanks
20136 \let\RTLfootnote\RTLthanks
20137 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
20138 \let\@oldmakefnmark\@makefnmark
20139 \renewcommand*{\@makefnmark}{\rlap{\@oldmakefnmark}}%
20140 \ifx\@extratitle\@empty
20141 \ifx\@frontispiece\@empty
20142 \else
20143 \if@twoside\mbox{}\next@tpage\fi
20144 \noindent\@frontispiece\next@tdpage
20145 \fi
20146 \else
20147 \noindent\@extratitle
20148 \ifx\@frontispiece\@empty
20149 \else
20150 \next@tpage
20151 \noindent\@frontispiece

```



```

20152      \fi
20153      \next@tdpage
20154    \fi
20155    \setparsizes{\z@}{\z@}{\z@\@plus 1fil}\par@updateerelative
20156    \ifx\@titlehead\@empty \else
20157      \begin{minipage}[t]{\textwidth}%
20158        \usekomafont{titlehead}{\@titlehead\par}%
20159      \end{minipage}\par
20160    \fi
20161    \null\vfill
20162    \begin{center}
20163      \ifx\@subject\@empty \else
20164        {\usekomafont{subject}{\@subject\par}}%
20165        \vskip 3em
20166      \fi
20167      {\usekomafont{title}{\huge \@title\par}}%
20168      \vskip 1em
20169      {\ifx\@subtitle\@empty\else\usekomafont{subtitle}{\@subtitle\par}\fi}%
20170      \vskip 2em
20171      {%
20172        \usekomafont{author}{%
20173          \lineskip 0.75em
20174          \begin{tabular}[t]{c}
20175            \@author
20176          \end{tabular}\par
20177        }%
20178      }%
20179      \vskip 1.5em
20180      {\usekomafont{date}{\@date \par}}%
20181      \vskip \z@ \@plus3fill
20182      {\usekomafont{publishers}{\@publishers \par}}%
20183      \vskip 3em
20184    \end{center}\par
20185    \@thanks\global\let\@thanks\@empty
20186    \vfill\null
20187    \if@twoside
20188      \@tempswatrue
20189      \expandafter\ifnum \@nameuse{scr@v03.12}>\scr@compatibility\relax
20190    \else
20191      \ifx\@uppertitleback\@empty\ifx\@lowertitleback\@empty
20192        \@tempswafalse
20193      \fi\fi
20194    \fi
20195    \if@tempswa
20196      \next@tpage
20197      \begin{minipage}[t]{\textwidth}
20198        \@uppertitleback
20199      \end{minipage}\par
20200      \vfill
20201      \begin{minipage}[b]{\textwidth}
20202        \@lowertitleback
20203      \end{minipage}\par
20204      \@thanks\global\let\@thanks\@empty
20205    \fi

```



```

20206 \else
20207 \ifx\@uppertitleback\@empty\else
20208 \ClassWarning{\KOMAClassName}{%
20209 non empty \string\uppertitleback\space ignored
20210 by \string\maketitle\MessageBreak
20211 in `twoside=false' mode%
20212 }%
20213 \fi
20214 \ifx\@lowertitleback\@empty\else
20215 \ClassWarning{\KOMAClassName}{%
20216 non empty \string\lowertitleback\space ignored
20217 by \string\maketitle\MessageBreak
20218 in `twoside=false' mode%
20219 }%
20220 \fi
20221 \fi
20222 \ifx\@dedication\@empty
20223 \else
20224 \next@tdpage\null\vfill
20225 {\centering\usekomafont{dedication}{\@dedication \par}}%
20226 \vskip \z@ \@plus3fill
20227 \@thanks\global\let\@thanks\@empty
20228 \cleardoubleemptypage
20229 \fi
20230 \ifx\titlepage@restore\relax\else\clearpage\titlepage@restore\fi
20231 \end{titlepage}
20232 \else
20233 \par
20234 \@tempcnta=%
20235 #1%
20236 \relax\ifnum\@tempcnta=1\else
20237 \ClassWarning{\KOMAClassName}{%
20238 Optional argument of \string\maketitle\space ignored\MessageBreak
20239 in `titlepage=false' mode%
20240 }%
20241 \fi
20242 \ifx\@uppertitleback\@empty\else
20243 \ClassWarning{\KOMAClassName}{%
20244 non empty \string\uppertitleback\space ignored
20245 by \string\maketitle\MessageBreak
20246 in `titlepage=false' mode%
20247 }%
20248 \fi
20249 \ifx\@lowertitleback\@empty\else
20250 \ClassWarning{\KOMAClassName}{%
20251 non empty \string\lowertitleback\space ignored
20252 by \string\maketitle\MessageBreak
20253 in `titlepage=false' mode%
20254 }%
20255 \fi
20256 \begingroup
20257 \let\titlepage@restore\relax
20258 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
20259 \let\@oldmakefnmark\@makefnmark

```



```

20260 \renewcommand*{\@makefnmark}{\rlap{\@oldmakefnmark}}%
20261 \next@tdpage
20262 \if@twocolumn
20263   \ifnum \col@number=\@ne
20264     \ifx\@extratitle\@empty
20265       \ifx\@frontispiece\@empty\else\if@twoside\mbox{}\fi\fi
20266     \else
20267       \@makeextratitle
20268     \fi
20269     \ifx\@frontispiece\@empty
20270       \ifx\@extratitle\@empty\else\next@tdpage\fi
20271     \else
20272       \next@tpage
20273       \@makefrontispiece
20274       \next@tdpage
20275     \fi
20276     \@maketitle
20277   \else
20278     \ifx\@extratitle\@empty
20279       \ifx\@frontispiece\@empty\else\if@twoside\mbox{}\fi\fi
20280     \else
20281       \twocolumn[\@makeextratitle]%
20282     \fi
20283     \ifx\@frontispiece\@empty
20284       \ifx\@extratitle\@empty\else\next@tdpage\fi
20285     \else
20286       \next@tpage
20287       \twocolumn[\@makefrontispiece]%
20288       \next@tdpage
20289     \fi
20290     \twocolumn[\@maketitle]%
20291   \fi
20292 \else
20293   \ifx\@extratitle\@empty
20294     \ifx\@frontispiece\@empty\else \mbox{}\fi
20295   \else
20296     \@makeextratitle
20297   \fi
20298   \ifx\@frontispiece\@empty
20299     \ifx\@extratitle\@empty\else\next@tdpage\fi
20300   \else
20301     \next@tpage
20302     \@makefrontispiece
20303     \next@tdpage
20304   \fi
20305   \@maketitle
20306 \fi
20307 \ifx\titlepagestyle\@empty\else\thispagestyle{\titlepagestyle}\fi
20308 \@thanks\global\let\@thanks\@empty
20309 \endgroup
20310 \fi
20311 \setcounter{footnote}{0}%
20312 \expandafter\ifnum \c@name scr@v3.12\endcsname>\scr@compatibility\relax
20313   \let\thanks\relax

```



```

20314 \let\LTRthanks\relax
20315 \let\RTLthanks\relax
20316 \let\maketitle\relax
20317 \let\@maketitle\relax
20318 \global\let\@thanks\@empty
20319 \global\let\@author\@empty
20320 \global\let\@date\@empty
20321 \global\let\@title\@empty
20322 \global\let\@subtitle\@empty
20323 \global\let\@extratitle\@empty
20324 \global\let\@frontispiece\@empty
20325 \global\let\@titlehead\@empty
20326 \global\let\@subject\@empty
20327 \global\let\@publishers\@empty
20328 \global\let\@uppertitleback\@empty
20329 \global\let\@lowertitleback\@empty
20330 \global\let\@dedication\@empty
20331 \global\let\author\relax
20332 \global\let\title\relax
20333 \global\let\extratitle\relax
20334 \global\let\titlehead\relax
20335 \global\let\subject\relax
20336 \global\let\publishers\relax
20337 \global\let\uppertitleback\relax
20338 \global\let\lowertitleback\relax
20339 \global\let\dedication\relax
20340 \global\let\date\relax
20341 \fi
20342 \global\let\and\relax
20343 }%
20344 \def\raggedsection{\if@RTL\raggedleft\else\raggedright\fi}
20345 \def\raggedpart{\if@RTL\raggedleft\else\raggedright\fi}
20346 \renewcommand*\autodot{\if@altsecnumformat\@SepMark\fi}
20347 \renewcommand*{\thesubsection}{\thesection\@SepMark\@arabic\c@section}
20348 \renewcommand*{\thesubsubsection}{%
20349 \thesubsection\@SepMark\@arabic\c@subsubsection
20350 }
20351 \renewcommand*{\theparagraph}{\thesubsubsection\@SepMark\@arabic\c@paragraph}
20352 \renewcommand*{\thesubparagraph}{%
20353 \theparagraph\@SepMark\@arabic\c@subparagraph
20354 }
20355 \renewenvironment{thebibliography}[1]{%
20356 \if@bib@break@
20357 \bib@beginhook
20358 \else
20359 \bib@heading
20360 \ifx\bibpreamble\relax\else\ifx\bibpreamble\@empty\else
20361 \noindent\bibpreamble\par\nobreak
20362 \fi\fi
20363 \bib@beginhook
20364 \bib@before@hook
20365 \fi
20366 \renewcommand{\BreakBibliography}[1]{%
20367 \@bib@break

```



```

20368 \end{thebibliography}%
20369 \begingroup ##1\endgroup
20370 \begin{thebibliography}{#1}
20371 }%
20372 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
20373 \bidi@thebibliography@font@hook%
20374 \list{%
20375 \biblabel{\@arabic\c@enumiv}%
20376 }{%
20377 \settowidth\labelwidth{\biblabel{#1}}%
20378 \leftmargin\labelwidth
20379 \advance\leftmargin\labelsep
20380 \@openbib@code
20381 \if@bib@break@
20382 \edef\@tempa{%
20383 \noexpand\usecounter{enumiv}%
20384 \noexpand\setcounter{enumiv}{\the\c@enumiv}%
20385 }\@tempa
20386 \no@bib@break
20387 \else
20388 \usecounter{enumiv}%
20389 \fi
20390 \let\p@enumiv\@empty
20391 \renewcommand*\theenumiv{\@arabic\c@enumiv}%
20392 }%
20393 \sloppy\clubpenalty4000 \widowpenalty4000
20394 \sfcode`\.\=\@m
20395 }{%
20396 \if@bib@break@
20397 \def\@noitemerr{%
20398 \@latex@warning{%
20399 \string\BreakBibliography\space at begin of `thebibliography'
20400 environment\MessageBreak
20401 or following \string\BreakBibliography}%
20402 }%
20403 \else
20404 \def\@noitemerr{%
20405 \@latex@warning{%
20406 Empty `thebibliography' environment or
20407 \string\BreakBibliography\MessageBreak
20408 before end of `thebibliography' environment}%
20409 }%
20410 \fi
20411 \endlist
20412 \if@bib@break@
20413 \else
20414 \bib@after@hook
20415 \let\bib@before@hook\@empty
20416 \let\bib@after@hook\@empty
20417 \fi
20418 \bib@endhook
20419 }
20420 \renewcommand*\raggeddictum{\if@RTL\raggedright\else\raggedleft\fi}
20421 \renewcommand*\raggeddictumtext{\if@RTL\raggedleft\else\raggedright\fi}

```



```

20422 \renewcommand*{\raggeddictumauthor}{\if@RTL\raggedright\else\raggedleft\fi}
20423 \renewcommand\marginline[1]{%
20424   \marginpar[\if@RTL\raggedright\else\raggedleft\fi{#1}]{\if@RTL\raggedleft\else\raggedright\fi}
20425 }
20426 \renewcommand{\@makecaption}[3]{%
20427   \cap@margin
20428   \begingroup
20429     \ifonelinecaptions
20430       \def\stepcounter##1{\advance\value{##1}\@ne}%
20431       \let\refstepcounter\stepcounter
20432       \let\label\@gobble
20433       \let\@footnotetext=\@gobble
20434       \let\@LTRfootnotetext=\@gobble
20435       \let\@RTLfootnotetext=\@gobble
20436       \let\hypertarget\@gobbletwo
20437       \edef\xnewline{%
20438         \unexpanded{\ClassInfo{\KOMAClassName}{%
20439           Workaround for not recommended usage of \string\\ or\MessageBreak
20440           \string\newline in caption text
20441         }}%
20442         \hspace*{\linewidth}\hspace{1sp}%
20443       }%
20444       \unexpanded\expandafter{\xnewline}%
20445     }%
20446     \edef\xcentercr{%
20447       \unexpanded{\ClassInfo{\KOMAClassName}{%
20448         Workaround for not recommended usage of \string\\ or\MessageBreak
20449         \string\newline in caption text
20450       }}%
20451       \hspace*{\linewidth}\hspace{1sp}%
20452     }%
20453     \unexpanded\expandafter{\xcentercr}%
20454   }%
20455   \settowidth{\@tempdima}{\scr@makesinglelinecaption{#1}{#2}{#3}}%
20456   \ifdim\@tempdima>\cap@width
20457     \aftergroup\scr@makemultilinecaption
20458   \else
20459     \aftergroup\scr@makesinglelinecaption
20460   \fi
20461   \else
20462     \aftergroup\scr@makemultilinecaption
20463   \fi
20464 \endgroup
20465 {#1}{#2}{#3}%
20466 }
20467 \renewcommand{\scr@makesinglelinecaption}[3]{%
20468   {%
20469     \usefontofkomafont{caption}{%
20470       \hb@xt@{\hsize}{%
20471         \cap@left
20472         \if@RTL
20473           \beginR
20474         \fi
20475         \scr@makesinglelinecaption{#1}{#2}{#3}%

```



```

20476         \if@RTL
20477         \endR
20478         \fi
20479         \cap@right
20480     }\par\kern\dp\strutbox%
20481 }%
20482 }\kern-\dp\strutbox
20483 }
20484 \renewcommand{\@makecaption}[2]{%
20485     \if@captionabove
20486         \vskip\belowcaptionskip
20487     \else
20488         \vskip\abovecaptionskip
20489     \fi
20490     \@makecaption\@firstofone{#1}{#2}%
20491     \if@captionabove
20492         \vskip\abovecaptionskip
20493     \else
20494         \vskip\belowcaptionskip
20495     \fi
20496 }
20497
20498 \renewcommand{\scr@makesinglelinecaption}[3]{%
20499     {\usekomafont{caption}{\strut\ignorespaces
20500         #1{\usekomafont{captionlabel}{#2\captionformat}}}%
20501         \ignorespaces #3\unskip}}%
20502 }
20503
20504 \renewcommand{\scr@makemultilinecaption}[3]{%
20505     {%
20506         \usefontofkomafont{caption}{%
20507             \hb@xt@\hsize{%
20508                 \cap@left
20509                 \vbox{\hsize\cap@width\linewidth\hsize
20510                     \scr@ifundefinedorrelax{@captive}{%
20511                         \ClassWarning{\KOMAClassName}{%
20512                             '\string\caption' outside float.\MessageBreak
20513                             Seems you are using '\string\caption' outside a
20514                             float.\MessageBreak
20515                             Maybe you are using a package that uses
20516                             '\string\@makecaption'\MessageBreak
20517                             without setting '\string@captive' before.\MessageBreak
20518                             Because I cannot detect the caption type, I'm using\MessageBreak
20519                             the empty one.%
20520                         }}
20521                     \let@captive\@empty
20522                 }{}%
20523                 \scr@ifundefinedorrelax{ragged@captive}{\raggedcaption}{%
20524                     \@nameuse{ragged@captive caption}%
20525                 }%
20526                 \ifdofullc@p
20527                     \@hangfrom{%
20528                         \strut
20529                         \scr@smashdp{%

```



```

20530         #1{%
20531             \usekomafont{caption}{%
20532                 \usekomafont{captionlabel}{#2\captionformat}%
20533             }%
20534         }%
20535     }%
20536 }%
20537 {{\usekomafont{caption}{#3\scr@endstrut}}\par}%
20538 \else
20539     \ifdim\cap@indent<\z@
20540         \strut
20541         #1{%
20542             \usekomafont{caption}{%
20543                 \usekomafont{captionlabel}{#2\captionformat}%
20544             }%
20545         }\par}%
20546     \noindent{{\usekomafont{caption}{%
20547         \hspace*{-\cap@indent}#3\scr@endstrut
20548     }}\par}%
20549 \else
20550     \if@capbreak
20551         \strut
20552         #1{%
20553             {\usekomafont{caption}{%
20554                 \usekomafont{captionlabel}{#2\captionformat}%
20555             }%
20556         }\par}%
20557     \noindent\@hangfrom{\hspace*{\cap@indent}}%
20558     {{\usekomafont{caption}{#3\scr@endstrut}}\par}%
20559 \else
20560     \@hangfrom{\scr@smashdp\strut\hspace*{\cap@indent}}%
20561     {%
20562         \hspace*{-\cap@indent}%
20563         \scr@smashdp{%
20564             #1{\usekomafont{caption}{%
20565                 \usekomafont{captionlabel}{#2\captionformat}%
20566             }%
20567         }%
20568     }%
20569     {{\usekomafont{caption}{#3\scr@endstrut}}\par}%
20570 }%
20571 \fi
20572 \fi
20573 \fi
20574 }%
20575 \cap@right
20576 }\par\kern\dp\strutbox
20577 }%
20578 }\kern-\dp\strutbox
20579 }
20580
20581 \bidi@AfterFile{longtable-xetex-bidi.def}{%
20582     \if@komalongtable
20583         \renewcommand{LT@makecaption}[3]{%

```



```

20584 \noalign{%
20585 \if@captionabove
20586 \vskip\belowcaptionskip
20587 \else
20588 \vskip\abovecaptionskip
20589 \fi
20590 }%
20591 \LT@mcol\LT@cols c{%
20592 \hbox to\z@{\hss\parbox[t]{\linewidth{%
20593 \def\@captype{table}%
20594 \@makecaption{#1}{#2}{#3}%
20595 \endgraf
20596 \if@captionabove
20597 \vskip\abovecaptionskip
20598 \else
20599 \vskip\belowcaptionskip
20600 \fi
20601 }%
20602 \hss
20603 }%
20604 }%
20605 }%
20606 \renewcommand*{\scr@LT@array}{}%
20607 \let\scr@LT@array=\LT@array
20608 \renewcommand*{\LT@array}{%
20609 \let\scr@caption=\LT@caption
20610 \def\captionabove{\noalign{\global\@captionabovetrue}%
20611 \scr@caption}%
20612 \def\captionbelow{\noalign{\global\@captionabovefalse}%
20613 \scr@caption}%
20614 \if@tablecaptionabove
20615 \let\LT@caption=\captionabove
20616 \else
20617 \let\LT@caption=\captionbelow
20618 \fi
20619 \scr@LT@array
20620 }%
20621 \ClassInfo{\KOMAClassName}{%
20622 longtable captions redefined%
20623 }%
20624 \fi
20625 }
20626
20627 \CloneTOCEntryStyle{tocline}{part}
20628 \TOCEntryStyleStartInitCode{part}{%
20629 \expandafter\renewcommand%
20630 \csname scr@tso@#1@linefill\endcsname{\hfill}%
20631 \expandafter\renewcommand%
20632 \csname scr@tso@#1@entryformat\endcsname[1]{\usekomafont{partentry}{##1}}%
20633 \expandafter\renewcommand%
20634 \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
20635 {\usekomafont{partentry}{\usekomafont{partentrypagenumber}{##1}}}%
20636 \expandafter\renewcommand\expandafter*%
20637 \csname scr@tso@#1@beforeskip\endcsname{2.25em \@plus\p@}%

```



```

20638 }
20639
20640 \CloneTOCEntryStyle{tocline}{section}
20641 \TOCEntryStyleStartInitCode{section}{%
20642   \expandafter\renewcommand%
20643   \csname scr@tso@#1@linefill\endcsname{%
20644     \if@sectionentrywithdots
20645       {\usekomafont{sectionentrydots}{\TOCLineLeaderFill}}\relax
20646     \else
20647       \hfill
20648     \fi
20649   }%
20650   \expandafter\renewcommand%
20651   \csname scr@tso@#1@entryformat\endcsname{\usekomafont{sectionentry}}}%
20652   \expandafter\renewcommand%
20653   \csname scr@tso@#1@pagenumberformat\endcsname[1]{\usekomafont{sectionentry}{\usekomafont{
20654     \expandafter\renewcommand\expandafter*%
20655     \csname scr@tso@#1@beforeskip\endcsname{1.0em \@plus\p@}%
20656   }
20657
20658 \CloneTOCEntryStyle{tocline}{subsection}
20659 \TOCEntryStyleStartInitCode{subsection}{%
20660   \expandafter\renewcommand%
20661   \csname scr@tso@#1@linefill\endcsname{\TOCLineLeaderFill\relax}%
20662   \expandafter\renewcommand%
20663   \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
20664     {\normalfont\normalcolor ##1}}}%
20665 }
20666
20667 \CloneTOCEntryStyle{subsection}{default}
20668
20669 \DeclareSectionCommand[%
20670   style=section,%
20671   level=1,%
20672   indent=\z@,%
20673   beforekip=-3.5ex \@plus -1ex \@minus -.2ex,%
20674   afterskip=2.3ex \@plus .2ex,%
20675   tocstyle=section,%
20676   tocindent=0pt,%
20677   tocnumwidth=1.5em%
20678 ]{section}
20679 \DeclareSectionCommand[%
20680   style=part,%
20681   level=\z@,%
20682   tocstyle=part,%
20683   toclevel=\m@ne,%
20684   tocindent=\z@,%
20685   tocnumwidth=2em%
20686 ]{part}
20687 \DeclareSectionCommand[%
20688   style=section,%
20689   level=2,%
20690   indent=\z@,%
20691   beforekip=-3.25ex\@plus -1ex \@minus -.2ex,%

```



```

20692 afterskip=1.5ex \@plus .2ex,%
20693 tocstyle=subsection,%
20694 tocindent=1.5em,%
20695 tocnumwidth=2.3em%
20696 ]{subsection}
20697 \DeclareSectionCommand[%
20698 style=section,%
20699 level=3,%
20700 indent=\z@,%
20701 beforeskip=-3.25ex \@plus -1ex \@minus -.2ex,%
20702 afterskip=1.5ex \@plus .2ex,%
20703 tocstyle=subsection,%
20704 tocindent=3.8em,%
20705 tocnumwidth=3.2em%
20706 ]{subsubsection}
20707 \DeclareSectionCommand[%
20708 style=section,%
20709 level=4,%
20710 indent=\z@,%
20711 beforeskip=3.25ex \@plus 1ex \@minus .2ex,%
20712 afterskip=-1em,%
20713 tocstyle=subsection,%
20714 tocindentfollows=subsubsection,%
20715 tocindent=7.0em,%
20716 tocnumwidth=4.1em%
20717 ]{paragraph}
20718 \DeclareSectionCommand[%
20719 style=section,%
20720 level=5,%
20721 indent=\scr@parindent,%
20722 beforeskip=3.25ex \@plus 1ex \@minus .2ex,%
20723 afterskip=-1em,%
20724 tocstyle=subsection,%
20725 tocindent=10em,%
20726 tocnumwidth=5em%
20727 ]{subparagraph}

```

## 142 File scrbook-xetex-bidi.def

```

20728 \ProvidesFile{scrbook-xetex-bidi.def}[2022/05/27 v1.3 bidi adaptations for scrbook class for
20729 \newcommand{\scr@saved@LTRfootnotetext}{}
20730 \newcommand{\scr@saved@RTLfootnotetext}{}
20731 \let\scr@saved@footnotetext\@footnotetext
20732 \let\scr@saved@LTRfootnotetext\@LTRfootnotetext
20733 \let\scr@saved@RTLfootnotetext\@RTLfootnotetext
20734 \renewcommand{\@footnotetext}[1]{%
20735   \scr@saved@footnotetext{#1}%
20736   \csname FN@mfb@prepare\endcsname
20737 }
20738 \renewcommand{\@LTRfootnotetext}[1]{%
20739   \scr@saved@LTRfootnotetext{#1}%
20740   \csname FN@mfb@prepare\endcsname
20741 }
20742 \renewcommand{\@RTLfootnotetext}[1]{%

```



```

20743 \scr@saved@RTLfootnotetext{#1}%
20744 \csname FN@mfb@prepare\endcsname
20745 }
20746 \renewcommand\deffootnote[4][]{%
20747 \expandafter\ifnum\scr@v@is@ge{3.22}\relax
20748 \long\def\@makefntext##1{%
20749 \ExecuteDoHook{footnote/text/begin}%
20750 \raggedfootnote
20751 \if@RTL
20752 \rightskip
20753 \else
20754 \leftskip
20755 \fi
20756 #2
20757 \l@addto@macro\@trivlist{%
20758 \ifnum\@listdepth=\@ne\advance
20759 \if@RTL
20760 \rightmargin #2\relax
20761 \else
20762 \leftmargin #2\relax
20763 \fi
20764 \fi
20765 }%
20766 \parindent #3\noindent
20767 \IfArgIsEmpty{#1}{-}{%
20768 \hskip \dimexpr #1-#2\relax
20769 }%
20770 \ftn@font\hbox to \z@{\hss\@makefnmark}##1%
20771 \ExecuteDoHook{footnote/text/end}%
20772 }%
20773 \else
20774 \ClassInfo{\KOMAClassName}{%
20775 Using old \string\@makefntext\space due to compatibility
20776 level\MessageBreak
20777 less than 3.22}%
20778 \long\def\@makefntext##1{%
20779 \setlength{\@tempdimc}{#3}%
20780 \def\@tempa{#1}\ifx\@tempa\@empty
20781 \setpar{\@par
20782 \@tempdima = \hsize
20783 \addtolength{\@tempdima}{-#2}%
20784 \if@RTL
20785 \parshape \@ne \z@ \@tempdima
20786 \else
20787 \parshape \@ne #2 \@tempdima
20788 \fi
20789 }%
20790 \else
20791 \addtolength{\@tempdimc}{#2}%
20792 \addtolength{\@tempdimc}{-#1}%
20793 \setpar{\@par
20794 \@tempdima = \hsize
20795 \addtolength{\@tempdima}{-#1}%
20796 \@tempdimb = \hsize

```



```

20797         \addtolength{\@tempdimb}{-#2}%
20798         \if@RTL
20799             \parshape \tw@ \z@ \@tempdima \z@ \@tempdimb
20800         \else
20801             \parshape \tw@ #1 \@tempdima #2 \@tempdimb
20802         \fi
20803     }%
20804 \fi
20805 \par
20806 \parindent\@tempdimc\noindent
20807 \ftn@font\hbox to \z@{\hss\@makefnmark}##1%
20808 }%
20809 \fi
20810 \def\@makefnmark{\hbox{\ftn@font{#4}}}%
20811 }
20812 \deffootnote[1em]{1.5em}{1em}{\textsuperscript{\thefootnotemark}}
20813 \renewcommand*\left@footnoterule{%
20814     \normalsize\ftn@rule@test@values
20815     \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
20816     \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
20817     {\usekomafont{footnoterule}{%
20818         \hrule \@height\ftn@rule@height \@width\ftn@rule@width}}%
20819     \kern 2.6\p@}
20820 \renewcommand*\right@footnoterule{%
20821     \normalsize\ftn@rule@test@values
20822     \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
20823     \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
20824     {\usekomafont{footnoterule}{%
20825         \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\ftn@rule@width\relax \leavevmode\l
20826         \kern 2.6\p@}
20827 \renewcommand*\maketitle[1][1]{%
20828     \expandafter\ifnum \csname scr@v3.12\endcsname>\scr@compatibility\relax
20829     \else
20830         \def\and{%
20831             \end{tabular}%
20832             \hskip 1em \@plus.17fil%
20833             \begin{tabular}[t]{c}%
20834         }%
20835     \fi
20836     \if@titlepage
20837         \begin{titlepage}
20838             \setcounter{page}{%
20839                 #1%
20840             }%
20841             \if@titlepageiscoverpage
20842                 \edef\tITLEPAGE@restore{%
20843                     \noexpand\endgroup
20844                     \noexpand\global\noexpand\@colht\the\@colht
20845                     \noexpand\global\noexpand\@colroom\the\@colroom
20846                     \noexpand\global\size\the\size
20847                     \noexpand\global\noexpand\@titlepageiscoverpagefalse
20848                     \noexpand\let\noexpand\tITLEPAGE@restore\noexpand\relax
20849                 }%
20850                 \begingroup

```



```

20851 \topmargin=\dimexpr \coverpagetopmargin-1in\relax
20852 \oddsidemargin=\dimexpr \coverpageleftmargin-1in\relax
20853 \evensidemargin=\dimexpr \coverpageleftmargin-1in\relax
20854 \textwidth=\dimexpr
20855 \paperwidth-\coverpageleftmargin-\coverpagerightmargin\relax
20856 \textheight=\dimexpr
20857 \paperheight-\coverpagetopmargin-\coverpagebottommargin\relax
20858 \headheight=0pt
20859 \headsep=0pt
20860 \footskip=\baselineskip
20861 \@colht=\textheight
20862 \@colroom=\textheight
20863 \vsize=\textheight
20864 \columnwidth=\textwidth
20865 \hsize=\columnwidth
20866 \linewidth=\hsize
20867 \else
20868 \let\tITLEPAGE@restore\relax
20869 \fi
20870 \let\footnotesize\small
20871 \let\right@footnoterule\relax
20872 \let\left@footnoterule\relax
20873 \let\textwidth@footnoterule\relax
20874 \let\footnote\thanks
20875 \let\LTRfootnote\LTRthanks
20876 \let\RTLfootnote\RTLthanks
20877 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
20878 \let\@oldmakefnmark\@makefnmark
20879 \renewcommand*{\@makefnmark}{\rlap{\@oldmakefnmark}}%
20880 \ifx\@extratitle\@empty
20881 \ifx\@frontispiece\@empty
20882 \else
20883 \if@twoside\mbox{}\next@tpage\fi
20884 \noindent\@frontispiece\next@tdpage
20885 \fi
20886 \else
20887 \noindent\@extratitle
20888 \ifx\@frontispiece\@empty
20889 \else
20890 \next@tpage
20891 \noindent\@frontispiece
20892 \fi
20893 \next@tdpage
20894 \fi
20895 \setparsizes{\z@}{\z@}{\z@\@plus 1fil}\par@updaterelative
20896 \ifx\@titlehead\@empty \else
20897 \begin{minipage}[t]{\textwidth}%
20898 \usekomafont{titlehead}{\@titlehead\par}%
20899 \end{minipage}\par
20900 \fi
20901 \null\vfill
20902 \begin{center}
20903 \ifx\@subject\@empty \else
20904 {\usekomafont{subject}{\@subject\par}}%

```



