



# The bidi Package

Source documentation for version 37.7

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.

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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 $\text{\TeX}$ and $\text{\LaTeX}$ , using $\text{\XeTeX}$ engine

Source documentation for [version 37.7](#)

Vafa Khalighi\*

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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 \ifRTL\ifLTR\bibitems\@RTLfalse\else\fi\else\ifRTL\bibitems\@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 \ifRTL\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@algocf@within\endcsname\relax% if \algocf@within doesn't exist
167 \else%
168 \renewcommand\thealgocf{\c@algocf@within\endcsname\@SepMark\@arabic\c@algocf}%
169 \fi
170 \@ifpackageloaded{color}{\relax}{%
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}{\relax}{%
203 \@tempdima\c@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 \@makefnfntext{%
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 \@makefnfntext{%
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 \@bibttitlestyle
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 \begin{group}
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{\@xm@kefntext{%
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{\hskip -\if@RTL\righskip\else\leftskip\fi\relax#2\nobreak
883         \hskip 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 \and \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     \begin{group}
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}{\@tempswattrue}%
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 beamerbaseframecomponents-xetex-bidi.def

```

1928 \ProvidesFile{beamerbaseframecomponents-xetex-bidi.def}[2022/06/09 v0.3 bidi adaptations for
1929 \renewcommand{\setbeamersize}[1]{%
1930   \beamer@dogeometryfalse%
1931   \setkeys{beamer@margin}{#1}%
1932   \ifbeamer@dogeometry%
1933     % Reset left margin now
1934     \beamer@tempdim=\beamer@leftmargin%
1935     \advance\beamer@tempdim by\beamer@leftsidebar%
1936     \if@RTLmain
1937       \geometry{right=\the\beamer@tempdim}%
1938     \else
1939       \geometry{left=\the\beamer@tempdim}%
1940     \fi
1941     % Reset right margin now
1942     \beamer@tempdim=\beamer@rightmargin%
1943     \advance\beamer@tempdim by\beamer@rightsidebar%
1944     \if@RTLmain
1945       \geometry{left=\the\beamer@tempdim}%
1946     \else

```



```

1947     \geometry{right=\the\beamer@tempdim}%
1948     \fi
1949 \fi%
1950 }
1951
1952 \newcommand*{\bidi@beamer@Gm@lmargin}{%
1953   \if@RTLmain
1954     \Gm@rmargin
1955   \else
1956     \Gm@lmargin
1957   \fi
1958 }
1959
1960 \newcommand*{\bidi@beamer@Gm@rmargin}{%
1961   \if@RTLmain
1962     \Gm@lmargin
1963   \else
1964     \Gm@rmargin
1965   \fi
1966 }
1967
1968 \def\ps@navigation{
1969   \def\@oddhead{%
1970     \begingroup%
1971     \setbox\beamer@tempbox=\hbox{\usebeamertemplate***{background canvas}\hyper@pagetransition}%
1972     \beamer@tempdim=\ht\beamer@tempbox%
1973     \setbox\beamer@tempbox=\hbox{\lower\beamer@tempdim\hbox{\box\beamer@tempbox}}%
1974     \wd\beamer@tempbox=0pt\ht\beamer@tempbox=0pt\dp\beamer@tempbox=0pt%
1975     \setbox\@tempboxa=\hbox{\usebeamertemplate***{background}}%
1976     \beamer@tempdim=\ht\@tempboxa%
1977     \setbox\@tempboxa=\hbox{\lower\beamer@tempdim\hbox{\box\@tempboxa}}%
1978     \wd\@tempboxa=0pt\ht\@tempboxa=0pt\dp\@tempboxa=0pt%
1979     \vbox{\hbox{\hskip-\bidi@beamer@Gm@lmargin\box\beamer@tempbox\box\@tempboxa}}%
1980     \hbox{%
1981       {%
1982         \setbox\beamer@tempbox=\hbox{\hskip-\bidi@beamer@Gm@lmargin}%
1983         \if@RTLmain
1984           {%
1985             \vbox to \sidebarheight{%
1986               \usebeamertemplate***{sidebar left}%
1987             }%
1988           }%
1989           \@ifpackageloaded{beamerinnerthemeinmargin}{}{%
1990             \hskip-\textwidth
1991           }%
1992         \fi
1993       }{\setbox\beamer@tempbox=\hbox{\vbox to \sidebarheight{%
1994         \usebeamercolor*{sidebar left}%
1995         \usebeamertemplate{sidebar canvas left}%
1996         \vss%
1997       }}%
1998       \wd\beamer@tempbox=0pt\ht\beamer@tempbox=0pt\dp\beamer@tempbox=0pt%
1999       \box\beamer@tempbox}%
2000     \if@RTLmain

```



```

2001         \else
2002         {%
2003         \vbox to \sidebarheight{%
2004             \usebeamertemplate***{sidebar left}%
2005             \vfil%
2006         }}\fi}%
2007         \beamer@tempdim=\ht\beamer@tempbox%
2008         \setbox\beamer@tempbox=\hbox{{\lower\beamer@tempdim\hbox{\box\beamer@tempbox}}}%
2009         \wd\beamer@tempbox=0pt\ht\beamer@tempbox=0pt\dp\beamer@tempbox=0pt%
2010         \box\beamer@tempbox%
2011     }%
2012     {% print right sidebar first, since it should be overwritten by headline
2013         \setbox\beamer@tempbox=\hbox{\hskip\textwidth\hskip\beamer@rightmargin%
2014         \if@RTLmain
2015             {%
2016                 \vbox to \sidebarheight{%
2017                     \usebeamertemplate***{sidebar right}%
2018                     \vfil%
2019                 }}%
2020                 \hskip-\textwidth
2021                 \fi
2022                 {\setbox\beamer@tempbox=\hbox{\vbox to \sidebarheight{%
2023                     \usebeamercolor*{sidebar right}%
2024                     \usebeamertemplate{sidebar canvas right}%
2025                     \vss%
2026                 }}%
2027                     \wd\beamer@tempbox=0pt\ht\beamer@tempbox=0pt\dp\beamer@tempbox=0pt%
2028                     \box\beamer@tempbox}%
2029                     \if@RTLmain
2030                     \else
2031                     {%
2032                         \vbox to \sidebarheight{%
2033                             \usebeamertemplate***{sidebar right}%
2034                             \vfil%
2035                         }}\fi}%
2036                     \beamer@tempdim=\ht\beamer@tempbox%
2037                     \setbox\beamer@tempbox=\hbox{{\lower\beamer@tempdim\hbox{\box\beamer@tempbox}}}%
2038                     \wd\beamer@tempbox=0pt\ht\beamer@tempbox=0pt\dp\beamer@tempbox=0pt%
2039                     \box\beamer@tempbox%
2040                 }%
2041                 \beamer@typesetheadorfoot{headline}%
2042             }%
2043             \hfil}%
2044         \endgroup}
2045     \def\@oddfoot{%
2046         \vbox{\offinterlineskip\hbox{\beamer@typesetheadorfoot{footline}%
2047         \hfil}\hbox{}}\hfil
2048     }%
2049     \let\@evenhead\@oddhead
2050     \let\@evenfoot\@oddfoot}
2051
2052 \AtBeginDocument{%
2053     \pagestyle{navigation}%
2054 }

```



```

2055
2056 \def\beamer@typesetheadorfoot#1{% typeset the head or footline
2057   {\parskip0pt\offinterlineskip%
2058     \hbox{%
2059       \hskip-\bidi@beamer@Gm@lmargin%
2060       \hbox{%
2061         \vbox{%
2062           \@tempdima=\textwidth%
2063           \textwidth=\paperwidth%
2064           \hsize=\textwidth%
2065           \def\{\,%
2066             \usebeamertemplate***{#1}%
2067           }%
2068           \hskip-\bidi@beamer@Gm@rmargin%
2069         }\hfil%
2070 }
2071
2072 \renewcommand<>\beamer@columncom[2][\beamer@colmode]{%
2073   \beamer@colclose%
2074   \def\beamer@colclose{\end{minipage}\hfill\end{actionenv}\ignorespaces}%
2075 \begin{actionenv}#3%
2076   \setkeys{beamer@col}{#1}%
2077   \begin{minipage}[\beamer@colalign]{#2}%
2078     \leavevmode\bidi@beamer@ragged\beamer@colheadskip\ignorespaces}
2079
2080 \renewenvironment<>{columns}[1][{%
2081   \begin{actionenv}#2%
2082   \ifbeamer@onlytextwidth
2083     \def\beamer@colentrycode{\hbox to\textwidth\bgroup\ignorespaces}%
2084     \def\beamer@colexitcode{\unskip\egroup}
2085   \else%
2086     \def\beamer@colentrycode{%
2087       \hbox to\textwidth\bgroup%
2088       \leavevmode%
2089       \hskip-\beamer@leftmargin%
2090       \nobreak%
2091       \beamer@tempdim=\textwidth%
2092       \advance\beamer@tempdim by\beamer@leftmargin%
2093       \advance\beamer@tempdim by\beamer@rightmargin%
2094       \hbox to\beamer@tempdim\bgroup%
2095       \hbox{}\hfill\ignorespaces}%
2096     \def\beamer@colexitcode{\egroup%
2097       \nobreak%
2098       \hskip-\beamer@rightmargin\egroup}%
2099   \fi%
2100   \ifbeamer@centered\setkeys{beamer@col}{c}\else\setkeys{beamer@col}{t}\fi%
2101   \setkeys{beamer@col}{#1}%
2102   \par%
2103   \leavevmode
2104   \beamer@colentrycode%
2105   \def\beamer@colclose{}\ignorespaces}%
2106 {\beamer@colclose\def\beamer@colclose{}\beamer@colexitcode\end{actionenv}}%
2107
2108

```



```

2109 \def\@makeRTLfnfntext#1{%
2110   \def\insertfootnotetext{#1}%
2111   \def\insertfootnotemark{\@makefnmark}%
2112   \usebeamertemplate***{RTLfootnote}}
2113
2114 \def\@makeLTRfnfntext#1{%
2115   \def\insertfootnotetext{#1}%
2116   \def\insertfootnotemark{\@makefnmark}%
2117   \usebeamertemplate***{LTRfootnote}}
2118
2119 \renewcommand<>\beamer@framefootnotetext[1]{%
2120   \global\setbox\beamer@footins\vbox{%
2121     \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
2122     \hsize\framewidth
2123     \textwidth\hsize
2124     \columnwidth\hsize
2125     \unvbox\beamer@footins
2126     \reset@font
2127     \bidi@@footnotetext@font
2128     \@parboxrestore
2129     \protected@edef\@currentlabel
2130       {\csname p@footnote\endcsname\@thefnmark}%
2131     \color@begingroup
2132       \uncover#2{\@makefnfntext{%
2133         \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}}%
2134       \color@endgroup}}
2135
2136 \renewcommand<>\beamer@frameRTLfootnotetext[1]{%
2137   \global\setbox\beamer@footins\vbox{%
2138     \@RTLtrue
2139     \hsize\framewidth
2140     \textwidth\hsize
2141     \columnwidth\hsize
2142     \unvbox\beamer@footins
2143     \reset@font
2144     \bidi@@RTLfootnotetext@font
2145     \@parboxrestore
2146     \protected@edef\@currentlabel
2147       {\csname p@footnote\endcsname\@thefnmark}%
2148     \color@begingroup
2149       \uncover#2{\@makeRTLfnfntext{%
2150         \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}}%
2151       \color@endgroup}}
2152
2153 \renewcommand<>\beamer@frameLTRfootnotetext[1]{%
2154   \global\setbox\beamer@footins\vbox{%
2155     \@RTLfalse
2156     \hsize\framewidth
2157     \textwidth\hsize
2158     \columnwidth\hsize
2159     \unvbox\beamer@footins
2160     \reset@font
2161     \bidi@@LTRfootnotetext@font
2162     \@parboxrestore

```



```

2163 \protected@edef\@currentlabel
2164 {\csname p@footnote\endcsname\@thefnmark}%
2165 \color@begingroup
2166 \uncover#2{\@makeLTRfntext{%
2167 \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}}%
2168 \color@endgroup}}
2169
2170 \renewcommand<>\@mpfootnotetext[1]{%
2171 \ifbidi@autofootnoterule\ifnum\c@mpfootnote=\@ne\if@RTL@footnote\global\let\bidi@mpfootnoterule
2172 \global\setbox\@mpfootins\vbox{%
2173 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
2174 \unvbox\@mpfootins
2175 \reset@font
2176 \bidi@@footnotetext@font
2177 \hsize\columnwidth
2178 \@parboxrestore
2179 \protected@edef\@currentlabel
2180 {\csname p@mpfootnote\endcsname\@thefnmark}%
2181 \color@begingroup
2182 \uncover#2{\@makefntext{%
2183 \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}}%
2184 \color@endgroup}}
2185
2186 \renewcommand<>\@mpRTLfootnotetext[1]{%
2187 \ifbidi@autofootnoterule\ifnum\c@mpfootnote=\@ne\global\let\bidi@mpfootnoterule\right@footnoterule
2188 \global\setbox\@mpfootins\vbox{%
2189 \@RTLtrue
2190 \unvbox\@mpfootins
2191 \reset@font
2192 \bidi@@RTLfootnotetext@font
2193 \hsize\columnwidth
2194 \@parboxrestore
2195 \protected@edef\@currentlabel
2196 {\csname p@mpfootnote\endcsname\@thefnmark}%
2197 \color@begingroup
2198 \uncover#2{\@makeRTLfntext{%
2199 \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}}%
2200 \color@endgroup}}
2201
2202 \renewcommand<>\@mpLTRfootnotetext[1]{%
2203 \ifbidi@autofootnoterule\ifnum\c@mpfootnote=\@ne\global\let\bidi@mpfootnoterule\left@footnoterule
2204 \global\setbox\@mpfootins\vbox{%
2205 \@RTLfalse
2206 \unvbox\@mpfootins
2207 \reset@font
2208 \bidi@@LTRfootnotetext@font
2209 \hsize\columnwidth
2210 \@parboxrestore
2211 \protected@edef\@currentlabel
2212 {\csname p@mpfootnote\endcsname\@thefnmark}%
2213 \color@begingroup
2214 \uncover#2{\@makeLTRfntext{%
2215 \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}}%
2216 \color@endgroup}}