```

20905         \vskip 3em
20906     \fi
20907     {\usekomafont{title}{\huge \@title\par}}%
20908     \vskip 1em
20909     {\ifx\@subtitle\@empty\else\usekomafont{subtitle}{\@subtitle\par}\fi}%
20910     \vskip 2em
20911     {%
20912         \usekomafont{author}{%
20913             \lineskip 0.75em
20914             \begin{tabular}[t]{c}
20915                 \@author
20916             \end{tabular}\par
20917         }%
20918     }%
20919     \vskip 1.5em
20920     {\usekomafont{date}{\@date \par}}%
20921     \vskip \z@ \@plus3fill
20922     {\usekomafont{publishers}{\@publishers \par}}%
20923     \vskip 3em
20924     \end{center}\par
20925     \@thanks\global\let\@thanks\@empty
20926     \vfill\null
20927     \if@twoside
20928         \@tempswatrue
20929         \expandafter\ifnum \@nameuse{scr@v@3.12}>\scr@compatibility\relax
20930         \else
20931             \ifx\@uppertitleback\@empty\ifx\@lowertitleback\@empty
20932                 \@tempswafalse
20933             \fi\fi
20934         \fi
20935         \if@tempswa
20936             \next@tpage
20937             \begin{minipage}[t]{\textwidth}
20938                 \@uppertitleback
20939             \end{minipage}\par
20940             \vfill
20941             \begin{minipage}[b]{\textwidth}
20942                 \@lowertitleback
20943             \end{minipage}\par
20944             \@thanks\global\let\@thanks\@empty
20945         \fi
20946     \else
20947         \ifx\@uppertitleback\@empty\else
20948             \ClassWarning{\KOMAClassName}{%
20949                 non empty \string\uppertitleback\space ignored
20950                 by \string\maketitle\MessageBreak
20951                 in `twoside=false' mode%
20952             }%
20953         \fi
20954         \ifx\@lowertitleback\@empty\else
20955             \ClassWarning{\KOMAClassName}{%
20956                 non empty \string\lowertitleback\space ignored
20957                 by \string\maketitle\MessageBreak
20958                 in `twoside=false' mode%

```



```

20959         }%
20960     \fi
20961 \fi
20962 \ifx\@dedication\@empty
20963 \else
20964     \next@tdpage\null\vfill
20965     {\centering\usekomafont{dedication}{\@dedication \par}}%
20966     \vskip \z@ \@plus3fill
20967     \@thanks\global\let\@thanks\@empty
20968     \cleardoubleemptypage
20969 \fi
20970 \ifx\titlepage@restore\relax\else\clearpage\titlepage@restore\fi
20971 \end{titlepage}
20972 \else
20973     \par
20974     \@tempcnta=%
20975     #1%
20976     \relax\ifnum\@tempcnta=1\else
20977         \ClassWarning{\KOMAClassName}{%
20978             Optional argument of \string\maketitle\space ignored\MessageBreak
20979             in `titlepage=false' mode%
20980         }%
20981     \fi
20982     \ifx\@uppertitleback\@empty\else
20983         \ClassWarning{\KOMAClassName}{%
20984             non empty \string\uppertitleback\space ignored
20985             by \string\maketitle\MessageBreak
20986             in `titlepage=false' mode%
20987         }%
20988     \fi
20989     \ifx\@lowertitleback\@empty\else
20990         \ClassWarning{\KOMAClassName}{%
20991             non empty \string\lowertitleback\space ignored
20992             by \string\maketitle\MessageBreak
20993             in `titlepage=false' mode%
20994         }%
20995     \fi
20996     \begingroup
20997         \let\titlepage@restore\relax
20998         \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
20999         \let\@oldmakefnmark\@makefnmark
21000         \renewcommand*{\@makefnmark}{\rlap{\@oldmakefnmark}}%
21001         \next@tdpage
21002         \if@twocolumn
21003             \ifnum \col@number=\@ne
21004                 \ifx\@extratitle\@empty
21005                     \ifx\@frontispiece\@empty\else\if@twoside\mbox{}\fi\fi
21006                 \else
21007                     \@makeextratitle
21008                 \fi
21009                 \ifx\@frontispiece\@empty
21010                     \ifx\@extratitle\@empty\else\next@tdpage\fi
21011                 \else
21012                     \next@tdpage

```



```

21013         \@makefrontispiece
21014         \next@tdpage
21015     \fi
21016     \@maketitle
21017 \else
21018     \ifx\@extratitle\@empty
21019         \ifx\@frontispiece\@empty\else\if@twoside\mbox{}\fi\fi
21020     \else
21021         \twocolumn[\@makeextratitle]%
21022     \fi
21023     \ifx\@frontispiece\@empty
21024         \ifx\@extratitle\@empty\else\next@tdpage\fi
21025     \else
21026         \next@tpage
21027         \twocolumn[\@makefrontispiece]%
21028         \next@tdpage
21029     \fi
21030     \twocolumn[\@maketitle]%
21031 \fi
21032 \else
21033     \ifx\@extratitle\@empty
21034         \ifx\@frontispiece\@empty\else \mbox{}\fi
21035     \else
21036         \@makeextratitle
21037     \fi
21038     \ifx\@frontispiece\@empty
21039         \ifx\@extratitle\@empty\else\next@tdpage\fi
21040     \else
21041         \next@tpage
21042         \@makefrontispiece
21043         \next@tdpage
21044     \fi
21045     \@maketitle
21046 \fi
21047     \ifx\titlepagestyle\@empty\else\thispagestyle{\titlepagestyle}\fi
21048     \@thanks\global\let\@thanks\@empty
21049 \endgroup
21050 \fi
21051 \setcounter{footnote}{0}%
21052 \expandafter\ifnum \csname scr@v@3.12\endcsname>\scr@compatibility\relax
21053     \let\thanks\relax
21054     \let\LTRthanks\relax
21055     \let\RTLthanks\relax
21056     \let\maketitle\relax
21057     \let\@maketitle\relax
21058     \global\let\@thanks\@empty
21059     \global\let\@author\@empty
21060     \global\let\@date\@empty
21061     \global\let\@title\@empty
21062     \global\let\@subtitle\@empty
21063     \global\let\@extratitle\@empty
21064     \global\let\@frontispiece\@empty
21065     \global\let\@titlehead\@empty
21066     \global\let\@subject\@empty

```



```

21067 \global\let\@publishers\@empty
21068 \global\let\@uppertitleback\@empty
21069 \global\let\@lowertitleback\@empty
21070 \global\let\@dedication\@empty
21071 \global\let\author\relax
21072 \global\let\title\relax
21073 \global\let\extratitle\relax
21074 \global\let\titlehead\relax
21075 \global\let\subject\relax
21076 \global\let\publishers\relax
21077 \global\let\uppertitleback\relax
21078 \global\let\lowertitleback\relax
21079 \global\let\dedication\relax
21080 \global\let\date\relax
21081 \fi
21082 \global\let\and\relax
21083 }%
21084 \def\raggedsection{\if@RTL\raggedleft\else\raggedright\fi}
21085 \renewcommand*\autodot{\if@altsecnumformat\@SepMark\fi}
21086 \renewcommand*\thesection{%
21087 \expandafter\ifnum\scr@v@is@gt{2.97d}%
21088 \if@mainmatter\thechapter\@SepMark\fi
21089 \else
21090 \thechapter\@SepMark%
21091 \fi
21092 \@arabic\c@section
21093 }
21094 \renewcommand*{\thesubsection}{\thesection\@SepMark\@arabic\c@subsection}
21095 \renewcommand*{\thesubsubsection}{%
21096 \thesubsection\@SepMark\@arabic\c@subsubsection
21097 }
21098 \renewcommand*{\theparagraph}{\thesubsubsection\@SepMark\@arabic\c@paragraph}
21099 \renewcommand*{\thesubparagraph}{%
21100 \theparagraph\@SepMark\@arabic\c@subparagraph
21101 }
21102 \expandafter\ifnum\scr@v@is@le{2.97d}%
21103 \renewcommand*\thefigure{\thechapter\@SepMark\@arabic\c@figure}
21104 \fi
21105 \expandafter\ifnum\scr@v@is@le{2.97d}%
21106 \renewcommand*\thetable{\thechapter\@SepMark\@arabic\c@table}
21107 \fi
21108 \renewcommand*{\theequation}{%
21109 \expandafter\ifnum\scr@v@is@gt{2.97d}%
21110 \if@mainmatter\thechapter\@SepMark\fi
21111 \else
21112 \thechapter\@SepMark%
21113 \fi
21114 \@arabic\c@equation
21115 }
21116 \renewenvironment{thebibliography}[1]{%
21117 \if@bib@break@
21118 \bib@beginhook
21119 \else
21120 \ifx\bibpreamble\relax\else\ifx\bibpreamble\@empty\else

```



```

21121         \setchapterpreamble{\bibpreamble}%
21122     \fi\fi
21123     \bib@heading
21124     \bib@beginhook
21125     \bib@before@hook
21126 \fi
21127 \renewcommand{\BreakBibliography}[1]{%
21128     \@bib@break
21129     \end{thebibliography}%
21130     \begingroup ##1\endgroup
21131     \begin{thebibliography}{#1}
21132 }%
21133     \ifRTL\ifLTRbibitems\@RTLfalse\else\fi\else\ifRTLbibitems\@RTLtrue\else\fi\fi
21134     \bidi@thebibliography@font@hook%
21135     \list{%
21136         \@biblabel{\@arabic\c@enumiv}%
21137     }{%
21138         \settowidth\labelwidth{\@biblabel{#1}}%
21139         \leftmargin\labelwidth
21140         \advance\leftmargin\labelsep
21141         \@openbib@code
21142         \if@bib@break@
21143             \edef\@tempa{%
21144                 \noexpand\usecounter{enumiv}%
21145                 \noexpand\setcounter{enumiv}{\the\c@enumiv}%
21146             }\@tempa
21147             \no@bib@break
21148         \else
21149             \usecounter{enumiv}%
21150         \fi
21151         \let\p@enumiv\@empty
21152         \renewcommand*\theenumiv{\@arabic\c@enumiv}%
21153     }%
21154     \sloppy\clubpenalty4000 \widowpenalty4000
21155     \sfcode`\.=\@m
21156 }{%
21157     \if@bib@break@
21158         \def\@noitemerr{%
21159             \@latex@warning{%
21160                 \string\BreakBibliography\space at begin of `thebibliography'
21161                 environment\MessageBreak
21162                 or following \string\BreakBibliography}%
21163             }%
21164     \else
21165         \def\@noitemerr{%
21166             \@latex@warning{%
21167                 Empty `thebibliography' environment or
21168                 \string\BreakBibliography\MessageBreak
21169                 before end of `thebibliography' environment}%
21170             }%
21171     \fi
21172     \endlist
21173     \if@bib@break@
21174     \else

```



```

21175 \bib@after@hook
21176 \let\bib@before@hook\@empty
21177 \let\bib@after@hook\@empty
21178 \fi
21179 \bib@endhook
21180 }
21181 \renewcommand*\raggeddictum{\if@RTL\raggedright\else\raggedleft\fi}
21182 \renewcommand*\raggeddictumtext{\if@RTL\raggedleft\else\raggedright\fi}
21183 \renewcommand*\raggeddictumauthor{\if@RTL\raggedright\else\raggedleft\fi}
21184 \renewcommand\marginline[1]{%
21185 \marginpar[\if@RTL\raggedright\else\raggedleft\fi{#1}]{\if@RTL\raggedleft\else\raggedright
21186 }
21187 \renewcommand{\@makecaption}[3]{%
21188 \cap@margin
21189 \begingroup
21190 \ifonelinecaptions
21191 \def\stepcounter##1{\advance\value{##1}\@ne}%
21192 \let\refstepcounter\stepcounter
21193 \let\label\@gobble
21194 \let\@footnotetext=\@gobble
21195 \let\@LTRfootnotetext=\@gobble
21196 \let\@RTLfootnotetext=\@gobble
21197 \let\hypertarget\@gobbletwo
21198 \edef\@xnewline{%
21199 \unexpanded{\ClassInfo{\KOMAClassName}{%
21200 Workaround for not recommended usage of \string\\ or\MessageBreak
21201 \string\newline in caption text
21202 }%
21203 \hspace*{\linewidth}\hspace{1sp}%
21204 }%
21205 \unexpanded\expandafter{\@xnewline}%
21206 }%
21207 \edef\@xcentercr{%
21208 \unexpanded{\ClassInfo{\KOMAClassName}{%
21209 Workaround for not recommended usage of \string\\ or\MessageBreak
21210 \string\newline in caption text
21211 }%
21212 \hspace*{\linewidth}\hspace{1sp}%
21213 }%
21214 \unexpanded\expandafter{\@xcentercr}%
21215 }%
21216 \settowidth{\@tempdima}{\scr@makesinglelinecaption{#1}{#2}{#3}}%
21217 \ifdim\@tempdima>\cap@width
21218 \aftergroup\scr@makemultilinecaption
21219 \else
21220 \aftergroup\scr@makesinglelinecaption
21221 \fi
21222 \else
21223 \aftergroup\scr@makemultilinecaption
21224 \fi
21225 \endgroup
21226 {#1}{#2}{#3}%
21227 }
21228 \renewcommand{\scr@makesinglelinecaption}[3]{%

```



```

21229 {%
21230   \usefontofkomafont{caption}{%
21231     \hb@xt@\hsize{%
21232       \cap@left
21233       \if@RTL
21234         \beginR
21235         \fi
21236       \scr@@makesinglelinecaption{#1}{#2}{#3}%
21237       \if@RTL
21238         \endR
21239       \fi
21240     \cap@right
21241   }\par\kern\dp\strutbox%
21242 }%
21243 }\kern-\dp\strutbox
21244 }
21245 \renewcommand{\@makecaption}[2]{%
21246   \if@captionabove
21247     \vskip\belowcaptionskip
21248   \else
21249     \vskip\abovecaptionskip
21250   \fi
21251   \@makecaption\@firstofone{#1}{#2}%
21252   \if@captionabove
21253     \vskip\abovecaptionskip
21254   \else
21255     \vskip\belowcaptionskip
21256   \fi
21257 }
21258
21259 \renewcommand{\scr@@makesinglelinecaption}[3]{%
21260   {\usekomafont{caption}{\strut\ignorespaces
21261     #1{\usekomafont{captionlabel}{#2\captionformat}}}%
21262   \ignorespaces #3\unskip}}%
21263 }
21264
21265 \renewcommand{\scr@makemultilinecaption}[3]{%
21266   {%
21267     \usefontofkomafont{caption}{%
21268       \hb@xt@\hsize{%
21269         \cap@left
21270         \vbox{\hsize\cap@width\linewidth\hsize
21271           \scr@ifundefinedorrelax{@captype}{%
21272             \ClassWarning{\KOMAClassName}{%
21273               `\'string\caption' outside float.\MessageBreak
21274               Seems you are using `\'string\caption' outside a
21275               float.\MessageBreak
21276               Maybe you are using a package that uses
21277               `\'string\@makecaption'\MessageBreak
21278               without setting `\'string\@captype' before.\MessageBreak
21279               Because I cannot detect the caption type, I'm using\MessageBreak
21280               the empty one.%
21281             }%
21282             \let\@captype\@empty

```



```

21283 }{}%
21284 \scr@ifundefinedorrelax{ragged\@captype caption}{\raggedcaption}{%
21285 \@nameuse{ragged\@captype caption}%
21286 }%
21287 \ifdofullc@p
21288 \@hangfrom{%
21289 \strut
21290 \scr@smashdp{%
21291 #1{%
21292 \usekomafont{caption}{%
21293 \usekomafont{captionlabel}{#2\captionformat}%
21294 }%
21295 }%
21296 }%
21297 }%
21298 {{\usekomafont{caption}{#3\scr@endstrut}}\par}%
21299 \else
21300 \ifdim\cap@indent<\z@
21301 \strut
21302 #1{%
21303 {\usekomafont{caption}{%
21304 \usekomafont{captionlabel}{#2\captionformat}%
21305 }%
21306 }\par}%
21307 \noindent{{\usekomafont{caption}{%
21308 \hspace*{-\cap@indent}#3\scr@endstrut
21309 }}\par}%
21310 \else
21311 \if@capbreak
21312 \strut
21313 #1{%
21314 {\usekomafont{caption}{%
21315 \usekomafont{captionlabel}{#2\captionformat}%
21316 }
21317 }\par}%
21318 \noindent\@hangfrom{\hspace*{\cap@indent}}%
21319 {{\usekomafont{caption}{#3\scr@endstrut}}\par}%
21320 \else
21321 \@hangfrom{\scr@smashdp\strut\hspace*{\cap@indent}}%
21322 {%
21323 \hspace{-\cap@indent}%
21324 \scr@smashdp{%
21325 #1{\usekomafont{caption}{%
21326 \usekomafont{captionlabel}{#2\captionformat}%
21327 }%
21328 }%
21329 }%
21330 {{\usekomafont{caption}{#3\scr@endstrut}}\par}%
21331 }%
21332 \fi
21333 \fi
21334 \fi
21335 }%
21336 \cap@right

```



```

21337     }\par\kern\dp\strutbox
21338   }%
21339 }\kern-\dp\strutbox
21340 }
21341
21342
21343 \bidi@AfterFile{longtable-xetex-bidi.def}{%
21344   \if@komalongtable
21345     \renewcommand{\LT@makecaption}[3]{%
21346       \noalign{%
21347         \if@captionabove
21348           \vskip\belowcaptionskip
21349         \else
21350           \vskip\abovecaptionskip
21351         \fi
21352       }%
21353       \LT@mcot\LT@cols c{%
21354         \hbox to\z@{\hss\parbox[t]{\linewidth{%
21355           \def\@capytype{table}%
21356           \@makecaption{#1}{#2}{#3}%
21357           \endgraf
21358           \if@captionabove
21359             \vskip\abovecaptionskip
21360           \else
21361             \vskip\belowcaptionskip
21362           \fi
21363         }%
21364         \hss
21365       }%
21366     }%
21367   }%
21368   \renewcommand*{\scr@LT@array}{}%
21369   \let\scr@LT@array=\LT@array
21370   \renewcommand*{\LT@array}{%
21371     \let\scr@caption=\LT@caption
21372     \def\captionabove{\noalign{\global\@captionabovetrue}%
21373       \scr@caption}%
21374     \def\captionbelow{\noalign{\global\@captionabovetrue}%
21375       \scr@caption}%
21376     \if@tablecaptionabove
21377       \let\LT@caption=\captionabove
21378     \else
21379       \let\LT@caption=\captionbelow
21380     \fi
21381     \scr@LT@array
21382   }%
21383   \ClassInfo{\KOMAClassName}{%
21384     longtable captions redefined%
21385   }%
21386 \fi
21387 }
21388
21389 \CloneTOCEntryStyle{tocline}{part}
21390 \TOCEntryStyleStartInitCode{part}{%

```



```

21391 \expandafter\renewcommand%
21392 \csname scr@tso@#1@linefill\endcsname{\hfill}%
21393 \expandafter\renewcommand%
21394 \csname scr@tso@#1@entryformat\endcsname[1]{\usekomafont{partentry}{##1}}%
21395 \expandafter\renewcommand%
21396 \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
21397   {\usekomafont{partentry}{\usekomafont{partentrypagenumber}{##1}}}%
21398 \expandafter\renewcommand\expandafter*%
21399 \csname scr@tso@#1@beforeskip\endcsname{2.25em \@plus\p@}%
21400 }
21401
21402 \CloneTOCEntryStyle{tocline}{chapter}
21403 \TOCEntryStyleStartInitCode{chapter}{%
21404   \expandafter\renewcommand%
21405   \csname scr@tso@#1@linefill\endcsname{%
21406     \if@chapterentrywithdots
21407       {\usekomafont{chapterentrydots}{\TOCLineLeaderFill}}\relax
21408     \else
21409       \hfill
21410     \fi
21411   }%
21412   \expandafter\renewcommand%
21413   \csname scr@tso@#1@entryformat\endcsname{\usekomafont{chapterentry}}%
21414   \expandafter\renewcommand%
21415   \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
21416     {\usekomafont{chapterentry}{\usekomafont{chapterentrypagenumber}{##1}}}%
21417   \expandafter\renewcommand\expandafter*%
21418   \csname scr@tso@#1@beforeskip\endcsname{1.0em \@plus\p@}%
21419 }
21420
21421 \CloneTOCEntryStyle{tocline}{section}
21422 \TOCEntryStyleStartInitCode{section}{%
21423   \expandafter\renewcommand%
21424   \csname scr@tso@#1@linefill\endcsname{\TOCLineLeaderFill\relax}%
21425   \expandafter\renewcommand%
21426   \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
21427     {\normalfont\normalcolor ##1}}%
21428 }
21429
21430 \CloneTOCEntryStyle{section}{default}
21431
21432 \DeclareSectionCommand[%
21433   style=chapter,%
21434   level=\z@,%
21435   pagestyle=plain,%
21436   tocstyle=chapter,%
21437   tocindent=\z@,%
21438   tocnumwidth=1.5em%
21439 ]{chapter}
21440 \DeclareSectionCommand[%
21441   style=section,%
21442   level=1,%
21443   indent=\z@,%
21444   beforeskip=-3.5ex \@plus -1ex \@minus -.2ex,%

```



```

21445 afterskip=2.3ex \@plus.2ex,%
21446 tocstyle=section,%
21447 tocindentfollows=chapter,%
21448 tocindent=1.5em,%
21449 tocnumwidth=2.3em%
21450 ]{section}
21451 \DeclareSectionCommand[%
21452   style=part,%
21453   level=\m@ne,%
21454   pagestyle=plain,%
21455   tocstyle=part,%
21456   toplevel=\m@ne,%
21457   tocindent=\z@,%
21458   tocnumwidth=2em%
21459 ]{part}
21460 \DeclareSectionCommand[%
21461   style=section,%
21462   level=2,%
21463   indent=\z@,%
21464   beforekip=-3.25ex\@plus -1ex \@minus -.2ex,%
21465   afterskip=1.5ex \@plus .2ex,%
21466   tocstyle=section,%
21467   tocindent=3.8em,%
21468   tocnumwidth=3.2em%
21469 ]{subsection}
21470 \DeclareSectionCommand[%
21471   style=section,%
21472   level=3,%
21473   indent=\z@,%
21474   beforekip=-3.25ex\@plus -1ex \@minus -.2ex,%
21475   afterskip=1.5ex \@plus .2ex,%
21476   tocstyle=section,%
21477   tocindent=7.0em,%
21478   tocnumwidth=4.1em%
21479 ]{subsubsection}
21480 \DeclareSectionCommand[%
21481   style=section,%
21482   level=4,%
21483   indent=\z@,%
21484   beforekip=3.25ex \@plus1ex \@minus .2ex,%
21485   afterskip=-1em,%
21486   tocindentfollows=subsubsection,%
21487   tocstyle=section,%
21488   tocindent=10em,%
21489   tocnumwidth=5em%
21490 ]{paragraph}
21491 \DeclareSectionCommand[%
21492   style=section,%
21493   level=5,%
21494   indent=\scr@parindent,%
21495   beforekip=3.25ex \@plus1ex \@minus .2ex,%
21496   afterskip=-1em,%
21497   tocstyle=section,%
21498   tocindent=12em,%

```



```

21499   tocnumwidth=6em%
21500 ]{subparagraph}

```

## 143 File `scrreprt-xetex-bidi.def`

```

21501 \ProvidesFile{scrreprt-xetex-bidi.def}[2022/05/27 v1.3 bidi adaptations for scrreprt class f
21502 \newcommand{\scr@saved@LTRfootnotetext}{}
21503 \newcommand{\scr@saved@RTLfootnotetext}{}
21504 \let\scr@saved@footnotetext\@footnotetext
21505 \let\scr@saved@LTRfootnotetext\@LTRfootnotetext
21506 \let\scr@saved@RTLfootnotetext\@RTLfootnotetext
21507 \renewcommand{\@footnotetext}[1]{%
21508   \scr@saved@footnotetext{#1}%
21509   \csname FN@mf@prepare\endcsname
21510 }
21511 \renewcommand{\@LTRfootnotetext}[1]{%
21512   \scr@saved@LTRfootnotetext{#1}%
21513   \csname FN@mf@prepare\endcsname
21514 }
21515 \renewcommand{\@RTLfootnotetext}[1]{%
21516   \scr@saved@RTLfootnotetext{#1}%
21517   \csname FN@mf@prepare\endcsname
21518 }
21519 \renewcommand\deffootnote[4][1]{%
21520   \expandafter\ifnum\scr@v@is@ge{3.22}\relax
21521     \long\def\@makefntext##1{%
21522       \ExecuteDoHook{footnote/text/begin}%
21523       \raggedfootnote
21524       \if@RTL
21525         \rightskip
21526       \else
21527         \leftskip
21528       \fi
21529       #2
21530       \l@addto@macro\@trivlist{%
21531         \ifnum\@listdepth=\@ne
21532           \if@RTL
21533             \advance\rightmargin #2\relax
21534           \else
21535             \advance\leftmargin #2\relax
21536           \fi
21537         \fi
21538       }%
21539       \parindent #3\noindent
21540       \IfArgIsEmpty{#1}{}{%
21541         \hskip \dimexpr #1-#2\relax
21542       }%
21543       \ftn@font\hbox to \z@{\hss\@makefnmark}##1%
21544       \ExecuteDoHook{footnote/text/end}%
21545     }%
21546 \else
21547   \ClassInfo{\KOMAClassName}{%
21548     Using old \string\@makefntext\space due to compatibility
21549     level\MessageBreak

```



```

21550     less than 3.22}%
21551 \long\def\@makefnmark##1{%
21552   \setlength{\@tempdimc}{#3}%
21553   \def\@tempa{#1}\ifx\@tempa\@empty
21554     \setpar{\@par
21555       \@tempdima = \hsize
21556       \addtolength{\@tempdima}{-#2}%
21557       \ifRTL
21558         \parshape \@ne \z@ \@tempdima
21559       \else
21560         \parshape \@ne #2 \@tempdima
21561       \fi
21562     }%
21563   \else
21564     \addtolength{\@tempdimc}{#2}%
21565     \addtolength{\@tempdimc}{-#1}%
21566     \setpar{\@par
21567       \@tempdima = \hsize
21568       \addtolength{\@tempdima}{-#1}%
21569       \@tempdimb = \hsize
21570       \addtolength{\@tempdimb}{-#2}%
21571       \ifRTL
21572         \parshape \tw@ \z@ \@tempdima \z@ \@tempdimb
21573       \else
21574         \parshape \tw@ #1 \@tempdima #2 \@tempdimb
21575       \fi
21576     }%
21577   \fi
21578   \par
21579   \parindent\@tempdimc\noindent
21580   \ftn@font\hbox to \z@{\hss\@makefnmark}##1%
21581 }%
21582 \fi
21583 \def\@makefnmark{\hbox{\ftn@font{#4}}}%
21584 }
21585 \deffootnote[1em]{1.5em}{1em}{\textsuperscript{\thefootnotemark}}
21586 \renewcommand*\left@footnoterule{%
21587   \normalsize\ftn@rule@test@values
21588   \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
21589   \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
21590   {\usekomafont{footnoterule}{%
21591     \hrule \@height\ftn@rule@height \@width\ftn@rule@width}}%
21592   \kern 2.6\p@}
21593 \renewcommand*\right@footnoterule{%
21594   \normalsize\ftn@rule@test@values
21595   \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
21596   \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
21597   {\usekomafont{footnoterule}{%
21598     \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\ftn@rule@width\relax \leavevmode\l
21599     \kern 2.6\p@}
21600 \renewcommand*\maketitle[1][1]{%
21601   \expandafter\ifnum \csname scr@v3.12\endcsname>\scr@compatibility\relax
21602   \else
21603     \def\and{%

```



```

21604         \end{tabular}%
21605         \hskip 1em \@plus.17fil%
21606         \begin{tabular}[t]{c}%
21607     }%
21608 \fi
21609 \if@titlepage
21610     \begin{titlepage}
21611         \setcounter{page}{%
21612             #1%
21613         }%
21614         \if@titlepageiscoverpage
21615             \edef\titlepage@restore{%
21616                 \noexpand\endgroup
21617                 \noexpand\global\noexpand\@colht\the\@colht
21618                 \noexpand\global\noexpand\@colroom\the\@colroom
21619                 \noexpand\global\vsizethe\vsizethe
21620                 \noexpand\global\noexpand\@titlepageiscoverpagefalse
21621                 \noexpand\let\noexpand\titlepage@restore\noexpand\relax
21622             }%
21623             \begin{group}
21624                 \topmargin=\dimexpr \coverpagetopmargin-1in\relax
21625                 \oddsidemargin=\dimexpr \coverpageleftmargin-1in\relax
21626                 \evensidemargin=\dimexpr \coverpageleftmargin-1in\relax
21627                 \textwidth=\dimexpr
21628                 \paperwidth-\coverpageleftmargin-\coverpagerightmargin\relax
21629                 \textheight=\dimexpr
21630                 \paperheight-\coverpagetopmargin-\coverpagebottommargin\relax
21631                 \headheight=0pt
21632                 \headsep=0pt
21633                 \footskip=\baselineskip
21634                 \@colht=\textheight
21635                 \@colroom=\textheight
21636                 \vsizethe=\textheight
21637                 \columnwidth=\textwidth
21638                 \hsizethe=\columnwidth
21639                 \linewidth=\hsizethe
21640             \else
21641                 \let\titlepage@restore\relax
21642             \fi
21643             \let\footnotesize\small
21644             \let\right@footnoterule\relax
21645             \let\left@footnoterule\relax
21646             \let\textwidth@footnoterule\relax
21647             \let\footnote\thanks
21648             \let\LTRfootnote\LTRthanks
21649             \let\RTLfootnote\RTLthanks
21650             \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
21651             \let\@oldmakefnmark\@makefnmark
21652             \renewcommand*\@makefnmark{\rlap\@oldmakefnmark}%
21653             \ifx\@extratitle\@empty
21654                 \ifx\@frontispiece\@empty
21655                     \else
21656                         \if@twoside\mbox{}\next@tpage\fi
21657                         \noindent\@frontispiece\next@tdpage

```



```

21658      \fi
21659    \else
21660      \noindent\@extratitle
21661      \ifx\@frontispiece\@empty
21662      \else
21663        \next@tpage
21664        \noindent\@frontispiece
21665      \fi
21666      \next@tdpage
21667    \fi
21668    \setparsizes{\z@}{\z@}{\z@\@plus 1fil}\par@updaterelative
21669    \ifx\@titlehead\@empty \else
21670      \begin{minipage}[t]{\textwidth}%
21671        \usekomafont{titlehead}{\@titlehead\par}%
21672      \end{minipage}\par
21673    \fi
21674    \null\vfill
21675    \begin{center}
21676      \ifx\@subject\@empty \else
21677        {\usekomafont{subject}{\@subject\par}}%
21678        \vskip 3em
21679      \fi
21680      {\usekomafont{title}{\huge \@title\par}}%
21681      \vskip 1em
21682      {\ifx\@subtitle\@empty\else\usekomafont{subtitle}{\@subtitle\par}\fi}%
21683      \vskip 2em
21684      {%
21685        \usekomafont{author}{%
21686          \lineskip 0.75em
21687          \begin{tabular}[t]{c}
21688            \@author
21689          \end{tabular}\par
21690        }%
21691      }%
21692      \vskip 1.5em
21693      {\usekomafont{date}{\@date \par}}%
21694      \vskip \z@ \@plus3fill
21695      {\usekomafont{publishers}{\@publishers \par}}%
21696      \vskip 3em
21697    \end{center}\par
21698    \@thanks\global\let\@thanks\@empty
21699    \vfill\null
21700    \if@twoside
21701      \@tempswatrue
21702      \expandafter\ifnum \@nameuse{scr@v@3.12}>\scr@compatibility\relax
21703      \else
21704        \ifx\@uppertitleback\@empty\ifx\@lowertitleback\@empty
21705          \@tempswafalse
21706        \fi\fi
21707      \fi
21708      \if@tempswa
21709        \next@tpage
21710        \begin{minipage}[t]{\textwidth}
21711          \@uppertitleback

```