```



```

2217
2218 \let\@footnotetext=\beamer@framefootnotetext
2219 \let\@RTLfootnotetext=\beamer@frameRTLfootnotetext
2220 \let\@LTRfootnotetext=\beamer@frameLTRfootnotetext
2221
2222 \footdir@temp\footdir@ORG@bidi@beamer@footnotetext\@footnotetext{\bidi@footdir@footnote}%
2223 \footdir@temp\footdir@ORG@bidi@beamer@RTLfootnotetext\@RTLfootnotetext{R}%
2224 \footdir@temp\footdir@ORG@bidi@beamer@LTRfootnotetext\@LTRfootnotetext{L}%
2225
2226 \renewcommand<>{\footnote}[1] [] {%
2227   \let\beamer@footnotetext=\@footnotetext%
2228   \let\beamer@mpfn=\@mpfn%
2229   \let\beamer@thempfn=\thempfn%
2230   \let\beamer@kvorig=\KV@errx%
2231   \let\beamer@xkvorig=\XKV@err
2232   \def\beamer@footarg{}%
2233   \def\KV@errx##1{\edef\beamer@footarg{\@tempa}}%
2234   \def\XKV@err##1{\edef\beamer@footarg{\XKV@tkey}}%
2235   \setkeys{beamerfootnote}{#1}%
2236   \let\KV@errx=\beamer@kvorig%
2237   \let\XKV@errx=\beamer@xkvorig
2238   \ifx\beamer@footarg\@empty%
2239     \def\beamer@next{\stepcounter\beamer@mpfn
2240       \protected@xdef\@thefnmark{\beamer@thempfn}%
2241       \@footnotemark\beamer@footnotetext#2}%
2242   \else%
2243     \def\beamer@next{%
2244       \begingroup
2245         \csname c@\beamer@mpfn\endcsname\beamer@footarg\relax
2246         \unrestored@protected@xdef\@thefnmark{\beamer@thempfn}%
2247       \endgroup
2248       \@footnotemark\beamer@footnotetext#2}%
2249   \fi%
2250   \beamer@next}
2251
2252 \renewcommand<>{\RTLfootnote}[1] [] {%
2253   \let\beamer@RTLfootnotetext=\@RTLfootnotetext%
2254   \let\beamer@mpfn=\@mpfn%
2255   \let\beamer@thempfn=\thempfn%
2256   \let\beamer@kvorig=\KV@errx%
2257   \let\beamer@xkvorig=\XKV@err
2258   \def\beamer@footarg{}%
2259   \def\KV@errx##1{\edef\beamer@footarg{\@tempa}}%
2260   \def\XKV@err##1{\edef\beamer@footarg{\XKV@tkey}}%
2261   \setkeys{beamerfootnote}{#1}%
2262   \let\KV@errx=\beamer@kvorig%
2263   \let\XKV@errx=\beamer@xkvorig
2264   \ifx\beamer@footarg\@empty%
2265     \def\beamer@next{\stepcounter\beamer@mpfn
2266       \protected@xdef\@thefnmark{\beamer@thempfn}%
2267       \@footnotemark\beamer@RTLfootnotetext#2}%
2268   \else%
2269     \def\beamer@next{%
2270       \begingroup

```



```

2271         \csname c@\beamer@mpfn\endcsname\beamer@footarg\relax
2272         \unrestored@protected@xdef\@thefnmark{\beamer@thempfn}%
2273     \endgroup
2274     \@footnotemark\beamer@RTLfootnotetext#2}%
2275 \fi%
2276 \beamer@next}
2277
2278 \renewcommand<>{\LTRfootnote}[1] [] {%
2279     \let\beamer@LTRfootnotetext=\@LTRfootnotetext%
2280     \let\beamer@mpfn=\@mpfn%
2281     \let\beamer@thempfn=\thempfn%
2282     \let\beamer@kvorig=\KV@errx%
2283     \let\beamer@xkvorig=\XKV@err
2284     \def\beamer@footarg{}%
2285     \def\KV@errx##1{\edef\beamer@footarg{\@tempa}}%
2286     \def\XKV@err##1{\edef\beamer@footarg{\XKV@tkey}}%
2287     \setkeys{beamerfootnote}{#1}%
2288     \let\KV@errx=\beamer@kvorig%
2289     \let\XKV@errx=\beamer@xkvorig
2290     \ifx\beamer@footarg\@empty%
2291         \def\beamer@next{\stepcounter\beamer@mpfn
2292             \protected@xdef\@thefnmark{\beamer@thempfn}%
2293             \@footnotemark\beamer@LTRfootnotetext#2}%
2294     \else%
2295         \def\beamer@next{%
2296             \begingroup
2297                 \csname c@\beamer@mpfn\endcsname\beamer@footarg\relax
2298                 \unrestored@protected@xdef\@thefnmark{\beamer@thempfn}%
2299             \endgroup
2300             \@footnotemark\beamer@LTRfootnotetext#2}%
2301     \fi%
2302     \beamer@next}
2303
2304

```

## 19 File beamerbaselocalstructure-xetex-bidi.def

```

2305 \ProvidesFile{beamerbaselocalstructure-xetex-bidi.def}[2022/05/24 v0.1 bidi adaptations for
2306 \def\beamer@enum{%
2307     \beamer@computepref\@itemdepth% sets \beameritemnestingprefix
2308     \usebeamerfont{itemize/enumerate \beameritemnestingprefix body}%
2309     \bgroup
2310     \usebeamerfont{fg}{itemize/enumerate \beameritemnestingprefix body}%
2311     \usebeamertemplate{itemize/enumerate \beameritemnestingprefix body begin}%
2312     \egroup
2313     \expandafter
2314     \list
2315         {\usebeamertemplate{\beamer@enumtempl}}
2316         {\usecounter\@enumctr%
2317             \def\makelabel##1{{\hss\llap{{%
2318                 \usebeamerfont*{enumerate \beameritemnestingprefix item}%
2319                 \usebeamerfont{fg}{enumerate \beameritemnestingprefix item}##1}}}}}%
2320     \beamer@cramped%
2321     \bidi@beamer@ragged%

```





```

2322 \beamer@firstlineitemizeunskip%
2323 }
2324
2325 \renewcommand{\itemize}[1][\]{%
2326 \ifblank{#1}{\def\beamer@defaultospec{#1}}%
2327 \ifnum \@itemdepth >2\relax\@toodeep\else
2328 \advance\@itemdepth\@ne
2329 \beamer@compute\pref\@itemdepth% sets \beameritemnestingprefix
2330 \usebeamerfont{itemize/enumerate \beameritemnestingprefix body}%
2331 \bgroup
2332 \usebeamercolor{fg}{itemize/enumerate \beameritemnestingprefix body}%
2333 \usebeamertemplate{itemize/enumerate \beameritemnestingprefix body begin}%
2334 \egroup
2335 \list
2336 {\usebeamertemplate{itemize \beameritemnestingprefix item}}
2337 {\def\makelabel##1{%
2338 {%
2339 \hss\llap{%
2340 \usebeamerfont*{itemize \beameritemnestingprefix item}%
2341 \usebeamercolor{fg}{itemize \beameritemnestingprefix item}##1}}%
2342 }%
2343 }%
2344 }
2345 \fi%
2346 \beamer@cramped%
2347 \bidi@beamer@ragged%
2348 \beamer@firstlineitemizeunskip%
2349 }
2350
2351 \def\@@description{%
2352 \advance\beamer@descdefault by \labelsep%
2353 \usebeamerfont{description body}%
2354 \bgroup
2355 \usebeamercolor{fg}{description body}%
2356 \usebeamertemplate{description body begin}%
2357 \egroup
2358 \list
2359 {}
2360 {\labelwidth\beamer@descdefault\leftmargin\beamer@descdefault\let\makelabel\beamer@descrip
2361 \beamer@cramped%
2362 \bidi@beamer@ragged
2363 \beamer@firstlineitemizeunskip%
2364 }
2365
2366 \renewenvironment{thebibliography}[1]
2367 {%\leavevmode\unskip%
2368 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
2369 \bidi@thebibliography@font@hook%
2370 \list{\@biblabel{\@arabic\c@enumiv}}%
2371 {\settowidth\labelwidth{\beamer@biblabeltemplate{\@biblabel{#1}}}%
2372 \leftmargin\labelwidth
2373 \advance\leftmargin\labelsep
2374 \itemsep=0pt%
2375 \partopsep=0pt%

```



```

2376         \topsep=0pt%
2377         \usecounter{enumiv}%
2378         \let\p@enumiv\@empty
2379         \renewcommand\theenumiv{\@arabic\c@enumiv}
2380         \let\makelabel\beamer@biblabeltemplate}%
2381     \sloppy\bidibeamer@ragged
2382     \clubpenalty10000
2383     \@clubpenalty \clubpenalty
2384     \widowpenalty10000%
2385     \sfcode`\.\@m}
2386     {\def\@noitemerr
2387      {\@latex@warning{Empty `thebibliography' environment}}}%
2388     \ifhmode\unskip\fi\endlist}
2389
2390

```

## 20 File beamerbasenavigation-xetex-bidi.def

```

2391 \ProvidesFile{beamerbasenavigation-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations for beam
2392 \def\slideentry#1#2#3#4#5#6{%
2393   %section number, subsection number, slide number, first/last frame, page number, part numb
2394   \ifnum#6=\c@part\ifnum#1>0\ifnum#3>0%
2395     \ifbeamer@compress%
2396       \advance\beamer@xpos by1\relax%
2397     \else%
2398       \ifnum#2=0%
2399         \beamer@ypos@offset=1\relax%
2400       \fi
2401       \beamer@xpos=#3\relax%
2402       \beamer@ypos=#2\relax%
2403       \advance\beamer@ypos by \beamer@ypos@offset\relax
2404     \fi%
2405   \hbox to Opt{%
2406     \beamer@tempdim=-\beamer@vboxoffset%
2407     \advance\beamer@tempdim by-\beamer@boxsize%
2408     \multiply\beamer@tempdim by\beamer@ypos%
2409     \advance\beamer@tempdim by -.05cm%
2410     \raise\beamer@tempdim\hbox{%
2411       \beamer@tempdim=\beamer@boxsize%
2412       \multiply\beamer@tempdim by\beamer@xpos%
2413       \advance\beamer@tempdim by -\beamer@boxsize%
2414       \advance\beamer@tempdim by 1pt%
2415       \kern\beamer@tempdim
2416       \global\beamer@section@min@dim\beamer@tempdim
2417       \hbox{\beamer@link(#4){}%
2418         \usebeamerfont{mini frame}%
2419         \ifnum\c@section=#1%
2420           \ifnum\c@subsection=#2%
2421             \usebeamerfont{fg}{mini frame}%
2422             \ifnum\c@subsectionslide=#3%
2423               \usebeamertemplate{mini frame}%\beamer@minislidehighlight%
2424             \else%
2425               \usebeamertemplate{mini frame in current subsection}%\beamer@minisliderowhil
2426             \fi%

```



```

2427         \else%
2428         \usebeamercolor{mini frame}%
2429         %\color{fg!50!bg}%
2430         \usebeamertemplate{mini frame in other subsection}%\beamer@minislide%
2431         \fi%
2432     \else%
2433     \usebeamercolor{mini frame}%
2434     %\color{fg!50!bg}%
2435     \usebeamertemplate{mini frame in other subsection}%\beamer@minislide%
2436     \fi%
2437 }}}\hskip-10cm plus 1fil%
2438 }\fi\fi%
2439 \else%
2440 \fakeslideentry{#1}{#2}{#3}{#4}{#5}{#6}%
2441 \fi\ignorespaces
2442 }
2443

```

## 21 File beamerinnerthemedefault-xetex-bidi.def

```

2444 \ProvidesFile{beamerinnerthemedefault-xetex-bidi.def}[2022/06/07 v0.4 bidi adaptations for b
2445 \newcommand*{\bidi@beamer@leftskip}{%
2446   \if@RTL
2447     \rightskip
2448   \else
2449     \leftskip
2450   \fi
2451 }
2452
2453 \newcommand*{\bidi@beamer@rightskip}{%
2454   \if@RTL
2455     \leftskip
2456   \else
2457     \rightskip
2458   \fi
2459 }
2460
2461 \bidi@csundef{beamer@tmpop@subsection in toc@default}
2462
2463 \bidi@csundef{beamer@tmpop@subsubsection in toc@default}
2464
2465 \defbeamertemplate*{subsection in toc}{default}
2466 {\leavevmode\bidi@beamer@leftskip=1.5em\inserttocsubsection\par}
2467
2468 \defbeamertemplate*{subsubsection in toc}{default}
2469 {\leavevmode\normalsize\usebeamerfont{subsection in toc}\bidi@beamer@leftskip=3em%
2470   \usebeamerfont{subsubsection in toc}\inserttocsubsubsection\par}
2471
2472 \newcommand*{\bidi@beamer@blacktriangle}{%
2473   \if@RTL
2474     $\blacktriangleleft$%
2475   \else
2476     $\blacktriangleright$%
2477   \fi

```



```

2478 }
2479
2480 \bidi@csundef{beamer@@tmpop@itemize item@default}
2481
2482 \bidi@csundef{beamer@@tmpop@itemize subitem@default}
2483
2484 \bidi@csundef{beamer@@tmpop@itemize subsubitem@default}
2485
2486 \defbeamertemplate*{itemize item}{default}{\usebeamerfont*{itemize item}\raise1.25pt\hbox{\d
2487 \defbeamertemplate*{itemize subitem}{default}{\usebeamerfont*{itemize subitem}\raise1.5pt\hb
2488 \defbeamertemplate*{itemize subsubitem}{default}{\usebeamerfont*{itemize subsubitem}\raise1.
2489
2490 \bidi@undef\beamer@@tmpop@footnote@default
2491
2492 \defbeamertemplate*{footnote}{default}
2493 {
2494   \parindent 1em\noindent%
2495   \bidi@beamer@ragged
2496   \hbox to 1.8em{\hfil\insertfootnotemark}\insertfootnotetext\par%
2497 }
2498
2499 \defbeamertemplate*{RTLfootnote}{default}
2500 {
2501   \parindent 1em\noindent%
2502   \raggedleft
2503   \hbox to 1.8em{\hfil\insertfootnotemark}\insertfootnotetext\par%
2504 }
2505
2506 \defbeamertemplate*{LTRfootnote}{default}
2507 {
2508   \parindent 1em\noindent%
2509   \raggedright
2510   \hbox to 1.8em{\hfil\insertfootnotemark}\insertfootnotetext\par%
2511 }
2512
2513 \bidi@undef\beamer@@tmpop@caption@default
2514
2515 \defbeamertemplate*{caption}{default}
2516 {%
2517   \bidi@beamer@ragged
2518   {%
2519     \leavevmode
2520     \usebeamercolor[fg]{caption name}%
2521     \usebeamerfont*{caption name}%
2522     \insertcaptionname
2523     \usebeamertemplate{caption label separator}%
2524   }%
2525   \insertcaption\par
2526 }
2527
2528 \bidi@csundef{beamer@@tmpop@block begin@default}
2529
2530 \bidi@csundef{beamer@@tmpop@block alerted begin@default}
2531