```

21712         \end{minipage}\par
21713         \vfill
21714         \begin{minipage}[b]{\textwidth}
21715             \@lowertitleback
21716         \end{minipage}\par
21717         \@thanks\global\let\@thanks\@empty
21718     \fi
21719 \else
21720     \ifx\@uppertitleback\@empty\else
21721         \ClassWarning{\KOMAClassName}{%
21722             non empty \string\uppertitleback\space ignored
21723             by \string\maketitle\MessageBreak
21724             in `twoside=false' mode%
21725         }%
21726     \fi
21727     \ifx\@lowertitleback\@empty\else
21728         \ClassWarning{\KOMAClassName}{%
21729             non empty \string\lowertitleback\space ignored
21730             by \string\maketitle\MessageBreak
21731             in `twoside=false' mode%
21732         }%
21733     \fi
21734 \fi
21735 \ifx\@dedication\@empty
21736 \else
21737     \next@tdpage\null\vfill
21738     {\centering\usekomafont{dedication}{\@dedication \par}}%
21739     \vskip \z@ \@plus3fill
21740     \@thanks\global\let\@thanks\@empty
21741     \cleardoubleemptypage
21742 \fi
21743 \ifx\titlepage@restore\relax\else\clearpage\titlepage@restore\fi
21744 \end{titlepage}
21745 \else
21746     \par
21747     \@tempcnta=%
21748     #1%
21749     \relax\ifnum\@tempcnta=1\else
21750         \ClassWarning{\KOMAClassName}{%
21751             Optional argument of \string\maketitle\space ignored\MessageBreak
21752             in `titlepage=false' mode%
21753         }%
21754     \fi
21755     \ifx\@uppertitleback\@empty\else
21756         \ClassWarning{\KOMAClassName}{%
21757             non empty \string\uppertitleback\space ignored
21758             by \string\maketitle\MessageBreak
21759             in `titlepage=false' mode%
21760         }%
21761     \fi
21762     \ifx\@lowertitleback\@empty\else
21763         \ClassWarning{\KOMAClassName}{%
21764             non empty \string\lowertitleback\space ignored
21765             by \string\maketitle\MessageBreak

```



```

21766         in `titlepage=false' mode%
21767     }%
21768 \fi
21769 \beginngroup
21770 \let\titlepage@restore\relax
21771 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
21772 \let\@oldmakefnmark\@makefnmark
21773 \renewcommand*{\@makefnmark}{\rlap\@oldmakefnmark}%
21774 \next@tdpage
21775 \if@twocolumn
21776     \ifnum \col@number=\@one
21777         \ifx\@extratitle\@empty
21778             \ifx\@frontispiece\@empty\else\if@twoside\mbox{}\fi\fi
21779         \else
21780             \@makeextratitle
21781         \fi
21782         \ifx\@frontispiece\@empty
21783             \ifx\@extratitle\@empty\else\next@tdpage\fi
21784         \else
21785             \next@tpage
21786             \@makefrontispiece
21787             \next@tdpage
21788         \fi
21789         \@maketitle
21790     \else
21791         \ifx\@extratitle\@empty
21792             \ifx\@frontispiece\@empty\else\if@twoside\mbox{}\fi\fi
21793         \else
21794             \twocolumn[\@makeextratitle]%
21795         \fi
21796         \ifx\@frontispiece\@empty
21797             \ifx\@extratitle\@empty\else\next@tdpage\fi
21798         \else
21799             \next@tpage
21800             \twocolumn[\@makefrontispiece]%
21801             \next@tdpage
21802         \fi
21803         \twocolumn[\@maketitle]%
21804     \fi
21805 \else
21806     \ifx\@extratitle\@empty
21807         \ifx\@frontispiece\@empty\else \mbox{}\fi
21808     \else
21809         \@makeextratitle
21810     \fi
21811     \ifx\@frontispiece\@empty
21812         \ifx\@extratitle\@empty\else\next@tdpage\fi
21813     \else
21814         \next@tpage
21815         \@makefrontispiece
21816         \next@tdpage
21817     \fi
21818     \@maketitle
21819 \fi

```



```

21820 \ifx\titlepagestyle\@empty\else\thispagestyle{\titlepagestyle}\fi
21821 \@thanks\global\let\@thanks\@empty
21822 \endgroup
21823 \fi
21824 \setcounter{footnote}{0}%
21825 \expandafter\ifnum \csname scr@v3.12\endcsname>\scr@compatibility\relax
21826 \let\thanks\relax
21827 \let\LTRthanks\relax
21828 \let\RTLthanks\relax
21829 \let\maketitle\relax
21830 \let\@maketitle\relax
21831 \global\let\@thanks\@empty
21832 \global\let\@author\@empty
21833 \global\let\@date\@empty
21834 \global\let\@title\@empty
21835 \global\let\@subtitle\@empty
21836 \global\let\@extratitle\@empty
21837 \global\let\@frontispiece\@empty
21838 \global\let\@titlehead\@empty
21839 \global\let\@subject\@empty
21840 \global\let\@publishers\@empty
21841 \global\let\@uppertitleback\@empty
21842 \global\let\@lowertitleback\@empty
21843 \global\let\@dedication\@empty
21844 \global\let\author\relax
21845 \global\let\title\relax
21846 \global\let\extratitle\relax
21847 \global\let\titlehead\relax
21848 \global\let\subject\relax
21849 \global\let\publishers\relax
21850 \global\let\uppertitleback\relax
21851 \global\let\lowertitleback\relax
21852 \global\let\dedication\relax
21853 \global\let\date\relax
21854 \fi
21855 \global\let\and\relax
21856 }%
21857 \def\raggedsection{\if@RTL\raggedleft\else\raggedright\fi}
21858 \renewcommand*\autodot{\if@altsecnumformat\@SepMark\fi}
21859 \renewcommand*\thesection{%
21860 \thechapter\@SepMark%
21861 \@arabic\c@section
21862 }
21863 \renewcommand*{\thesubsection}{\thesection\@SepMark\@arabic\c@subsection}
21864 \renewcommand*{\thesubsubsection}{%
21865 \thesubsection\@SepMark\@arabic\c@subsubsection
21866 }
21867 \renewcommand*{\theparagraph}{\thesubsubsection\@SepMark\@arabic\c@paragraph}
21868 \renewcommand*{\thesubparagraph}{%
21869 \theparagraph\@SepMark\@arabic\c@subparagraph
21870 }
21871 \expandafter\ifnum\scr@v@is@le{2.97d}%
21872 \renewcommand*\thefigure{\thechapter\@SepMark\@arabic\c@figure}
21873 \fi

```



```

21874 \expandafter\ifnum\scr@v@is@le{2.97d}%
21875 \renewcommand*\thetable{\thechapter\@SepMark\@arabic\c@table}
21876 \fi
21877 \renewcommand*\theequation{%
21878 \thechapter\@SepMark%
21879 \@arabic\c@equation
21880 }
21881 \renewenvironment{thebibliography}[1]{%
21882 \if@bib@break@
21883 \bib@beginhook
21884 \else
21885 \ifx\bibpreamble\relax\else\ifx\bibpreamble\@empty\else
21886 \setchapterpreamble{\bibpreamble}%
21887 \fi\fi
21888 \bib@heading
21889 \bib@beginhook
21890 \bib@before@hook
21891 \fi
21892 \renewcommand{\BreakBibliography}[1]{%
21893 \@bib@break
21894 \end{thebibliography}%
21895 \begingroup ##1\endgroup
21896 \begin{thebibliography}{#1}
21897 }%
21898 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
21899 \bidi@thebibliography@font@hook%
21900 \list{%
21901 \@biblabel{\@arabic\c@enumiv}%
21902 }{%
21903 \settowidth\labelwidth{\@biblabel{#1}}%
21904 \leftmargin\labelwidth
21905 \advance\leftmargin\labelsep
21906 \@openbib@code
21907 \if@bib@break@
21908 \edef\@tempa{%
21909 \noexpand\usecounter{enumiv}%
21910 \noexpand\setcounter{enumiv}{\the\c@enumiv}%
21911 }\@tempa
21912 \no@bib@break
21913 \else
21914 \usecounter{enumiv}%
21915 \fi
21916 \let\p@enumiv\@empty
21917 \renewcommand*\theenumiv{\@arabic\c@enumiv}%
21918 }%
21919 \sloppy\clubpenalty4000 \widowpenalty4000
21920 \sfcode`\.=\@m
21921 }{%
21922 \if@bib@break@
21923 \def\@noitemerr{%
21924 \@latex@warning{%
21925 \string\BreakBibliography\space at begin of `thebibliography'
21926 environment\MessageBreak
21927 or following \string\BreakBibliography}%

```



```

21928 }%
21929 \else
21930   \def\@noitemerr{%
21931     \@latex@warning{%
21932       Empty `thebibliography' environment or
21933       \string\BreakBibliography\MessageBreak
21934       before end of `thebibliography' environment}%
21935   }%
21936 \fi
21937 \endlist
21938 \if@bib@break@
21939 \else
21940   \bib@after@hook
21941   \let\bib@before@hook\@empty
21942   \let\bib@after@hook\@empty
21943 \fi
21944 \bib@endhook
21945 }
21946 \renewcommand*{\raggeddictum}{\if@RTL\raggedright\else\raggedleft\fi}
21947 \renewcommand*{\raggeddictumtext}{\if@RTL\raggedleft\else\raggedright\fi}
21948 \renewcommand*{\raggeddictumauthor}{\if@RTL\raggedright\else\raggedleft\fi}
21949 \renewcommand\marginline[1]{%
21950   \marginpar[\if@RTL\raggedright\else\raggedleft\fi{#1}]{\if@RTL\raggedleft\else\raggedright
21951 }
21952 \renewcommand{\@makecaption}[3]{%
21953   \cap@margin
21954   \begingroup
21955     \ifonelinecaptions
21956       \def\stepcounter##1{\advance\value{##1}\@ne}%
21957       \let\refstepcounter\stepcounter
21958       \let\label\@gobble
21959       \let\@footnotetext=\@gobble
21960       \let\@LTRfootnotetext=\@gobble
21961       \let\@RTLfootnotetext=\@gobble
21962       \let\hypertarget\@gobbletwo
21963       \edef\xnewline{%
21964         \unexpanded{\ClassInfo{\KOMAClassName}}{%
21965           Workaround for not recommended usage of \string\\ or\MessageBreak
21966           \string\newline in caption text
21967         }%
21968         \hspace*{\linewidth}\hspace{1sp}%
21969       }%
21970       \unexpanded\expandafter{\@xnewline}%
21971     }%
21972     \edef\@xcentercr{%
21973       \unexpanded{\ClassInfo{\KOMAClassName}}{%
21974         Workaround for not recommended usage of \string\\ or\MessageBreak
21975         \string\newline in caption text
21976       }%
21977       \hspace*{\linewidth}\hspace{1sp}%
21978     }%
21979     \unexpanded\expandafter{\@xcentercr}%
21980   }%
21981   \settowidth{\@tempdima}{\scr@makesinglelinecaption{#1}{#2}{#3}}%

```



```

21982     \ifdim\@tempdima>\cap@width
21983     \aftergroup\scr@makemultilinecaption
21984     \else
21985     \aftergroup\scr@makesinglelinecaption
21986     \fi
21987     \else
21988     \aftergroup\scr@makemultilinecaption
21989     \fi
21990 \endgroup
21991 {#1}{#2}{#3}%
21992 }
21993 \renewcommand{\scr@makesinglelinecaption}[3]{%
21994   {%
21995     \usefontofkomafont{caption}{%
21996       \hb@xt@{\hsize{%
21997         \cap@left
21998         \if@RTL
21999         \beginR
22000         \fi
22001         \scr@@makesinglelinecaption{#1}{#2}{#3}%
22002         \if@RTL
22003         \endR
22004         \fi
22005         \cap@right
22006       }}\par\kern\dp\strutbox%
22007     }%
22008   }\kern-\dp\strutbox
22009 }
22010 \renewcommand{\@makecaption}[2]{%
22011   \if@captionabove
22012     \vskip\belowcaptionskip
22013   \else
22014     \vskip\abovecaptionskip
22015   \fi
22016   \@makecaption\@firstofone{#1}{#2}%
22017   \if@captionabove
22018     \vskip\abovecaptionskip
22019   \else
22020     \vskip\belowcaptionskip
22021   \fi
22022 }
22023
22024 \renewcommand{\scr@makesinglelinecaption}[3]{%
22025   {\usekomafont{caption}{\strut\ignorespaces
22026     #1{\usekomafont{captionlabel}{#2\captionformat}}}%
22027   \ignorespaces #3\unskip}}%
22028 }
22029
22030 \renewcommand{\scr@makemultilinecaption}[3]{%
22031   {%
22032     \usefontofkomafont{caption}{%
22033       \hb@xt@{\hsize{%
22034         \cap@left
22035         \vbox{\hsize\cap@width\linewidth\hsize

```



```

22036 \scr@ifundefinedorrelax{@captype}{%
22037 \ClassWarning{\KOMAClassName}{%
22038   \string\caption' outside float.\MessageBreak
22039   Seems you are using \string\caption' outside a
22040   float.\MessageBreak
22041   Maybe you are using a package that uses
22042   \string\@makecaption'\MessageBreak
22043   without setting \string\@captype' before.\MessageBreak
22044   Because I cannot detect the caption type, I'm using\MessageBreak
22045   the empty one.%
22046 }%
22047 \let\@captype\@empty
22048 }{}%
22049 \scr@ifundefinedorrelax{ragged\@captype caption}{\raggedcaption}{%
22050 \@nameuse{ragged\@captype caption}%
22051 }%
22052 \ifdofullc@p
22053 \@hangfrom{%
22054 \strut
22055 \scr@smashdp{%
22056 #1{%
22057 \usekomafont{caption}{%
22058 \usekomafont{captionlabel}{#2\captionformat}%
22059 }%
22060 }%
22061 }%
22062 }%
22063 {\usekomafont{caption}{#3\scr@endstrut}}\par}%
22064 \else
22065 \ifdim\cap@indent<\z@
22066 \strut
22067 #1{%
22068 {\usekomafont{caption}{%
22069 \usekomafont{captionlabel}{#2\captionformat}%
22070 }%
22071 }\par}%
22072 \noindent{\usekomafont{caption}{%
22073 \hspace*{-\cap@indent}#3\scr@endstrut
22074 }}\par}%
22075 \else
22076 \if@capbreak
22077 \strut
22078 #1{%
22079 {\usekomafont{caption}{%
22080 \usekomafont{captionlabel}{#2\captionformat}%
22081 }%
22082 }\par}%
22083 \noindent\@hangfrom{\hspace*{\cap@indent}}%
22084 {\usekomafont{caption}{#3\scr@endstrut}}\par}%
22085 \else
22086 \@hangfrom{\scr@smashdp\strut\hspace*{\cap@indent}}%
22087 {%
22088 \hspace{-\cap@indent}%
22089 \scr@smashdp{%

```



```

22090             #1{\usekomafont{caption}{%
22091               \usekomafont{captionlabel}{#2\captionformat}%
22092             }%
22093           }%
22094         }%
22095         {{\usekomafont{caption}{#3\scr@endstrut}}\par}%
22096       }%
22097     \fi
22098   \fi
22099 \fi
22100 }%
22101   \cap@right
22102 } \par \kern \dp \strutbox
22103 }%
22104 } \kern - \dp \strutbox
22105 }
22106
22107
22108 \bidi@AfterFile{longtable-xetex-bidi.def}{%
22109   \if@komalongtable
22110     \renewcommand{\LT@makecaption}[3]{%
22111       \noalign{%
22112         \if@captionabove
22113           \vskip\belowcaptionskip
22114         \else
22115           \vskip\abovecaptionskip
22116         \fi
22117       }%
22118       \LT@mc{\LT@cols}{%
22119         \hbox to \z@{\hss\parbox[t]{\linewidth}{%
22120           \def\@c@type{table}%
22121           \@makecaption{#1}{#2}{#3}%
22122           \endgraf
22123           \if@captionabove
22124             \vskip\abovecaptionskip
22125           \else
22126             \vskip\belowcaptionskip
22127           \fi
22128         }%
22129         \hss
22130       }%
22131     }%
22132   }%
22133   \renewcommand*{\scr@LT@array}{}%
22134   \let\scr@LT@array=\LT@array
22135   \renewcommand*{\LT@array}{%
22136     \let\scr@caption=\LT@caption
22137     \def\captionabove{\noalign{\global\@captionabovetrue}%
22138       \scr@caption}%
22139     \def\captionbelow{\noalign{\global\@captionabovetrue}%
22140       \scr@caption}%
22141     \if@tablecaptionabove
22142       \let\LT@caption=\captionabove
22143     \else

```



```

22144         \let\LT@caption=\captionbelow
22145         \fi
22146         \scr@LT@array
22147     }%
22148     \ClassInfo{\KOMAClassName}{%
22149         longtable captions redefined%
22150     }%
22151 \fi
22152 }
22153
22154 \CloneTOCEntryStyle{tocline}{part}
22155 \TOCEntryStyleStartInitCode{part}{%
22156     \expandafter\renewcommand%
22157     \csname scr@tso@#1@linefill\endcsname{\hfill}%
22158     \expandafter\renewcommand%
22159     \csname scr@tso@#1@entryformat\endcsname[1]{\usekomafont{partentry}{##1}}%
22160     \expandafter\renewcommand%
22161     \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
22162         {\usekomafont{partentry}{\usekomafont{partentrypagenumber}{##1}}}%
22163     \expandafter\renewcommand\expandafter*%
22164     \csname scr@tso@#1@beforeskip\endcsname{2.25em \@plus\p}%
22165 }
22166
22167 \CloneTOCEntryStyle{tocline}{chapter}
22168 \TOCEntryStyleStartInitCode{chapter}{%
22169     \expandafter\renewcommand%
22170     \csname scr@tso@#1@linefill\endcsname{%
22171         \if@chapterentrywithdots
22172             {\usekomafont{chapterentrydots}{\TOCLineLeaderFill}}\relax
22173         \else
22174             \hfill
22175         \fi
22176     }%
22177     \expandafter\renewcommand%
22178     \csname scr@tso@#1@entryformat\endcsname{\usekomafont{chapterentry}}%
22179     \expandafter\renewcommand%
22180     \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
22181         {\usekomafont{chapterentry}{\usekomafont{chapterentrypagenumber}{##1}}}%
22182     \expandafter\renewcommand\expandafter*%
22183     \csname scr@tso@#1@beforeskip\endcsname{1.0em \@plus\p}%
22184 }
22185
22186 \CloneTOCEntryStyle{tocline}{section}
22187 \TOCEntryStyleStartInitCode{section}{%
22188     \expandafter\renewcommand%
22189     \csname scr@tso@#1@linefill\endcsname{\TOCLineLeaderFill\relax}%
22190     \expandafter\renewcommand%
22191     \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
22192         {\normalfont\normalcolor ##1}}%
22193 }
22194
22195 \CloneTOCEntryStyle{section}{default}
22196
22197 \DeclareSectionCommand[%

```



```

22198 style=chapter,%
22199 level=\z@,%
22200 pagestyle=plain,%
22201 tocstyle=chapter,%
22202 tocindent=\z@,%
22203 tocnumwidth=1.5em%
22204 ]{chapter}
22205 \DeclareSectionCommand[%
22206 style=section,%
22207 level=1,%
22208 indent=\z@,%
22209 beforekip=-3.5ex \@plus -1ex \@minus -.2ex,%
22210 afterskip=2.3ex \@plus .2ex,%
22211 tocstyle=section,%
22212 tocindentfollows=chapter,%
22213 tocindent=1.5em,%
22214 tocnumwidth=2.3em%
22215 ]{section}
22216 \DeclareSectionCommand[%
22217 style=part,%
22218 level=\m@ne,%
22219 pagestyle=plain,%
22220 tocstyle=part,%
22221 toplevel=\m@ne,%
22222 tocindent=\z@,%
22223 tocnumwidth=2em%
22224 ]{part}
22225 \DeclareSectionCommand[%
22226 style=section,%
22227 level=2,%
22228 indent=\z@,%
22229 beforekip=-3.25ex \@plus -1ex \@minus -.2ex,%
22230 afterskip=1.5ex \@plus .2ex,%
22231 tocstyle=section,%
22232 tocindent=3.8em,%
22233 tocnumwidth=3.2em%
22234 ]{subsection}
22235 \DeclareSectionCommand[%
22236 style=section,%
22237 level=3,%
22238 indent=\z@,%
22239 beforekip=-3.25ex \@plus -1ex \@minus -.2ex,%
22240 afterskip=1.5ex \@plus .2ex,%
22241 tocstyle=section,%
22242 tocindent=7.0em,%
22243 tocnumwidth=4.1em%
22244 ]{subsubsection}
22245 \DeclareSectionCommand[%
22246 style=section,%
22247 level=4,%
22248 indent=\z@,%
22249 beforekip=3.25ex \@plus 1ex \@minus .2ex,%
22250 afterskip=-1em,%
22251 tocindentfollows=subsubsection,%

```



```

22252   tostyle=section,%
22253   tocindent=10em,%
22254   tocnumwidth=5em%
22255 ]{paragraph}
22256 \DeclareSectionCommand[%
22257   style=section,%
22258   level=5,%
22259   indent=\scr@parindent,%
22260   beforekip=3.25ex \@plus1ex \@minus .2ex,%
22261   afterskip=-1em,%
22262   tostyle=section,%
22263   tocindent=12em,%
22264   tocnumwidth=6em%
22265 ]{subparagraph}

```

## 144 File sidecap-xetex-bidi.def

```

22266 \ProvidesFile{sidecap-xetex-bidi.def}[2010/08/01 v0.1 bidi adaptations for sidecap package f
22267 \renewcommand*{\SC@FLOAT}[2]{\if@RTL%
22268   \isSC@ODD{#1}\hspace{\sidecaptionsep}{#2}} {{#2}\hspace{\sidecaptionsep}{#1}}\else%
22269 \isSC@ODD{#2}\hspace{\sidecaptionsep}{#1}} {{#1}\hspace{\sidecaptionsep}{#2}}\fi}
22270 \renewcommand*{\SC@justify@caption}{\if@RTL%
22271 \isSC@ODD{\RaggedLeft}{\RaggedRight}}\else%
22272   \isSC@ODD{\RaggedRight}{\RaggedLeft}}\fi}

```

## 145 File soul-xetex-bidi.def

```

22273 \ProvidesFile{soul-xetex-bidi.def}[2015/10/16 v0.1 bidi adaptations for soul package for XeT
22274 \long\def\SOUL@start#1{%
22275   \let\bid@RTL@everypar\@empty
22276   \let\<\SOUL@lowerthan
22277   \let\>\empty
22278   \def\soulomit{\noexpand\soulomit}%
22279   \gdef\SOUL@eventuallyexhyphen##1{%
22280     \let\SOUL@soeventuallyskip\relax
22281     \SOUL@spaceskip=\fontdimen\tw@\font\@plus\fontdimen\thr@\font
22282       \@minus\fontdimen4\font
22283     \SOUL@ignorespacesfalse
22284     \leavevmode
22285     \SOUL@preamble
22286     \SOUL@lasttoken={}%
22287     \SOUL@word={}%
22288     \SOUL@minus\z@
22289     \SOUL@comma\z@
22290     \SOUL@apo\z@
22291     \SOUL@grave\z@
22292     \SOUL@do{#1}%
22293     \SOUL@postamble
22294 }}
22295 \def\SOUL@ulunderline#1{%
22296   \setbox\z@\hbox{#1}%
22297   \dimen@=\wd\z@
22298   \dimen@i=\SOUL@uloverlap
22299   \advance\dimen@2\dimen@i

```



```

22300 \if@RTL
22301 \unhcopy\z@
22302 \llap{%
22303 \null
22304 \kern-\dimen@i
22305 \SOUL@ulcolor{\SOUL@ulleaders\hskip\dimen@}%
22306 }%
22307 \else
22308 \rlap{%
22309 \null
22310 \kern-\dimen@i
22311 \SOUL@ulcolor{\SOUL@ulleaders\hskip\dimen@}%
22312 }%
22313 \unhcopy\z@
22314 \fi
22315 }}
22316 \def\bidi@SOUL@ulleaders{%
22317 \leaders\hb@xt@0.1pt{\hss\SOUL@ulcolor{\vrule\@depth\SOUL@uldp\@height\SOUL@ulht}\hss}\r
22318 }
22319 \def\SOUL@uleveryspace#1{%
22320 \if@RTL
22321 #1%
22322 \bidi@SOUL@ulleaders
22323 \hskip\spaceskip
22324 \else
22325 \SOUL@ulcolor{%
22326 #1%
22327 \SOUL@ulleaders
22328 \hskip\spaceskip
22329 }%
22330 \fi
22331 \null
22332 }

```

## 146 File stabular-xetex-bidi.def

```

22333 \ProvidesFile{stabular-xetex-bidi.def}[2015/11/07 v0.3 bidi adaptations for stabular package]
22334 \def\@stabular{%
22335 \leavevmode \bgroup \if@RTLtab\beginR \fi
22336 \let\@acol\@tabacol
22337 \let\@classz\@tabclassz
22338 \let\@classiv\@tabclassiv \let\\\@tabularcr\@stabarray}
22339 \def\endstabular{\crr\egroup\if@RTLtab\egroup\endR\egroup\fi
22340 \egroup \if@RTLtab\endR\fi\egroup}
22341 \expandafter \let \csname endstabular*\endcsname = \endstabular
22342 \def\@sarray[#1]#2{%
22343 \bgroup
22344 \setbox\@arstrutbox\hbox{%
22345 \vrule \@height\arraystretch\ht\strutbox
22346 \@depth\arraystretch \dp\strutbox
22347 \@width\z@}%
22348 \mkpream{#2}%
22349 \edef\@preamble{%
22350 \ialign \noexpand\@halignto

```



```

22351 \bgroup \@arstrut \@preamble \tabskip\z@skip \cr}%
22352 \let\@startpbox\@startpbox \let\@endpbox\@endpbox
22353 \let\tabularnewline\\%
22354 \let\@sharp##%
22355 \set@typeset@protect
22356 \lineskip\z@skip\baselineskip\z@skip
22357 \if@RTLtab\hbox\bgroup\beginR\@hboxRconstructtrue\if #1t\vtop \else \vbox \fi\bgroup\fi
22358 \@preamble}

```

## 147 File subfigure-xetex-bidi.def

```

22359 \ProvidesFile{subfigure-xetex-bidi.def}[2010/03/01 v0.1 bidi adaptations for subfigure packa
22360 \AtBeginDocument{%
22361 \let\p@subfigure=\thefigure
22362 \let\p@subtable=\thetable%
22363 }

```

## 148 File tabs-xetex-bidi.def

```

22364 \ProvidesFile{tabs-xetex-bidi.def}[2015/11/07 v0.3 bidi adaptations for tabs package for X
22365 \def\endtabular{\endarray $\if@RTLtab\endR\fi\egroup}
22366
22367 \expandafter\let\csname endtabular*\endcsname=\endtabular
22368
22369 \def\endarray{\ifvmode\csname crcr\endcsname % just do \crr if \ given
22370 \else \[\z@ \global\advance\@arstdepth-\@otarlinesep]%
22371 \fi\egroup\if@RTLtab\egroup\endR\egroup\fi\@unrecurse\egroup}
22372
22373 \def\@array[#1]#2{% remember global variables to allow recursion:
22374 \edef\@unrecurse{\global\@skip@bove\the\@skip@bove
22375 \global\@arstheight\the\@arstheight\global\@arstdepth\the\@arstdepth}%
22376 \let\@otarlinesep\@tarlinesep \global\@skip@bove-\@otarlinesep
22377 \ifx\@classz\@arrayclassz \let\@tarlinesep\arraylinesep
22378 \else \let\@tarlinesep\tablinesep \fi
22379 \divide\@tarlinesep\tw@ % half sep is applied to height & depth
22380 \let\@seesize\relax \let\@rememsize\relax \mkpream{#2}%
22381 \@tempdima\arraystretch\ht\strutbox \@tempdimb\arraystretch\dp\strutbox
22382 \ifdim\@tarlinesep>\z@ % (need \protect for \multicolumn)
22383 \def\@rememsize{\protect\@r@m@msize}\let\@seesize\@s@size
22384 \advance\@tempdima-\@tarlinesep \advance\@tempdimb-\@tarlinesep
22385 \fi \setbox\@arstrutbox\hbox{% set up smaller strut
22386 \vrule \@height\@tempdima \@depth\@tempdimb \@width\z@}%
22387 \let\protect\noexpand
22388 \edef\@preamble{\ialign \noexpand\@halignto \bgroup
22389 \unhcopy\@arstrutbox \@preamble \tabskip\z@skip &\@sharp \cr}%
22390 \let\@startpbox\@startpbox \let\@endpbox\@endpbox
22391 \if#1t\vtop \else \if#1b\vbox \else \vcenter \fi\fi
22392 \bgroup \let\par\@empty
22393 \global\@arstheight\ht\@arstrutbox \global\@arstdepth\dp\@arstrutbox
22394 \advance\extrarulesep.5\arrayrulewidth
22395 \let\@sharp##\let\protect\relax \lineskip\z@skip \baselineskip\z@skip
22396 \if@RTLtab\hbox\bgroup\beginR\@hboxRconstructtrue\if#1t\vtop \else \vbox \fi\bgroup\fi
22397 \@preamble}

```



## 149 File tabularx-xetex-bidi.def