```



```

2532 \bidi@csundef{beamer@tmpop@block example begin@default}
2533
2534 \defbeamertemplate*{block begin}{default}
2535 {
2536   \par\vskip\medskipamount%
2537   \begin{beamercolorbox}[colsep*=.75ex]{block title}
2538     \usebeamerfont*{block title}\insertblocktitle%
2539   \end{beamercolorbox}%
2540   {\parskip0pt\par}%
2541   \ifbeamercoloreempty[bg]{block title}
2542   {}
2543   {\ifbeamercoloreempty[bg]{block body}{}\{\nointerlineskip\vskip-0.5pt}\}%
2544   \usebeamerfont{block body}%
2545   \begin{beamercolorbox}[colsep*=.75ex,vmode]{block body}%
2546     \ifbeamercoloreempty[bg]{block body}{\vskip-.25ex}{\leavevmode\vskip-\dimexpr.75ex+\baselineskip}
2547 }
2548
2549 \defbeamertemplate*{block alerted begin}{default}
2550 {
2551   \par\vskip\medskipamount%
2552   \begin{beamercolorbox}[colsep*=.75ex]{block title alerted}
2553     \usebeamerfont*{block title alerted}\insertblocktitle%
2554   \end{beamercolorbox}%
2555   {\parskip0pt\par}%
2556   \ifbeamercoloreempty[bg]{block title alerted}
2557   {}
2558   {\ifbeamercoloreempty[bg]{block body alerted}{}\{\nointerlineskip\vskip-0.5pt}\}%
2559   \usebeamerfont{block body alerted}%
2560   \begin{beamercolorbox}[colsep*=.75ex,vmode]{block body alerted}%
2561     \ifbeamercoloreempty[bg]{block body alerted}{\vskip-.25ex}{\leavevmode\vskip-\dimexpr.75ex+\baselineskip}
2562 }
2563
2564 \defbeamertemplate*{block example begin}{default}
2565 {
2566   \par\vskip\medskipamount%
2567   \begin{beamercolorbox}[colsep*=.75ex]{block title example}
2568     \usebeamerfont*{block title example}\insertblocktitle%
2569   \end{beamercolorbox}%
2570   {\parskip0pt\par}%
2571   \ifbeamercoloreempty[bg]{block title example}
2572   {}
2573   {\ifbeamercoloreempty[bg]{block body example}{}\{\nointerlineskip\vskip-0.5pt}\}%
2574   \usebeamerfont{block body example}%
2575   \begin{beamercolorbox}[colsep*=.75ex,vmode]{block body example}%
2576     \ifbeamercoloreempty[bg]{block body example}{\vskip-.25ex}{\leavevmode\vskip-\dimexpr.75ex+\baselineskip}
2577 }
2578
2579

```

## 22 File beamerinnerthemecircles-xetex-bidi.def

```

2580 \ProvidesFile{beamerinnerthemecircles-xetex-bidi.def}[2022/06/06 v0.1 bidi adaptations for beamer]
2581 \setbeamertemplate{sections/subsections in toc}[circle]
2582

```



## 23 File beamerinnerthemeinmargin-xetex-bidi.def

```

2583 \ProvidesFile{beamerinnerthemeinmargin-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations for
2584 \AtBeginDocument{%
2585   \setbeamersize{sidebar width left=.25\paperwidth}%
2586 }
2587
2588 \bidi@csundef{beamer@@tmpop@section in toc@inmargin}
2589
2590 \bidi@csundef{beamer@@tmpop@title page@inmargin}
2591
2592 \bidi@csundef{beamer@@tmpop@block begin@inmargin}
2593
2594 \bidi@csundef{beamer@@tmpop@block end@inmargin}
2595
2596 \bidi@csundef{beamer@@tmpop@block alerted begin@inmargin}
2597
2598 \bidi@csundef{beamer@@tmpop@block alerted end@inmargin}
2599
2600 \bidi@csundef{beamer@@tmpop@block example begin@inmargin}
2601
2602 \bidi@csundef{beamer@@tmpop@block example end@inmargin}
2603
2604 \defbeamertemplate*{section in toc}{inmargin}
2605 {\leavevmode
2606   \beamer@putleft{\usebeamercolor{fg}{section in toc}\inserttocsection}\strut}{2.5ex}}
2607
2608 \defbeamertemplate*{title page}{inmargin}
2609 {
2610   \begin{block}{\inserttitleindicator}
2611     \bgroup\usebeamercolor{fg}{title}\usebeamerfont{title}\inserttitle\egroup\par
2612     \usebeamercolor{fg}{subtitle}\usebeamerfont{subtitle}\insertsubtitle
2613   \end{block}
2614   \vfill
2615   \ifx\insertauthor\@empty
2616   \else
2617     \begin{block}{\insertauthorindicator}
2618       \bgroup\usebeamercolor{fg}{author}\usebeamerfont{author}\insertauthor\egroup\par
2619     \end{block}
2620   \fi
2621   \ifx\insertinstitute\@empty
2622   \else
2623     \begin{block}{\insertinstituteindicator}
2624       \bgroup\usebeamercolor{fg}{institute}\usebeamerfont{institute}\insertinstitute\egroup\par
2625     \end{block}
2626   \fi
2627   \ifx\insertdate\@empty
2628   \else
2629     \begin{block}{\insertdateindicator}
2630       \bgroup\usebeamercolor{fg}{date}\usebeamerfont{date}\insertdate\egroup\par
2631     \end{block}
2632   \fi
2633 }
2634

```



```

2635 \defbeamertemplate*{block begin}{inmargin}
2636 {
2637   \par\vskip\medskipamount%
2638   \leavevmode%
2639   \beamer@putleft{\normalfont{\usebeamercolor[fg]{block title}\usebeamerfont*{block title}\i
2640   \beginL\beamer@putright
2641   %\usebeamercolor[fg]{block body}% to be done!
2642 }
2643
2644 \defbeamertemplate*{block end}{inmargin}
2645 {\endbeamer@putright\endL\vskip\smallskipamount}
2646
2647 \defbeamertemplate*{block alerted begin}{inmargin}
2648 {
2649   \par\vskip\medskipamount%
2650   \leavevmode%
2651   \beamer@putleft{\normalfont{\usebeamercolor[fg]{block title alerted}\usebeamerfont*{block
2652   \beginL\beamer@putright
2653   %\usebeamercolor[fg]{block body alerted}% to be done!
2654 }
2655
2656 \defbeamertemplate*{block alerted end}{inmargin}
2657 {\endbeamer@putright\endL\vskip\smallskipamount}
2658
2659 \defbeamertemplate*{block example begin}{inmargin}
2660 {
2661   \par\vskip\medskipamount%
2662   \leavevmode%
2663   \beamer@putleft{\normalfont{\usebeamercolor[fg]{block title example}\usebeamerfont*{block
2664   \beginL\beamer@putright
2665   %\usebeamercolor[fg]{block body example}% to be done
2666 }
2667
2668 \defbeamertemplate*{block example end}{inmargin}
2669 {\endbeamer@putright\endL\vskip\smallskipamount}
2670
2671 \bidi@AfterFile{beamerinnerthemerectangles-xetex-bidi.def}{%
2672   \setbeamertemplate{section in toc}[inmargin]%
2673   \setbeamertemplate{subsection in toc}[inmargin]%
2674   \setbeamertemplate{subsubsection in toc}[inmargin]%
2675 }
2676
2677

```

## 24 File beamerinnerthemerectangles-xetex-bidi.def

```

2678 \ProvidesFile{beamerinnerthemerectangles-xetex-bidi.def}[2022/06/06 v0.1 bidi adaptations fo
2679 \setbeamertemplate{sections/subsections in toc}[square]
2680 \setbeamertemplate{items}[square]
2681

```

## 25 File beamerinnerthemerounded-xetex-bidi.def

```

2682 \ProvidesFile{beamerinnerthemerounded-xetex-bidi.def}[2022/06/01 v0.1 bidi adaptations for b

```



```

2683 \setbeamertemplate{blocks}[rounded][shadow=\beamer@themrounded@shadow]
2684 \setbeamertemplate{items}[ball]
2685 \setbeamertemplate{sections/subsections in toc}[ball]
2686

```

## 26 File beamerouterthemedefault-xetex-bidi.def

```

2687 \ProvidesFile{beamerouterthemedefault-xetex-bidi.def}[2022/06/07 v0.1 bidi adaptations for b
2688 \def\beamer@fteleft{\if@RTLmain\vskip0.35cm\advance\leftskip by 1.7cm\advance\rightskip by 1.
2689
2690 \def\beamer@fteright{\if@RTLmain\else\vskip0.35cm\advance\leftskip by 1.7cm\advance\rightski
2691
2692 \AtBeginDocument{%
2693   \if@RTLmain
2694     \setbeamertemplate{frametitle}[default][right]
2695   \fi
2696 }
2697
2698

```

## 27 File beamerouterthemeinfolines-xetex-bidi.def

```

2699 \ProvidesFile{beamerouterthemeinfolines-xetex-bidi.def}[2022/06/09 v0.2 bidi adaptations for
2700 \bidi@csundef{beamer@@tmpop@footline@infolines theme}
2701
2702 \defbeamertemplate*{footline}{infolines theme}
2703 {%
2704   \leavevmode%
2705   \hbox{%
2706     \begin{beamercolorbox}[wd=.333333\paperwidth,ht=2.25ex,dp=1ex,center]{author in head/foot}%
2707       \usebeamerfont{author in head/foot}\insertshortauthor\expandafter\ifblank\expandafter{\b
2708     \end{beamercolorbox}%
2709     \begin{beamercolorbox}[wd=.333333\paperwidth,ht=2.25ex,dp=1ex,center]{title in head/foot}%
2710       \usebeamerfont{title in head/foot}\insertshorttitle
2711     \end{beamercolorbox}%
2712     \begin{beamercolorbox}[wd=.333333\paperwidth,ht=2.25ex,dp=1ex,leftskip=2ex,rightskip=2ex,s
2713       \hfill%
2714       \usebeamerfont{date in head/foot}%
2715       \insertshortdate{}%
2716       \hfill%
2717       \bgroup
2718       \usebeamercolor[fg]{page number in head/foot}%
2719       \usebeamerfont{page number in head/foot}%
2720       \usebeamerfont{page number in head/foot}%
2721       \egroup
2722     \end{beamercolorbox}}%
2723     \vskip0pt%
2724 }
2725
2726 \bidi@csundef{beamer@@tmpop@headline@infolines theme}
2727
2728 \defbeamertemplate*{headline}{infolines theme}
2729 {%
2730   \leavevmode%

```





```

2731 \hbox{%
2732 \if@RTL
2733 \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.65ex,dp=1.5ex,left]{section in head/foot}%
2734 \else
2735 \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.65ex,dp=1.5ex,right]{section in head/foot}%
2736 \fi
2737 \usebeamerfont{section in head/foot}\insertsectionhead\hspace*{2ex}
2738 \end{beamercolorbox}}%
2739 \if@RTL
2740 \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.65ex,dp=1.5ex,right]{subsection in head/foot}%
2741 \else
2742 \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.65ex,dp=1.5ex,left]{subsection in head/foot}%
2743 \fi
2744 \usebeamerfont{subsection in head/foot}\hspace*{2ex}\insertsubsectionhead
2745 \end{beamercolorbox}}%
2746 \vskip0pt%
2747 }
2748
2749 \bidi@AfterFile{beamerouterthememiniframes-xetex-bidi.def}{%
2750 \setbeamertemplate{footline}[infolines theme]%
2751 }
2752

```

## 28 File beamerouterthememiniframes-xetex-bidi.def

```

2753 \ProvidesFile{beamerouterthememiniframes-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations fo
2754 \bidi@csundef{beamer@tmpop@headline@miniframes theme}
2755
2756 \defbeamertemplate*{headline}{miniframes theme}
2757 {%
2758 \begin{beamercolorbox}[colsep=1.5pt]{upper separation line head}
2759 \end{beamercolorbox}
2760 \begin{beamercolorbox}{section in head/foot}
2761 \vskip2pt\if@RTL\beginR\fi\insertnavigation{\paperwidth}\if@RTL\endR\fi\vskip2pt
2762 \end{beamercolorbox}}%
2763 \ifbeamer@theme@subsection%
2764 \begin{beamercolorbox}[colsep=1.5pt]{middle separation line head}
2765 \end{beamercolorbox}
2766 \if@RTL
2767 \begin{beamercolorbox}[ht=2.5ex,dp=1.125ex,%
2768 rightskip=.3cm,leftskip=.3cm plus1fil]{subsection in head/foot}
2769 \else
2770 \begin{beamercolorbox}[ht=2.5ex,dp=1.125ex,%
2771 leftskip=.3cm,rightskip=.3cm plus1fil]{subsection in head/foot}
2772 \fi
2773 \usebeamerfont{subsection in head/foot}\insertsubsectionhead
2774 \end{beamercolorbox}}%
2775 \fi%
2776 \begin{beamercolorbox}[colsep=1.5pt]{lower separation line head}
2777 \end{beamercolorbox}
2778 }
2779
2780

```



## 29 File beamerouterthemesidebar-xetex-bidi.def

```

2781 \ProvidesFile{beamerouterthemesidebar-xetex-bidi.def}[2022/06/07 v0.2 bidi adaptations for b
2782 \bidi@csundef{beamer@@tmpop@frametitle@sidebar theme}
2783
2784 \bidi@csundef{beamer@@tmpop@headline@sidebar theme}
2785
2786 \bidi@csundef{beamer@@tmpop@sidebar left@sidebar theme}
2787
2788 \bidi@csundef{beamer@@tmpop@sidebar right@sidebar theme}
2789
2790 \ifdim\beamer@headheight>0pt
2791
2792   \defbeamertemplate*{frametitle}{sidebar theme}
2793   {%
2794     \nointerlineskip%
2795     \ifbeamer@plainframe%
2796       \hbox{\usebeamercolor[bg]{frametitle}%
2797         \@tempdima\paperwidth\advance\@tempdima-\beamer@sidebarwidth
2798         \hskip-\beamer@leftmargin\vrule height\beamer@headheight width\@tempdima\hskip-\bea
2799       \nointerlineskip%
2800     \fi%
2801     \vskip-\beamer@headheight%
2802     \vbox to \beamer@headheight{%
2803       \vfil
2804       \bidi@beamer@leftskip=-\beamer@leftmargin%
2805       \advance\bidi@beamer@leftskip by0.3cm%
2806       \bidi@beamer@rightskip=-\beamer@rightmargin%
2807       \advance\bidi@beamer@rightskip by0.3cm plus1fil%
2808       {\usebeamercolor[fg]{frametitle}\usebeamerfont{frametitle}\strut\insertframetitle\par}
2809       \ifx\insertframesubtitle\@empty\else%
2810         {\usebeamercolor[fg]{framesubtitle}\usebeamerfont{framesubtitle}\strut\insertframesu
2811       \fi%
2812       \vbox{}%
2813       \vskip-1em%
2814       \vfil
2815     }%
2816   }
2817
2818 \AtBeginDocument{%
2819   \setbeamertemplate{frametitle}{sidebar theme}%
2820 }
2821
2822 \defbeamertemplate*{headline}{sidebar theme}
2823 {%
2824   \begin{beamercolorbox}[wd=\paperwidth]{frametitle}
2825     \ifx\beamer@sidebarside\beamer@lefttext%
2826       \else%
2827         \hfill%
2828       \fi%
2829     \ifdim\beamer@sidebarwidth>0pt%
2830       \bgroup
2831       \usebeamercolor[bg]{logo}%
2832       \if@RTLmain