```

22398 \ProvidesFile{tabularx-xetex-bidi.def}[2014/11/08 v0.1 bidi adaptations for tabularx package]
22399 \def\TX@endtabularx{%
22400   \expandafter\expandafter\expandafter
22401     \TX@find@endtabularxa\csname end\TX@\endcsname
22402     \endtabularx\TX@\endtabularx\TX@find@endtabularxa
22403   \expandafter\TX@newcol\expandafter{\tabularxcolumn{\TX@col@width}}%
22404   \let\verb\TX@verb
22405   \def\@elt##1{\global\value{##1}\the\value{##1}\relax}%
22406   \edef\TX@ckpt{\cl@ckpt}%
22407   \let\@elt\relax
22408   \TX@old@table\maxdimen
22409   \TX@col@width\TX@target
22410   \global\TX@cols\@ne
22411   \TX@typeout@
22412     {\@spaces Table Width\@spaces Column Width\@spaces X Columns}%
22413   \TX@trial{\def\NC@rewrite@X{%
22414     \global\advance\TX@cols\@ne\NC@find p{\TX@col@width}}}%
22415   \loop
22416     \TX@arith
22417     \ifTX@
22418     \TX@trial{%
22419   \repeat
22420   {\let\@footnotetext\TX@ftntext\let\@xfootnotenext\TX@xftntext
22421     \let\@LTRfootnotetext\TX@LTRftntext\let\@xLTRfootnotenext\TX@xLTRftntext
22422     \let\@RTLfootnotetext\TX@RTLftntext\let\@xRTLfootnotenext\TX@xRTLftntext
22423     \csname tabular*\expandafter\endcsname\expandafter\TX@target
22424       \the\toks@
22425     \csname endtabular*\endcsname}%
22426   \global\TX@ftn\expandafter{\expandafter}\the\TX@ftn
22427   \ifnum0=\fi}%
22428   \expandafter\expandafter\expandafter
22429   \TX@find@endtabularxbb
22430   \expandafter\end\expandafter{\TX@}%
22431   \endtabularx\TX@\endtabularx\TX@find@endtabularxb
22432 }
22433
22434 \def\TX@trial#1{%
22435   \setbox\@tempboxa\hbox{%
22436     #1\relax
22437   \let\@footnotetext\TX@trial@ftn
22438   \let\@LTRfootnotetext\TX@trial@ftn
22439   \let\@RTLfootnotetext\TX@trial@ftn
22440   \let\TX@vwarn\@empty
22441   \expandafter\let\expandafter\tabularx\csname tabular*\endcsname
22442   \expandafter\let\expandafter\endtabularx\csname endtabular*\endcsname
22443   \def\write{\begingroup
22444     \def\let{\afterassignment\endgroup\toks@}%
22445     \afterassignment\let\count@}%
22446     \hbadness\@M
22447     \hfuzz\maxdimen
22448     \let\hbadness\@tempcnta
22449     \let\hfuzz\@tempdima

```



```

22450 \expandafter\tabular\the\toks@
22451 \endtabular}%
22452 \TX@ckpt
22453 \TX@typeout@{\@spaces
22454 \expandafter\TX@align
22455 \the\wd\@tempboxa\space\space\space\space\space\@@
22456 \expandafter\TX@align
22457 \the\TX@col@width\space\space\space\space\space\@@
22458 \@spaces\the\TX@cols}}
22459
22460 \long\def\TX@LTRftntext#1{%
22461 \edef\@tempa{\the\TX@ftn\noexpand\LTRfootnotetext
22462 [\the\csname c@\@mpfn\endcsname]}%
22463 \global\TX@ftn\expandafter{\@tempa{#1}}}%
22464 \long\def\TX@xLTRftntext[#1]#2{%
22465 \global\TX@ftn\expandafter{\the\TX@ftn\LTRfootnotetext[#1]{#2}}}
22466
22467 \long\def\TX@RTLftntext#1{%
22468 \edef\@tempa{\the\TX@ftn\noexpand\RTLfootnotetext
22469 [\the\csname c@\@mpfn\endcsname]}%
22470 \global\TX@ftn\expandafter{\@tempa{#1}}}%
22471 \long\def\TX@xRTLftntext[#1]#2{%
22472 \global\TX@ftn\expandafter{\the\TX@ftn\RTLfootnotetext[#1]{#2}}}

```

## 150 File tabulary-xetex-bidi.def

```

22473 \ProvidesFile{tabulary-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for tabulary package]
22474 \def\@testpach{\@chclass
22475 \ifnum \@lastchclass=6 \@ne \@chnum \@ne \else
22476 \ifnum \@lastchclass=7 5 \else
22477 \ifnum \@lastchclass=8 \tw@ \else
22478 \ifnum \@lastchclass=9 \thr@@
22479 \else \z@
22480 \ifnum \@lastchclass = 10 \else
22481 \edef\@nextchar{\expandafter\string\@nextchar}%
22482 \@chnum
22483 \if \@nextchar c\z@ \else
22484 \if \@nextchar \if@RTLtab r\else l\fi\@ne \else
22485 \if \@nextchar \if@RTLtab l\else r\fi\@tw@ \else
22486 \if \@nextchar C7 \else
22487 \if \@nextchar L8 \else
22488 \if \@nextchar R9 \else
22489 \if \@nextchar J10 \else
22490 \z@ \@chclass
22491 \if \@nextchar |\@ne \else
22492 \if \@nextchar !6 \else
22493 \if \@nextchar @7 \else
22494 \if \@nextchar <8 \else
22495 \if \@nextchar >9 \else
22496 10
22497 \@chnum
22498 \if \@nextchar m\thr@@\else
22499 \if \@nextchar p4 \else
22500 \if \@nextchar b5 \else

```



```

22501 \z@ \@chclass \z@ \@preamerr \z@ \fi \fi \fi \fi \fi \fi \fi \fi
22502 \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi}

```

## 151 File tc-xetex-bidi.def

```

22503 \ProvidesFile{tc-xetex-bidi.def}[2014/07/08 v0.1 bidi adaptations for Clipping driver for Xe
22504 \def\@cliptoboxdim#1{%
22505   \setbox#1=\hbox{%
22506     \Gin@defaultbp\WIDTH{\wd#1}%
22507     \Gin@defaultbp\DEPTH{\dp#1}%
22508     \@tempdima\ht#1%
22509     \advance\@tempdima\dp#1%
22510     \Gin@defaultbp\TOTALHEIGHT{\@tempdima}%
22511     \beginL\special{pdf:bcontent }%
22512     \special{%
22513       pdf:literal direct
22514       0 -\DEPTH\space \WIDTH\space \TOTALHEIGHT\space re
22515     }%
22516     \special{pdf:literal direct W }%
22517     \special{pdf:literal direct n }%
22518     \if@RTL\beginR\fi\box#1\if@RTL\endR\fi%
22519     \special{pdf:econtent }\endL%
22520   }%
22521 }

```

## 152 File tcolorbox-xetex-bidi.def

```

22522 \ProvidesFile{tcolorbox-xetex-bidi.def}[2018/11/11 v0.2 bidi adaptations for tcolorbox packa
22523 \let\endtcbox@lrbox=\endminipage
22524 \let\endtcbox@savebox=\endtcbox@lrbox
22525
22526 \bidi@patchcmd{\tcboxvbox}{%
22527   \let\@footnotetext\@mpfootnotetext%
22528 }{%
22529   \let\@footnotetext\@mpfootnotetext%
22530   \let\@LTRfootnotetext\@mpLTRfootnotetext%
22531   \let\@RTLfootnotetext\@mpRTLfootnotetext%
22532 }{}{}
22533
22534 \bidi@patchcmd{\endtcboxvbox}{%
22535   \footnoterule%
22536 }{%
22537   \bidi@mpfootnoterule%
22538 }{}{}
22539 \bidi@apptocmd\tcbox@icolorbox{%
22540   \@bidi@list@minipage@parboxfalse
22541 }{}{}

```

## 153 File titlesec-xetex-bidi.def

```

22542 \ProvidesFile{titlesec-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for titlesec package
22543 \renewcommand\filright{%
22544   \gdef\ttl@filleft##1{\hskip##1}%
22545   \gdef\ttl@filright##1{\hfill}%

```



```

22546 \let\\\@centercr
22547 \advance\rightskip\z@ \@plus 1fil
22548 \parfillskip\z@}
22549 \def\ttlh@hang#1#2#3#4#5#6#7#8{%
22550 \gdef\ttl@makeline##1{\ttl@calc\hspace{#6}##1\ttl@calc\hspace{#7}}%
22551 \setlength\leftskip{#6}%
22552 \setlength\rightskip{#7}%
22553 \interlinepenalty\@M
22554 \ttl@change@centercr
22555 \ttl@beginlongest
22556 #1{\ifhmode\ttl@hmode@error\fi
22557 \ttl@glcmds
22558 \parindent\z@
22559 \leavevmode
22560 \begin@group
22561 \ifttl@label
22562 \sbox\z@{#2\strut\ttl@calc\hspace{#3}}%
22563 \if@RTL\advance\rightskip\wd\z@\else\advance\leftskip\wd\z@\fi
22564 \llap{\box\z@}%
22565 \fi
22566 #4{#8}%
22567 \kern\z@\strut\@par
22568 \endgroup
22569 \nobreak\ttl@midlongest#5\@par}%
22570 \ttl@endlongest}

```

## 154 File titletoc-xetex-bidi.def

```

22571 \ProvidesFile{titletoc-xetex-bidi.def}[2013/04/10 v0.2 bidi adaptations for titletoc package]
22572 \renewcommand\filright{%
22573 \gdef\ttl@filleft##1{\hskip##1}%
22574 \gdef\ttl@filright##1{\hfill}%
22575 \let\\\@centercr
22576 \advance\rightskip\z@ \@plus 1fil
22577 \parfillskip\z@}
22578 \renewcommand\contentspush[1]{%
22579 \sbox\z@{#1}%
22580 \xdef\ttl@b{\advance\if@RTL\rightskip\else\leftskip\fi\the\wd\z@}%
22581 \aftergroup\ttl@b
22582 \leavevmode\llap{\box\z@}}
22583 \def\ttl@outnoblock#1#2#3{%
22584 \begin@group
22585 \ifnum\ttl@b>\ttl@a
22586 \nobreak
22587 \else\ifnum\ttl@b<\ttl@a
22588 \addpenalty{\@secpenalty}%
22589 \else
22590 \addpenalty{\z@}%
22591 \fi\fi
22592 \ttl@contentsstretch
22593 \nobreak
22594 \ifcase#1\relax\else\interlinepenalty\@M\fi
22595 \parindent\z@
22596 \ifx\@nil#2%

```



```

22597 \PackageError{titletoc}{Unimplemented}%
22598 {The optional argument is currently mandatory}%
22599 \else
22600 \if@RTL\setlength\rightskip{#2}\else
22601 \setlength\leftskip{#2}\fi%
22602 \fi
22603 \if@RTL\setlength\leftskip{\@pnumwidth}\else\setlength\rightskip{\@pnumwidth}\fi%
22604 \let\contentsmargin\ttl@margin
22605 \def\ttl@makeline##1{##1}%
22606 #3%
22607 \addtolength{\parfillskip}{-ttl@corr}%
22608 \if@RTL\addtolength{\leftskip}{\ttl@corr}\else\addtolength{\rightskip}{\ttl@corr}\fi%
22609 \let\ttl@leaders\leaders}
22610 \renewcommand\ttl@margin[2][\z@]{%
22611 \def\ttl@corr{#1}%
22612 \advance\if@RTL\leftskip\else\rightskip\fi-\@pnumwidth\relax
22613 \advance\if@RTL\leftskip\else\rightskip\fi#2\relax
22614 \def\@pnumwidth{#2}}
22615 \let\ttl@savel@part\l@part
22616 \def\l@part{\ttl@lselect{part}}
22617
22618 \let\ttl@savel@chapter\l@chapter
22619 \def\l@chapter{\ttl@lselect{chapter}}

```

## 155 File tocbibbind-xetex-bidi.def

```

22620 \ProvidesFile{tocbibbind-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for tocbibbind packa
22621 \if@dotocbib
22622 \if@packageloaded{natbib}{\% natbib not loaded
22623 \renewcommand{\bibsection}{\tcb@cb@bchapsec}
22624 \renewenvironment{thebibliography}[1]{%
22625 \bibsection
22626 \begin{thebibitemlist}{#1}{\end{thebibitemlist}}}
22627 \renewenvironment{thebibitemlist}[1]{
22628 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
22629 \bidi@thebibliography@font@hook%
22630 \list{\@biblabel{\@arabic{c@enumiv}}}%
22631 {\settowidth\labelwidth{\@biblabel{#1}}%
22632 \leftmargin\labelwidth
22633 \advance\leftmargin\labelsep
22634 \@openbib@code
22635 \usecounter{enumiv}%
22636 \let\p@enumiv\@empty
22637 \renewcommand\theenumiv{\@arabic{c@enumiv}}}%
22638 \sloppy
22639 \clubpenalty4000
22640 \@clubpenalty \clubpenalty
22641 \widowpenalty4000%
22642 \sfcode`\.\@m}
22643 {\def\@noitemerr
22644 {\@latex@warning{Empty `thebibliography' environment}}}%
22645 \endlist}
22646
22647 \if@packagewith{chapterbib}{sectionbib}%

```



```

22648     {\renewcommand{\sectionbib}[2]{}}%
22649     {}
22650
22651 \fi
22652 \if@inltxdoc\else
22653   \renewenvironment{theindex}%
22654     {\if@twocolumn
22655       \@restonecolfalse
22656     \else
22657       \@restonecoltrue
22658     \fi
22659     \if@bibchapter
22660       \if@donumindex
22661         \refstepcounter{chapter}
22662         \twocolumn[\vspace*{2\topskip}%
22663           \@makechapterhead{\indexname}]]%
22664         \addcontentsline{toc}{chapter}{\protect\numberline{\thechapter}\indexname}
22665         \chaptermark{\indexname}
22666       \else
22667         \if@dotocind
22668           \twocolumn[\vspace*{2\topskip}%
22669             \@makeschapterhead{\indexname}]]%
22670           \prw@mkboth{\indexname}
22671           \addcontentsline{toc}{chapter}{\indexname}
22672         \else
22673           \twocolumn[\vspace*{2\topskip}%
22674             \@makeschapterhead{\indexname}]]%
22675           \prw@mkboth{\indexname}
22676         \fi
22677       \fi
22678     \else
22679       \if@donumindex
22680         \twocolumn[\vspace*{-1.5\topskip}%
22681           \@nameuse{\@tocextra}{\indexname}]]%
22682         \csname \@tocextra mark\endcsname{\indexname}
22683       \else
22684         \if@dotocind
22685           \twocolumn[\vspace*{-1.5\topskip}%
22686             \toc@headstar{\@tocextra}{\indexname}]]%
22687           \prw@mkboth{\indexname}
22688           \addcontentsline{toc}{\@tocextra}{\indexname}
22689         \else
22690           \twocolumn[\vspace*{-1.5\topskip}%
22691             \toc@headstar{\@tocextra}{\indexname}]]%
22692           \prw@mkboth{\indexname}
22693         \fi
22694       \fi
22695     \fi
22696     \thispagestyle{plain}\parindent\z@
22697     \parskip\z@ \@plus .3\p@\relax
22698     \let\item\@idxitem}
22699   {\if@restonecol\onecolumn\else\clearpage\fi}
22700 \fi

```



## 156 File tocloft-xetex-bidi.def

```

22701 \ProvidesFile{tocloft-xetex-bidi.def}[2010/07/25 v0.2 bidi adaptations for tocloft package f
22702 \let\cftdot\@SepMark
22703 \if@cfthaspart
22704 \renewcommand*{\l@part}[2]{
22705   \@cftdopartfalse
22706   \ifnum \c@tocdepth >-2\relax
22707     \if@cfthaschapter
22708       \@cftdoparttrue
22709     \fi
22710     \ifnum \c@tocdepth >\m@ne
22711       \if@cfthaschapter\else
22712         \@cftdoparttrue
22713       \fi
22714     \fi
22715   \fi
22716   \if@cftdopart
22717     \if@cfthaschapter
22718       \addpenalty{-\@highpenalty}
22719     \else
22720       \addpenalty\@secpenalty
22721     \fi
22722     \addvspace{\cftbeforepartskip}
22723     \begingroup
22724       {\if@RTL\rightskip\else\leftskip\fi \cftpartindent\relax
22725        \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
22726        \parfillskip -\if@RTL\leftskip\else\rightskip\fi
22727        \parindent \cftpartindent\relax\@afterindenttrue
22728        \interlinepenalty\@M
22729        \leavevmode
22730        \@tempdima \cftpartnumwidth\relax
22731        \let\@cftbsnum \cftpartpresnum
22732        \let\@cftasnum \cftpartaftersnum
22733        \let\@cftasnumb \cftpartaftersnumb
22734        \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\ri
22735        {\cftpartfont \cftpartpresnum #1}
22736        \cftpartfillnum{#2}}
22737     \nobreak
22738     \if@cfthaschapter
22739       \global\@nobreaktrue
22740       \everypar{\global\@nobreakfalse\everypar{}}
22741     \else
22742       \if@compatibility
22743         \global\@nobreaktrue
22744         \everypar{\global\@nobreakfalse\everypar{}}
22745       \fi
22746     \fi
22747   \endgroup
22748 \fi}
22749 \fi
22750 \if@cfthaschapter
22751 \renewcommand*{\l@chapter}[2]{
22752   \ifnum \c@tocdepth >\m@ne

```



```

22753 \addpenalty{-\@highpenalty}
22754 \vskip \cftbeforechapskip
22755 {\if@RTL\righskip\else\leftskip\fi \cftchapindent\relax
22756 \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
22757 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
22758 \parindent \cftchapindent\relax\@afterindenttrue
22759 \interlinepenalty\@M
22760 \leavevmode
22761 \@tempdima \cftchapnumwidth\relax
22762 \let\@cftbsnum \cftchappresnum
22763 \let\@cftasnum \cftchapaftersnum
22764 \let\@cftasnumb \cftchapaftersnumb
22765 \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
22766 {\cftchapfont #1}\nobreak
22767 \cftchapfillnum{#2}}
22768 \fi}
22769 \fi
22770 \renewcommand*{\l@section}[2]{%
22771 \ifnum \c@tocdepth >\z@
22772 \if@cfthaschapter
22773 \vskip \cftbeforesecskip
22774 \else
22775 \addpenalty\@secpenalty
22776 \addvspace{\cftbeforesecskip}
22777 \fi
22778 {\if@RTL\righskip\else\leftskip\fi \cftsecindent\relax
22779 \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
22780 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
22781 \parindent \cftsecindent\relax\@afterindenttrue
22782 \interlinepenalty\@M
22783 \leavevmode
22784 \@tempdima \cftsecnumwidth\relax
22785 \let\@cftbsnum \cftsecpresnum
22786 \let\@cftasnum \cftsecaftersnum
22787 \let\@cftasnumb \cftsecaftersnumb
22788 \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
22789 {\cftsecfont #1}\nobreak
22790 \cftsecfillnum{#2}}
22791 \fi}
22792 \renewcommand*{\l@subsection}[2]{%
22793 \ifnum \c@tocdepth >\@ne
22794 \vskip \cftbeforesubsecskip
22795 {\if@RTL\righskip\else\leftskip\fi \cftsubsecindent\relax
22796 \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
22797 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
22798 \parindent \cftsubsecindent\relax\@afterindenttrue
22799 \interlinepenalty\@M
22800 \leavevmode
22801 \@tempdima \cftsubsecnumwidth\relax
22802 \let\@cftbsnum \cftsubsecpresnum
22803 \let\@cftasnum \cftsubsecaftersnum
22804 \let\@cftasnumb \cftsubsecaftersnumb
22805 \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
22806 {\cftsubsecfont #1}\nobreak

```



```

22807 \cftsubsecfillnum{#2}}
22808 \fi}
22809 \renewcommand*{\l@subsubsection}[2]{%
22810 \ifnum \c@tocdepth >\tw@
22811 \vskip \cftbeforesubsubsecskip
22812 {\if@RTL\rightright\else\leftskip\fi \cftsubsubsecindent\relax
22813 \if@RTL\leftskip\else\rightright\fi \@tocrmarg
22814 \parfillskip -\if@RTL\leftskip\else\rightright\fi
22815 \parindent \cftsubsubsecindent\relax\@afterindenttrue
22816 \interlinepenalty\@M
22817 \leavevmode
22818 \@tempdima \cftsubsubsecnumwidth\relax
22819 \let\@cftbsnum \cftsubsubsecpresnum
22820 \let\@cftasnum \cftsubsubsecaftersnum
22821 \let\@cftasnumb \cftsubsubsecaftersnumb
22822 \advance\if@RTL\rightright\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\rightright
22823 {\cftsubsubsecfont #1}\nobreak
22824 \cftsubsubsecfillnum{#2}}
22825 \fi}
22826 \renewcommand*{\l@paragraph}[2]{%
22827 \ifnum \c@tocdepth >3\relax
22828 \vskip \cftbeforeparaskip
22829 {\if@RTL\rightright\else\leftskip\fi \cftparaindent\relax
22830 \if@RTL\leftskip\else\rightright\fi \@tocrmarg
22831 \parfillskip -\if@RTL\leftskip\else\rightright\fi
22832 \parindent \cftparaindent\relax\@afterindenttrue
22833 \interlinepenalty\@M
22834 \leavevmode
22835 \@tempdima \cftparanumwidth\relax
22836 \let\@cftbsnum \cftparapresnum
22837 \let\@cftasnum \cftparaaftersnum
22838 \let\@cftasnumb \cftparaaftersnumb
22839 \advance\if@RTL\rightright\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\rightright
22840 {\cftparafont #1}\nobreak
22841 \cftparafillnum{#2}}
22842 \fi}
22843 \renewcommand*{\l@subparagraph}[2]{%
22844 \ifnum \c@tocdepth >4\relax
22845 \vskip \cftbeforesubparaskip
22846 {\if@RTL\rightright\else\leftskip\fi \cftsubparaindent\relax
22847 \if@RTL\leftskip\else\rightright\fi \@tocrmarg
22848 \parfillskip -\if@RTL\leftskip\else\rightright\fi
22849 \parindent \cftsubparaindent\relax\@afterindenttrue
22850 \interlinepenalty\@M
22851 \leavevmode
22852 \@tempdima \cftsubparanumwidth\relax
22853 \let\@cftbsnum \cftsubparapresnum
22854 \let\@cftasnum \cftsubparaaftersnum
22855 \let\@cftasnumb \cftsubparaaftersnumb
22856 \advance\if@RTL\rightright\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\rightright
22857 {\cftsubparafont #1}\nobreak
22858 \cftsubparafillnum{#2}}
22859 \fi}
22860 \renewcommand*{\l@figure}[2]{%

```



```

22861 \ifnum \c@lofdepth >\z@
22862 \vskip \cftbeforefigskip
22863 {\if@RTL\righskip\else\leftskip\fi \cftfigindent\relax
22864 \if@RTL\leftskip\else\righskip\fi \@tocrmarg
22865 \parfillskip -\if@RTL\leftskip\else\righskip\fi
22866 \parindent \cftfigindent\relax\@afterindenttrue
22867 \interlinepenalty\@M
22868 \leavevmode
22869 \@tempdima \cftfignumwidth\relax
22870 \let\@cftbsnum \cftfigpresnum
22871 \let\@cftasnum \cftfigaftersnum
22872 \let\@cftasnumb \cftfigaftersnumb
22873 \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
22874 {\cftfigfont #1}\nobreak
22875 \cftfigfillnum{#2}}
22876 \fi
22877 }
22878 \renewcommand*\@l@table}[2]{%
22879 \ifnum \c@lotdepth >\z@
22880 \vskip \cftbeforetabskip
22881 {\if@RTL\righskip\else\leftskip\fi \cfttabindent\relax
22882 \if@RTL\leftskip\else\righskip\fi \@tocrmarg
22883 \parfillskip -\if@RTL\leftskip\else\righskip\fi
22884 \parindent \cfttabindent\relax\@afterindenttrue
22885 \interlinepenalty\@M
22886 \leavevmode
22887 \@tempdima \cfttabnumwidth\relax
22888 \let\@cftbsnum \cfttabpresnum
22889 \let\@cftasnum \cfttabaftersnum
22890 \let\@cftasnumb \cfttabaftersnumb
22891 \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
22892 {\cfttabfont #1}\nobreak
22893 \cfttabfillnum{#2}}
22894 \fi
22895 }
22896 \renewcommand*\@cftl@subfig){
22897 \renewcommand*\@l@subfigure}[2]{%
22898 \ifnum \c@lofdepth > \toclevel@subfigure
22899 \vskip \cftbeforesubfigskip
22900 {\if@RTL\righskip\else\leftskip\fi \cftsubfigindent\relax
22901 \if@RTL\leftskip\else\righskip\fi \@tocrmarg
22902 \parfillskip -\if@RTL\leftskip\else\righskip\fi
22903 \parindent \cftsubfigindent\relax\@afterindenttrue
22904 \interlinepenalty\@M
22905 \leavevmode
22906 \@tempdima \cftsubfignumwidth\relax
22907 \let\@cftbsnum \cftsubfigpresnum
22908 \let\@cftasnum \cftsubfigaftersnum
22909 \let\@cftasnumb \cftsubfigaftersnumb
22910 \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
22911 {\cftsubfigfont ##1}\nobreak
22912 \cftsubfigfillnum{##2}}
22913 \fi
22914 }

```



```

22915 }
22916 \renewcommand{\@cftl@subtab}{
22917 \renewcommand*{\l@subtable}[2]{%
22918   \ifnum \c@lotdepth > \toclevel@subtable
22919     \vskip \cftbeforesubtabskip
22920     {\if@RTL\rightskip\else\leftskip\fi \cftsubtabindent\relax
22921     \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
22922     \parfillskip -\if@RTL\leftskip\else\rightskip\fi
22923     \parindent \cftsubtabindent\relax\@afterindenttrue
22924     \interlinepenalty\@M
22925     \leavevmode
22926     \@tempdima \cftsubtabnumwidth\relax
22927     \let\@cftbsnum \cftsubtabpresnum
22928     \let\@cftasnum \cftsubtabaftersnum
22929     \let\@cftasnumb \cftsubtabaftersnumb
22930     \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
22931     {\cftsubtabfont ##1}\nobreak
22932     \cftsubtabfillnum{##2}}
22933   \fi
22934 }
22935 }
22936 \renewcommand{\newlistentry}[4][\@empty]{%
22937   \ifundefined{c@#2}{%      check & set the counter
22938     \ifx \@empty#1\relax
22939       \newcounter{#2}
22940     \else
22941       \ifundefined{c@#1}{\PackageWarning{tocloft}%
22942         {#1 has no counter for use as a `within'}
22943         \newcounter{#2}}%
22944       {\newcounter{#2}[#1]%
22945       \expandafter\edef\csname the#2\endcsname{%
22946         \expandafter\noexpand\csname the#1\endcsname\@SepMark\noexpand\arabic{#2}}}%
22947     \fi
22948     \setcounter{#2}{0}
22949   }
22950   {\PackageError{tocloft}{#2 has been previously defined}{\@eha}}
22951 }
22952 \@namedef{l@#2}##1##2{%
22953   \ifnum \@nameuse{c@#3depth} > #4\relax
22954     \vskip \@nameuse{cftbefore#2skip}
22955     {\if@RTL\rightskip\else\leftskip\fi \@nameuse{cft#2indent}\relax
22956     \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
22957     \parfillskip -\if@RTL\leftskip\else\rightskip\fi
22958     \parindent \@nameuse{cft#2indent}\relax\@afterindenttrue
22959     \interlinepenalty\@M
22960     \leavevmode
22961     \@tempdima \@nameuse{cft#2numwidth}\relax
22962     \expandafter\let\expandafter\@cftbsnum\csname cft#2presnum\endcsname
22963     \expandafter\let\expandafter\@cftasnum\csname cft#2aftersnum\endcsname
22964     \expandafter\let\expandafter\@cftasnumb\csname cft#2aftersnumb\endcsname
22965     \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
22966     {\@nameuse{cft#2font}##1}\nobreak
22967     \@nameuse{cft#2fillnum}{##2}}
22968   \fi

```



```

22969 } % end of \l@#2
22970
22971 \expandafter\newlength\csname cftbefore#2skip\endcsname
22972 \setlength{\@nameuse{cftbefore#2skip}}{\z@ \@plus .2\p@}
22973 \expandafter\newlength\csname cft#2indent\endcsname
22974 \expandafter\newlength\csname cft#2numwidth\endcsname
22975 \ifcase #4\relax % 0
22976 \setlength{\@nameuse{cft#2indent}}{0em}
22977 \setlength{\@nameuse{cft#2numwidth}}{1.5em}
22978 \or % 1
22979 \setlength{\@nameuse{cft#2indent}}{1.5em}
22980 \setlength{\@nameuse{cft#2numwidth}}{2.3em}
22981 \or % 2
22982 \setlength{\@nameuse{cft#2indent}}{3.8em}
22983 \setlength{\@nameuse{cft#2numwidth}}{3.2em}
22984 \or % 3
22985 \setlength{\@nameuse{cft#2indent}}{7.0em}
22986 \setlength{\@nameuse{cft#2numwidth}}{4.1em}
22987 \else % anything else
22988 \setlength{\@nameuse{cft#2indent}}{10.0em}
22989 \setlength{\@nameuse{cft#2numwidth}}{5.0em}
22990 \fi
22991 \@namedef{cft#2font}{\normalfont}
22992 \@namedef{cft#2presnum}{}
22993 \@namedef{cft#2aftersnum}{}
22994 \@namedef{cft#2aftersnumb}{}
22995 \@namedef{cft#2dotsep}{\cftdotsep}
22996 \@namedef{cft#2leader}{\normalfont\cftdotfill{\@nameuse{cft#2dotsep}}}
22997 \@namedef{cft#2pagefont}{\normalfont}
22998 \@namedef{cft#2afterpnum}{}
22999 \@namedef{toclevel@#2}{#4}
23000 \@namedef{cft#2fillnum}##1{%
23001 {\@nameuse{cft#2leader}}\nobreak
23002 \hb@xt@{\@pnumwidth}{\hfil\@nameuse{cft#2pagefont}##1}\@nameuse{cft#2afterpnum}\par}
23003 } % end \newlistentry
23004 \renewcommand{\cftchapterprecistoc}[1]{\addtocontents{toc}{%
23005 {\if@RTL\rightskip\else\leftskip\fi \cftchapindent\relax
23006 \advance\if@RTL\rightskip\else\leftskip\fi \cftchapnumwidth\relax
23007 \if@RTL\leftskip\else\rightskip\fi \@tocrmarg\relax
23008 \textit{#1}\protect\par}}}}

```

## 157 File tocbasic-xetex-bidi.def

```

23009 \ProvidesFile{tocbasic-xetex-bidi.def}[2022/06/15 v0.5 bidi adaptations for tocbasic package]
23010 \bidi@undef\scr@dte@def@l@undottedtocline
23011 \bidi@undef\scr@dte@undottedtocline@init
23012 \DeclareTOCEntryStyle{undottedtocline}[%
23013 \DefineTOCEntryLengthOption{indent}%
23014 {scr@tso@}{@indent}{entry indent}%
23015 \DefineTOCEntryLengthOption{numwidth}%
23016 {scr@tso@}{@numwidth}{entry number width}%
23017 \@ifundefined{#1tocdepth}{%
23018 \Ifstr{#1}{part}{\@namedef{#1tocdepth}{-1}}{%
23019 \Ifstr{#1}{chapter}{\@namedef{#1tocdepth}{0}}{%

```



```

23020 \Ifstr{#1}{section}{\@namedef{#1tocdepth}{1}}{%
23021 \Ifstr{#1}{subsection}{\@namedef{#1tocdepth}{2}}{%
23022 \Ifstr{#1}{subsubsection}{\@namedef{#1tocdepth}{3}}{%
23023 \Ifstr{#1}{paragraph}{\@namedef{#1tocdepth}{4}}{%
23024 \Ifstr{#1}{subparagraph}{\@namedef{#1tocdepth}{5}}{%
23025 \Ifstr{#1}{figure}{\@namedef{#1tocdepth}{1}}{%
23026 \Ifstr{#1}{table}{\@namedef{#1tocdepth}{1}}{%
23027 \expandafter\let\csname #1tocdepth\expandafter\endcsname
23028 \csname #1numdepth\endcsname
23029 }%
23030 }%
23031 }%
23032 }%
23033 }%
23034 }%
23035 }%
23036 }%
23037 }%
23038 }{}%
23039 \@ifundefined{scr@tso@#1@indent}{%
23040 \@ifundefined{scr@#1@tocindent}{%
23041 \Ifstr{#1}{figure}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
23042 \Ifstr{#1}{table}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
23043 \Ifstr{#1}{part}{\@namedef{scr@tso@#1@indent}{0em}}{%
23044 \Ifstr{#1}{chapter}{\@namedef{scr@tso@#1@indent}{0em}}{%
23045 \scr@ifundefinedorrelax{1@chapter}{%
23046 \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{0pt}}{%
23047 \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
23048 \Ifstr{#1}{subsubsection}{%
23049 \@namedef{scr@tso@#1@indent}{3.8em}%
23050 }{%
23051 \Ifstr{#1}{paragraph}{%
23052 \@namedef{scr@tso@#1@indent}{7em}%
23053 }{%
23054 \Ifstr{#1}{subparagraph}{%
23055 \@namedef{scr@tso@#1@indent}{10em}%
23056 }{%
23057 }%
23058 }%
23059 }%
23060 }%
23061 }%
23062 }{}%
23063 \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
23064 \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{3.8em}}{%
23065 \Ifstr{#1}{subsubsection}{%
23066 \@namedef{scr@tso@#1@indent}{7.0em}%
23067 }{%
23068 \Ifstr{#1}{paragraph}{%
23069 \@namedef{scr@tso@#1@indent}{10em}%
23070 }{%
23071 \Ifstr{#1}{subparagraph}{%
23072 \@namedef{scr@tso@#1@indent}{12em}%
23073 }{}%

```



```

23074         }%
23075     }%
23076 }%
23077 }%
23078 }%
23079 }%
23080 }%
23081 }%
23082 }%
23083 }%
23084 }{%
23085     \@namedef{scr@tso@#1@indent}{\@nameuse{scr@#1@tocindent}}%
23086 }%
23087 }{%}%
23088 \@ifundefined{scr@tso@#1@numwidth}{%
23089     \@ifundefined{scr@#1@tocnumwidth}{%
23090         \Ifstr{#1}{figure}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
23091             \Ifstr{#1}{table}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
23092                 \Ifstr{#1}{chapter}{\@namedef{scr@tso@#1@numwidth}{1.5em}}{%
23093                     \scr@ifundefinedorrelax{chapter}{%
23094                         \Ifstr{#1}{section}{\@namedef{scr@tso@#1@numwidth}{1.5em}}{%
23095                             \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
23096                                 \Ifstr{#1}{subsubsection}{%
23097                                     \@namedef{scr@tso@#1@numwidth}{3.2em}%
23098                                 }{%
23099                                     \Ifstr{#1}{paragraph}{%
23100                                         \@namedef{scr@tso@#1@numwidth}{4.1em}%
23101                                     }{%
23102                                         \Ifstr{#1}{subparagraph}{%
23103                                             \@namedef{scr@tso@#1@numwidth}{5em}%
23104                                         }{%
23105                                             }%
23106                                         }%
23107                                     }%
23108                                 }%
23109                             }%
23110                         }{%
23111                             \Ifstr{#1}{section}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
23112                                 \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@numwidth}{3.2em}}{%
23113                                     \Ifstr{#1}{subsubsection}{%
23114                                         \@namedef{scr@tso@#1@numwidth}{3.1em}%
23115                                     }{%
23116                                         \Ifstr{#1}{paragraph}{%
23117                                             \@namedef{scr@tso@#1@numwidth}{5em}%
23118                                         }{%
23119                                             \Ifstr{#1}{subparagraph}{%
23120                                                 \@namedef{scr@tso@#1@numwidth}{6em}%
23121                                             }{%
23122                                                 }%
23123                                             }%
23124                                         }%
23125                                     }%
23126                                 }%
23127                             }%

```



```

23128         }%
23129     }%
23130 }%
23131 }{%
23132     \@namedef{scr@tso@#1@numwidth}{\@nameuse{scr@#1@tocnumwidth}}%
23133 }%
23134 }{%
23135 }}{%
23136 \ifnum \c@tocdepth >\numexpr \@nameuse{#1tocdepth}-\@ne\relax
23137     \ifnum \@nameuse{#1tocdepth}<\@ne
23138         \scr@ifundefinedorrelax{chapter}{%
23139             \addpenalty\@secpenalty
23140             \addvspace{1.0em \@plus\p}%
23141         }{%
23142             \addpenalty{-\@highpenalty}%
23143             \vskip 1.0em \@plus\p@
23144         }%
23145     \else
23146         \addpenalty\@secpenalty
23147         \addvspace{1.0em \@plus\p@}%
23148     \fi
23149     \setlength\@tempdima{\@nameuse{scr@tso@#1@numwidth}}%
23150     \begingroup
23151         \parindent \z@ \bidi@rightskip \@pnumwidth
23152         \parfillskip -\@pnumwidth
23153         \leavevmode
23154         \bfseries
23155         \advance\bidi@leftskip\@tempdima
23156         \If TocFeature{\@currentt}{noindent}{%
23157             \hskip -\bidi@leftskip
23158         }{%
23159             \advance\bidi@leftskip\@nameuse{scr@tso@#1@indent}%
23160             \hskip -\dimexpr \bidi@leftskip-\@nameuse{scr@tso@#1@indent}\relax
23161         }%
23162         ##1%
23163         \nobreak
23164         \hfil \nobreak\hb@xt@\@pnumwidth{\hss ##2}%
23165         \par
23166         \penalty\@highpenalty
23167     \endgroup
23168 \fi
23169 }
23170
23171 \bidi@undef\scr@dte@def@l@targetocline
23172 \bidi@undef\scr@dte@largetocline@init
23173 \DeclareTOCEntryStyle{largetocline}[{%
23174     \DefineTOCEntryLengthOption{indent}%
23175     {scr@tso@}{@indent}{entry indent}%
23176     \@ifundefined{#1tocdepth}{%
23177         \Ifstr{#1}{part}{\@namedef{#1tocdepth}{-1}}{%
23178             \Ifstr{#1}{chapter}{\@namedef{#1tocdepth}{0}}{%
23179                 \Ifstr{#1}{section}{\@namedef{#1tocdepth}{1}}{%
23180                     \Ifstr{#1}{subsection}{\@namedef{#1tocdepth}{2}}{%
23181                         \Ifstr{#1}{subsubsection}{\@namedef{#1tocdepth}{3}}{%

```



```

23182         \Ifstr{#1}{paragraph}{\@namedef{#1tocdepth}{4}}{%
23183         \Ifstr{#1}{subparagraph}{\@namedef{#1tocdepth}{5}}{%
23184         \Ifstr{#1}{figure}{\@namedef{#1tocdepth}{1}}{%
23185         \Ifstr{#1}{table}{\@namedef{#1tocdepth}{1}}{%
23186         \expandafter\let\csname #1tocdepth\expandafter\endcsname
23187         \csname #1numdepth\endcsname
23188         }%
23189         }%
23190         }%
23191         }%
23192         }%
23193         }%
23194         }%
23195         }%
23196     }%
23197 }{}%
23198 \@ifundefined{scr@tso@#1@indent}{%
23199     \@ifundefined{scr@#1@tocindent}{%
23200     \Ifstr{#1}{figure}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
23201     \Ifstr{#1}{table}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
23202     \Ifstr{#1}{part}{\@namedef{scr@tso@#1@indent}{0em}}{%
23203     \Ifstr{#1}{chapter}{\@namedef{scr@tso@#1@indent}{0em}}{%
23204     \scr@ifundefinedorrelax{1@chapter}{%
23205     \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{0pt}}{%
23206     \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
23207     \Ifstr{#1}{subsubsection}{%
23208     \@namedef{scr@tso@#1@indent}{3.8em}%
23209     }{%
23210     \Ifstr{#1}{paragraph}{%
23211     \@namedef{scr@tso@#1@indent}{7em}%
23212     }{%
23213     \Ifstr{#1}{subparagraph}{%
23214     \@namedef{scr@tso@#1@indent}{10em}%
23215     }{%
23216     }%
23217     }%
23218     }%
23219     }%
23220     }%
23221     }{%
23222     \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
23223     \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{3.8em}}{%
23224     \Ifstr{#1}{subsubsection}{%
23225     \@namedef{scr@tso@#1@indent}{7.0em}%
23226     }{%
23227     \Ifstr{#1}{paragraph}{%
23228     \@namedef{scr@tso@#1@indent}{10em}%
23229     }{%
23230     \Ifstr{#1}{subparagraph}{%
23231     \@namedef{scr@tso@#1@indent}{12em}%
23232     }{%
23233     }%
23234     }%
23235     }%

```



```

23236         }%
23237     }%
23238 }%
23239 }%
23240 }%
23241 }%
23242 }%
23243 }{%
23244     \namedef{scr@tso@#1@indent}{\@nameuse{scr@#1@tocindent}}%
23245 }%
23246 }{}%
23247 }]{%
23248     \ifnum \c@tocdepth >\numexpr \@nameuse{#1tocdepth}-\@ne\relax
23249     \ifnum \@nameuse{#1tocdepth}<\@ne
23250         \scr@ifundefinedorrelax{chapter}{%
23251             \addpenalty\@secpenalty
23252             \addvspace{2.25em \@plus\p@}%
23253         }{%
23254             \addpenalty{-\@highpenalty}%
23255             \addvspace{2.25em \@plus\p@}%
23256         }%
23257     \else
23258         \addpenalty\@secpenalty
23259         \addvspace{2.25em \@plus\p@}%
23260     \fi
23261     \setlength\@tempdima{3em}%
23262     \begingroup
23263         \parindent \z@ \bidi@rightskip \@pnumwidth
23264         \parfillskip -\@pnumwidth
23265         \leavevmode
23266         \large
23267         \bfseries
23268         \IfTocFeature{\@currentx}{noindent}{%
23269             }{%
23270                 \advance\bidi@leftskip\@nameuse{scr@tso@#1@indent}%
23271             }%
23272         ##1%
23273         \hfil \nobreak\hb@xt@\@pnumwidth{\hss ##2}%
23274         \par
23275         \nobreak
23276         \ifnum 0=
23277             \scr@ifundefinedorrelax{chapter}{\if@compatibility 1\else 0\fi}{1}\relax
23278             \global\@nobreaktrue
23279             \everypar{\global\@nobreakfalse\everypar{}}%
23280         \fi
23281     \endgroup
23282 \fi
23283 }
23284
23285 \renewcommand*{\scr@dte@tocline}[3]{%
23286     \ifnum \@nameuse{#1tocdepth}>\c@tocdepth
23287     \else
23288         \tocbasic@DependOnPenaltyAndTOCLevel{#1}%
23289         \addvspace{\@nameuse{scr@tso@#1@beforeskip}}\relax

```



```

23290 \@nameuse{Ifscr@tso@#1@dynindent}{%
23291 \expandafter\ifx\csname scr@tso@#1@indentfollows\endcsname\@empty
23292 \PackageWarning{tocbasic}{`dynindent' for `#1' not available}%
23293 \else
23294 \edef\reserved@a{\@nameuse{scr@tso@#1@indentfollows}}%
23295 \@for \reserved@a:=\reserved@a\do {%
23296 \scr@trim@spaces\reserved@a
23297 \ifx\reserved@a\@empty\else
23298 \scr@ifundefinedorrelax{\reserved@a tocdepth}{%
23299 }{%
23300 \ifnum \@nameuse{\reserved@a tocdepth}<\@nameuse{#1tocdepth}%
23301 \@tempdima\@nameuse{scr@tso@\reserved@a @indent}\relax
23302 \@nameuse{Ifscr@tso@\reserved@a @dynnumwidth}{%
23303 \scr@ifundefinedorrelax
23304 {scr@dte@\reserved@a @lastmaxnumwidth}{%
23305 \advance\@tempdima
23306 \@nameuse{scr@tso@\reserved@a @numwidth}\relax
23307 }{%
23308 \advance\@tempdima
23309 \@nameuse{scr@dte@\reserved@a @lastmaxnumwidth}\relax
23310 }%
23311 }{%
23312 \advance\@tempdima
23313 \@nameuse{scr@tso@\reserved@a @numwidth}\relax
23314 }%
23315 \ifdim \@tempdima>\@nameuse{scr@tso@#1@indent}\relax
23316 \expandafter\edef\csname scr@tso@#1@indent\endcsname
23317 {\the\@tempdima}%
23318 \fi
23319 \fi
23320 }%
23321 \fi
23322 }%
23323 \fi
23324 }{}%
23325 {%
23326 \Ifocfeature{\@currentx}{noindent}{%
23327 \bidi@leftskip \z@
23328 }{%
23329 \bidi@leftskip \@nameuse{scr@tso@#1@indent}\relax
23330 }%
23331 \bidi@rightskip \@nameuse{scr@tso@#1@rightindent}\relax
23332 \parfillskip -\bidi@rightskip
23333 \@nameuse{Ifscr@tso@#1@raggedpage}{%
23334 \addtolength{\parfillskip}{\z@ \@plus 1fil}%
23335 }{}%
23336 \Ifocfeature{\@currentx}{noindent}{%
23337 \parindent \z@
23338 }{%
23339 \parindent \@nameuse{scr@tso@#1@indent}\relax
23340 }%
23341 \@afterindenttrue
23342 \interlinepenalty\M
23343 \expandafter\ifx\csname ragged#1entry\endcsname\raggedright

```



```

23344 \addtolength\bidirightskip\@flushglue
23345 \else
23346 \def\reserved@a{\raggedright}%
23347 \expandafter\ifx\csname ragged#1entry\endcsname\reserved@a
23348 \addtolength\bidirightskip\@flushglue
23349 \else
23350 \renewcommand\reserved@a{\raggedright}%
23351 \expandafter\ifx\csname ragged#1entry\endcsname\reserved@a
23352 \addtolength\bidirightskip\@flushglue
23353 \fi
23354 \fi
23355 \fi
23356 \leavevmode
23357 \@tempdima \@nameuse{scr@tso@#1@numwidth}\relax
23358 \@nameuse{Ifscr@tso@#1@dynnumwidth}{\%
23359 \scr@ifundefinedorrelax{scr@dte@#1@lastmaxnumwidth}{\%
23360 \ifdim \@nameuse{scr@dte@#1@lastmaxnumwidth}>\@tempdima
23361 \@tempdima\@nameuse{scr@dte@#1@lastmaxnumwidth}\relax
23362 \fi
23363 }%
23364 }{\}%
23365 \advance\bidileftskip \@tempdima
23366 \null\nobreak\hskip -\bidileftskip
23367 {%
23368 \usetocbasicnumberline
23369 \let\scr@dte@numberline@box\numberline@box
23370 \def\numberline@box##1{%
23371 \sbox\scr@dte@tocline@numbox{\@nameuse{scr@tso@#1@numberformat}{##1}}%
23372 \global\scr@dte@tocline@numberwidth
23373 \dimexpr\wd\scr@dte@tocline@numbox+\@nameuse{scr@tso@#1@numsep}\relax
23374 \relax
23375 \ifdim \scr@dte@tocline@numberwidth
23376 >\@nameuse{scr@dte@#1@maxnumwidth}\relax
23377 \global\@nameuse{scr@dte@#1@maxnumwidth}\scr@dte@tocline@numberwidth
23378 \fi
23379 \@nameuse{Ifscr@tso@#1@dynnumwidth}{\%
23380 \ifdim \scr@dte@tocline@numberwidth
23381 >\dimexpr \@nameuse{scr@tso@#1@numwidth}%
23382 +\@nameuse{scr@tso@#1@numsep}\relax\relax
23383 \PackageWarning{tocbasic}{\%
23384 number width of #1 toc entries should be
23385 increased!\MessageBreak
23386 Currently used number width =
23387 \the\wd\scr@dte@tocline@numbox,\MessageBreak
23388 Wanted number separation
23389 \space\space\space =
23390 \the\dimexpr\@nameuse{scr@tso@#1@numsep}\relax,\MessageBreak
23391 Reserved number width \space\space\space\space\space =
23392 \the\dimexpr\@nameuse{scr@tso@#1@numwidth}\relax%
23393 }%
23394 \fi
23395 }%
23396 \scr@dte@numberline@box{\@nameuse{scr@tso@#1@numberformat}{##1}}%
23397 \@nameuse{Ifscr@tso@#1@breakafternumber}{\%

```



```

23398         {\parfillskip\@flushglue\par}\nobreak\hskip-\bidi@leftskip
23399     }{}%
23400 }%
23401 {\@nameuse{scr@tso@#1@entryformat}}{%
23402     #2%
23403     \nobreak
23404     {%
23405         \normalfont\normalsize\@nameuse{scr@tso@#1@linefill}%
23406         \nobreak
23407         \expandafter\let\expandafter\scr@dte@pagenumberwidth
23408         \csname scr@tso@#1@pagenumberwidth\endcsname
23409         \@nameuse{scr@tso@#1@pagenumberbox}}{%
23410             \@nameuse{scr@tso@#1@pagenumberformat}}{#3}%
23411     }%
23412 }%
23413 }}\@par
23414 }%
23415 }%
23416 \tocbasic@SetPenaltyByTOCLevel{#1}%
23417 \fi
23418 }
23419
23420
23421 \bidi@undef\scr@dte@def@l@tocline
23422 \bidi@undef\scr@dte@tocline@init
23423 \DeclareTOCEntryStyle{tocline}[{%
23424     \DefineTOCEntryLengthOption{beforeskip}%
23425     {scr@tso@}{@beforeskip}{vertical skip before the entry}%
23426     \DefineTOCEntryIfOption{breakafternumber}%
23427     {scr@tso@}{@breakafternumber}{line break after number flag}%
23428     \DefineTOCEntryIfOption{dynnumwidth}%
23429     {scr@tso@}{@dynnumwidth}{dynamic number width flag}%
23430     \DefineTOCEntryListOption{indentfollows}%
23431     {scr@tso@}{@indentfollows}{list of levels that define the indent}%
23432     \DefineTOCEntryIfOption{dynindent}%
23433     {scr@tso@}{@dynindent}{dynamic indent width flag}%
23434     \DefineTOCEntryCommandOption{entryformat}%
23435     {scr@tso@}{@entryformat}[1]{entry format}%
23436     \DefineTOCEntryCommandOption{entrynumberformat}%
23437     {scr@tso@}{@numberformat}[1]{entry number format}%
23438     \DefineTOCEntryCommandOption{linefill}[\TOCLineLeaderFill]%
23439     {scr@tso@}{@linefill}{filling between text and page number}%
23440     \DefineTOCEntryLengthOption{numsep}%
23441     {scr@tso@}{@numsep}{entry number separation}%
23442     \DefineTOCEntryCommandOption{onstarthigherlevel}%
23443     {scr@tso@}{@LastTOCLevelWasLower}{start higher level entry hook}%
23444     \DefineTOCEntryCommandOption{onstartlowerlevel}%
23445     {scr@tso@}{@LastTOCLevelWasHigher}{start lower level entry hook}%
23446     \DefineTOCEntryCommandOption{onstartsamelevel}%
23447     {scr@tso@}{@LastTOCLevelWasSame}{start same level entry hook}%
23448     \DefineTOCEntryCommandOption{pagenumberbox}%
23449     {scr@tso@}{@pagenumberbox}[1]{page number box}%
23450     \DefineTOCEntryCommandOption{pagenumberformat}%
23451     {scr@tso@}{@pagenumberformat}[1]{page number format}%

```



```

23452 \DefineTOCEntryLengthOption{pagenumberwidth}%
23453 {scr@tso@}{@pagenumberwidth}{width of page number box}%
23454 \DefineTOCEntryLengthOption{rightindent}%
23455 {scr@tso@}{@rightindent}{entry's text right indent}%
23456 \DefineTOCEntryOption{raggedentrytext}[true]{%
23457 \FamilySetBool{KOMAAarg}{raggedentrytext}{@tempswa}{##1}%
23458 \ifx\FamilyKeyState\FamilyKeyStateProcessed
23459 \if@tempswa
23460 \expandafter\let\csname ragged\scr@dte@current entry\endcsname
23461 \raggedright
23462 \else
23463 \expandafter\let\csname ragged\scr@dte@current entry\endcsname
23464 \relax
23465 \fi
23466 \fi
23467 }%
23468 \DefineTOCEntryIfOption{raggedpagenumber}%
23469 {scr@tso@}{@raggedpage}{page number ragged flag}%
23470 \DefineTOCEntryLengthOption{indent}%
23471 {scr@tso@}{@indent}{entry indent}%
23472 \DefineTOCEntryLengthOption{numwidth}%
23473 {scr@tso@}{@numwidth}{entry number width}%
23474 \scr@ifundefinedorrelax{#1tocdepth}{%
23475 \Ifstrstart{#1}{sub}{%
23476 \scr@ifundefinedorrelax{\scr@dte@nosub{#1}tocdepth}{%
23477 \expandafter\edef\csname #1tocdepth\endcsname{%
23478 \the\numexpr \noexpand\@nameuse{\scr@dte@nosub{#1}tocdepth}+\@ne\relax
23479 }%
23480 }%
23481 }{}%
23482 }{}%
23483 \@ifundefined{#1tocdepth}{%
23484 \Ifstr{#1}{part}{\@namedef{#1tocdepth}{-1}}{%
23485 \Ifstr{#1}{chapter}{\@namedef{#1tocdepth}{0}}{%
23486 \Ifstr{#1}{section}{\@namedef{#1tocdepth}{1}}{%
23487 \Ifstr{#1}{subsection}{\@namedef{#1tocdepth}{2}}{%
23488 \Ifstr{#1}{subsubsection}{\@namedef{#1tocdepth}{3}}{%
23489 \Ifstr{#1}{paragraph}{\@namedef{#1tocdepth}{4}}{%
23490 \Ifstr{#1}{subparagraph}{\@namedef{#1tocdepth}{5}}{%
23491 \Ifstr{#1}{figure}{\@namedef{#1tocdepth}{1}}{%
23492 \Ifstr{#1}{table}{\@namedef{#1tocdepth}{1}}{%
23493 \expandafter\let\csname #1tocdepth\endcsname
23494 \csname #1numdepth\endcsname
23495 }%
23496 }%
23497 }%
23498 }%
23499 }%
23500 }%
23501 }%
23502 }%
23503 }%
23504 }{}%
23505 \scr@ifundefinedorrelax{scr@tso@#1indent}{%

```



```

23506 \ifundefined{scr@#1@tocindent}{%
23507 \Ifstrstart{#1}{sub}{%
23508 \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@indent}{%
23509 \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@numwidth}{}{%
23510 \expandafter\edef\csname scr@tso@#1@indent\endcsname{%
23511 \glueexpr \noexpand\@nameuse{scr@tso@\scr@dte@nosub{#1}@numwidth}%
23512 \relax
23513 }%
23514 }%
23515 }{%
23516 \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@numwidth}{%
23517 \expandafter\edef\csname scr@tso@#1@indent\endcsname{%
23518 \glueexpr \noexpand\@nameuse{scr@tso@\scr@dte@nosub{#1}@indent}%
23519 \relax
23520 }%
23521 }{%
23522 \expandafter\edef\csname scr@tso@#1@indent\endcsname{%
23523 \glueexpr \noexpand\@nameuse{scr@tso@\scr@dte@nosub{#1}@indent}%
23524 +\noexpand\@nameuse{scr@tso@\scr@dte@nosub{#1}@numwidth}%
23525 \relax
23526 }%
23527 }%
23528 }%
23529 }{}%
23530 }{%
23531 \@namedef{scr@tso@#1@indent}{\@nameuse{scr@#1@tocindent}}%
23532 }%
23533 }{}%
23534 \scr@ifundefinedorrelax{scr@tso@#1@pagenumberwidth}{%
23535 \Ifstrstart{#1}{sub}{%
23536 \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@pagenumberwidth}{%
23537 \@namedef{scr@tso@#1@pagenumberwidth}{\@pnumwidth}%
23538 }{%
23539 \expandafter\let
23540 \csname scr@tso@#1@pagenumberwidth\expandafter\endcsname
23541 \csname scr@tso@\scr@dte@nosub{#1}@pagenumberwidth\endcsname
23542 }%
23543 }{%
23544 \@namedef{scr@tso@#1@pagenumberwidth}{\@pnumwidth}%
23545 }%
23546 }{}%
23547 \scr@ifundefinedorrelax{scr@tso@#1@rightindent}{%
23548 \Ifstrstart{#1}{sub}{%
23549 \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@rightindent}{%
23550 \@namedef{scr@tso@#1@rightindent}{\@tocrmarg}%
23551 }{%
23552 \expandafter\let
23553 \csname scr@tso@#1@rightindent\expandafter\endcsname
23554 \csname scr@tso@\scr@dte@nosub{#1}@rightindent\endcsname
23555 }%
23556 }{%
23557 \@namedef{scr@tso@#1@rightindent}{\@tocrmarg}%
23558 }%
23559 }{}%

```



```

23560 \@ifundefined{scr@tso@#1@indent}{%
23561 \Ifstr{#1}{figure}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
23562 \Ifstr{#1}{table}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
23563 \Ifstr{#1}{part}{\@namedef{scr@tso@#1@indent}{0em}}{%
23564 \Ifstr{#1}{chapter}{\@namedef{scr@tso@#1@indent}{0em}}{%
23565 \scr@ifundefinedorrelax{1@chapter}{%
23566 \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{0pt}}{%
23567 \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
23568 \Ifstr{#1}{subsubsection}{%
23569 \@namedef{scr@tso@#1@indent}{3.8em}%
23570 }{%
23571 \Ifstr{#1}{paragraph}{%
23572 \@namedef{scr@tso@#1@indent}{7em}%
23573 }{%
23574 \Ifstr{#1}{subparagraph}{%
23575 \@namedef{scr@tso@#1@indent}{10em}%
23576 }{%
23577 }%
23578 }%
23579 }%
23580 }%
23581 }%
23582 }{%
23583 \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
23584 \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{3.8em}}{%
23585 \Ifstr{#1}{subsubsection}{%
23586 \@namedef{scr@tso@#1@indent}{7.0em}%
23587 }{%
23588 \Ifstr{#1}{paragraph}{%
23589 \@namedef{scr@tso@#1@indent}{10em}%
23590 }{%
23591 \Ifstr{#1}{subparagraph}{%
23592 \@namedef{scr@tso@#1@indent}{12em}%
23593 }{%
23594 }%
23595 }%
23596 }%
23597 }%
23598 }%
23599 }%
23600 }%
23601 }%
23602 }%
23603 }%
23604 }{%
23605 \scr@ifundefinedorrelax{scr@tso@#1@numwidth}{%
23606 \scr@ifundefinedorrelax{scr@#1@tocnumwidth}{%
23607 \Ifstrstart{#1}{sub}{%
23608 \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@numwidth}{%
23609 \expandafter\edef\csname scr@tso@#1@numwidth\endcsname{%
23610 \glueexpr \noexpand\@nameuse{scr@tso@\scr@dte@nosub{#1}@numwidth}%
23611 +.9em%
23612 \relax
23613 }%

```



```

23614     }%
23615   }{}%
23616   }{%
23617     \@namedef{scr@tso@#1@numwidth}{\@nameuse{scr@#1@tocnumwidth}}%
23618   }%
23619 }{}%
23620 \@ifundefined{scr@tso@#1@numwidth}{%
23621   \Ifstr{#1}{figure}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
23622     \Ifstr{#1}{table}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
23623       \Ifstr{#1}{chapter}{\@namedef{scr@tso@#1@numwidth}{1.5em}}{%
23624         \scr@ifundefinedorrelax{chapter}{%
23625           \Ifstr{#1}{section}{\@namedef{scr@tso@#1@numwidth}{1.5em}}{%
23626             \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
23627               \Ifstr{#1}{subsubsection}{%
23628                 \@namedef{scr@tso@#1@numwidth}{3.2em}%
23629               }{%
23630                 \Ifstr{#1}{paragraph}{%
23631                   \@namedef{scr@tso@#1@numwidth}{4.1em}%
23632                 }{%
23633                   \Ifstr{#1}{subparagraph}{%
23634                     \@namedef{scr@tso@#1@numwidth}{5em}%
23635                   }{%
23636                     }%
23637                   }%
23638                 }%
23639               }%
23640             }%
23641           }{%
23642             \Ifstr{#1}{section}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
23643               \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@numwidth}{3.2em}}{%
23644                 \Ifstr{#1}{subsubsection}{%
23645                   \@namedef{scr@tso@#1@numwidth}{3.1em}%
23646                 }{%
23647                   \Ifstr{#1}{paragraph}{%
23648                     \@namedef{scr@tso@#1@numwidth}{5em}%
23649                   }{%
23650                     \Ifstr{#1}{subparagraph}{%
23651                       \@namedef{scr@tso@#1@numwidth}{6em}%
23652                     }{%
23653                       }%
23654                     }%
23655                   }%
23656                 }%
23657               }%
23658             }%
23659           }%
23660         }%
23661       }%
23662     }{}%
23663   \expandafter\renewcommand%
23664     \csname scr@tso@#1@LastTOCLevelWasLower\endcsname{\LastTOCLevelWasLower}%
23665   \expandafter\renewcommand%
23666     \csname scr@tso@#1@LastTOCLevelWasSame\endcsname{\LastTOCLevelWasSame}%
23667   \expandafter\renewcommand%

```