```



```

2833     \else
2834         \vrule width\beamer@sidebarwidth height \beamer@headheight%
2835         \hskip-\beamer@sidebarwidth%
2836     \fi
2837     \hbox to \beamer@sidebarwidth{\hss\vbox to
2838         \beamer@headheight{\vss\hbox{{\color{fg}\insertlogo}}\vss}\hss}%
2839     \if@RTLmain
2840         \hskip-\beamer@sidebarwidth%
2841         \vrule width\beamer@sidebarwidth height \beamer@headheight%
2842     \fi
2843     \egroup
2844 \else%
2845     \vrule width0pt height \beamer@headheight%
2846 \fi%
2847 \end{beamercolorbox}
2848 }
2849 \fi
2850
2851 \def\beamer@sidebarformat#1#2#3{%
2852 \if@RTL
2853     \begin{beamercolorbox}[wd=\beamer@sidebarwidth,rightskip=#1,leftskip=1ex plus1fil,vmode]{#
2854 \else
2855     \begin{beamercolorbox}[wd=\beamer@sidebarwidth,leftskip=#1,rightskip=1ex plus1fil,vmode]{#
2856 \fi
2857     \vbox{%
2858         #3\par%
2859         \vbox{%
2860             \vskip-1.5ex%
2861         \end{beamercolorbox}
2862 }
2863
2864 \ifdim\beamer@sidebarwidth>0pt
2865
2866 \AtBeginDocument{%
2867     \setbeamersize{sidebar width \beamer@sidebarside=\beamer@sidebarwidth}%
2868 }
2869
2870 \defbeamertemplate*{sidebar \beamer@sidebarside}{sidebar theme}
2871 {
2872     \beamer@tempdim=\beamer@sidebarwidth%
2873     \advance\beamer@tempdim by -6pt%
2874     {\usebeamerfont{title in sidebar}%
2875         \vskip1.5em%
2876         \hskip3pt%
2877         \bgroup
2878         \usebeamercolor[fg]{title in sidebar}%
2879         \insertshorttitle[width=\beamer@tempdim,center,respectlinebreaks]\egroup\par%
2880         \vskip1.25em%
2881     }%
2882     {%
2883         \hskip3pt%
2884         \bgroup
2885         \usebeamercolor[fg]{author in sidebar}%
2886         \usebeamerfont{author in sidebar}%

```



```

2887     \insertshortauthor[width=\beamer@tempdim,center,respectlinebreaks]\egroup\par%
2888     \vskip1.25em%
2889   }%
2890   \insertverticalnavigation{\beamer@sidebarwidth}%
2891   \vfill
2892   \ifx\beamer@sidebarside\beamer@lefttext%
2893   \else%
2894     \usebeamercolor{normal text}%
2895     \llap{\usebeamertemplate***{navigation symbols}\hskip0.1cm}%
2896     \vskip2pt%
2897   \fi%
2898 }%
2899 \fi
2900

```

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

```

2901 \ProvidesFile{beamerouterthemesplit-xetex-bidi.def}[2022/06/09 v0.2 bidi adaptations for be
2902 \bidi@csundef{beamer@tmpop@footline@split theme}
2903
2904 \defbeamertemplate*{footline}{split theme}
2905 {%
2906   \leavevmode%
2907   \hbox{\if@RTL\begin{beamercolorbox}[wd=.5\paperwidth,ht=2.5ex,dp=1.125ex,rightskip=.3cm pl
2908 \else
2909 \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.5ex,dp=1.125ex,leftskip=.3cm plus1fill,rightski
2910 \fi
2911     \usebeamerfont{author in head/foot}\insertshortauthor
2912   \end{beamercolorbox}}%
2913   \if@RTL
2914     \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.5ex,dp=1.125ex,rightskip=.3cm,leftskip=.3cm
2915 \else
2916     \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.5ex,dp=1.125ex,leftskip=.3cm,rightskip=.3cm p
2917 \fi
2918     \usebeamerfont{title in head/foot}\insertshorttitle\nobreak\hfill\bgroup\usebeamercolor[
2919   \end{beamercolorbox}}}%
2920   \vskip0pt%
2921 }
2922
2923

```

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

```

2924 \ProvidesFile{beamerouterthemeshadow-xetex-bidi.def}[2022/06/07 v0.2 bidi adaptations for be
2925 \bidi@csundef{beamer@tmpop@frametitle@shadow theme}
2926
2927 \defbeamertemplate*{frametitle}{shadow theme}
2928 {%
2929   \nointerlineskip%
2930   \vskip-2pt%
2931   \hbox{\leavevmode
2932     \advance\beamer@leftmargin by -12bp%
2933     \advance\beamer@rightmargin by -12bp%
2934     \beamer@tempdim=\textwidth%

```



```

2935 \advance\beamer@tempdim by \beamer@leftmargin%
2936 \advance\beamer@tempdim by \beamer@rightmargin%
2937 \hskip-\Gm@lmargin\hbox{%
2938   \setbox\beamer@tempbox=\hbox{\begin{minipage}[b]{\paperwidth}%
2939     \vbox{\vskip-.75ex%
2940       \bidi@beamer@leftskip0.3cm%
2941       \bidi@beamer@rightskip0.3cm plus1fil\leavevmode
2942       \bgroup\usebeamerfont[fg]{frametitle}\usebeamerfont{frametitle}\strut\insertframesubtitle%
2943       \ifx\insertframesubtitle\@empty\else%
2944         {\usebeamerfont*{framesubtitle}{\usebeamerfont[fg]{framesubtitle}\insertframesubtitle}%
2945       \fi%
2946       \nointerlineskip
2947       \vbox{}}%
2948     \end{minipage}}%
2949 \beamer@tempdim=\ht\beamer@tempbox%
2950 \advance\beamer@tempdim by 2pt%
2951 \begin{pgfpicture}{0pt}{0pt}{\paperwidth}{\beamer@tempdim}
2952   \begin{pgfscope}
2953     \pgfsetfillcolor{black}%
2954     \pgfpathrectangle{\pgfpoint{0pt}{-4pt}}{\pgfpoint{\paperwidth}{8pt}}%
2955     \pgfsetfading{beamer@topshadowmask}{}%
2956     \pgfusepath{fill}%
2957   \end{pgfscope}
2958   \begin{pgfscope}
2959     \usebeamerfont{frametitle right}%
2960     \pgfpathrectangle{\pgfpointorigin}{\pgfpoint{\paperwidth}{\beamer@tempdim}}%
2961     \pgfusepath{clip}%
2962     \pgftext[left,base]{\pgfuseshading{beamer@frametitleshade}}%
2963   \end{pgfscope}
2964 \end{pgfpicture}
2965 \hskip-\paperwidth%
2966 \box\beamer@tempbox%
2967 }%
2968 \hskip-\Gm@rmargin%
2969 }%
2970 \vskip-2pt
2971 }
2972
2973 \AtBeginDocument{%
2974   \setbeamertemplate{frametitle}[shadow theme]%
2975 }
2976
2977

```

## 32 File beamerouterthemesmoothbars-xetex-bidi.def

```

2978 \ProvidesFile{beamerouterthemesmoothbars-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations for xetex]
2979 \bidi@csundef{beamer@tmpop@headline@smoothbars theme}
2980
2981 \bidi@csundef{beamer@tmpop@frametitle@smoothbars theme}
2982
2983 \defbeamertemplate*{headline}{smoothbars theme}
2984 {%
2985   \pgfuseshading{beamer@barshade}%

```



```

2986 \vskip-0.05ex%
2987 \begin{beamercolorbox}[wd=\paperwidth,ht=1ex,dp=0ex]{empty}
2988 \begin{pgfpicture}
2989   \begin{pgfscope}%
2990     \ifbeamer@sb@subsection%
2991       \pgfsetfillcolor{subsection in head/foot.bg}%
2992     \else%
2993       \pgfsetfillcolor{section in head/foot.bg}%
2994     \fi%
2995     \pgfpathrectangle{\pgfpoint{-.5\paperwidth}{-0.5ex}}{\pgfpoint{\paperwidth}{1ex}}%
2996     \pgfsetfading{beamer@belowframetitlemask}{}%
2997     \pgfusepath{fill}%
2998   \end{pgfscope}%
2999 \end{pgfpicture}%
3000 \end{beamercolorbox}%
3001 \ifbeamer@sb@subsection%
3002   \vskip-9.75ex%
3003 \else%
3004   \vskip-6.85ex%
3005 \fi%
3006 \begin{beamercolorbox}[ignorebg,ht=2.25ex,dp=3.75ex]{section in head/foot}
3007   \insertnavigation{\paperwidth}
3008 \end{beamercolorbox}%
3009 \ifbeamer@sb@subsection%
3010 \if@RTL
3011   \begin{beamercolorbox}[ignorebg,ht=2.125ex,dp=1.125ex,%
3012     rightskip=.3cm,leftskip=.3cm plus1fil]{subsection in head/foot}
3013   \else
3014     \begin{beamercolorbox}[ignorebg,ht=2.125ex,dp=1.125ex,%
3015       leftskip=.3cm,rightskip=.3cm plus1fil]{subsection in head/foot}
3016     \fi
3017     \usebeamerfont{subsection in head/foot}\insertsubsectionhead
3018   \end{beamercolorbox}%
3019 \fi%
3020 }%
3021
3022 \defbeamertemplate*{frametitle}{smoothbars theme}
3023 {%
3024   \nointerlineskip%
3025   \vskip-0.19ex%
3026   \usebeamerfont{headline}%
3027   \begin{beamercolorbox}[wd=\paperwidth,ht=1ex,dp=1ex,vmode]{empty}
3028     \pgfuses shading{beamer@aboveframetitle}%
3029   \end{beamercolorbox}%
3030   \vskip-1ex%
3031   \nointerlineskip%
3032   \if@RTL
3033     \begin{beamercolorbox}[wd=\paperwidth,rightskip=.3cm,leftskip=.3cm plus1fil,vmode]{frameti
3034     \else
3035       \begin{beamercolorbox}[wd=\paperwidth,leftskip=.3cm,rightskip=.3cm plus1fil,vmode]{frameti
3036     \fi
3037     \vskip0.5ex%
3038     \usebeamerfont*{frametitle}\strut\insertframetitle%
3039     \ifx\insertframesubtitle\@empty%

```



```

3040     \strut\par%
3041     \else
3042     \par{\usebeamerfont*{framesubtitle}{\usebeamercolor[fg]{framesubtitle}\strut\insertframesubtitle}%
3043     \fi}%
3044     \usebeamerfont{headline}%
3045     \vskip0.05ex%
3046 \end{beamercolorbox}%
3047 \nointerlineskip%
3048 \vskip-0.05ex%
3049 \begin{beamercolorbox}[wd=\paperwidth,ht=1ex,dp=0ex]{empty}
3050 \begin{pgfpicture}
3051     \begin{pgfscope}%
3052         \pgfsetfillcolor{frametitle.bg}%
3053         \pgfpathrectangle{\pgfpoint{-0.5\paperwidth}{-0.5ex}}{\pgfpoint{\paperwidth}{1ex}}%
3054         \pgfsetfading{beamer@belowframetitlemask}{}%
3055         \pgfusepath{fill}%
3056     \end{pgfscope}%
3057 \end{pgfpicture}%
3058 \end{beamercolorbox}%
3059 }
3060
3061 \AtBeginDocument{%
3062     \setbeamertheme{frametitle}[smoothbars theme]%
3063 }
3064
3065

```

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

```

3066 \ProvidesFile{beamerouterthemesmoothtree-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations for xetex]
3067 \bidi@csundef{beamer@tmpop@headline@smoothtree theme}
3068
3069 \bidi@csundef{beamer@tmpop@frametitle@smoothtree theme}
3070
3071 \defbeamertheme*{headline}{smoothtree theme}
3072 {%
3073     \pgfuses shading{beamer@treeshade}%
3074     \vskip-0.05ex%
3075     \begin{beamercolorbox}[wd=\paperwidth,ht=1ex,dp=0ex]{empty}
3076     \begin{pgfpicture}
3077         \begin{pgfscope}%
3078             \pgfsetfillcolor{subsection in head/foot.bg}%
3079             \pgfpathrectangle{\pgfpoint{-0.5\paperwidth}{-0.5ex}}{\pgfpoint{\paperwidth}{1ex}}%
3080             \pgfsetfading{beamer@belowframetitlemask}{}%
3081             \pgfusepath{fill}%
3082         \end{pgfscope}%
3083     \end{pgfpicture}%
3084     \end{beamercolorbox}%
3085     \vskip-9.15ex%
3086     \ifRTL
3087     \begin{beamercolorbox}[wd=\paperwidth,ht=1.125ex,dp=1.125ex,ignorebg,%
3088         rightskip=.3cm,leftskip=.3cm plus1fil]{title in head/foot}
3089     \else
3090     \begin{beamercolorbox}[wd=\paperwidth,ht=1.125ex,dp=1.125ex,ignorebg,%

```



```

3091 leftskip=.3cm,rightskip=.3cm plus1fil]{title in head/foot}
3092 \fi
3093 \usebeamerfont{title in head/foot}\insertshorttitle
3094 \end{beamercolorbox}
3095 \if@RTL
3096 \begin{beamercolorbox}[wd=\paperwidth,ht=2.125ex,dp=1.125ex,ignorebg,%
3097 rightskip=.3cm,leftskip=.3cm plus1fil]{section in head/foot}
3098 \else
3099 \begin{beamercolorbox}[wd=\paperwidth,ht=2.125ex,dp=1.125ex,ignorebg,%
3100 leftskip=.3cm,rightskip=.3cm plus1fil]{section in head/foot}
3101 \fi
3102 \usebeamerfont{section in head/foot}%
3103 \hskip6pt\insertsectionhead
3104 \end{beamercolorbox}
3105 \if@RTL
3106 \begin{beamercolorbox}[wd=\paperwidth,ht=2.125ex,dp=1.125ex,ignorebg,%
3107 rightskip=.3cm,leftskip=.3cm plus1fil]{subsection in head/foot}
3108 \else
3109 \begin{beamercolorbox}[wd=\paperwidth,ht=2.125ex,dp=1.125ex,ignorebg,%
3110 leftskip=.3cm,rightskip=.3cm plus1fil]{subsection in head/foot}
3111 \fi
3112 \usebeamerfont{subsection in head/foot}%
3113 \hskip12pt\insertsubsectionhead
3114 \end{beamercolorbox}
3115 \vskip-0.4ex%
3116 }
3117
3118 \defbeamertemplate*{frametitle}{smoothtree theme}
3119 {%
3120 \nointerlineskip%
3121 \vskip-0.05ex%
3122 \usebeamerfont{headline}%
3123 \begin{beamercolorbox}[wd=\paperwidth,ht=0.85ex,dp=0ex]{empty}
3124 \pgfuses shading{beamer@aboveframetitle}%
3125 \end{beamercolorbox}
3126 \nointerlineskip%
3127 \if@RTL
3128 \begin{beamercolorbox}[wd=\paperwidth,rightskip=.935cm,leftskip=.3cm plus1fil]{frametitle}
3129 \else
3130 \begin{beamercolorbox}[wd=\paperwidth,leftskip=.935cm,rightskip=.3cm plus1fil]{frametitle}
3131 \fi
3132 \vskip-1.2ex%
3133 \usebeamerfont*{frametitle}\strut\insertframetitle%
3134 \ifx\insertframesubtitle\@empty%
3135 \strut\par%
3136 \else
3137 \par{\usebeamerfont*{framesubtitle}{\usebeamercolor[fg]{framesubtitle}\strut\insertframesubtitle}%
3138 \fi}%
3139 \usebeamerfont{headline}%
3140 \end{beamercolorbox}%
3141 \nointerlineskip
3142 \vskip-0.2ex%
3143 \begin{beamercolorbox}[wd=\paperwidth,ht=1ex,dp=0ex]{empty}
3144 \begin{pgfpicture}

```





```

3145 \begin{pgfscope}%
3146 \pgfsetfillcolor{frametitle.bg}%
3147 \pgfpathrectangle{\pgfpoint{-0.5\paperwidth}{-0.5ex}}{\pgfpoint{\paperwidth}{1ex}}%
3148 \pgfsetfading{beamer@belowframetitlemask}{}%
3149 \pgfusepath{fill}%
3150 \end{pgfscope}%
3151 \end{pgfpicture}%
3152 \end{beamercolorbox}%
3153 }
3154
3155
3156 \AtBeginDocument{%
3157 \setbeamertemplate{frametitle}[smoothtree theme]%
3158 }
3159
3160

```

## 34 File beamerouterthemetree-xetex-bidi.def

```

3161 \ProvidesFile{beamerouterthemetree-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations for beam
3162 \bidi@csundef{beamer@tmpop@headline@tree theme}
3163
3164 \defbeamertemplate*{headline}{tree theme}
3165 {%
3166 \begin{beamercolorbox}[wd=\paperwidth,colsep=1.5pt]{upper separation line head}
3167 \end{beamercolorbox}
3168 \if@RTL
3169 \begin{beamercolorbox}[wd=\paperwidth,ht=2.5ex,dp=1.125ex,%
3170 rightskip=.3cm,leftskip=.3cm plus1fil]{title in head/foot}
3171 \else
3172 \begin{beamercolorbox}[wd=\paperwidth,ht=2.5ex,dp=1.125ex,%
3173 leftskip=.3cm,rightskip=.3cm plus1fil]{title in head/foot}
3174 \fi
3175 \usebeamerfont{title in head/foot}\insertshorttitle
3176 \end{beamercolorbox}
3177 \if@RTL
3178 \begin{beamercolorbox}[wd=\paperwidth,ht=2.5ex,dp=1.125ex,%
3179 rightskip=.3cm,leftskip=.3cm plus1fil]{section in head/foot}
3180 \else
3181 \begin{beamercolorbox}[wd=\paperwidth,ht=2.5ex,dp=1.125ex,%
3182 leftskip=.3cm,rightskip=.3cm plus1fil]{section in head/foot}
3183 \fi
3184 \usebeamerfont{section in head/foot}%
3185 \ifbeamer@tree@showhooks
3186 \setbox\beamer@tempbox=\hbox{\insertsectionhead}%
3187 \ifdim\wd\beamer@tempbox>1pt%
3188 \hskip2pt\raise1.9pt\hbox{\vrule width0.4pt height1.875ex\vrule width 5pt height0.
3189 \hskip1pt%
3190 \fi%
3191 \else%
3192 \hskip6pt%
3193 \fi%
3194 \insertsectionhead
3195 \end{beamercolorbox}

```



```

3196 \if@RTL
3197 \begin{beamercolorbox}[wd=\paperwidth,ht=2.5ex,dp=1.125ex,%
3198 rightskip=.3cm,leftskip=.3cm plus1fil]{subsection in head/foot}
3199 \else
3200 \begin{beamercolorbox}[wd=\paperwidth,ht=2.5ex,dp=1.125ex,%
3201 leftskip=.3cm,rightskip=.3cm plus1fil]{subsection in head/foot}
3202 \fi
3203 \usebeamerfont{subsection in head/foot}%
3204 \ifbeamer@tree@showhooks
3205 \setbox\beamer@tempbox=\hbox{\insertsubsectionhead}%
3206 \ifdim\wd\beamer@tempbox>1pt%
3207 \hskip9.4pt\raise1.9pt\hbox{\vrule width0.4pt height1.875ex\vrule width 5pt height
3208 \hskip1pt}%
3209 \fi%
3210 \else%
3211 \hskip12pt%
3212 \fi%
3213 \insertsubsectionhead
3214 \end{beamercolorbox}
3215 \begin{beamercolorbox}[wd=\paperwidth,colsep=1.5pt]{lower separation line head}
3216 \end{beamercolorbox}
3217 }
3218
3219

```

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

```

3220 \ProvidesFile{beamerthemeHannover-xetex-bidi.def}[2022/06/07 v0.1 bidi adaptations for beamer]
3221 \AtBeginDocument{%
3222 \if@RTLmain
3223 \setbeamertemplate{frametitle}[default][left]%
3224 \else
3225 \setbeamertemplate{frametitle}[default][right]%
3226 \fi
3227 }
3228
3229

```

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

```

3230 \ProvidesFile{beamerthemeSingapore-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations for beamer]
3231 \addtoheadtemplate{\pgfuses shading{beamer@headfade}\vskip-1.25cm}{ }
3232
3233 \beamertemplatedotitem
3234
3235 \AtBeginDocument{%
3236 \setbeamertemplate{frametitle}[default][center]%
3237 }
3238
3239

```

### 37 File bidi.sty

```

3240 \NeedsTeXFormat{LaTeX2e}

```



```

3241 \def\bididate{2022/06/09}
3242 \def\bidiversion{37.7}
3243 \ProvidesPackage{bidi}[\bididate\space v\bidiversion\space
3244 Bidirectional typesetting in plain TeX and LaTeX]
3245 \edef\@bidi@info{*****~J%
3246 * ~J%
3247 * bidi package (Bidirectional typesetting in~J%
3248 * plain TeX and LaTeX, using XeTeX engine)~J%
3249 * ~J%
3250 * Description: A convenient interface for~J%
3251 * typesetting bidirectional texts in plain TeX~J%
3252 * and LaTeX. The package includes adaptations~J%
3253 * for use with many other commonly-used packages.~J%
3254 * ~J%
3255 * Copyright (c) 2007--2022 Vafa Khalighi~J%
3256 * Copyright (c) 2018--2020 bidi-tex GitHub organization~J%
3257 * ~J%
3258 * v\bidiversion, \bididate~J%
3259 * ~J%
3260 * License: LaTeX Project Public License, version~J%
3261 * 1.3c or higher (your choice)~J%
3262 * ~J%
3263 * Location on CTAN: /macros/xetex/latex/bidi~J%
3264 * ~J%
3265 * Issue tracker: https://github.com/kvafa/bidi/issues~J%
3266 * ~J%
3267 * Discussions: https://github.com/kvafa/bidi/discussions~J%
3268 * ~J%
3269 * Primary author of bidi package: Vafa Khalighi.~J%
3270 * ~J%
3271 *****}
3272 \typeout{\@bidi@info}
3273 \edef\bidi@everyjob{\the\everyjob}
3274 \everyjob{\bidi@everyjob\typeout{\@bidi@info}}
3275 \newcommand*\bidiversion{\ensuremath\bidiversion}
3276 \newcommand*\IfbidiPackageVersionLater}[1]{%
3277   \ifdim\bidi@version pt > #1 pt %
3278     \expandafter\@firstoftwo
3279   \else
3280     \expandafter\@secondoftwo
3281   \fi}
3282 \newcommand*\IfbidiPackageVersionBefore}[1]{%
3283   \ifdim\bidi@version pt < #1 pt %
3284     \expandafter\@firstoftwo
3285   \else
3286     \expandafter\@secondoftwo
3287   \fi}
3288 \newcommand*\IfbidiPackageVersion}[1]{%
3289   \ifdim\bidi@version pt = #1 pt %
3290     \expandafter\@firstoftwo
3291   \else
3292     \expandafter\@secondoftwo
3293   \fi}
3294 \RequirePackage{iftex}

```



```

3295 \RequireXeTeX
3296 \RequirePackage{bidiutils}
3297 \RequirePackage{zref-abspage}
3298 \RequirePackage{auxhook}
3299 \RequirePackage{ltxcmds}
3300 \RequirePackage{xkeyval}
3301 \eqnewif{\if@RTLmain}{\if@rlmain}
3302 \eqnewif{\if@RTL}{\if@rl}
3303 \newif\if@nonlatin
3304 \newif\if@bidi@perpage@footnote
3305 \newcommand*{\setlatin}{\@nonlatinfalse}
3306 \newcommand*{\setnonlatin}{\@nonlatintrue}
3307 \eqnewif{\if@RTLtab}{\if@tab@rl}
3308 \newif\if@hboxRconstruct
3309 \newif\if@bidi@pdfencrypt
3310 \newcommand*{\setRTLtable}{\@RTLtabtrue}
3311 \newcommand*{\setLTRtable}{\@RTLtabfalse}
3312 \newif\if@bidi@pdfm@mark
3313 \newif\if@RTLMarginpar
3314 \newif\if@LTRmarginpar
3315 \newif\if@LTRbibitems
3316 \newif\if@RTLbibitems
3317 \newif\if@extrafootnote@features
3318 \newif\if@RTLColumnfootnotes
3319 \eqnewif{\if@RTL@footnote}{\if@rl@footnote}
3320 \newif\if@bidi@list@minipage@parbox
3321 \newif\if@bidi@list@minipage@parbox@not@nob
3322 \newcommand*{\@bidi@pdfcreator}{%
3323   The bidi package, v\@bidi@version, \@bidi@date
3324 }
3325 \newcommand*{\@bidi@pdfproducer}{%
3326   The bidi package, v\@bidi@version, \@bidi@date
3327 }
3328 \newcommand*{\@bidi@pdfcustomproperties}{%
3329   This is the bidi package, Version \@bidi@version,
3330   Released June 9, 2022.
3331 }
3332 \newcommand*{\@bidi@beamer@ragged}{%
3333 \@RTLmainfalse
3334 \AtBeginDocument{%
3335   \if@RTLmain\else
3336     \if@RTL\@RTLmaintrue%
3337     \else\@RTLmainfalse%
3338     \fi%
3339   \fi%
3340 }
3341 \let\n@xt=\
3342 \bidi@newrobustcmd*{\LRE}{\protect\pLRE}%
3343 \def\pLRE{\protect\afterassignment\moreLRE \let\n@xt= }
3344 \bidi@newrobustcmd*{\RLE}{\protect\pRLE}
3345 \def\pRLE{\protect\afterassignment\moreRLE \let\n@xt= }
3346 \def\bracetext{\ifcat\n@xt{\else\ifcat\n@xt}\fi
3347   \errmessage{Missing left brace has been substituted}\fi \bgroup}
3348 \newinsert\@bidi@copyins@

```



```

3349 \skip\@bidi@copyins@=12\p@
3350 \dimen\@bidi@copyins@=40pc
3351 \count\@bidi@copyins@=1000
3352 \newcommand*{\@bidi@inslogo@}{\insert\@bidi@copyins@{\@bidi@logo@}}
3353 \newcommand*{\@bidi@logo@hb@xt@columnwidth}{%
3354   \if@RTLmain
3355     \if@twocolumn
3356       \hboxR to \columnwidth
3357     \else
3358       \hboxR to \textwidth
3359     \fi
3360   \else
3361     \if@twocolumn
3362       \hboxL to \columnwidth
3363     \else
3364       \hboxL to \textwidth
3365     \fi
3366   \fi
3367 }
3368 \newcommand*{\@bidi@logo}[1]{%
3369   \toks@{%
3370     \setbox\z@\hbox{%
3371       \special{%
3372         pdf:image width 50pt height 50pt (#1)%
3373       }
3374     }%
3375     \dp\z@\z@
3376     \ht\z@=50pt
3377     \wd\z@=50pt
3378     \beginL
3379       \lower20pt\box\z@
3380     \endL
3381   }%
3382   \the\toks@
3383 }
3384 \newcommand*{\@bidi@logo@}{%
3385   \@bidi@logo@hb@xt@columnwidth
3386   {\hss\LRE{\bfseries Typeset by the \textsf{bidi}
3387     package\quad\@bidi@logo{bidi-logo.pdf}}}}
3388 \define@key{bidi@pdfencrypt}{userpassword}[]{%
3389   \def\bidi@pdfencrypt@userpassword{#1}%
3390 }
3391 \define@key{bidi@pdfencrypt}{ownerpassword}[]{%
3392   \def\bidi@pdfencrypt@ownerpassword{#1}%
3393 }
3394 \define@key{bidi@pdfencrypt}{keylength}[128]{%
3395   \def\bidi@pdfencrypt@keylength{#1}%
3396 }
3397 \define@key{bidi@pdfencrypt}{permissionflags}[2052]{%
3398   \def\bidi@pdfencrypt@permissionflags{#1}%
3399 }
3400 \newcommand*{\pdfencryptsetup}{\setkeys{bidi@pdfencrypt}}
3401 \@onlypreamble\pdfencryptsetup
3402 \input{latex-xetex-bidi.def}

```



```

3403 \input{loadingorder-xetex-bidi.def}
3404 \define@choicekey{bidi.sty}{RTLdocument}[\bidi@tempa\bidi@tempb]{on,off}[on]{%
3405   \ifcase\bidi@tempb\relax
3406     \@RTLtrue
3407   \or
3408     \@RTLfalse
3409   \fi}
3410 \define@choicekey{bidi.sty}{documentdirection}[\bidi@tempa\bidi@tempb]{righttoleft,lefttoright}
3411 \ifcase\bidi@tempb\relax
3412   \@RTLtrue
3413 \or
3414   \@RTLfalse
3415 \fi}
3416 \define@choicekey{bidi.sty}{tabledirection}[\bidi@tempa\bidi@tempb]{righttoleft,lefttoright}
3417 \ifcase\bidi@tempb\relax
3418   \@RTLtabtrue
3419 \or
3420   \@RTLtabfalse
3421 \fi}
3422 \define@choicekey{bidi.sty}{script}[\bidi@tempa\bidi@tempb]{latin,nonlatin}[latin]{%
3423   \ifcase\bidi@tempb\relax
3424     \@nonlatinfalse
3425   \or
3426     \@nonlatintrue
3427   \fi}
3428 \define@choicekey{bidi.sty}{rldocument}[\bidi@tempa\bidi@tempb]{on,off}[on]{%
3429   \ifcase\bidi@tempb\relax
3430     \@RTLtrue
3431   \or
3432     \@RTLfalse
3433   \fi}
3434 \define@choicekey{bidi.sty}{footnoterule}[\bidi@tempa\bidi@tempb]{automatic,left,right,split}
3435 \ifcase\bidi@tempb\relax
3436   \autofootnoterule
3437 \or
3438   \leftfootnoterule
3439 \or
3440   \rightfootnoterule
3441 \or
3442   \SplitFootnoteRule
3443 \or
3444   \textwidthfootnoterule
3445 \fi}
3446 \define@choicekey{bidi.sty}{footnotedirection}[\bidi@tempa\bidi@tempb]{righttoleft,lefttoright}
3447 \ifcase\bidi@tempb\relax
3448   \@RTL@footnotetrue
3449 \or
3450   \@RTL@footnotefalse
3451 \fi}
3452 \define@choicekey{bidi.sty}{debugfootnotedirection}[\bidi@tempa\bidi@tempb]{on,off}[on]{%
3453   \ifcase\bidi@tempb\relax
3454     \footdir@debugtrue
3455   \or
3456     \footdir@debugfalse