```

23668 \csname scr@tso@#1@LastTOCLevelWasHigher\endcsname{\LastTOCLevelWasHigher}%
23669 \@ifundefined{scr@tso@#1@beforeskip}{%
23670   \Ifstr{#1}{part}{%
23671     \@namedef{scr@tso@#1@beforeskip}{\glueexpr 2.25em \@plus\p@\relax}%
23672   }{%
23673     \Ifstr{#1}{chapter}{%
23674       \@namedef{scr@tso@#1@beforeskip}{\glueexpr 1.0em \@plus\p@\relax}%
23675     }{%
23676       \Ifstr{#1}{section}{%
23677         \scr@ifundefinedorrelax{1@chapter}{%
23678           \@namedef{scr@tso@#1@beforeskip}{\glueexpr 1.0em \@plus\p@\relax}%
23679         }{}%
23680       }{}%
23681     }%
23682   }%
23683   \expandafter\renewcommand\expandafter*%
23684   \csname scr@tso@#1@beforeskip\endcsname{\glueexpr \z@ plus .2\p@\relax}%
23685 }{}%
23686 \@ifundefined{scr@dte@#1@maxnumwidth}{%
23687   \expandafter\newlength\csname scr@dte@#1@maxnumwidth\endcsname
23688   \setlength{\@nameuse{scr@dte@#1@maxnumwidth}}{\z@}%
23689 }{}%
23690 \renewcommand*{\scr@dte@donumwidth}{}%
23691 \g@addto@macro{\scr@dte@donumwidth}{\do{#1}}%
23692 \expandafter\renewcommand\expandafter*%
23693 \csname scr@tso@#1@numsep\endcsname{.4em}%
23694 \expandafter\renewcommand%
23695 \csname scr@tso@#1@numberformat\endcsname[1]{##1}%
23696 \Ifstr{#1}{part}{%
23697   \expandafter\providecommand%
23698   \csname scr@tso@#1@entryformat\endcsname[1]{\large\bfseries ##1}%
23699 }{%
23700   \Ifstr{#1}{chapter}{%
23701     \expandafter\providecommand%
23702     \csname scr@tso@#1@entryformat\endcsname[1]{\bfseries ##1}%
23703   }{%
23704     \scr@ifundefinedorrelax{1@chapter}{%
23705       \Ifstr{#1}{section}{%
23706         \expandafter\providecommand%
23707         \csname scr@tso@#1@entryformat\endcsname[1]{\bfseries ##1}%
23708       }{}%
23709     }{}%
23710     \expandafter\providecommand%
23711     \csname scr@tso@#1@entryformat\endcsname[1]{##1}%
23712   }%
23713 }%
23714 \expandafter\renewcommand
23715 \csname Ifscr@tso@#1@breakafternumber\endcsname[2]{##2}%
23716 \@ifundefined{scr@tso@#1@linefill}{%
23717   \Ifstr{#1}{part}{%
23718     \@namedef{scr@tso@#1@linefill}{\hfill}%
23719   }{%
23720     \Ifstr{#1}{chapter}{%
23721       \@namedef{scr@tso@#1@linefill}{\hfill}%

```



```

23722 }{%
23723 \scr@ifundefinedorrelax{1@chapter}{%
23724 \Ifstr{#1}{section}{%
23725 \namedef{scr@tso@#1@linefill}{\hfill}%
23726 }{}%
23727 }{}%
23728 \expandafter\renewcommand%
23729 \csname scr@tso@#1@linefill\endcsname{\TOCLineLeaderFill\relax}%
23730 }%
23731 }%
23732 }{}%
23733 \expandafter\renewcommand\csname Ifscr@tso@#1@raggedpage\endcsname[2]{##2}%
23734 \Ifstr{#1}{part}{%
23735 \expandafter\providecommand%
23736 \csname scr@tso@#1@pagenumberformat\endcsname[1]{\large\bfseries ##1}%
23737 }{%
23738 \Ifstr{#1}{chapter}{%
23739 \expandafter\providecommand%
23740 \csname scr@tso@#1@pagenumberformat\endcsname[1]{\bfseries ##1}%
23741 }{%
23742 \scr@ifundefinedorrelax{1@chapter}{%
23743 \Ifstr{#1}{section}{%
23744 \expandafter\providecommand%
23745 \csname scr@tso@#1@pagenumberformat\endcsname[1]{\bfseries ##1}%
23746 }{}%
23747 }{}%
23748 \expandafter\providecommand%
23749 \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
23750 {\normalfont\normalcolor ##1}}%
23751 }%
23752 }%
23753 \expandafter\renewcommand%
23754 \csname scr@tso@#1@pagenumberbox\endcsname[1]{%
23755 \hb@xt@{\nameuse{scr@dte@pagenumberwidth}}{\hfil ##1}}%
23756 \expandafter\renewcommand\csname Ifscr@tso@#1@dynnumwidth\endcsname[2]{##2}%
23757 \expandafter\renewcommand\csname Ifscr@tso@#1@dynindent\endcsname[2]{##2}%
23758 \scr@ifundefinedorrelax{scr@tso@#1@indentfollows}{%
23759 \Ifstrstart{#1}{sub}{%
23760 \expandafter\edef\csname scr@tso@#1@indentfollows\endcsname{%
23761 \scr@dte@nosub{#1}%
23762 }%
23763 }{%
23764 \expandafter\let\csname scr@tso@#1@indentfollows\endcsname\@empty
23765 }%
23766 }{}%
23767 }]{%
23768 \scr@dte@tocline{#1}{##1}{##2}%
23769 }
23770
23771 \if@bidi@csdef{scr@tso@figure@pagenumberformat}{%
23772 \renewcommand*{\scr@tso@figure@pagenumberformat}[1]{%
23773 {\normalfont\normalcolor #1}%
23774 }%
23775 }{}

```



```

23776
23777 \if@bidi@csdef{scr@tso@table@pagenumberformat}{%
23778   \renewcommand*{\scr@tso@table@pagenumberformat}[1]{%
23779     {\normalfont\normalcolor #1}%
23780   }%
23781 }{}
23782

```

## 158 File tocstyle-xetex-bidi.def

```

23783 \ProvidesFile{tocstyle-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for tocstyle package]
23784 \renewcommand*{\tocstyle@dottedtocline}[5]{%
23785   \let\numberline\tocstyle@numberline
23786   \ifnum #1>\c@tocdepth \else
23787     \if@tocstyle@penalties
23788       \beginingroup
23789         \@tempcnta 20010
23790         \advance \@tempcnta by -#1
23791         \ifnum \@tempcnta>\lastpenalty
23792           \aftergroup\penalty\aftergroup\@lowpenalty
23793         \fi
23794       \endgroup
23795     \fi
23796     \edef\tocstyle@depth{#1}%
23797     \tocstyle@activate@features
23798     \ifx\tocstyle@feature@entryvskip\relax
23799       \vskip \z@ \@plus.2\p@
23800     \else
23801       \addvspace{\tocstyle@feature@entryvskip}%
23802     \fi
23803     {%
23804       \parskip \z@ \parindent \z@ \if@RTL\rightskip\else\leftskip\fi \z@ \if@RTL\leftskip\else\rightskip\fi
23805       \tocstyle@feature@raggedhook
23806       \@tempdima #3\relax
23807       \@tempdimb #2\relax
23808       \typeout{m (\tocstyleTOC, \tocstyledepth): \the\@tempdima}%
23809       \ifnum #1>\z@\relax
23810         \@tempcnta #1\relax \advance\@tempcnta \m@ne
23811         \ifcsname tocstyle@skipwidth@\tocstyleTOC @\the\@tempcnta\endcsname
23812           \ifcsname tocstyle@numwidth@\tocstyleTOC @\the\@tempcnta\endcsname
23813             \@tempdimb
23814             \csname tocstyle@skipwidth@\tocstyleTOC @\the\@tempcnta\endcsname
23815             \advance\@tempdimb
23816             \csname tocstyle@numwidth@\tocstyleTOC @\the\@tempcnta\endcsname
23817           \fi
23818         \fi
23819       \fi
23820       \typeout{C (\tocstyleTOC, \tocstyledepth): \the\@tempdimb}%
23821       \ifcsname tocstyle@skipwidth@\tocstyleTOC @#1\endcsname
23822         \ifdim \@tempdimb>
23823           \csname tocstyle@skipwidth@\tocstyleTOC @#1\endcsname\relax
23824           \expandafter\xdef\csname tocstyle@skipwidth@\tocstyleTOC
23825             @#1\endcsname{\the\@tempdimb}%
23826         \fi

```



```

23827 \else
23828 \expandafter\xdef\csname tocstyle@skipwidth@\tocstyleTOC
23829 @#1\endcsname{\the\@tempdimb}%
23830 \fi
23831 \iftocstyle@autolength
23832 \ifcsname tocstyle@maxskipwidth@\tocstyleTOC @#1\endcsname
23833 \@tempdimb \csname tocstyle@maxskipwidth@\tocstyleTOC @#1\endcsname
23834 \relax
23835 \fi
23836 \ifcsname tocstyle@maxnumwidth@\tocstyleTOC @#1\endcsname
23837 \@tempdima \csname tocstyle@maxnumwidth@\tocstyleTOC @#1\endcsname
23838 \relax
23839 \fi
23840 \typeout{a (\tocstyleTOC, \tocstyledepth): \the\@tempdima}%
23841 \typeout{A (\tocstyleTOC, \tocstyledepth): \the\@tempdimb}%
23842 \else
23843 \@tempdimb #2\relax
23844 \typeout{M (\tocstyleTOC, \tocstyledepth): \the\@tempdimb}%
23845 \fi
23846 \ifcsname tocstyle@unumwidth@\tocstyleTOC @\endcsname
23847 \ifdim \@tempdima>
23848 \csname tocstyle@unumwidth@\tocstyleTOC @\endcsname\relax
23849 \expandafter\xdef\csname tocstyle@unumwidth@\tocstyleTOC
23850 @\endcsname{\the\@tempdima}%
23851 \fi
23852 \else
23853 \expandafter\xdef\csname tocstyle@unumwidth@\tocstyleTOC
23854 @\endcsname{\the\@tempdima}%
23855 \fi
23856 \ifcase\tocstyle@indentstyle\relax\else
23857 \@tempdimb \z@
23858 \ifcsname tocstyle@maxunumwidth@\tocstyleTOC @\endcsname
23859 \@tempdima \csname tocstyle@maxunumwidth@\tocstyleTOC @\endcsname
23860 \relax
23861 \fi
23862 \typeout{s (\tocstyleTOC, \tocstyledepth): \the\@tempdima}%
23863 \typeout{S (\tocstyleTOC, \tocstyledepth): \the\@tempdimb}%
23864 \fi
23865 \advance\parindent \@tempdimb\@afterindenttrue
23866 \advance\if@RTL\rightskip\else\leftskip\fi \parindent
23867 \advance\if@RTL\leftskip\else\rightskip\fi \@tocrmarg
23868 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
23869 \ifx\tocstyle@feature@parfillskip\relax\else
23870 \advance\parfillskip \tocstyle@feature@parfillskip\relax
23871 \fi
23872 \interlinepenalty\@M
23873 \leavevmode
23874 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima
23875 \null\nobreak
23876 \iftocstyle@indentnotnumbered\else
23877 \hskip -\if@RTL\rightskip\else\leftskip\fi
23878 \fi
23879 \tocstyle@feature@entryhook
23880 {#4}\nobreak

```



```

23881 \ifx\tocstyle@feature@leaders\relax
23882 \leaders\hbox{$\m@th
23883 \mkern \@dotsep mu\hbox{\tocstyle@feature@dothook .}%
23884 \mkern \@dotsep mu$}\hfill
23885 \else
23886 \tocstyle@feature@leaders
23887 \fi
23888 \nobreak
23889 \ifx\tocstyle@feature@pagenumberbox\relax
23890 \hb@xt@\@pnumwidth{\hfil\tocstyle@feature@pagenumberhook #5}%
23891 \else
23892 \tocstyle@feature@pagenumberbox{\tocstyle@feature@pagenumberhook #5}%
23893 \fi
23894 \par
23895 }%
23896 \if\tocstyle@penalties
23897 \bgroup
23898 \@tempcnta 20009
23899 \advance\@tempcnta by -#1
23900 \edef\reserved@a{\egroup\penalty\the\@tempcnta\relax}%
23901 \reserved@a
23902 \fi
23903 \fi}
23904 \renewcommand*{\tocstyle@numberline}[1]{%
23905 \begingroup
23906 \ifx\tocstyle@feature@spaceafternumber\relax
23907 \settowidth\@tempdima{\tocstyle@numberline{#1}\enskip}%
23908 \else
23909 \settowidth\@tempdima{\tocstyle@numberline{#1}}%
23910 \advance \@tempdima \tocstyle@feature@spaceafternumber\relax
23911 \fi
23912 \ifcsname tocstyle@numwidth@\tocstyleTOC @\tocstyledepth\endcsname
23913 \ifdim \@tempdima >
23914 \csname tocstyle@numwidth@\tocstyleTOC @\tocstyledepth\endcsname\relax
23915 \expandafter\xdef\csname tocstyle@numwidth@\tocstyleTOC
23916 @\tocstyledepth\endcsname{\the\@tempdima}%
23917 \fi
23918 \else
23919 \expandafter\xdef\csname tocstyle@numwidth@\tocstyleTOC
23920 @\tocstyledepth\endcsname{\the\@tempdima}%
23921 \fi
23922 \endgroup
23923 \iftocstyle@indentnotnumbered
23924 \hskip -\if@RTL\rightskip\else\leftskip\fi
23925 \fi
23926 \ifcase \tocstyle@indentstyle
23927 \hb@xt@\@tempdima{\tocstyle@numberline{#1}\hfil}%
23928 \or
23929 \hb@xt@\@tempdima{\tocstyle@numberline{#1}\hfil}%
23930 \else
23931 \ifx\tocstyle@feature@spaceafternumber\relax
23932 \hbox{\tocstyle@numberline{#1}\enskip}%
23933 \else
23934 \hbox{\tocstyle@numberline{#1}\hskip

```



```

23935         \tocstyle@feature@spaceafternumber\relax}%
23936     \fi
23937 \fi
23938 }
23939 \AtBeginDocument{%
23940     \ifcsname l@part\endcsname
23941         \ifcsname l@chapter\endcsname
23942             \setbox\@tempboxa\vbox{\hsize\maxdimen
23943                 \l@part{\tocstyle@l@define{part}{-1}}{}}%
23944         \else
23945             \setbox\@tempboxa\vbox{\hsize\maxdimen
23946                 \l@part{\tocstyle@l@define{part}{0}}{}}%
23947         \fi
23948     \fi
23949     \ifcsname l@chapter\endcsname
23950         \setbox\@tempboxa\vbox{\hsize\maxdimen
23951             \l@chapter{\tocstyle@l@define{chapter}{0}}{}}%
23952     \fi
23953     \ifcsname l@section\endcsname
23954         \setbox\@tempboxa\vbox{\hsize\maxdimen
23955             \l@section{\tocstyle@l@define{section}{1}}{}}%
23956     \fi
23957     \ifcsname l@subsection\endcsname
23958         \setbox\@tempboxa\vbox{\hsize\maxdimen
23959             \l@subsection{\tocstyle@l@define{subsection}{2}}{}}%
23960     \fi
23961     \ifcsname l@subsubsection\endcsname
23962         \setbox\@tempboxa\vbox{\hsize\maxdimen
23963             \l@subsubsection{\tocstyle@l@define{subsubsection}{3}}{}}%
23964     \fi
23965     \ifcsname l@paragraph\endcsname
23966         \setbox\@tempboxa\vbox{\hsize\maxdimen
23967             \l@paragraph{\tocstyle@l@define{paragraph}{4}}{}}%
23968     \fi
23969     \ifcsname l@subparagraph\endcsname
23970         \setbox\@tempboxa\vbox{\hsize\maxdimen
23971             \l@subparagraph{\tocstyle@l@define{subparagraph}{5}}{}}%
23972     \fi
23973     \ifcsname l@table\endcsname
23974         \setbox\@tempboxa\vbox{\hsize\maxdimen
23975             \l@table{\tocstyle@l@define{table}{1}}{}}%
23976     \fi
23977     \ifcsname l@figure\endcsname
23978         \setbox\@tempboxa\vbox{\hsize\maxdimen
23979             \l@figure{\tocstyle@l@define{figure}{1}}{}}%
23980     \fi
23981     \def\@tempa#1#2#3#4#5{%
23982         \ifnum #1>\c@tocdepth \else
23983             \vskip \z@ \@plus.2\p@
23984             {\if@RTL\rightskip\else\leftskip\fi #2\relax \if@RTL\leftskip\else\rightskip\fi \@tocdepth
23985                 \parindent #2\relax\@afterindenttrue
23986                 \interlinepenalty\@M
23987                 \leavevmode
23988                 \@tempdima #3\relax

```



```

23989      \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\ri
23990      {#4}\nobreak
23991      \leaders\hbox{$\m@th
23992      \mkern \dotsep mu\hbox{.}\mkern \dotsep
23993      mu$}\hfill
23994      \nobreak
23995      \hb@xt@\@pnumwidth{\hfil \normalfont \normalcolor #5}}%
23996      \par}%
23997      \fi}%
23998      \ifx\@dottedtocline\@tempa\else
23999      \tocstyle\macrochangewarning\@dottedtocline
24000      \fi
24001      \let\tocstyle\@saved@dottedtocline\@dottedtocline
24002      \def\@tempa#1{\hb@xt@\@tempdima{#1\autodot\hfil}}%
24003      \ifx\numberline\@tempa\else
24004      \def\@tempa#1{\hb@xt@\@tempdima{#1\hfil}}%
24005      \ifx\numberline\@tempa\else
24006      \tocstyle\macrochangewarning\numberline
24007      \fi
24008      \fi
24009      \let\tocstyle\@saved\@numberline\@numberline
24010  }
24011  \renewcommand*{\tocstyle@l@define}[2]{%
24012      \advance\if@RTL\righskip\else\leftskip\fi-\@tempdima
24013      \edef\@tempa{%
24014          \noexpand\global\noexpand\let
24015          \expandafter\noexpand\csname tocstyle@saved@l@#1\endcsname
24016          \expandafter\noexpand\csname l@#1\endcsname
24017          \noexpand\gdef
24018          \expandafter\noexpand\csname tocstyle@l@#1\endcsname{%
24019              \noexpand\@dottedtocline{#2}{\the\if@RTL\righskip\else\leftskip\fi}{\the\@tempdima}}%
24020          \noexpand\g@addto@macro\noexpand\tocstyle\activate@all@l@%
24021          \noexpand\let\expandafter\noexpand\csname l@#1\endcsname
24022          \expandafter\noexpand\csname tocstyle@l@#1\endcsname
24023      }%
24024      }%
24025      \PackageInfo{tocstyle}{prepare \expandafter\string
24026      \csname l@#1\endcsname\space for redefinition}%
24027      \@tempa
24028  }

```

## 159 File todonotes-xetex-bidi.def

```

24029  \ProvidesFile{todonotes-xetex-bidi.def}[2016/11/08 v0.4 bidi adaptations for todonotes packa
24030  \newif\if@bidi@todonotes@textdirection@RTL
24031  \newif\if@bidi@todonotes@figposition@right
24032  \newcommand{\@bidi@todonotes@align}{}%
24033  \define@key{todonotes}{align}{\renewcommand{\@bidi@todonotes@align}{#1}}%
24034  \newcommand{\@bidi@todonotes@textdirection}{}%
24035  \define@choicekey{todonotes}{textdirection}[\@bidi@todonotes@tempa\@bidi@todonotes@tempb]{right
24036      \ifcase\@bidi@todonotes@tempb\relax
24037          \@bidi@todonotes@textdirection@RTLtrue
24038          \let\@bidi@todonotes@textdirection\@RLE
24039      \or

```



```

24040 \@bidi@todonotes@textdirection@RTLfalse
24041 \let\@bidi@todonotes@textdirection\LRE
24042 \fi}
24043 \define\choicekey{todonotes}{figposition}[\@bidi@todonotes@tempa\@bidi@todonotes@tempb]{right,
24044 \ifcase\@bidi@todonotes@tempb\relax
24045 \@bidi@todonotes@figposition@righttrue
24046 \or
24047 \@bidi@todonotes@figposition@rightfalse
24048 \fi}
24049 \if@todonotes@disabled%
24050 \else % \if@todonotes@disabled
24051 \renewcommand{\@todonotes@drawInlineNote}{%
24052 \if@todonotes@dviStyle%
24053 {\par\noindent\begin{tikzpicture}[remember picture]%
24054 \draw node[inlinenotestyle] {};\end{tikzpicture}\par}%
24055 \if@todonotes@authorgiven%
24056 {\noindent \@todonotes@sizecommand \@todonotes@author:\,\@todonotes@text}%
24057 \else%
24058 {\noindent \@todonotes@sizecommand \@todonotes@text}%
24059 \fi
24060 {\par\noindent\begin{tikzpicture}[remember picture]%
24061 \draw node[inlinenotestyle] {};\end{tikzpicture}\par}%
24062 \else%
24063 {\par\noindent\begin{tikzpicture}[remember picture]%
24064 \if@bidi@todonotes@textdirection@RTL\setRTL\fi%
24065 \draw node[inlinenotestyle,font=\@todonotes@sizecommand,align=\@bidi@todonotes@a
24066 \if@todonotes@authorgiven%
24067 {\noindent \@todonotes@sizecommand \@todonotes@author:\,\@todonotes@text
24068 \else%
24069 {\noindent \@todonotes@sizecommand \@todonotes@text}%
24070 \fi};%
24071 \end{tikzpicture}\par}%
24072 \fi}%
24073 \renewcommand{\@todonotes@drawMarginNoteWithLine}{%
24074 \begin{tikzpicture}[remember picture, overlay, baseline=-0.75ex]%
24075 \node [coordinate] (inText) {};%
24076 \end{tikzpicture}%
24077 \marginpar[{\% Draw note in left margin
24078 \@todonotes@drawMarginNote%
24079 \if@RTL\@todonotes@drawLineToRightMargin\else\@todonotes@drawLineToLeftMargin\fi%
24080 }]{\% Draw note in right margin
24081 \@todonotes@drawMarginNote%
24082 \if@RTL\@todonotes@drawLineToLeftMargin\else\@todonotes@drawLineToRightMargin\fi%
24083 }%
24084 }%
24085 \renewcommand{\@todonotes@drawMarginNote}{%
24086 \if@todonotes@dviStyle%
24087 \begin{tikzpicture}[remember picture]%
24088 \draw node[notestyle] {};%
24089 \end{tikzpicture}\%
24090 \begin{minipage}{\@todonotes@textwidth}%
24091 \if@todonotes@authorgiven%
24092 \@todonotes@sizecommand \@todonotes@author \@todonotes@text%
24093 \else%

```



```

24094 \@todonotes@sizecommand \@todonotes@text%
24095 \fi%
24096 \end{minipage}\%
24097 \begin{tikzpicture}[remember picture]%
24098 \draw node[notestyle] (inNote) {};%
24099 \end{tikzpicture}%
24100 \else%
24101 \let\originalHbadness\hbadness%
24102 \hbadness 100000%
24103 \begin{tikzpicture}[remember picture,baseline=(X.base)]%
24104 \if@bidi@todonotes@textdirectionRTL\setRTL\fi%
24105 \node(X){\vphantom{X}};%
24106 \draw node[notestyle,font=\@todonotes@sizecommand,anchor=north,align=\@bidi@todonotes@align]{\@todonotes@text};%
24107 \if@todonotes@authorgiven%
24108 \draw node[notestyle,font=\@todonotes@sizecommand,anchor=north,align=\@bidi@todonotes@align]{\@todonotes@sizecommand\@todonotes@author};%
24109 \node(Y)[below=of X]{};%
24110 \draw node[notestyle,font=\@todonotes@sizecommand,anchor=north,align=\@bidi@todonotes@align]{\@todonotes@text};%
24111 \else%
24112 \draw node[notestyle,font=\@todonotes@sizecommand,anchor=north,align=\@bidi@todonotes@align]{\@todonotes@text};%
24113 \fi%
24114 \draw node[notestyle,font=\@todonotes@sizecommand,anchor=north,align=\@bidi@todonotes@align]{\@todonotes@text};%
24115 \fi%
24116 \end{tikzpicture}%
24117 \hbadness \originalHbadness%
24118 \fi}%
24119 \renewcommand{\missingfigure}[2][]{%
24120 \setkeys{todonotes}{#1}%
24121 \addcontentsline{tdo}{todo}{\@todonotes@MissingFigureText: #2}%
24122 \par
24123 \noindent
24124 \begin{tikzpicture}
24125 \draw[fill=\@todonotes@currentfigcolor, draw = black!40, line width=2pt]
24126 (-2, -2.5) rectangle +(\@todonotes@currentfigwidth, \@todonotes@currentfigheight);
24127 \if@bidi@todonotes@figposition@right%
24128 \begin{scope}[xshift=\@todonotes@currentfigwidth-4cm]
24129 \fi%
24130 \draw[red, fill=white, rounded corners = 5pt, line width=10pt]
24131 (30:2cm) -- (150:2cm) -- (270:2cm) -- cycle;
24132 \if@bidi@todonotes@figposition@right%
24133 \end{scope}
24134 \begin{scope}[xshift=-3.8cm]
24135 \fi%
24136 \if@bidi@todonotes@textdirectionRTL\setRTL\fi%
24137 \draw (2, -0.3) node[right, text
24138 width=\@todonotes@currentfigwidth-4.5cm,align=\@bidi@todonotes@align] {#2};
24139 \if@bidi@todonotes@figposition@right%
24140 \end{scope}
24141 \begin{scope}[xshift=\@todonotes@currentfigwidth-4cm]
24142 \fi%
24143 \draw (0, 0.3) node[align=\@bidi@todonotes@align] {\@bidi@todonotes@textdirection{\@todonotes@text}};
24144 \draw (0, -0.3) node[align=\@bidi@todonotes@align] {\@bidi@todonotes@textdirection{\@todonotes@text}};
24145 \if@bidi@todonotes@figposition@right%

```



```

24148 \end{scope}
24149 \fi%
24150 \end{tikzpicture}\hfill
24151 }% Ending \missingfigure command
24152 \fi % Ending \@todonotes@ifdisabled
24153 \presetkeys%
24154   {todonotes}%
24155   {align=left,%
24156   textdirection=lefttoright,%
24157   figposition=left}{}%

```

## 160 File wrapfig-xetex-bidi.def

```

24158 \ProvidesFile{wrapfig-xetex-bidi.def}[2014/04/23 v0.3 bidi adaptations for wrapfig package f
24159 \let\WF@everypar\ bidi@n@everypar
24160 \def\WF@putfigmaybe{%
24161 \ifinner
24162   \vskip-\parskip \global\WF@floatfalse
24163   \let\pagetotal\maxdimen % kludge flag for "not top of page"
24164 \else % outer page
24165   \@tempdima\pagedepth % save page depth
24166   {\advance\parskip\@tempdima\ifRTL\advance\parskip\baselineskip\fi\vskip-\parskip}% back
24167   \penalty\interlinepenalty % update pg. parameters
24168   \@tempdimb\pagegoal \advance\@tempdimb-\pagetotal % room left on page
24169   \ifdim\@tempdimb<\z@ % \WF@info{Page overfull already;}%
24170     \global\WF@floatfalse
24171     \ifdim-\@tempdimb>\pageshrink \else \pagebreak \fi
24172   \else
24173     \ifdim\WF@size>\@tempdimb
24174       \ifWF@float \dimen@.5\baselineskip \else \dimen@ 2\baselineskip\fi
24175       \ifdim\pagestretch>\dimen@ \dimen@\pagestretch \fi
24176       \ifdim\pagefilstretch>\z@ \dimen@\@tempdimb \fi
24177       \ifdim\pagefillstretch>\z@ \dimen@\@tempdimb \fi
24178       \advance\dimen@.5\baselineskip
24179       \ifdim\dimen@>\@tempdimb % \WF@info{Page nearly full; can stretch}%
24180         \global\WF@floatfalse \pagebreak
24181       \fi
24182     \else % \WF@info{Fits in \the\@tempdimb;}%
24183       \global\WF@floatfalse
24184     \fi\fi
24185     \vskip\@tempdima\relax % (return erased page depth)
24186 \fi
24187 \noindent
24188 \ifWF@float
24189   \WF@fltmes
24190 \else % putting here;
24191   \WF@info{Put \WF@wfname here;}%
24192   {\ifodd\iftwoside\c@page\else\one\fi % assign l/r to i/o placement
24193     \lccode`i`l\lccode`o`r\else \lccode`i`r\lccode`o`l\fi
24194     \xdef\WF@place{\the\lccode\lccode\WF@place}}% twice to get only l or r
24195   \hbox to\z@{% llap or rlap depending on {l} or {r}; calc effective width
24196     \@tempdima\wd\WF@box \@tempdimb\WF@ovh
24197     \advance\@tempdima-\@tempdimb \advance\@tempdima\columnsep
24198     \@tempdimb\hsize \advance\@tempdimb-\@tempdima

```



```

24199 \xdef\WF@adjlw{\the\@tempdima}%
24200 \ifnum `l=\WF@place % fig on left
24201 \if@RTL%
24202 \kern\@tempdimb \kern\columnsep
24203 \def\@tempa{\hss}% position to left of the gap
24204 \else%
24205 \hss % figure overlaps space to the left
24206 \def\@tempa{\kern\columnsep}% position to left of the gap
24207 \fi%
24208 \else % fig on right
24209 \if@RTL%
24210 \hss
24211 \@tempdima\z@
24212 \def\@tempa{\kern\columnsep}
24213 \else%
24214 \@tempdima\z@ % no left indentation
24215 \kern\@tempdimb \kern\columnsep
24216 \def\@tempa{\hss}% figure overlaps space to the right
24217 \fi%
24218 \fi
24219 \ifdim\@tempdimb<\hsize
24220 \xdef\WF@wrapil{\the\@tempdima \the\@tempdimb}% indentation and length
24221 \xdef\WF@adjtlm{\the\@tempdima}%
24222 \else
24223 \xdef\WF@wrapil{\z@ \the\hsize}%
24224 \xdef\WF@adjlw{\z@}\xdef\WF@adjtlm{\z@}%
24225 \fi
24226 \ifdim\pagetotal=\z@ % \WF@info{Put \WF@wfname at top of p.\thepage}%
24227 \global\advance\WF@size-\intextsep
24228 \else % \WF@info{Putting \WF@wfname in middle of page}%
24229 \setbox\WF@box\hbox{\lower\intextsep\box\WF@box}%
24230 \fi \dp\WF@box\z@ \box\WF@box \@tempa
24231 }% end \hbox to Opt
24232 \aftergroup\WF@startwrapping % after the \endgroup which immediately follows
24233 \fi}

```

## 161 File xcolor-xetex-bidi.def

```

24234 \ProvidesFile{xcolor-xetex-bidi.def}[2022/06/13 v0.3 bidi adaptations for xcolor package for
24235 \long\def\color@b@x#1#2#3%
24236 {\leavevmode\ifmmode\else\if@RTL\beginL\fi\fi
24237 \setbox\z@\hbox{\kern\fbboxsep{\set@color\if@RTL\beginR\fi#3\if@RTL\endR\fi}\kern\fbboxsep}%
24238 \dimen@ \ht\z@\advance\dimen@\fbboxsep\ht\z@\dimen@
24239 \dimen@ \dp\z@\advance\dimen@\fbboxsep\dp\z@\dimen@
24240 {\#1{\#2\color@block{\wd\z@}{\ht\z@}{\dp\z@}\box\z@}}\ifmmode\else\if@RTL\endL\fi\fi}
24241 \protected\def\normalcolor{\let\current@color\default@color\ifhmode\if@RTL\beginL\aftergroup
24242 \DeclareRobustCommand\color
24243 {\ifhmode\if@RTL\beginL\aftergroup\endR\fi\fi\@ifnextchar[\@undeclaredcolor\@declaredcolor]}
24244 \def\@undeclaredcolor[#1]#2%
24245 {\begingroup
24246 \let\@cls\@empty
24247 \XC@getmodclr12{#1}{#2}{}}%
24248 {\ifblendcolors
24249 \ifx\colorblend\@empty\else

```