```



```

3457 \fi}
3458 \define@choicekey{bidi.sty}{extrafootnotefeatures}[\bidi@tempa\bidi@tempb]{on,off}[on]{%
3459 \ifcase\bidi@tempb\relax
3460 \extrafootnotefeaturestrue
3461 \or
3462 \extrafootnotefeaturesfalse
3463 \fi}
3464
3465 \define@choicekey{bidi.sty}{DetectColumn}[\bidi@tempa\bidi@tempb]{on,off}[on]{%
3466 \ifcase\bidi@tempb\relax
3467 \def\bidi@firstcolumn@status@write{%
3468 \protected@write\auxout{%
3469 \string\bidi@column@status
3470 {1}}}%
3471 \def\bidi@lastcolumn@status@write{%
3472 \protected@write\auxout{%
3473 \string\bidi@column@status{2}}}%
3474 \or
3475 \let\bidi@firstcolumn@status@write\relax
3476 \let\bidi@lastcolumn@status@write\relax
3477 \fi}
3478
3479 \define@choicekey{bidi.sty}{logo}[\bidi@tempa\bidi@tempb]{on,off}[on]{%
3480 \ifcase\bidi@tempb\relax
3481 \AtBeginDocument{\@bidi@inslogo@}%
3482 \or
3483 \let\@bidi@logo@\@empty \let\@bidi@inslogo@\@empty
3484 \fi}
3485
3486 \define@choicekey{bidi.sty}{pdfinfo}[\bidi@tempa\bidi@tempb]{on,off}[on]{%
3487 \ifcase\bidi@tempb\relax
3488 \bidi@pdfm@marktrue
3489 \or
3490 \bidi@pdfm@markfalse
3491 \fi}
3492
3493 % The `perpagefootnote' option is documented in UK TeX FAQ at
3494 % <https://texfaq.org/FAQ-footnpp> (see last paragraph)
3495
3496 \define@choicekey{bidi.sty}{perpagefootnote}[\bidi@tempa\bidi@tempb]{on,off}[on]{%
3497 \ifcase\bidi@tempb\relax
3498 \bidi@perpage@footnotetrue
3499 \or
3500 \bidi@perpage@footnotefalse
3501 \fi}
3502
3503 \ExecuteOptionsX{%
3504 DetectColumn=off%
3505 }
3506
3507 \ProcessOptionsX
3508
3509 \pdfencryptsetup{%
3510 userpassword,%

```



```

3511 ownerpassword,%
3512 keylength,%
3513 permissionflags%
3514 }
3515
3516 \if@extrafootnotefeatures
3517 \input{extrafootnotefeatures-xetex-bidi.def}
3518 \fi
3519 \newcount\bididigits
3520 \XeTeXinterchartokenstate=\@ne
3521 \newXeTeXintercharclass\bididigits@charclass
3522 \newXeTeXintercharclass\bidisepmark@charclass
3523 \XeTeXcharclass`\.\bidisepmark@charclass
3524 \XeTeXcharclass`\-bidisepmark@charclass
3525 \bididigits=\@O\loop\XeTeXcharclass\bididigits\bididigits@charclass\ifnum\bididigit
3526 \bididigits=\@ \loop\XeTeXcharclass\bididigits\bididigits@charclass\ifnum\bididigit
3527 \bididigits=\@ \loop\XeTeXcharclass\bididigits\bididigits@charclass\ifnum\bididigit
3528 \XeTeXinterchartoks\bidisepmark@charclass\bididigits@charclass={\DigitsDotDashInterCh
3529 \newcommand*{\DigitsDotDashInterCharToks}{\if@nonlatin\char"200F\fi}
3530 \bididigit\AtEndPreamble{%
3531 \if@bidi@perpage@footnote
3532 \RequirePackage{bidi-perpage}%
3533 \ResetCounterPerPage{footnote}%
3534 \fi
3535 \ifx\bidipdfencrypt@ownerpassword\bididigitempty
3536 \ifx\bidipdfencrypt@userpassword\bididigitempty
3537 \@bidipdfencryptfalse
3538 \else
3539 \@bidipdfencrypttrue
3540 \fi
3541 \else
3542 \@bidipdfencrypttrue
3543 \fi
3544 \if@bidi@pdfencrypt
3545 \special{pdf:encrypt
3546 userpw (\bidipdfencrypt@userpassword)
3547 ownerpw (\bidipdfencrypt@ownerpassword)
3548 length \bidipdfencrypt@keylength
3549 perm \bidipdfencrypt@permissionflags
3550 }%
3551 \fi
3552 }
3553 \AtEndDocument{%
3554 \special{pdf:%
3555 docinfo<<%
3556 \if@bidi@pdfm@mark
3557 /Creator(\@bidi@pdfcreator)%
3558 /Producer(\@bidi@pdfproducer)%
3559 \fi
3560 /BIDI.Fullbanner(\@bidi@pdfcustomproperties)%
3561 \if@bidi@csdef{@xepersian@pdfcustomproperties}{%
3562 /XEPERSIAN.Fullbanner(\@xepersian@pdfcustomproperties)%
3563 }{}%
3564 >>%

```





```

3565 }%
3566 }

```

## 38 File bidi.tex

```

3567 \def\bididate{2022/06/09}
3568 \catcode\@=11
3569 \def\bidi@version{37.7}
3570 \let \protect \relax
3571 \newlinechar`\^^J
3572 \edef\@bidi@info{*****^^J%
3573 * ^^J%
3574 * bidi package (Bidirectional typesetting in^^J%
3575 * plain TeX and LaTeX, using XeTeX engine)^^J%
3576 * ^^J%
3577 * Description: A convenient interface for^^J%
3578 * typesetting bidirectional texts in plain TeX^^J%
3579 * and LaTeX. The package includes adaptations^^J%
3580 * for use with many other commonly-used packages.^^J%
3581 * ^^J%
3582 * Copyright (c) 2007--2022 Vafa Khalighi^^J%
3583 * Copyright (c) 2018--2020 bidi-tex GitHub organization^^J%
3584 * ^^J%
3585 * v\bidi@version, \bididate^^J%
3586 * ^^J%
3587 * License: LaTeX Project Public License, version^^J%
3588 * 1.3c or higher (your choice)^^J%
3589 * ^^J%
3590 * Location on CTAN: /macros/xetex/latex/bidi^^J%
3591 * ^^J%
3592 * Issue tracker: https://github.com/kvafa/bidi/issues^^J%
3593 * ^^J%
3594 * Discussions: https://github.com/kvafa/bidi/discussions^^J%
3595 * ^^J%
3596 * Primary author of bidi package: Vafa Khalighi.^^J%
3597 * ^^J%
3598 *****}
3599 \message{\@bidi@info}
3600 \edef\bidi@everyjob{\the\everyjob}
3601 \everyjob{\bidi@everyjob\message{\@bidi@info}}
3602 \def\bidiversion{%
3603   \relax
3604   \ifmmode
3605     \bidi@version
3606   \else
3607     $\bidi@version$
3608   \fi
3609 }
3610 \input iftex.sty
3611 \RequireXeTeX
3612 \newif\if@bidi@pdfm@mark
3613 \newif\if@RTLmain
3614 \newif\if@RTL
3615 \newif\if@hboxRconstruct

```



```

3616 \newif\if@sentdir
3617 \newif\if@RTL@footnote
3618 \@RTLmainfalse
3619 \def\setRTLmain{%
3620   \if@RTLmain\else
3621     \if@RTL\@RTLmaintrue%
3622     \else\@RTLmainfalse%
3623   \fi%
3624 \fi%
3625 }
3626 \let\n@xt=\
3627 \protected\def\LRE{\protect\pLRE}%
3628 \def\pLRE{\protect\afterassignment\moreLRE \let\n@xt= }
3629 \protected\def\RLE{\protect\pRLE}
3630 \def\pRLE{\protect\afterassignment\moreRLE \let\n@xt= }
3631 \def\bracetext{\ifcat\n@xt{\else\ifcat\n@xt}\fi
3632   \errmessage{Missing left brace has been substituted}\fi \bgroup}
3633 \newinsert\@bidi@copyins@
3634 \skip\@bidi@copyins@=12\p@
3635 \dimen\@bidi@copyins@=40pc
3636 \count\@bidi@copyins@=1000
3637 \def\@bidi@inslogo@{\insert\@bidi@copyins@\@bidi@logo@}
3638 \def\@bidi@logo@hb@xt@{%
3639   \if@RTLmain
3640     \hboxR to
3641   \else
3642     \hboxL to
3643   \fi
3644 }
3645 \def\@bidi@logo#1{%
3646   \toks@{%
3647     \setbox\z@\hbox{%
3648       \special{%
3649         pdf:image width 50pt height 50pt (#1)%
3650       }
3651     }%
3652     \dp\z@\z@
3653     \ht\z@=50pt
3654     \wd\z@=50pt
3655     \beginL
3656       \lower20pt\box\z@
3657     \endL
3658   }%
3659   \the\toks@
3660 }
3661 \def\@bidi@logo@\@bidi@logo@hb@xt@\hsize{\hss\LRE{\bf Typeset by the bidi package\quad\@bidi@logo@}}
3662 \def\nobidilogo{\let\@bidi@logo@\@empty \let\@bidi@inslogo@\@empty}
3663 \def\@bidi@pdfcreator{%
3664   The bidi package, v\@bidi@version, \@bidi@date
3665 }
3666 \def\@bidi@pdfproducer{%
3667   The bidi package, v\@bidi@version, \@bidi@date
3668 }
3669 \def\@bidi@pdfcustomproperties{%

```



```

3670 This is the bidi package, Version \bidi@version,
3671 Released June 9, 2022.
3672 }
3673 \def\bidi@pdfm@mark{%
3674   \special{pdf:%
3675     docinfo<<%
3676     \if@bidi@pdfm@mark
3677       /Creator(\@bidi@pdfcreator)%
3678       /Producer(\@bidi@pdfproducer)%
3679     \fi
3680     /BIDI.Fullbanner(\@bidi@pdfcustomproperties)%
3681     >>%
3682   }%
3683 }
3684 \def\bidipdfinfoon{\@bidi@pdfm@marktrue}
3685 \def\bidipdfinfooff{\@bidi@pdfm@markfalse}
3686 \input plain-xetex-bidi.def
3687 \@bidi@inslogo@
3688 \outer\def\bye{\par\vfill\supereject\bidi@pdfm@mark\end}
3689 \catcode`\@=12
3690 \bidipdfinfoon

```

### 39 File bidi2in1.sty

```

3691 \NeedsTeXFormat{LaTeX2e}
3692 \ProvidesPackage{bidi2in1}
3693 \pagestyle{plain}
3694 \newcount\evenpage
3695 \newcount\oddpag
3696 \twocolumn
3697 \def\@oddfoot{\evenpage=\thepage%
3698 \multiply\evenpage by 2%
3699 \oddpag=\the\evenpage%
3700 \advance\oddpag by -1%
3701 \hfil\the\evenpage\hfil\hfil\the\oddpag\hfil}%
3702 \def\@evenfoot{\evenpage=\thepage%
3703 \multiply\evenpage by 2%
3704 \oddpag=\the\evenpage%
3705 \advance\oddpag by -1%
3706 \hfil\the\oddpag\hfil\hfil\the\evenpage\hfil}%
3707 \textwidth 9.49in
3708 \textheight 6.7in
3709 \columnsep 0.9in
3710 \columnseprule 0.125pt
3711 \headheight 0cm
3712 \topmargin 0in
3713 \marginparwidth 0in
3714 \marginparsep 0in
3715 \hoffset 0.05in % Corrected
3716 \voffset -0.5in %top margin space is 1.0in by default
3717 \oddsidemargin 0in
3718 \evensidemargin 0in
3719 \headsep 0cm
3720 \topskip 0cm

```



```

3721 \parskip 0.15in      %
3722 \headsep 0pt
3723 \special{papersize=11.69in,8.26in}
3724 \renewcommand\maketitle{\par
3725 \begingroup
3726 \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
3727 \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
3728 \long\def\@makefntext##1{\parindent 1em\noindent
3729 \hb@xt@1.8em{%
3730 \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
3731 \@maketitle
3732 \@thanks
3733 \endgroup
3734 \setcounter{footnote}{0}%
3735 \global\let\thanks\relax
3736 \global\let\maketitle\relax
3737 \global\let\@maketitle\relax
3738 \global\let\@thanks\@empty
3739 \global\let\@author\@empty
3740 \global\let\@date\@empty
3741 \global\let\@title\@empty
3742 \global\let\title\relax
3743 \global\let\author\relax
3744 \global\let\date\relax
3745 \global\let\and\relax
3746 }

```

## 40 File bidicode.sty

```

3747 \NeedsTeXFormat{LaTeX2e}
3748 \ProvidesPackage{bidicode}
3749 \RequirePackage{xcolor}
3750 \RequirePackage{showexpl}
3751 \definecolor{hellgelb}{rgb}{1,1,0.85}
3752 \definecolor{colKeys}{rgb}{0,0,1}
3753 \definecolor{colIdentifier}{rgb}{0,0,0}
3754 \definecolor{colComments}{rgb}{1,0,0}
3755 \definecolor{colString}{rgb}{0,0.5,0}
3756 \lstset{
3757     language=[LaTeX]TEX,
3758     float=hbp,
3759     basicstyle=\ttfamily\small,
3760     identifierstyle=\color{colIdentifier},
3761     keywordstyle=\color{colKeys},
3762     stringstyle=\color{colString},
3763     commentstyle=\color{colComments},
3764     backgroundcolor=\color{hellgelb},
3765     columns=flexible,
3766     tabsize=4,
3767     extendedchars=true,
3768     showspaces=false,
3769     showstringspaces=false,
3770     numbers=left,
3771     numbersep=0.9em,

```



```

3772     numberstyle=\tiny, %
3773     frame=single,
3774     captionpos=b,
3775     xleftmargin=1em,
3776     breaklines=true,
3777     breakautoindent=false,
3778     breakindent=0pt,
3779     escapeinside=**,
3780     pos=r,
3781     explpreset={%
3782     xleftmargin=1em,columns=flexible,language=[LaTeX]TEX},
3783     morekeywords={setLTR,setLR,setRTL,setRL,LRE,LR,RLE,RL,lr,bidiversion,bididate}
3784 }
3785 \newcommand\HLON{%
3786   \gdef\lst@alloverstyle##1{%
3787     \fboxrule=0pt
3788     \fboxsep=0pt
3789     \fcolorbox{hellgelb}{hellgelb}{\bfseries\strut##1}%
3790 }}
3791 \newcommand\HLOFF{%
3792   \xdef\lst@alloverstyle##1{##1}%
3793 }
3794 \newcommand\Larg [1]{\{\normalfont\itshape#1\}/}
3795 \newcommand\Larga[1]{\$\langle$\Larg{#1}$\rangle$}
3796 \newcommand\Largb[1]{\{\lcb\Larg{#1}\rcb}
3797 \newcommand\Largs[1]{\{\lsb\Larg{#1}\rsb}
3798 \newcommand\Largr[1]{\{\lrb\Larg{#1}\rrb}
3799 \newcommand\LBEG[1]{\{\normalfont\ttfamily\bs{}\begin\lcb#1\rcb}}
3800 \newcommand\LEND[1]{\{\normalfont\ttfamily\bs{}\end\lcb#1\rcb}}
3801
3802 \DeclareRobustCommand\bs{\{\normalfont\ttfamily\symbol{92}\}}
3803 \DeclareRobustCommand\lcb{\{\normalfont\ttfamily\char`{\}}
3804 \DeclareRobustCommand\rcb{\{\normalfont\ttfamily\char`\}}
3805 \DeclareRobustCommand\lsb{\{\normalfont\ttfamily[]
3806 \DeclareRobustCommand\rsb{\{\normalfont\ttfamily[]
3807 \DeclareRobustCommand\lrb{\{\normalfont\ttfamily{}
3808 \DeclareRobustCommand\rrb{\{\normalfont\ttfamily{}
3809
3810 \def\Lcs#1{\nxLcs{#1}}
3811 \def\LcsStar#1{\nxLcs{#1}\OptArg*{}}
3812 \def\nxLcs#1{\texttt{\symbol{92}#1}}
3813
3814 \def\Coordx#1{$x_{#1}$}
3815 \def\Coordy#1{$y_{#1}$}
3816 \def\Coordz#1{$z_{#1}$}
3817 \def\Coord#1{\Coordx{#1},\kern 1pt\Coordy{#1}}
3818 \def\Coordn{\Coordx{n},\kern 1pt\Coordy{n}}
3819 \def\CoordIII#1{\Coordx{#1},\kern 1pt\Coordy{#1},\kern 1pt\Coordz{#1}}
3820 \def\CAny{\Coordx{},\kern 1pt\Coordy{}}
3821 \def\CIIIAny{\Coordx{},\kern 1pt\Coordy{},\kern 1pt\Coordz{}}
3822 \def\coord#1{(\Coordx{#1},\kern 1pt\Coordy{#1})}
3823 \def\coordn{(\Coordx{n},\kern 1pt\Coordy{n})}
3824 \def\coordiii#1{(\Coordx{#1},\kern 1pt\Coordy{#1},\kern 1pt\Coordz{#1})}
3825 \def\coordx#1{($x_{#1}$)}

```



```

3826 \def\coordy#1{($y_{#1}$)}
3827 \def\coordz#1{($z_{#1}$)}
3828 \def\cAny{(\Coordx{} ,\kern 1pt\Coordy{})}
3829 \def\ciiAny{(\Coordx{} ,\kern 1pt\Coordy{} ,\kern 1pt\Coordz{})}
3830
3831 \newsavebox{\boxdef}
3832 \newenvironment{BDef}
3833   {\begin{lrbox}\boxdef
3834     \def\arraystretch{1.0}
3835     \begin{tabular}{@{}l@{}l@{}l@{}}
3836   }
3837   {\end{tabular}\end{lrbox}}
3838
3839   {\BCmd\fbbox{\usebox\boxdef}\endBCmd}
3840   \aftergroup\@afterindentfalse\aftergroup\@afterheading
3841 }
3842
3843 \newenvironment{BDef*}
3844   {\begin{lrbox}\boxdef
3845     \def\arraystretch{1.0}
3846     \begin{tabular}{@{}l@{}l@{}l@{}}
3847   }
3848   {\end{tabular}\end{lrbox}}
3849   {\begin{BCmd*}\fbbox{\usebox\boxdef}\end{BCmd*}}
3850   \aftergroup\@afterindentfalse\aftergroup\@afterheading
3851 }
3852 \newenvironment{BCmd}{
3853   \@beginparpenalty-\@lowpenalty
3854   \topsep\BDefaboveskip
3855   \fbboxsep3pt
3856   \flushleft}
3857 {\@endparpenalty\@M
3858   \topsepadd\BDefbelowskip
3859   \endflushleft}
3860
3861 \newenvironment{BCmd*}{
3862   \@beginparpenalty\@M
3863   \topsep\BDefinlineskip
3864   \fbboxsep3pt
3865   \flushleft}
3866 {\@endparpenalty5000
3867   \endflushleft}
3868
3869 \newskip\BDefaboveskip
3870 \newskip\BDefbelowskip
3871 \newskip\BDefinlineskip
3872 \setlength\BDefaboveskip{10pt plus 4pt}
3873 \setlength\BDefbelowskip{6pt}
3874 \setlength\BDefinlineskip{6pt}
3875
3876 \def\OptArgs{\colorbox{black!20}{\texttt{[Options]}}\kern1pt}
3877 \def\OptArg{\@ifnextchar*\OptArg@i{\OptArg@ii*}}
3878 \def\OptArg@i*#1{\colorbox{black!20}{\texttt{#1}}\kern1pt}
3879 \def\OptArg@ii*#1{\colorbox{black!20}{\texttt{[#1]}}\kern1pt}

```



## 41 File bidiftnxtra.sty

```
3880 \NeedsTeXFormat{LaTeX2e}
3881 \ProvidesPackage{bidiftnxtra}
3882 \newtoks\bidip@ftn
3883 \let\FN@sffootnote\footnote
3884 \let\FN@sff@LTRfootnote\LTRfootnote
3885 \let\FN@sff@RTLfootnote\RTLfootnote
3886 \def\footnote{\ifx\protect\@typeset@protect
3887   \expandafter\FN@sffootnote
3888   \else
3889     \expandafter\FN@sff@gobble@opt
3890   \fi
3891 }
3892 \def\LTRfootnote{\ifx\protect\@typeset@protect
3893   \expandafter\FN@sff@LTRfootnote
3894   \else
3895     \expandafter\FN@sff@gobble@opt
3896   \fi
3897 }
3898 \def\RTLfootnote{\ifx\protect\@typeset@protect
3899   \expandafter\FN@sff@RTLfootnote
3900   \else
3901     \expandafter\FN@sff@gobble@opt
3902   \fi
3903 }
3904 \edef\FN@sff@gobble@opt{\noexpand\protect
3905   \expandafter\noexpand\csname FN@sff@gobble@opt \endcsname}
3906 \expandafter\def\csname FN@sff@gobble@opt \endcsname{%
3907   \@ifnextchar[%]
3908     \FN@sff@gobble@twobracket
3909     \@gobble
3910 }
3911 \def\FN@sff@gobble@twobracket[#1]#2{}
3912 \let\FN@sff@footnotemark\footnotemark
3913 \def\footnotemark{\ifx\protect\@typeset@protect
3914   \expandafter\FN@sff@footnotemark
3915   \else
3916     \expandafter\FN@sff@gobble@optonly
3917   \fi
3918 }
3919 \edef\FN@sff@gobble@optonly{\noexpand\protect
3920   \expandafter\noexpand\csname FN@sff@gobble@optonly \endcsname}
3921 \expandafter\def\csname FN@sff@gobble@optonly \endcsname{%
3922   \@ifnextchar[%]
3923     \FN@sff@gobble@bracket
3924     {}%
3925 }
3926 \def\FN@sff@gobble@bracket[#1]{}
3927 \def\@tabular{%
3928   \leavevmode \hbox \bgroup
3929   \let\@footnotetext\bidip@ftntext
3930   \let\@LTRfootnotetext\bidip@LTRftntext
3931   \let\@RTLfootnotetext\bidip@RTLftntext
```



```

3932 \let\@xfootnotenext\@bidi@p@xftntext
3933 \let\@xfootnote\@bidi@p@xfootnote
3934 \let\@xLTRfootnotenext\@bidi@p@xLTRftntext
3935 \let\@xLTRfootnote\@bidi@p@xLTRfootnote
3936 \let\@xRTLfootnotenext\@bidi@p@xRTLftntext
3937 \let\@xRTLfootnote\@bidi@p@xRTLfootnote
3938 \if@RTLtab\beginR \fi
3939 $\let\@acol\@tabacol
3940 \let\@classz\@tabclassz
3941 \let\@classiv\@tabclassiv \let\\\@tabularcr\@tabarray}
3942 \def\endtabular{\crrc\egroup\if@RTLtab\egroup\endR\egroup\fi
3943 \egroup $\if@RTLtab\endR\fi\egroup
3944 \ifx\@captive\@undefined
3945 \global\@bidi@p@ftn\expandafter{\expandafter}\the\@bidi@p@ftn\fi}
3946 \long\def\@bidi@p@ftntext#1{%
3947 \edef\@tempy{\the\@bidi@p@ftn\noexpand\footnotetext[\the\csname c@\@mpfn\endcsname]}}%
3948 \global\@bidi@p@ftn\expandafter{\@tempy{#1}}}%
3949 \long\def\@bidi@p@LTRftntext#1{%
3950 \edef\@tempyi{\the\@bidi@p@ftn\noexpand\LTRfootnotetext[\the\csname c@\@mpfn\endcsname]}}%
3951 \global\@bidi@p@ftn\expandafter{\@tempyi{#1}}}%
3952 \long\def\@bidi@p@RTLftntext#1{%
3953 \edef\@tempyii{\the\@bidi@p@ftn\noexpand\RTLfootnotetext[\the\csname c@\@mpfn\endcsname]}}%
3954 \global\@bidi@p@ftn\expandafter{\@tempyii{#1}}}%
3955
3956
3957 \long\def\@bidi@p@xftntext[#1]#2{%
3958 \global\@bidi@p@ftn\expandafter{\the\@bidi@p@ftn\footnotetext[#1]{#2}}}
3959
3960 \long\def\@bidi@p@xLTRftntext[#1]#2{%
3961 \global\@bidi@p@ftn\expandafter{\the\@bidi@p@ftn\LTRfootnotetext[#1]{#2}}}
3962
3963 \long\def\@bidi@p@xRTLftntext[#1]#2{%
3964 \global\@bidi@p@ftn\expandafter{\the\@bidi@p@ftn\RTLfootnotetext[#1]{#2}}}
3965
3966
3967 \def\@bidi@p@xfootnote[#1]{%
3968 \begingroup
3969 \csname c@\@mpfn\endcsname #1\relax
3970 \unrestored@protected@xdef\@thefnmark{\thempfn}%
3971 \endgroup
3972 \@footnotemark\@bidi@p@xftntext[#1]}
3973
3974
3975 \def\@bidi@p@xLTRfootnote[#1]{%
3976 \begingroup
3977 \csname c@\@mpfn\endcsname #1\relax
3978 \unrestored@protected@xdef\@thefnmark{\thempfn}%
3979 \endgroup
3980 \@footnotemark\@bidi@p@xLTRftntext[#1]}
3981
3982
3983 \def\@bidi@p@xRTLfootnote[#1]{%
3984 \begingroup
3985 \csname c@\@mpfn\endcsname #1\relax

```





```

3986     \unrestored@protected@xdef\@thefnmark{\thempfn}%
3987 \endgroup
3988 \@footnotemark\@bidi@p@xRTLftntext[#1]}
3989
3990 \def\@xfloat #1[#2]{%
3991   \@nodocument
3992   \def \@captype {#1}%
3993   \def \@fps {#2}%
3994   \@onelevel@sanitize \@fps
3995   \def \reserved@a {!}%
3996   \ifx \reserved@a \@fps
3997     \@fpsadddefault
3998   \else
3999     \ifx \@fps \@empty
4000       \@fpsadddefault
4001     \fi
4002   \fi
4003   \ifhmode
4004     \@bsphack
4005     \@floatpenalty -\@Mii
4006   \else
4007     \@floatpenalty-\@Miii
4008   \fi
4009   \ifinner
4010     \@parmoderr\@floatpenalty\z@
4011   \else
4012     \@next\@currbox\@freelist
4013     {%
4014       \@tempcnta \sixt@@n
4015       \expandafter \@tfor \expandafter \reserved@a
4016         \expandafter :\expandafter =\@fps
4017       \do
4018       {%
4019         \if \reserved@a h%
4020           \ifodd \@tempcnta
4021             \else
4022               \advance \@tempcnta \@ne
4023             \fi
4024           \fi
4025         \if \reserved@a t%
4026           \setfpsbit \tw@
4027         \fi
4028         \if \reserved@a b%
4029           \setfpsbit 4%
4030         \fi
4031         \if \reserved@a p%
4032           \setfpsbit 8%
4033         \fi
4034         \if \reserved@a !%
4035           \ifnum \@tempcnta>15
4036             \advance\@tempcnta -\sixt@@n\relax
4037           \fi
4038         \fi
4039       }%

```



```

4040      \@tempcntb \csname ftype@\@capttype \endcsname
4041      \multiply \@tempcntb \@xxxii
4042      \advance \@tempcnta \@tempcntb
4043      \global \count\@currbox \@tempcnta
4044      }%
4045      \@fltovf
4046      \fi
4047      \global \setbox\@currbox
4048      \color@vbox
4049      \normalcolor
4050      \vbox \bgroup
4051      \let\@footnotetext\bidip@fnttext
4052      \let\@LTRfootnotetext\bidip@LTRfnttext
4053      \let\@RTLfootnotetext\bidip@RTLfnttext
4054      \let\@xfootnotenext\bidip@xftntext
4055      \let\@xfootnote\bidip@xfootnote
4056      \let\@xLTRfootnotenext\bidip@xLTRfnttext
4057      \let\@xLTRfootnote\bidip@xLTRfootnote
4058      \let\@xRTLfootnotenext\bidip@xRTLfnttext
4059      \let\@xRTLfootnote\bidip@xRTLfootnote
4060      \hsize\columnwidth
4061      \@parboxrestore
4062      \@floatboxreset
4063      }
4064      \def \@endfloatbox{%
4065          \par\vskip\z@skip      %% \par\vskip\z@ added 15 Dec 87
4066          \@minipagefalse
4067          \outer@nobreak
4068          \egroup                %% end of vbox
4069          \global\bidip@fnt\expandafter{\expandafter}\the\bidip@fnt
4070          \color@endbox
4071      }

```

## 42 File bidimoderncv.cls

```

4072 \NeedsTeXFormat{LaTeX2e}
4073 \ProvidesClass{bidimoderncv}
4074 \newif\if@DEBUG\@DEBUGfalse
4075 \DeclareOption{a4paper}{
4076     \setlength\paperheight{297mm}
4077     \setlength\paperwidth{210mm}}
4078 \DeclareOption{a5paper}{
4079     \setlength\paperheight{210mm}
4080     \setlength\paperwidth{148mm}}
4081 \DeclareOption{b5paper}{
4082     \setlength\paperheight{250mm}
4083     \setlength\paperwidth{176mm}}
4084 \DeclareOption{letterpaper}{
4085     \setlength\paperheight{11in}
4086     \setlength\paperwidth{8.5in}}
4087 \DeclareOption{legalpaper}{
4088     \setlength\paperheight{14in}
4089     \setlength\paperwidth{8.5in}}
4090 \DeclareOption{executivepaper}{