```

24250         \edef\@mix{\expandafter@gobble\colorblend}\@tempwafalse
24251         \XC@coremodel\@mod\@clr\@xcolor@{}{}\@mod\@clr
24252     \fi
24253 \fi
24254 \ifconvertcolorsU
24255     \edef\@tmp{\XC@tgt@mod{\@mod}}%
24256     \convertcolorspec\@mod\@clr\@tmp\@clr \let\@mod\@tmp
24257 \fi
24258 \ifmaskcolors
24259     \convertcolorspec\@mod\@clr\XC@mmod\@clr
24260     \let\@mod\XC@mmod
24261     \XC@inflate\@mod\XC@mclr\@clr\@tmp
24262     \expandafter\XC@mul\@tmp,\@clr
24263 \fi
24264 \edef\@tmp{\noexpand\XC@undeclaredcolor{\@mod}{\@clr}}%
24265 \expandafter\endgroup\@tmp}}
24266 \def\@declaredcolor#1%
24267 {\XC@edef\XC@tmp{#1}\XC@tstfalse
24268 \ifcase\XC@type\XC@tmp\relax \XC@tsttrue\or \relax\else
24269     \ifblendcolors\XC@tsttrue\fi \ifmaskcolors\XC@tsttrue\fi
24270     \ifconvertcolorsU\XC@tsttrue\fi
24271 \fi
24272 \ifXC@tst
24273     \expandafter\XC@declaredcolor\else
24274     \expandafter\XC@declaredcolor\fi}
24275 \def\XC@undeclaredcolor#1#2%
24276 {\@ifundefinedmodel{#1}%
24277     {\c@lor@error{model `#1'}}%
24278     {\@nameuse{color@#1}\current@color{#2}}%
24279     \edef\XC@current@color{\noexpand\xcolor@{}{\current@color}{#1}{#2}}%
24280     \XC@display}\ifhmode\ifRTL\beginR\aftergroup\endL\fi\fi\ignorespaces}
24281 \def\XC@declaredcolor
24282 {\XC@let\Nc\XC@current@color{\string\color@\XC@tmp}%
24283 \edef\current@color{\XC@current@color}%
24284 \XC@display\ifhmode\ifRTL\beginR\aftergroup\endL\fi\fi\ignorespaces}
24285 \DeclareRobustCommand\bidicolor
24286 {\@ifnextchar[\@bidiundeclaredcolor\@bidideclaredcolor}
24287 \def\@bidiundeclaredcolor[#1]#2%
24288 {\begingroup
24289 \let\@cls\@empty
24290 \XC@getmodclr12{#1}{#2}}%
24291 {\ifblendcolors
24292     \ifx\colorblend\@empty\else
24293         \edef\@mix{\expandafter@gobble\colorblend}\@tempwafalse
24294         \XC@coremodel\@mod\@clr\@xcolor@{}{}\@mod\@clr
24295     \fi
24296 \fi
24297 \ifconvertcolorsU
24298     \edef\@tmp{\XC@tgt@mod{\@mod}}%
24299     \convertcolorspec\@mod\@clr\@tmp\@clr \let\@mod\@tmp
24300 \fi
24301 \ifmaskcolors
24302     \convertcolorspec\@mod\@clr\XC@mmod\@clr
24303     \let\@mod\XC@mmod

```



```

24304 \XC@inflate\@@mod\XC@mclr\@@clr\@@tmp
24305 \expandafter\XC@mul\@@tmp,\@@clr
24306 \fi
24307 \edef\@@tmp{\noexpand\XC@bidiundeclaredcolor{\@@mod}{\@@clr}}%
24308 \expandafter\endgroup\@@tmp}}
24309 \def\XC@bidiundeclaredcolor#1#2%
24310 {\@ifundefinedmodel{#1}%
24311 {\c@lor@error{model `#1'}}%
24312 {\@nameuse{color@#1}\current@color{#2}%
24313 \edef\XC@current@color{\noexpand\xcolor@}{\current@color}{#1}{#2}}%
24314 \XC@display}}
24315 \def\@bidideclaredcolor#1%
24316 {\XC@edef\XC@@tmp{#1}\XC@tstfalse
24317 \ifcase\XC@type\XC@@tmp\relax \XC@tsttrue\or \relax\else
24318 \ifblendcolors\XC@tsttrue\fi \ifmaskcolors\XC@tsttrue\fi
24319 \ifconvertcolorsU\XC@tsttrue\fi
24320 \fi
24321 \ifXC@tst
24322 \expandafter\XC@bidideclaredcolor\else
24323 \expandafter\XC@bidideclaredc@lor\fi}
24324 \def\XC@bidideclaredcolor
24325 {\XC@split\XC@@tmp
24326 \edef\@@tmp{\noexpand\@bidiundeclaredcolor[\@@mod]{\@@clr}}%
24327 \expandafter\endgroup\@@tmp}
24328 \def\XC@bidideclaredc@lor
24329 {\XC@let@Nc\XC@current@color{\string\color@\XC@@tmp}%
24330 \edef\current@color{\XC@current@color}%
24331 \XC@display}
24332 \def\color@box#1#2{\color@b@x\relax{\bidicolor#1{#2}}}
24333 \def\color@fbbox#1#2#3{\protect\color@fb@x{#1}{#2}{#3}}
24334 \def\color@fb@x#1#2#3#4%
24335 {\color@b@x{\fbboxsep\z@\bidicolor#1{#2}\XC@fbbox}%
24336 {\@ifxempty{#3}{\bidicolor#1}{\bidicolor#3}{#4}}}
24337 \def\color@setgroup{\begingroup\ifhmode\if@RTL\beginL\aftergroup\endR\fi\fi\set@color\ifhmode

```

## 162 File latex-xetex-bidi.def

```

24338 \ProvidesFile{latex-xetex-bidi.def}[2022/07/04 v1.4.9 bidi adaptations for `latex.ltx' for
24339 \newcommand{\TeXXeTOn}{\TeXXeTstate\@ne}
24340 \newcommand{\TeXXeTOff}{\TeXXeTstate\z@}
24341 \TeXXeTOn
24342 \def\bidi@RTL@everypar{\setbox\z@\lastbox\if@RTL\beginR\else\beginL\fi\ifvoid\z@\else\usebo
24343 \let\bidi@o@everypar=\everypar
24344 \newtoks\bidi@n@everypar
24345 \bidi@n@everypar\expandafter{\the\bidi@o@everypar}
24346 \bidi@o@everypar{\bidi@RTL@everypar\the\bidi@n@everypar}
24347 \let\everypar=\bidi@n@everypar
24348 \def\moreLRE{\bracetext \aftergroup\endL \beginL\@RTLfalse}
24349 \def\moreRLE{\bracetext \aftergroup\endR \beginR\@RTLtrue}
24350 \protected\def\hboxR{\hbox\bgroup
24351 \everyhbox{%
24352 \aftergroup\egroup
24353 \everyhbox{}}%
24354 \beginR

```



```

24355 \@hboxRconstructtrue
24356 \bgroup
24357 \aftergroup\endR
24358 \aftergroup\egroup
24359 }\hbox}
24360 \protected\def\hboxL{\hbox\bgroup
24361 \everyhbox{%
24362 \aftergroup\egroup
24363 \everyhbox{}}%
24364 \beginL
24365 \@hboxRconstructfalse
24366 \bgroup
24367 \aftergroup\endL
24368 \aftergroup\egroup
24369 }\hbox}
24370 \protected\def\vboxR{\vbox\bgroup
24371 \everyvbox{%
24372 \aftergroup\egroup
24373 \everyvbox{}}%
24374 \@RTLtrue
24375 \@RTLtabtrue
24376 \bgroup
24377 \aftergroup\egroup
24378 }\vbox}
24379 \protected\def\vboxL{\vbox\bgroup
24380 \everyvbox{%
24381 \aftergroup\egroup
24382 \everyvbox{}}%
24383 \@RTLfalse
24384 \@RTLtabfalse
24385 \bgroup
24386 \aftergroup\egroup
24387 }\vbox}
24388 \newcommand*{\bidi@leftskip}{\if@RTL\rightskip\else\leftskip\fi}
24389 \newcommand*{\bidi@rightskip}{\if@RTL\leftskip\else\rightskip\fi}
24390 \def\LTR{\par\@RTLfalse\@RTL@footnotefalse\@RTLtabfalse\hsize\linewidth\parshape\z@\bidi@beamer}
24391 \def\endLTR{\par}
24392 \newenvironment{LTR*}{\LTR
24393 \everypar{%
24394 {\setbox\z@\lastbox
24395 \ifvoid\z@
24396 \kern-\parindent
24397 \fi}%
24398 }%
24399 }\endLTR\@endpetrue}
24400 \def\RTL{\par\@RTLtrue\@RTL@footnotetrue\@RTLtabtrue\hsize\linewidth\parshape\z@\bidi@beamer}
24401 \def\endRTL{\par}
24402 \newenvironment{RTL*}{\RTL
24403 \everypar{%
24404 {\setbox\z@\lastbox
24405 \ifvoid\z@
24406 \kern-\parindent
24407 \fi}%
24408 }%

```



```

24409 }{\endRTL\@endptrue}
24410 \def\setRTL{\@RTLtrue\@RTLfootnotetrue\@RTLtabtrue\@RTL@beamer@ragged}
24411 \def\setLTR{\@RTLfalse\@RTLfootnotefalse\@RTLtabfalse\@RTL@beamer@ragged}
24412 \let\unsetRTL=\setLTR
24413 \let\unsetLTR=\setRTL
24414 \let\LR=\LRE
24415 \let\RL=\RLE
24416 \def\@ensure@RTL#1{\if@RTL#1\else\RLE{#1}\fi}
24417 \def\@ensure@LTR#1{\if@RTL\LRE{#1}\else#1\fi}
24418 \let\@ensure@RL=\@ensure@RTL
24419 \let\@ensure@LR=\@ensure@LTR
24420 \def\@ensure@dir#1{\if@RTL\RLE{#1}\else{#1}\fi}
24421 \let\@ensure@maindir=\@ensure@dir
24422 \def\@RTL{RTL}
24423 \def\@LTR{LTR}
24424 \def\save@dir{\if@RTL\gdef\saved@dir{RTL}\else\gdef\saved@dir{LTR}\fi}
24425 \def\reset@dir{\ifx\saved@dir\@RTL\setRTL\else\ifx\saved@dir\@LTR\setLTR\else\relax\fi}
24426 \let\@TeX\TeX
24427 \def\TeX{\@ensure@LTR{\@TeX}}
24428 \let\@LaTeX\LaTeX
24429 \def\LaTeX{\@ensure@LTR{\@LaTeX}}
24430 \let\@LaTeXe\LaTeXe
24431 \def\LaTeXe{\@ensure@LTR{\@LaTeXe}}
24432 \long\def\@bidi@reflect@box#1{%
24433   \leavevmode
24434   \setbox\z@\hbox{#1}%
24435   \setbox\tw@\hbox{\special{x:gsave}\special{x:scale -1 1}\rlap{\copy\z@}\special{x:grestore}}
24436   \hb@xt@\wd\z@{\kern\wd\z@\box\tw@\hss}%
24437 }
24438 \bidi@newrobustcmd*\XeTeX{\LR{\leavevmode$\smash{\hbox{X}\lower.5ex
24439   \hbox{\kern-.125em\@bidi@reflect@box{E}}\kern-.1667em \TeX}}$}}
24440 \bidi@newrobustcmd*\XeLaTeX{\LR{\leavevmode$\smash{\hbox{X}\lower.5ex
24441   \hbox{\kern-.125em\@bidi@reflect@box{E}}\kern-.1667em \LaTeX}}$}}
24442 \let\setRL=\setRTL
24443 \let\setLR=\setLTR
24444 \let\unsetRL=\setLTR
24445 \def\@bidi@tabular@RTLcases{\let\@halignto\@empty\@bidi@tabular@RTLcases}
24446 \@ifpackageloaded{array}{%
24447 \def\@bidi@tabular@RTLcases{\@RTLtabtrue%
24448   \leavevmode
24449   \hbox \bgroup $\left.\col@sep\tabcolsep \let\dollarbegin\begin\group
24450                                     \let\dollarend\end\group
24451   \@tabarray}
24452 \def\endbidi@tabular@RTLcases{\endarray \right\rbrace$\egroup}
24453 }{%
24454 \def\@bidi@tabular@RTLcases{\@RTLtabtrue%
24455   \leavevmode \hbox \bgroup
24456   $\left.\let\@acol\@tabacol
24457   \let\@classz\@tabclassz
24458   \let\@classiv\@tabclassiv \let\\\@tabularcr\@tabarray}
24459
24460 \def\endbidi@tabular@RTLcases{\crr\egroup\if@RTLtab\egroup\endR\egroup\fi
24461   \egroup\right\rbrace $\egroup}}
24462 \def\RTLcases#1{\left.\vcenter{\normalbaselines\m@th

```



```

24463 \ialign{##\hfil$&\quad{##}\hfil\crr#1\crr}}\,\right\}}
24464 \renewenvironment{RTLcases}{%
24465 \bidi@matrix@check\RTLcases\env@RTLcases
24466 }{%
24467 \endbidi@tabular@RTLcases%
24468 }
24469 \def\env@RTLcases{%
24470 \let\@ifnextchar\bidi@new@ifnextchar
24471 \def\arraystretch{1.2}%
24472 \bidi@tabular@RTLcases{@{}r@{\quad}r@{}}}%
24473 }
24474 \def\SepMark#1{\gdef\@SepMark{#1}}
24475 \SepMark{.}
24476 \def\@thmcountersep{\@SepMark}
24477 \def\setRTLbibitems{\@RTLbibitemstrue\@LTRbibitemsfalse}
24478 \def\setLTRbibitems{\@LTRbibitemstrue\@RTLbibitemsfalse}
24479 \def\setdefaultbibitems{\@RTLbibitemsfalse\@LTRbibitemsfalse}
24480 \newcommand*{\bidi@thebibliography@font@hook}{}
24481 \def\list#1#2{%
24482 \ifnum \@listdepth >5\relax
24483 \toodeep
24484 \else
24485 \global\advance\@listdepth\@ne
24486 \fi
24487 \rightmargin\z@
24488 \listparindent\z@
24489 \itemindent\z@
24490 \csname @list\romannumeral\the\@listdepth\endcsname
24491 \def\@itemlabel{#1}%
24492 \let\makelabel\@mklab
24493 \@nmbrlistfalse
24494 #2\relax
24495 \@trivlist
24496 \parskip\parsep
24497 \parindent\listparindent
24498 \advance\linewidth -\rightmargin
24499 \advance\linewidth -\leftmargin
24500 \if@bidi@list@minipage@parbox
24501 \if@RTL
24502 \advance\@totalleftmargin \leftmargin
24503 \else
24504 \advance\@totalleftmargin \rightmargin
24505 \fi
24506 \else
24507 \if@hboxRconstruct
24508 \if@bidi@list@minipage@parbox@not@nob
24509 \if@RTL
24510 \advance\@totalleftmargin \rightmargin
24511 \else
24512 \advance\@totalleftmargin \leftmargin
24513 \fi
24514 \else
24515 \if@RTL
24516 \advance\@totalleftmargin \leftmargin

```



```

24517 \else
24518 \advance\@totalleftmargin \rightmargin
24519 \fi\fi
24520 \else
24521 \if@RTL
24522 \advance\@totalleftmargin \rightmargin
24523 \else
24524 \advance\@totalleftmargin \leftmargin
24525 \fi\fi\fi
24526 \parshape \@ne \@totalleftmargin \linewidth
24527 \ignorespaces}
24528 \long\def\@iiiparbox#1#2[#3]#4#5{%
24529 \leavevmode
24530 \@pboxswfalse
24531 \if@hboxRconstruct
24532 \@bidi@list@minipage@parbox@not@nobtrue
24533 \fi
24534 \if@RTL
24535 \ifx#1t%
24536 \@bidi@list@minipage@parboxtrue
24537 \else
24538 \ifx#1b%
24539 \@bidi@list@minipage@parboxtrue
24540 \fi
24541 \fi
24542 \fi
24543 \setlength\@tempdima{#4}%
24544 \@begin@tempboxa\vbox{\hsize\@tempdima\@parboxrestore#5\@@par}%
24545 \ifx\relax#2\else
24546 \setlength\@tempdimb{#2}%
24547 \edef\@parboxto{to\the\@tempdimb}%
24548 \fi
24549 \if#1b\vbox
24550 \else\if #1t\vtop
24551 \else\ifmode\vcenter
24552 \else\@pboxswtrue $\vcenter
24553 \fi\fi\fi
24554 \@parboxto{\let\hss\vss\let\unhbox\unvbox
24555 \csname bm@#3\endcsname}%
24556 \if@pboxsw \m@th$\fi
24557 \@end@tempboxa}
24558 \newenvironment{LTRitems}
24559 {\par\@RTLfalse\@RTLtabfalse\bidi@beamer@ragged
24560 \if@bidi@list@minipage@parbox
24561 \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth
24562 \else \if@hboxRconstruct\if@bidi@list@minipage@parbox@not@nob
24563 \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\else
24564 \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\fi
24565 \else \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\fi
24566 \ignorespaces}{\vskip\z@}
24567 \newenvironment{RTLitems}
24568 {\par\@RTLtrue\@RTLtabtrue\bidi@beamer@ragged
24569 \if@bidi@list@minipage@parbox
24570 \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth

```



```

24571         \else \if@hboxRconstruct\if@bidi@list@minipage@parbox@not@nob
24572         \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\else
24573         \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\fi
24574         \else \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\fi
24575         \ignorespaces}{\vskip\z@}
24576 \newenvironment{LTRbibitems}
24577 {
24578   \par\@RTLfalse\@RTLtabfalse\@bidi@beamer@ragged
24579   \if@bidi@list@minipage@parbox
24580   \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth
24581   \else \if@hboxRconstruct\if@bidi@list@minipage@parbox@not@nob
24582   \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\else
24583   \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\fi
24584   \else \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\fi
24585   \ignorespaces}{\vskip\z@}
24586 \newenvironment{RTLbibitems}
24587 {
24588   \par\@RTLtrue\@RTLtabtrue\@bidi@beamer@ragged
24589   \if@bidi@list@minipage@parbox
24590   \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth
24591   \else \if@hboxRconstruct\if@bidi@list@minipage@parbox@not@nob
24592   \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\else
24593   \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\fi
24594   \ignorespaces}{\vskip\z@}
24595 \def\raggedright{%
24596   \let\\\@centercr\@rightskip\@flushglue \rightskip\@rightskip
24597   \leftskip\z@skip
24598   \parindent\z@\parfillskip\z@skip}
24599 \let\@bidi@orig@raggedleft\raggedleft
24600 \let\@bidi@orig@raggedright\raggedright
24601 \renewcommand\raggedleft{\if@bidi@list@minipage@parbox\@bidi@orig@raggedright\else\if@hboxRconstruct\if@bidi@list@minipage@parbox@not@nob\parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\else\parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\fi\fi}
24602 \renewcommand\raggedright{\if@bidi@list@minipage@parbox\@bidi@orig@raggedleft\else\if@hboxRconstruct\if@bidi@list@minipage@parbox@not@nob\parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\else\parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\fi\fi}
24603 \newcommand{\@bidi@raggedright}{\if@RTL\raggedleft\else\raggedright\fi}
24604 \newcommand{\@bidi@raggedleft}{\if@RTL\raggedright\else\raggedleft\fi}
24605 \def\centerline#1{%
24606   \if@RTL\@@line{\hss\beginR#1\endR\hss}
24607   \else\@@line{\hss#1\hss}\fi}
24608 \def\leftline#1{%
24609   \if@RTL\@@line{\beginR#1\endR\hss}
24610   \else\@@line{#1\hss}\fi}
24611 \def\rightline#1{%
24612   \if@RTL\@@line{\hss\beginR#1\endR}
24613   \else\@@line{\hss#1}\fi}
24614 \let\@bidi@orig@leftline\leftline
24615 \let\@bidi@orig@rightline\rightline
24616 \def\leftline#1{\ifhmode\if@RTL\@bidi@orig@rightline{#1}\else\@bidi@orig@leftline{#1}\fi\else\@bidi@orig@leftline{#1}\fi}
24617 \def\rightline#1{\ifhmode\if@RTL\@bidi@orig@leftline{#1}\else\@bidi@orig@rightline{#1}\fi\else\@bidi@orig@rightline{#1}\fi}
24618 \def\bidirlap#1{\hb@xt@0\z@{\if@RTL\hss\fi#1\if@RTL\else\hss\fi}}
24619 \def\bidillap#1{\hb@xt@0\z@{\if@RTL\else\hss\fi#1\if@RTL\hss\fi}}
24620 \def\hangfrom#1{\setbox\@tempboxa\hbox{#1}}
24621 \def\hangindent \if@RTL-\else\fi\wd\@tempboxa\noindent\box\@tempboxa}
24622 \def\narrower{%
24623   \advance\if@RTL\rightskip\else\leftskip\fi\parindent
24624   \advance\if@RTL\leftskip\else\rightskip\fi\parindent}
24625 \def\underline#1{%

```



```

24625 \relax
24626 \ifmode\@underline{#1}%
24627 \else
24628 \ifRTL $\@underline{\hbox{\beginR#1\endR}}\m@th$\relax
24629 \else
24630 $\@underline{\hbox{#1}}\m@th$\relax\fi\fi}
24631 \ifcompatibility
24632 \let\undertext=\underline
24633 \fi
24634 \def\@tabular{%
24635 \leavevmode \hbox \bgroup \ifRTLT\beginR \fi
24636 $\let\@acol\@tabacol
24637 \let\@classz\@tabclassz
24638 \let\@classiv\@tabclassiv \let\\\@tabulacr\@tabarray}
24639 \def\endtabular{\crr\egroup\ifRTLT\endR\egroup\endR\egroup\fi
24640 \egroup $\ifRTLT\endR\fi\egroup}
24641 \expandafter \let \csname endtabular*\endcsname = \endtabular
24642 \def\@array[#1]#2{%
24643 \if #1t\top \else \if#1b\box \else \vcenter \fi\fi
24644 \bgroup
24645 \setbox\@arstrutbox\hbox{%
24646 \vrule \@height\arraystretch\ht\strutbox
24647 \@depth\arraystretch\dp\strutbox
24648 \@width\z@}%
24649 \mkpream{#2}%
24650 \edef\@preamble{%
24651 \ialign \noexpand\@halignto
24652 \bgroup \@arstrut \@preamble \tabskip\z@skip \cr}%
24653 \let\@startpbox\@startpbox \let\@endpbox\@endpbox
24654 \let\@tabularnewline\\
24655 \let\par\@empty
24656 \let\@sharp##
24657 \set@typeset@protect
24658 \lineskip\z@skip\baselineskip\z@skip
24659 \ifmode \@preamerr\z@ \@par\fi
24660 \ifRTLT\hbox\bgroup\beginR\@hboxRconstructtrue\if #1t\top \else \vbox \fi\bgroup\fi
24661 \@preamble}
24662 \def\array{\let\@acol\@arrayacol \let\@classz\@arrayclassz
24663 \let\@classiv\@arrayclassiv
24664 \let\\\@arraycr\let\@halignto\@empty\RTLT\false\@tabarray}
24665 \def\@testpach#1{\@chclass \ifnum \@lastchclass=\tw@ 4 \else
24666 \ifnum \@lastchclass=3 5 \else
24667 \z@ \if #1c\@chnum \z@ \else
24668 \if \ifRTLT\#1r\else#1l\fi\@chnum \@ne \else
24669 \if \ifRTLT\#1l\else#1r\fi\@chnum \tw@ \else
24670 \@chclass \if #1|\@ne \else
24671 \if #1|\tw@ \else
24672 \if #1p3 \else \z@ \@preamerr 0\fi
24673 \fi \fi \fi \fi \fi \fi
24674 \fi}
24675 \def\bm@l{\ifRTL\hss\unhbox\@tempboxa\else\unhbox\@tempboxa\hss\fi}
24676 \def\bm@r{\ifRTL\unhbox\@tempboxa\hss\else\hss\unhbox\@tempboxa\fi}
24677 \def\bm@t{\unhbox\@tempboxa\hss}
24678 \def\bm@b{\hss\unhbox\@tempboxa}

```



```

24679 \def\@dottedtocline#1#2#3#4#5{%
24680   \ifnum #1>\c@tocdepth \else
24681     \vskip \z@ \@plus.2\p@
24682     {\if@RTL\righskip\else\leftskip\fi #2\relax \if@RTL\leftskip\else\righskip\fi \@tocma
24683     \parindent #2\relax\@afterindenttrue
24684     \interlinepenalty\@M
24685     \leavevmode
24686     \@tempdima #3\relax
24687     \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
24688     {#4}\nobreak
24689     \leaders\hbox{$\m@th
24690       \mkern \@dotsep mu\hbox{.}\mkern \@dotsep
24691       mu$}\hfill
24692     \nobreak
24693     \hb@xt@\@pnumwidth{{\hfil\normalfont \normalcolor #5}}%
24694     \par}%
24695   \fi}
24696
24697 \newcount\bidicolumn@check@number
24698
24699 \def\bidicolumn@status#1{\gdef\bidicurrent@column@status{#1}}
24700
24701 \def\bidiset@column@status#1#2{%
24702   \global\expandafter\let\csname #1\endcsname\bidicurrent@column@status}
24703
24704 \if@twocolumn
24705 \newcommand\DetectColumn[3][1]{%
24706   \ifx\bidifirstcolumn@status\write\relax
24707     \PackageError{bidi}%
24708       {Option 'DetectColumn' not selected}%
24709       {\string\DetectColumn\space
24710        requires the use of the 'DetectColumn'
24711        option on the package}%
24712   \fi
24713   \global\advance\bidicolumn@check@number\@ne
24714   \edef\bidicolumn@type{\expandafter\ifx
24715     \csname bidi@column-\the\bidicolumn@check@number\endcsname\relax
24716     0\else
24717     \csname bidi@column-\the\bidicolumn@check@number\endcsname
24718     \fi}%
24719   \ifcase \bidicolumn@type\relax
24720     \ifcase #1\or #2\or#3\fi % 0 not known use first column as default
24721   \or
24722     #2% % 1 First column
24723   \or
24724     #3% % 2 Second (Last column)
24725   \else
24726     \ERROR
24727   \fi
24728   \edef\next{\write\@auxout
24729     {\string\bidiset@column@status{\bidicolumn-\the\bidicolumn@check@number}%
24730      {\bidicolumn@type}}}%
24731   \next
24732 }

```



```

24733
24734 \AtEndDocument{\def\ bidi@set@column@status#1#2{%
24735     \ifnum #2=\bidi@current@column@status\else
24736         \@tempwatrue
24737     \fi}%
24738 }
24739 \fi
24740
24741 \def\RTL@outputdblcol{%
24742     \if@firstcolumn
24743         \global\@firstcolumnfalse
24744         \global\setbox\@leftcolumn\copy\@outputbox
24745         \splitmaxdepth\maxdimen
24746         \vbadness\maxdimen
24747         \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
24748         \setbox\@outputbox\vsplit\@outputbox to\maxdimen
24749         \toks@\expandafter{\topmark}%
24750         \xdef\@firstcoltopmark{\the\toks@}%
24751         \toks@\expandafter{\splitfirstmark}%
24752         \xdef\@firstcolfirstmark{\the\toks@}%
24753         \ifx\@firstcolfirstmark\@empty
24754             \global\let\@setmarks\relax
24755         \else
24756             \gdef\@setmarks{%
24757                 \let\firstmark\@firstcolfirstmark
24758                 \let\topmark\@firstcoltopmark}%
24759         \fi
24760     \else
24761         \global\@firstcolumntrue
24762         \setbox\@outputbox\vbox{%
24763             \hb@xt@\textwidth{%
24764                 \hskip \columnwidth
24765                 \hfil
24766                 {\normalcolor\vrule \@width\columnseprule}%
24767                 \hfil
24768                 \hb@xt@\columnwidth{%
24769                     \bidi@firstcolumn@status@write%
24770                     \box\@leftcolumn \hss}%
24771                 \hskip -\textwidth
24772                 \hb@xt@\columnwidth{%
24773                     \bidi@lastcolumn@status@write%
24774                     \box\@outputbox \hss}%
24775                 \hskip \columnsep
24776                 \hskip \columnwidth }}%
24777     \@combinedblfloats
24778     \@setmarks
24779     \@outputpage
24780     \begingroup
24781         \@dblfloatplacement
24782         \@startdblcolumn
24783         \@whilesw\if@fcolmade \fi{\@outputpage
24784             \@startdblcolumn}%
24785     \endgroup
24786 \fi}%

```



```

24787
24788 \def\LTR@outputdblcol{%
24789   \if@firstcolumn
24790     \global\@firstcolumnfalse
24791     \global\setbox\@leftcolumn\copy\@outputbox
24792     \splitmaxdepth\maxdimen
24793     \vbadness\maxdimen
24794     \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
24795     \setbox\@outputbox\vsplit\@outputbox to\maxdimen
24796     \toks@\expandafter{\topmark}%
24797     \xdef\@firstcoltopmark{\the\toks@}%
24798     \toks@\expandafter{\splitfirstmark}%
24799     \xdef\@firstcolfirstmark{\the\toks@}%
24800     \ifx\@firstcolfirstmark\@empty
24801       \global\let\@setmarks\relax
24802     \else
24803       \gdef\@setmarks{%
24804         \let\firstmark\@firstcolfirstmark
24805         \let\topmark\@firstcoltopmark}%
24806     \fi
24807   \else
24808     \global\@firstcolumntrue
24809     \setbox\@outputbox\vbox{%
24810       \hb@xt@\textwidth{%
24811         \hb@xt@\columnwidth{%
24812           \bidi@firstcolumn@status@write%
24813           \box\@leftcolumn \hss}%
24814         \hfil
24815         {\normalcolor\vrule \@width\columnseprule}%
24816         \hfil
24817         \hb@xt@\columnwidth{%
24818           \bidi@lastcolumn@status@write%
24819           \box\@outputbox \hss}}}%
24820   \@combinedblfloats
24821   \@setmarks
24822   \@outputpage
24823   \begingroup
24824     \@dblfloatplacement
24825     \@startdblcolumn
24826     \@whilesw\if@fcolmade \fi{\@outputpage
24827       \@startdblcolumn}%
24828   \endgroup
24829 \fi}%
24830
24831
24832 \renewcommand{\@outputdblcol}{\if@RTLmain\RTL@outputdblcol\else\LTR@outputdblcol\fi}
24833 \newcommand{\RTLdblcol}{\renewcommand{\@outputdblcol}{\RTL@outputdblcol}}
24834 \newcommand{\LTRdblcol}{\renewcommand{\@outputdblcol}{\LTR@outputdblcol}}
24835
24836 \bidi@patchcmd\@makecol{%
24837   \ifvoid\footins
24838     \setbox\@outputbox \box\@cclv
24839   \else
24840     \setbox\@outputbox \vbox {%

```



```

24841         \boxmaxdepth \@maxdepth
24842         \unvbox \@cclv
24843         \vskip \skip\footins
24844         \color@begingroup
24845         \normalcolor
24846         \footnoterule
24847         \unvbox \footins
24848         \color@endgroup
24849     }%
24850 \fi
24851 }{%
24852 \ifvoid\footins
24853     \ifvoid\@bidi@copyins@
24854         \setbox\@outputbox \box\@cclv
24855     \else
24856         \setbox\@outputbox \vbox {%
24857             \boxmaxdepth \@maxdepth
24858             \unvbox \@cclv
24859             \vskip \skip\@bidi@copyins@
24860             \color@begingroup
24861             \normalcolor
24862             \unvbox \@bidi@copyins@
24863             \color@endgroup
24864         }%
24865     \fi
24866 \else
24867     \setbox\@outputbox \vbox {%
24868         \boxmaxdepth \@maxdepth
24869         \unvbox \@cclv
24870         \vskip \skip\footins
24871         \color@begingroup
24872         \normalcolor
24873         \footnoterule
24874         \unvbox \footins
24875         \color@endgroup
24876         \ifvoid\@bidi@copyins@
24877         \else
24878             \vskip \skip\@bidi@copyins@
24879             \color@begingroup
24880             \normalcolor
24881             \unvbox \@bidi@copyins@
24882             \color@endgroup
24883         \fi
24884     }%
24885 \fi
24886 }{}{}
24887
24888 \def\LTRmarginpar{%
24889     \ifhmode
24890         \@bsphack
24891         \@floatpenalty -\@Mii
24892     \else
24893         \@floatpenalty-\@Miii
24894     \fi

```



```

24895 \ifinner
24896 \@parmoderr
24897 \@floatpenalty\z@
24898 \else
24899 \@next\@currbox\@freelist{}\{}%
24900 \@next\@marbox\@freelist{\global\count\@marbox\m@ne}%
24901 {\@floatpenalty\z@
24902 \@fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}%
24903 \fi
24904 \ifnextchar [\@LTRxmpar\@LTRympar}
24905 \long\def\@LTRxmpar[#1]#2{%
24906 \@LTRsavemarbox\@marbox{#1}%
24907 \@LTRsavemarbox\@currbox{#2}%
24908 \@xympar}
24909 \long\def\@LTRympar#1{%
24910 \@LTRsavemarbox\@marbox{#1}%
24911 \global\setbox\@currbox\copy\@marbox
24912 \@xympar}
24913 \long\def \@LTRsavemarbox #1#2{%
24914 \global\setbox #1%
24915 \color@vbox
24916 \vtop{%
24917 \hsize\marginparwidth
24918 \@parboxrestore
24919 \@LTRmarginparreset
24920 #2%
24921 \@minipagefalse
24922 \outer@nobreak
24923 }%
24924 \color@endbox
24925 }
24926 \def \@LTRmarginparreset {%
24927 \reset@font
24928 \normalsize
24929 \@minipagetrue
24930 \everypar{\@minipagefalse\everypar{}\beginL}%
24931 }
24932 \def\RTLmarginpar{%
24933 \ifhmode
24934 \@bsphack
24935 \@floatpenalty -\@Mii
24936 \else
24937 \@floatpenalty-\@Miii
24938 \fi
24939 \ifinner
24940 \@parmoderr
24941 \@floatpenalty\z@
24942 \else
24943 \@next\@currbox\@freelist{}\{}%
24944 \@next\@marbox\@freelist{\global\count\@marbox\m@ne}%
24945 {\@floatpenalty\z@
24946 \@fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}%
24947 \fi
24948 \ifnextchar [\@RTLxmpar\@RTLympar}

```



```

24949 \long\def\@RTLxmpar[#1]#2{%
24950 \@RTLSavemarbox\@marbox{#1}%
24951 \@RTLSavemarbox\@currbox{#2}%
24952 \@xympar}
24953 \long\def\@RTLympar#1{%
24954 \@RTLSavemarbox\@marbox{#1}%
24955 \global\setbox\@currbox\copy\@marbox
24956 \@xympar}
24957 \long\def \@RTLSavemarbox #1#2{%
24958 \global\setbox #1%
24959 \color@vbox
24960 \vtop{%
24961 \hsize\marginparwidth
24962 \@parboxrestore
24963 \@RTLMarginparreset
24964 #2%
24965 \@minipagefalse
24966 \outer@nobreak
24967 }%
24968 \color@endbox
24969 }
24970 \def \@RTLMarginparreset {%
24971 \reset@font
24972 \normalsize
24973 \@minipagetrue
24974 \everypar{\@minipagefalse\everypar{}\beginR}%
24975 }
24976 \def\@addmarginpar{\@next\@marbox\@currlist{\@cons\@freelist\@marbox
24977 \@cons\@freelist\@currbox}\@latexbug\@tempcnta\@ne
24978 \if@twocolumn
24979 \if@firstcolumn \@tempcnta\m@ne \fi
24980 \else
24981 \if@mparswitch
24982 \ifodd\c@page \else\@tempcnta\m@ne \fi
24983 \fi
24984 \if@reversemargin \@tempcnta -\@tempcnta \fi
24985 \fi
24986 \ifnum\@tempcnta <\z@ \global\setbox\@marbox\box\@currbox \fi
24987 \@tempdima\@mparbottom
24988 \advance\@tempdima -\@pageht
24989 \advance\@tempdima\ht\@marbox
24990 \ifdim\@tempdima >\z@
24991 \@latex@warning@no@line {Marginpar on page \thepage\space moved}%
24992 \else
24993 \@tempdima\z@
24994 \fi
24995 \global\@mparbottom\@pageht
24996 \global\advance\@mparbottom\@tempdima
24997 \global\advance\@mparbottom\dp\@marbox
24998 \global\advance\@mparbottom\marginparpush
24999 \advance\@tempdima -\ht\@marbox
25000 \global\setbox \@marbox
25001 \vbox {\vskip \@tempdima
25002 \box \@marbox}%

```



```

25003 \global \ht\@marbox \z@
25004 \global \dp\@marbox \z@
25005 \kern -\@pagedp
25006 \nointerlineskip
25007 \hb@xt@\columnwidth
25008 {\if@RTL\if@LTRmarginpar\beginL\else\beginR\fi\else\if@RTLmarginpar\beginR\else\beginL
25009 \hskip\columnwidth \hskip\marginparsep
25010 \else
25011 \hskip -\marginparsep \hskip -\marginparwidth
25012 \fi
25013 \box\@marbox \hss\if@RTL\if@LTRmarginpar\endL\else\endR\fi\else\if@RTLmarginpar\endR\
25014 \nointerlineskip
25015 \hbox{\vrule \@height\z@ \@width\z@ \@depth\@pagedp}}
25016 \long\def\@ympar#1{%
25017 \@savemarbox\@marbox{\if@RTL\if@LTRmarginpar\@RTLfalse\else\@RTLtrue\fi\else\if@RTLmarginpar
25018 \global\setbox\@currbox\copy\@marbox
25019 \@xympar}
25020 \def\setRTLmarginpar{\@RTLmarginpartrue\@LTRmarginparfalse}
25021 \def\setLTRmarginpar{\@LTRmarginpartrue\@RTLmarginparfalse}
25022 \def\setdefaultmarginpar{\@RTLmarginparfalse\@LTRmarginparfalse}
25023 \def\@stopline{\unskip\@stopfield\if@rjfield \global\@rjfieldfalse
25024 \@tempdima\@totalleftmargin \advance\@tempdima\linewidth
25025 \hbox to\@tempdima{\if@RTL\beginR\fi\@itemfudge\hskip\dimen\@curtabmar
25026 \box\@curline\hfil\box\@curfield\if@RTL\endR\fi}\else\@addfield
25027 \hbox to\linewidth{\if@RTL\beginR\fi\@itemfudge
25028 \hskip\dimen\@curtabmar\box\@curline\hfil\if@RTL\endR\fi}%
25029 \fi}
25030
25031 \newcommand*{\bidi@font@@outputpage}{\}
25032
25033 \def\@outputpage{%
25034 \begingroup % the \endgroup is put in by \aftergroup
25035 \let \protect \noexpand
25036 \@resetactivechars
25037 \global\let\@@if@newlist\if@newlist
25038 \global\@newlistfalse
25039 \@parboxrestore
25040 \global\let\bidi@BeforeOutputPageShipOut\@firstofone
25041 \bidi@beforeoutputpageshipouthook
25042 \shipout \vbox{%
25043 \set@typeset@protect
25044 \aftergroup \endgroup
25045 \aftergroup \set@typeset@protect
25046 % correct? or just restore by ending
25047 % the group?
25048 \if@specialpage
25049 \global\@specialpagefalse\@nameuse{ps@\@specialstyle}%
25050 \fi
25051 \if@twoside
25052 \ifodd\count\z@ \let\@thehead\@oddhead \let\@thefoot\@oddfoot
25053 \if@RTLmain
25054 \let\@themargin\evensidemargin
25055 \else
25056 \let\@themargin\oddsidemargin

```



```

25057         \fi
25058     \else \let\@thehead\@evenhead \let\@thefoot\@evenfoot
25059         \ifRTLmain
25060             \let\@themargin\oddsidemargin
25061         \else
25062             \let\@themargin\evensidemargin
25063         \fi
25064     \fi
25065     \ifx\@thehead\@empty \let\@thehead\hfil \fi
25066     \ifx\@thefoot\@empty \let\@thefoot\hfil \fi
25067     \else %% not @twoside
25068         \ifx\@oddhead\@empty \let\@thehead\hfil \fi
25069         \ifx\@oddfoot\@empty \let\@thefoot\hfil \fi
25070     \fi
25071     \reset@font
25072     \normalsize
25073     \bidi@font@@@outputpage
25074     \normalsfcodes
25075     \let\label\@gobble
25076     \let\index\@gobble
25077     \let\glossary\@gobble
25078     \baselineskip\z@skip \lineskip\z@skip \lineskiplimit\z@
25079     \@beginndvi
25080     \vskip \topmargin
25081     \moveright\@themargin \vbox {%
25082         \global\let\@bidi@BeforeHeader\@firstofone
25083         \bidi@beforeheaderhook
25084         \setbox\@tempboxa \vbox to\headheight{%
25085             \vfil
25086             \color@hbox
25087             \normalcolor
25088             \hb@xt@\textwidth{\ifRTLmain\@RTLtrue\beginR\else\@RTLfalse\beginL\fi\@thehead\if@
25089             \color@endbox
25090         }%
25091         \dp\@tempboxa \z@
25092         \box\@tempboxa
25093         \vskip \headsep
25094         \global\let\@bidi@BeforeOutputBoxOutputPage\@firstofone
25095         \bidi@beforeoutputboxoutputpagehook
25096         \box\@outputbox
25097         \global\let\@bidi@AfterOutputBoxOutputPage\@firstofone
25098         \bidi@afteroutputboxoutputpagehook
25099         \global\let\@bidi@BeforeFooter\@firstofone
25100         \bidi@beforefooterhook
25101         \baselineskip \footskip
25102         \color@hbox
25103         \normalcolor
25104         \hb@xt@\textwidth{\ifRTLmain\@RTLtrue\beginR\else\@RTLfalse\beginL\fi\@thefoot\if@
25105         \color@endbox
25106         \global\let\@bidi@AfterFooter\@firstofone
25107         \bidi@afterfooterhook
25108     }%
25109     }%
25110     \global\let\@bidi@AfterOutputPageShipOut\@firstofone

```



```

25111 \bidi@afteroutputpageshipouthook
25112 \global\let\if@newlist\@if@newlist
25113 \global \colht \textheight
25114 \stepcounter{page}%
25115 \let\firstmark\botmark
25116 \global\let\bidi@AtEndOutputPage\@firstofone
25117 \bidi@atendoutputpagehook
25118 }
25119 \long\def\@makecaption#1#2{%
25120 \vskip\abovcaptionskip
25121 \sbox\@tempboxa{#1: #2}%
25122 \ifdim \wd\@tempboxa >\hsize
25123 \if@RTL\beginR\fi#1: #2\if@RTL\endR\fi\par
25124 \else
25125 \global \@minipagefalse
25126 \hb@xt@\hsize{\if@RTL\beginR\fi\hfil\box\@tempboxa\hfil\if@RTL\endR\fi}%
25127 \fi
25128 \vskip\belowcaptionskip}
25129 \let\bidi@saved@eqno=\eqno
25130 \let\bidi@saved@leqno=\leqno
25131 \def\eqno{\ifnum\predisplaydirection<\z@ \bidi@saved@leqno \else \bidi@saved@eqno \fi}
25132 \def\leqno{\ifnum\predisplaydirection<\z@ \bidi@saved@eqno \else \bidi@saved@leqno \fi}
25133 \@ifpackageloaded{amsmath}{}{
25134 \def\@eqnnum{\normalfont \normalcolor \if@RTL\beginR\fi(\theequation)\if@RTL\endR\fi}}
25135 }
25136 \input{footnote-xetex-bidi.def}
25137 \if@twocolumn
25138 \let\autofootnoterule\relax
25139 \let\leftfootnoterule\relax
25140 \let\rightfootnoterule\relax
25141 \textwidthfootnoterule
25142 \fi
25143 \if@bidi@csundef{\@idxitem}{}{%
25144 \renewcommand\@idxitem{\par\hangindent \if@RTL-\fi40\p}%}
25145 }
25146 \@ifpackageloaded{tocbasic}{\input{tocbasic-xetex-bidi.def}}{}
25147 \@ifclassloaded{article}{\@ifclassloaded{svmult}}{\input{article-xetex-bidi.def}}{}
25148 \@ifclassloaded{extarticle}{\input{extarticle-xetex-bidi.def}}{}
25149 \@ifclassloaded{artikel1}{\input{artikel1-xetex-bidi.def}}{}
25150 \@ifclassloaded{artikel2}{\input{artikel2-xetex-bidi.def}}{}
25151 \@ifclassloaded{artikel3}{\input{artikel3-xetex-bidi.def}}{}
25152 \@ifclassloaded{amsart}{\input{amsart-xetex-bidi.def}}{}
25153 \@ifclassloaded{beamer}{\input{beamer-xetex-bidi.def}}{}
25154 \@ifclassloaded{letter}{\input{letter-xetex-bidi.def}}{}
25155 \@ifclassloaded{extletter}{\input{extletter-xetex-bidi.def}}{}
25156 \@ifclassloaded{memoir}{\input{memoir-xetex-bidi.def}}{}
25157 \@ifclassloaded{refrep}{\input{refrep-xetex-bidi.def}}{}
25158 \@ifclassloaded{extreport}{\input{extreport-xetex-bidi.def}}{}
25159 \@ifclassloaded{report}{\@ifpackageloaded{flowfram}}{\input{report-xetex-bidi.def}}{}
25160 \@ifclassloaded{rapport1}{\input{rapport1-xetex-bidi.def}}{}
25161 \@ifclassloaded{rapport3}{\input{rapport3-xetex-bidi.def}}{}
25162 \@ifclassloaded{scrartcl}{\input{scrartcl-xetex-bidi.def}}{}
25163 \@ifclassloaded{scrbook}{\input{scrbook-xetex-bidi.def}}{}
25164 \@ifclassloaded{scrreprt}{\input{scrreprt-xetex-bidi.def}}{}

```



```

25165 \@ifclassloaded{amsbook}{\input{amsbook-xetex-bidi.def}}{}
25166 \@ifclassloaded{extbook}{\input{extbook-xetex-bidi.def}}{}
25167 \@ifclassloaded{boek}{\input{boek-xetex-bidi.def}}{}
25168 \@ifclassloaded{boek3}{\input{boek3-xetex-bidi.def}}{}
25169 \@ifclassloaded{book}{\@ifpackageloaded{flowfram}{}{\input{book-xetex-bidi.def}}{}
25170 \@ifclassloaded{boekest}{\input{boekest-xetex-bidi.def}}{}
25171 \@ifclassloaded{combine}{\input{combine-xetex-bidi.def}}{}
25172 \@ifclassloaded{imsproc}{\input{imsproc-xetex-bidi.def}}{}
25173 \@ifpackageloaded{amsmath}{\%
25174 \@iftagsloaded{leqno}{\input{leqno-xetex-bidi.def}}{}
25175 \@iftagsloaded{fleqn}{\input{fleqn-xetex-bidi.def}}{}
25176 }
25177 \@ifpackageloaded{mathtools}{\%
25178 \RequirePackage{graphicx}%
25179 \input{mathtools-xetex-bidi.def}%
25180 }{}
25181 \@ifpackageloaded{crop}{\RequirePackage{graphicx}}{}
25182 \@ifpackageloaded{lscape}{\RequirePackage{graphicx}}{}
25183 \@ifpackageloaded{sidecap}{\RequirePackage{ragged2e}}{}
25184 \@ifpackageloaded{floatrow}{\RequirePackage{color}}{}
25185 \@ifpackageloaded{algorithm2e}{\input{algorithm2e-xetex-bidi.def}}{}
25186 \@ifpackagewith{algorithm2e}{algonl}{\%
25187 \renewcommand{\theAlgoLine}{\expandafter\csname the\algocf@float\endcsname\@SepMark\arabic{A
25188 }}{}
25189 \@ifpackagewith{algorithm2e}{algotpart}{\renewcommand{\algocf@within}{part}}{}
25190 \@ifpackagewith{algorithm2e}{algotchapter}{\renewcommand{\algocf@within}{chapter}}{}
25191 \@ifpackagewith{algorithm2e}{algotsection}{\renewcommand{\algocf@within}{section}}{}
25192 \@ifpackageloaded{amsmath}{\input{amsmath-xetex-bidi.def}}{}
25193 \@ifpackageloaded{amstext}{\input{amstext-xetex-bidi.def}}{}
25194 \@ifpackageloaded{amsthm}{\input{amsthm-xetex-bidi.def}}{}
25195 \@ifpackageloaded{breqn}{\input{breqn-xetex-bidi.def}}{}
25196 \@ifpackageloaded{cals}{\input{cals-xetex-bidi.def}}{}
25197 \@ifpackageloaded{caption}{\input{caption-xetex-bidi.def}}{}
25198 \@ifpackageloaded{caption3}{\input{caption3-xetex-bidi.def}}{}
25199 \@ifpackageloaded{floatrow}{\input{floatrow-xetex-bidi.def}}{}
25200 \@ifpackageloaded{crop}{\@ifclassloaded{memoir}{}{\input{crop-xetex-bidi.def}}{}
25201 \@ifpackageloaded{color}{\input{color-xetex-bidi.def}}{}
25202 \@ifpackageloaded{cutwin}{\input{cutwin-xetex-bidi.def}}{}
25203 \@ifpackageloaded{cuted}{\input{cuted-xetex-bidi.def}}{}
25204 \@ifpackageloaded{xcolor}{\input{xcolor-xetex-bidi.def}}{}
25205 \@ifpackageloaded{colortbl}{\input{colortbl-xetex-bidi.def}}{}
25206 \@ifpackageloaded{float}{\@ifpackageloaded{floatrow}{}{\input{float-xetex-bidi.def}}{}
25207 \@ifpackageloaded{flowfram}{\input{flowfram-xetex-bidi.def}}{}
25208 \@ifpackageloaded{xltextra}{\input{xltextra-xetex-bidi.def}}{}
25209 \@ifpackageloaded{wrapfig}{\input{wrapfig-xetex-bidi.def}}{}
25210 \@ifpackageloaded{graphicx}{\input{graphicx-xetex-bidi.def}}{}
25211 \@ifpackageloaded{geometry}{\input{geometry-xetex-bidi.def}}{}
25212 \@ifpackageloaded{hvfloat}{\input{hvfloat-xetex-bidi.def}}{}
25213 \@ifpackageloaded{ntheorem}{\input{ntheorem-xetex-bidi.def}}{}
25214 \@ifpackageloaded{tabularx}{\input{tabularx-xetex-bidi.def}}{}
25215 \@ifpackageloaded{longtable}{\input{longtable-xetex-bidi.def}}{}
25216 \@ifpackageloaded{lscape}{\input{lscape-xetex-bidi.def}}{}
25217 \@ifpackageloaded{hyperref}{\input{hyperref-xetex-bidi.def}}{}
25218 \@ifpackageloaded{footnotebackref}{\input{footnotebackref-xetex-bidi.def}}{}

```



```

25219 \@ifpackageloaded{ntheorem-hyper}{\input{ntheorem-hyper-xetex-bidi.def}}{}
25220 \@ifpackageloaded{fancybox}{\input{fancybox-xetex-bidi.def}}{}
25221 \@ifpackageloaded{fancyhdr}{\input{fancyhdr-xetex-bidi.def}}{}
25222 \@ifpackageloaded{fix2col}{\input{fix2col-xetex-bidi.def}}{}
25223 \@ifpackageloaded{ftnright}{\input{ftnright-xetex-bidi.def}}{}
25224 \@ifpackageloaded{midfloat}{\input{midfloat-xetex-bidi.def}}{}
25225 \@ifpackageloaded{draftwatermark}{\input{draftwatermark-xetex-bidi.def}}{}
25226 \@ifpackageloaded{dblfnote}{\input{dblfnote-xetex-bidi.def}}{}
25227 \@ifpackageloaded{diagbox}{\input{diagbox-xetex-bidi.def}}{}
25228 \@ifpackageloaded{eso-pic}{\input{eso-pic-xetex-bidi.def}}{}
25229 \@ifpackageloaded{empheq}{\input{empheq-xetex-bidi.def}}{}
25230 \@ifpackageloaded{framed}{\input{framed-xetex-bidi.def}}{}
25231 \@ifpackageloaded{overpic}{\input{overpic-xetex-bidi.def}}{}
25232 \@ifpackageloaded{pdfbase}{\input{pdfbase-xetex-bidi.def}}{}
25233 \@ifpackageloaded{pdflscape}{\input{pdflscape-xetex-bidi.def}}{}
25234 \@ifpackageloaded{pdfpages}{\input{pdfpages-xetex-bidi.def}}{}
25235 \@ifpackageloaded{lettrine}{\input{lettrine-xetex-bidi.def}}{}
25236 \@ifpackageloaded{lineno}{\input{lineno-xetex-bidi.def}}{}
25237 \@ifpackageloaded{listings}{\input{listings-xetex-bidi.def}}{}
25238 \@ifpackageloaded{media9}{\RequirePackage{bidi-media9}}{}
25239 \@iftexfileloaded{pstricks}{\input{pstricks-xetex-bidi.def}}{}
25240 \@iftexfileloaded{pgfcorescopes.code}{\input{pgfcorescopes.code-xetex-bidi.def}}{}
25241 \@ifpackageloaded{titlesec}{\input{titlesec-xetex-bidi.def}}{}
25242 \@ifpackageloaded{titletoc}{\input{titletoc-xetex-bidi.def}}{}
25243 \@ifpackageloaded{array}{\input{array-xetex-bidi.def}}{}
25244 \@ifpackageloaded{sidecap}{\input{sidecap-xetex-bidi.def}}{}
25245 \@ifpackagewith{sidecap}{innercaption}{%
25246 \if@RTL \renewcommand*{\SC@FLOAT}[2]{%
25247 \isSC@ODD{#2}\hspace{\sidecaptionsep}{#1}} {{#1}\hspace{\sidecaptionsep}{#2}}
25248 \renewcommand*{\SC@justify@caption}{%
25249 \isSC@ODD{\RaggedRight}{\RaggedLeft}}\else
25250 \renewcommand*{\SC@FLOAT}[2]{%
25251 \isSC@ODD{#1}\hspace{\sidecaptionsep}{#2}} {{#2}\hspace{\sidecaptionsep}{#1}}
25252 \renewcommand*{\SC@justify@caption}{%
25253 \isSC@ODD{\RaggedLeft}{\RaggedRight}}\fi
25254 }{}
25255 \@ifpackagewith{sidecap}{rightcaption}{%
25256 \if@RTL\renewcommand*{\SC@FLOAT}[2]{{#1}\hspace{\sidecaptionsep}{#2}}
25257 \def\SC@justify@caption{\RaggedLeft}\else%
25258 \renewcommand*{\SC@FLOAT}[2]{{#2}\hspace{\sidecaptionsep}{#1}}
25259 \def\SC@justify@caption{\RaggedRight}\fi%
25260 }{}
25261 \@ifpackagewith{sidecap}{leftcaption}{%
25262 \if@RTL \renewcommand*{\SC@FLOAT}[2]{{#2}\hspace{\sidecaptionsep}{#1}}
25263 \def\SC@justify@caption{\RaggedRight}\else%
25264 \renewcommand*{\SC@FLOAT}[2]{{#1}\hspace{\sidecaptionsep}{#2}}
25265 \def\SC@justify@caption{\RaggedLeft}\fi%
25266 }{}
25267 \@ifpackageloaded{soul}{\input{soul-xetex-bidi.def}}{}
25268 \@ifpackageloaded{stabular}{\input{stabular-xetex-bidi.def}}{}
25269 \@ifpackageloaded{subfigure}{\input{subfigure-xetex-bidi.def}}{}
25270 \@ifpackageloaded{arydshln}{\input{arydshln-xetex-bidi.def}}{}
25271 \@ifpackageloaded{mdframed}{\input{mdframed-xetex-bidi.def}}{}
25272 \@ifpackageloaded{multicol}{\input{multicol-xetex-bidi.def}}{}

```



```

25273 \@ifpackageloaded{adjmulticol}{\input{adjmulticol-xetex-bidi.def}}{}
25274 \@ifpackageloaded{multienum}{\input{multienum-xetex-bidi.def}}{}
25275 \@ifpackageloaded{natbib}{\input{natbib-xetex-bidi.def}}{}
25276 \@ifpackageloaded{newfloat}{\input{newfloat-xetex-bidi.def}}{}
25277 \@ifpackageloaded{nicematrix}{\input{nicematrix-xetex-bidi.def}}{}
25278 \@ifpackageloaded{minitoc}{\input{minitoc-xetex-bidi.def}}{}
25279 \@ifpackageloaded{pgfsys}{\input{pgfsys.code-xetex-bidi.def}}{}
25280 \@ifpackageloaded{picinpar}{\input{picinpar-xetex-bidi.def}}{}
25281 \@ifpackageloaded{quotchap}{\input{quotchap-xetex-bidi.def}}{}
25282 \@ifpackageloaded{ragged2e}{\input{ragged2e-xetex-bidi.def}}{}
25283 \@ifpackageloaded{rotating}{\input{rotating-xetex-bidi.def}}{}
25284 \@ifpackageloaded{tbls}{\input{tbls-xetex-bidi.def}}{}
25285 \@ifpackageloaded{tabulary}{\input{tabulary-xetex-bidi.def}}{}
25286 \@ifpackageloaded{tcolorbox}{\input{tcolorbox-xetex-bidi.def}}{}
25287 \@ifpackageloaded{tocstyle}{\input{tocstyle-xetex-bidi.def}}{}
25288 \@ifpackageloaded{tocbibind}{\@ifclassloaded{memoir}{}{\input{tocbibind-xetex-bidi.def}}}{\input{tocbibind-xetex-bidi.def}}{}
25289 \@ifpackageloaded{tocloft}{\@ifclassloaded{memoir}{}{\input{tocloft-xetex-bidi.def}}}{\input{tocloft-xetex-bidi.def}}{}
25290 \@ifdefinitionfileloaded{tc-xetex}{\input{tc-xetex-bidi.def}}{}
25291 \@ifpackageloaded{todonotes}{\input{todonotes-xetex-bidi.def}}{}
25292 \@ifpackageloaded{beamerbaseauxtemplates}{\input{beamerbaseauxtemplates-xetex-bidi.def}}{}
25293 \@ifpackageloaded{beamerbaseboxes}{\input{beamerbaseboxes-xetex-bidi.def}}{}
25294 \@ifpackageloaded{beamerbasecolor}{\input{beamerbasecolor-xetex-bidi.def}}{}
25295 \@ifpackageloaded{beamerbasecompatibility}{\input{beamerbasecompatibility-xetex-bidi.def}}{}
25296 \@ifpackageloaded{beamerbaseframecomponents}{\input{beamerbaseframecomponents-xetex-bidi.def}}{}
25297 \@ifpackageloaded{beamerbaseframesize}{\input{beamerbaseframesize-xetex-bidi.def}}{}
25298 \@ifpackageloaded{beamerbaselocalstructure}{\input{beamerbaselocalstructure-xetex-bidi.def}}{}
25299 \@ifpackageloaded{beamerbasemisc}{\input{beamerbasemisc-xetex-bidi.def}}{}
25300 \@ifpackageloaded{beamerbasenavigation}{\input{beamerbasenavigation-xetex-bidi.def}}{}
25301 \@ifpackageloaded{beamerbaseoverlay}{\input{beamerbaseoverlay-xetex-bidi.def}}{}
25302 \@ifpackageloaded{beamerinnerthemedefault}{\input{beamerinnerthemedefault-xetex-bidi.def}}{}
25303 \@ifpackageloaded{beamerinnerthemecircles}{\input{beamerinnerthemecircles-xetex-bidi.def}}{}
25304 \@ifpackageloaded{beamerinnerthemefocus}{\input{beamerinnerthemefocus-xetex-bidi.def}}{}
25305 \@ifpackageloaded{beamerinnerthemeinmargin}{\input{beamerinnerthemeinmargin-xetex-bidi.def}}{}
25306 \@ifpackageloaded{beamerinnerthememetropolis}{\input{beamerinnerthememetropolis-xetex-bidi.def}}{}
25307 \@ifpackageloaded{beamerinnerthemerectangles}{\input{beamerinnerthemerectangles-xetex-bidi.def}}{}
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25320 \@ifpackageloaded{beamerthemeHannover}{\input{beamerthemeHannover-xetex-bidi.def}}{}
25321 \@ifpackageloaded{beamerthemeSingapore}{\input{beamerthemeSingapore-xetex-bidi.def}}{}

```

## 163 File xltextra-xetex-bidi.def

```

25322 \ProvidesFile{xltextra-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for xltextra package f
25323 \let\@XeTeXXeTeX

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```

25324 \def\XeTeX{\@ensure@LTR{\@XeTeX}}
25325 \let\@XeLaTeX\XeLaTeX
25326 \def\XeLaTeX{\@ensure@LTR{\@XeLaTeX}}

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