```



```

4091 \setlength\paperheight{10.5in}
4092 \setlength\paperwidth{7.25in}}
4093 \DeclareOption{landscape}{
4094   \setlength\@tempdima{\paperheight}
4095   \setlength\paperheight{\paperwidth}
4096   \setlength\paperwidth{\@tempdima}
4097 \newcommand\@ptsize{}
4098 \DeclareOption{10pt}{\renewcommand\@ptsize{0}}
4099 \DeclareOption{11pt}{\renewcommand\@ptsize{1}}
4100 \DeclareOption{12pt}{\renewcommand\@ptsize{2}}
4101 \DeclareOption{draft}{\setlength\overfullrule{5pt}}
4102 \DeclareOption{final}{\setlength\overfullrule{0pt}}
4103 \newif\if@colour\@colourtrue
4104 \DeclareOption{nocolour}{\@colourfalse}
4105 \ExecuteOptions{a4paper,11pt,colour,final}
4106 \ProcessOptions\relax
4107 \input{size1\@ptsize.clo}
4108 \RequirePackage{color}
4109 \RequirePackage{graphicx}
4110 \RequirePackage{ifthen}
4111 \RequirePackage{marvosym}
4112 \addtolength{\oddsidemargin}{-54pt}
4113 \addtolength{\textwidth}{109pt}
4114 \addtolength{\topmargin}{-70pt}
4115 \addtolength{\textheight}{122pt}
4116 \addtolength{\marginparsep}{-5pt}
4117 \addtolength{\marginparwidth}{-10pt}
4118 \RequirePackage{url}
4119 \RequirePackage{hyperref}
4120 \hypersetup{%
4121   breaklinks,
4122   baseurl      = http://,%
4123   pdfborder    = 0 0 0,%
4124   pdfpagemode  = UseNone,%
4125   pdfstartpage = 1}
4126 \AtEndOfClass{%
4127   \AtBeginDocument{%
4128     \hypersetup{%
4129       pdfauthor    = \@firstname~\@familyname,%
4130       pdftitle     = \@title,%
4131       pdfsubject   = \@firstname~\@familyname,%
4132       pdfkeywords  = \@resumename~\@firstname~\@familyname}}}}
4133 \urlstyle{tt}
4134 \RequirePackage{fancyhdr}
4135 \fancypagestyle{plain}{%
4136   \renewcommand{\headrulewidth}{0pt}
4137   \renewcommand{\footrulewidth}{0pt}
4138   \fancyhf{}}
4139 \pagestyle{plain}
4140 \setlength\lineskip{1\p@}
4141 \setlength\normallineskip{1\p@}
4142 \renewcommand\baselinestretch{}
4143 \setlength{\parindent}{0pt}
4144 \setlength{\parskip}{0pt}

```



```

4145 \setlength\columnsep{10\p@}
4146 \setlength\columnseprule{0\p@}
4147 \pagestyle{empty}
4148 \pagenumbering{arabic}
4149 \raggedbottom
4150 \onecolumn
4151 \providecommand*\listitemsymbol{\textbullet}
4152 \providecommand*\addresssymbol{}
4153 \providecommand*\mobilesymbol{\Mobilefone}
4154 \providecommand*\phonesymbol{\Telefon}
4155 \providecommand*\faxsymbol{\FAX}
4156 \providecommand*\emailsymbol{\Letter}
4157 \definecolor{firstnamecolour}{rgb}{0,0,0}
4158 \def\firstnamecolour#1{\gdef\@firstnamecolour{\addfontfeature{Color=#1}}}
4159 \def\familynamecolour#1{\gdef\@familynamecolour{\addfontfeature{Color=#1}}}
4160 \def\titlecolour#1{\gdef\@titlecolour{\addfontfeature{Color=#1}}}
4161 \def\addresscolour#1{\gdef\@addresscolour{\addfontfeature{Color=#1}}}
4162 \def\quotecolour#1{\gdef\@quotecolour{\addfontfeature{Color=#1}}}
4163 \def\sectiontitlecolour#1{\gdef\@sectiontitlecolour{\addfontfeature{Color=#1}}}
4164 \definecolor{sectionrectanglecolor}{rgb}{0,0,0}
4165 \def\subsectioncolour#1{\gdef\@subsectioncolour{\addfontfeature{Color=#1}}}
4166 \def\hintcolour#1{\gdef\@hintcolour{\addfontfeature{Color=#1}}}
4167 \providecommand*\firstnamefont{}
4168 \providecommand*\familynamefont{}
4169 \providecommand*\titlefont{}
4170 \providecommand*\addressfont{}
4171 \providecommand*\quotefont{}
4172 \providecommand*\sectionfont{}
4173 \providecommand*\subsectionfont{}
4174 \providecommand*\hintfont{\small}
4175 \providecommand*\firstnamestyle[1]{\{\@firstnamefont\@firstnamecolour#1\}}
4176 \providecommand*\familynamestyle[1]{\{\@familynamefont\@familynamecolour#1\}}
4177 \providecommand*\titlestyle[1]{\{\@titlefont\@titlecolour#1\}}
4178 \providecommand*\addresstyle[1]{\{\@addressfont\@addresscolour#1\}}
4179 \providecommand*\quotestyle[1]{\{\@quotefont\@quotecolour#1\}}
4180 \providecommand*\sectionstyle[1]{\{\@sectionfont\@sectiontitlecolour#1\}}
4181 \providecommand*\subsectionstyle[1]{\{\@subsectionfont\@subsectioncolour#1\}}
4182 \providecommand*\hintstyle[1]{\{\@hintfont\@hintcolour#1\}}
4183 \newcommand*\cvtheme[2][]{
4184   \def\@cvtheme{#2}
4185   \def\@cvthemeoptions{#1}}
4186 \cvtheme{bidi-casual}
4187 \AtBeginDocument{\RequirePackage[\@cvthemeoptions]{cvtheme\cvtheme}}
4188 \newcommand*\resumename[1]{\def\@resumename{#1}}
4189 \newcommand*\firstname[1]{\def\@firstname{#1}}
4190 \newcommand*\familyname[1]{\def\@familyname{#1}}
4191 \renewcommand*\title[1]{\def\@title{#1}}
4192 \newcommand*\address[1]{\def\@address{#1}}
4193 \newcommand*\mobile[1]{\def\@mobile{#1}}
4194 \newcommand*\phone[1]{\def\@phone{#1}}
4195 \renewcommand*\fax[1]{\def\@fax{#1}}
4196 \newcommand*\email[1]{\def\@email{#1}}
4197 \newcommand*\extrainfo[1]{\def\@extrainfo{#1}}
4198 \def\@photowidth{0pt}

```



```

4199 \newcommand*{\photo}[2][64pt]{\def\@photowidth{#1}\def\@photo{#2}}
4200 \newcommand*{\quote}[1]{\def\@quote{#1}}
4201 \newlength{\quotewidth}
4202 \newlength{\hintscolumnwidth}
4203 \newlength{\separatorcolumnwidth}
4204 \setlength{\separatorcolumnwidth}{0.025\textwidth}
4205 \newlength{\maincolumnwidth}
4206 \newlength{\doubleitemmaincolumnwidth}
4207 \newlength{\listitemsymbolwidth}
4208 \settowidth{\listitemsymbolwidth}{\listitemsymbol{}}~}
4209 \newlength{\listitemmaincolumnwidth}
4210 \newlength{\listdoubleitemmaincolumnwidth}
4211 \newcommand*{\recomputethemelengths}{}
4212 \newcommand*{\recomputelengths}{%
4213 \setlength{\quotewidth}{0.65\textwidth}%
4214 \setlength{\maincolumnwidth}{\textwidth}%
4215 \addtolength{\maincolumnwidth}{-\separatorcolumnwidth}%
4216 \addtolength{\maincolumnwidth}{-\hintscolumnwidth}%
4217 \setlength{\listitemmaincolumnwidth}{\maincolumnwidth}%
4218 \addtolength{\listitemmaincolumnwidth}{-\listitemsymbolwidth}%
4219 \setlength{\doubleitemmaincolumnwidth}{\maincolumnwidth}%
4220 \addtolength{\doubleitemmaincolumnwidth}{-\hintscolumnwidth}%
4221 \addtolength{\doubleitemmaincolumnwidth}{-\separatorcolumnwidth}%
4222 \setlength{\doubleitemmaincolumnwidth}{0.5\doubleitemmaincolumnwidth}%
4223 \setlength{\listdoubleitemmaincolumnwidth}{\maincolumnwidth}%
4224 \addtolength{\listdoubleitemmaincolumnwidth}{-\listitemsymbolwidth}%
4225 \setlength{\listdoubleitemmaincolumnwidth}{0.475\listdoubleitemmaincolumnwidth}%
4226 \renewcommand{\headwidth}{\textwidth}%
4227 \recomputethemelengths}
4228 \setlength{\hintscolumnwidth}{0.15\textwidth}
4229 \recomputelengths
4230 \title{}
4231 \renewcommand*{\maketitle}{}
4232 \newcommand*{\section}[1]{%
4233 \vspace*{2.5ex \@plus 1ex \@minus .2ex}%
4234 \phantomsection}%
4235 \addcontentsline{toc}{part}{#1}%
4236 \parbox[m]{\hintscolumnwidth}{\bidi@raggedleft\hintfont{\leavevmode\color{sectionrectangle}
4237 \hspace{\separatorcolumnwidth}}%
4238 \parbox[m]{\maincolumnwidth}{\sectionstyle{#1}}\}[1ex]}
4239 \newcommand*{\subsection}[1]{%
4240 \cvline[0.45em]{\subsectionstyle{#1}}}%
4241 \newcommand*{\cvline}[3][.25em]{%
4242 \begin{tabular}{@{}p{\hintscolumnwidth}@{\hspace{\separatorcolumnwidth}}p{\maincolumnwidth}
4243 \bidi@raggedleft\hintfont{#2} &{#3}}%
4244 \end{tabular}}\}[#1]}
4245 \newcommand*{\cdoubleitem}[4]{%
4246 \cvline{#1}{\begin{minipage}[t]{\doubleitemmaincolumnwidth}#2\end{minipage}}%
4247 \hfill%
4248 \begin{minipage}[t]{\hintscolumnwidth}\bidi@raggedleft\hintfont{#3}\end{minipage}\hspace*{
4249 \newcommand*{\cvlistitem}[2][\listitemsymbol]{%
4250 \cvline[0pt]{\begin{minipage}[t]{\listitemmaincolumnwidth}#2\end{minipage}}}%
4251 \newcommand*{\cvlistdoubleitem}[3][\listitemsymbol]{%
4252 \cvline[0pt]{\begin{minipage}[t]{\listdoubleitemmaincolumnwidth}#2\end{minipage}}%

```



```

4253 \hfill%
4254 \ifthenelse{\equal{#3}{}}%
4255 {}%
4256 {#1~\begin{minipage}[t]{\listdoubleitemmaincolumnwidth}#3\end{minipage}}}%
4257 \newcommand*{\cventry}[6]{%
4258 \cvline{#1}{%
4259 {\bfseries#2}%
4260 \ifx#3\else{, {\slshape#3}}\fi%
4261 \ifx#4\else{, #4}\fi%
4262 \ifx#5\else{, #5}\fi%
4263 .%
4264 \ifx#6\else{\newline{}\begin{minipage}[t]{\linewidth}\small#6\end{minipage}}\fi
4265 }%
4266 \newcommand*{\cvlanguage}[3]{%
4267 \cvline{#1}{\begin{minipage}[t]{.225\maincolumnwidth}\textbf{#2}\end{minipage}\hfill\begin{minipage}[t]{.775\maincolumnwidth}\textbf{#3}\end{minipage}}}%
4268 \newcommand*{\cvcomputer}[4]{%
4269 \cdoubleitem{#1}{\small#2}{#3}{\small#4}}%
4270 \newcommand*{\link}[2][]{%
4271 \ifthenelse{\equal{#1}{}}%
4272 {\href{#2}{#2}}%
4273 {\href{#2}{#1}}}%
4274 \newcommand*{\httplink}[2][]{%
4275 \ifthenelse{\equal{#1}{}}%
4276 {\href{http://#2}{#2}}%
4277 {\href{http://#2}{#1}}}%
4278 \newcommand*{\emailink}[2][]{%
4279 \ifthenelse{\equal{#1}{}}%
4280 {\href{mailto:#2}{#2}}%
4281 {\href{mailto:#2}{#1}}}%
4282 \newif\if@displaypagenumbers\@displaypagenumberstrue
4283 \newcommand*{\nopagenumbers}{\@displaypagenumbersfalse}
4284 \AtBeginDocument{%
4285 \if@displaypagenumbers%
4286 \ifundefined{r@lastpage}{}%
4287 \ifthenelse{\pageref{lastpage} > 1}{%
4288 \fancypagestyle{plain}{%
4289 \fancyfoot[r]{\beginL\addressfont\@quotecolour\footnotesize\thepage\beginL/\endL\pageref{lastpage}}%
4290 \pagestyle{plain}}}%
4291 \AtEndDocument{\label{lastpage}}%
4292 \fi}
4293 \newlength{\bibindent}
4294 \setlength{\bibindent}{1.5em}
4295 \newcommand*{\bibliographyitemlabel}{\includegraphics{bidi-bibitem.pdf}}
4296 \newenvironment{thebibliography}[1]{%
4297 {%
4298 \section{\refname}%
4299 \small%
4300 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
4301 \bidi@thebibliography@font@hook%
4302 \begin{list}{\bibliographyitemlabel}%
4303 {%
4304 \setlength{\topsep}{0pt}%
4305 \setlength{\labelwidth}{\hintscolumnwidth}%
4306 \setlength{\labelsep}{\separatorcolumnwidth}%

```



```

4307      \leftmargin\labelwidth%
4308      \advance\leftmargin\labelsep%
4309      \@openbib@code%
4310      \usecounter{enumiv}%
4311      \let\p@enumiv\@empty%
4312      \renewcommand\theenumiv{\@arabic\c@enumiv}}%
4313      \sloppy\clubpenalty4000\widowpenalty4000%
4314  }%
4315  {%
4316      \def\@noitemerr{\@latex@warning{Empty `thebibliography' environment}}%
4317      \end{list}%
4318  }
4319 \newcommand\newblock{\hskip .11em\@plus.33em\@minus.07em}
4320 \let\@openbib@code\@empty

```

### 43 File bidi-perpage.sty

```

4321 \NeedsTeXFormat{LaTeX2e}
4322 \ProvidesPackage{bidi-perpage}[2018/10/04 v0.4 Reset counter(s) on every page]
4323 \newcount\bidi@page@count
4324 \bidi@page@count\@ne
4325 \newcommand*{\ResetCounterPerPage}[2][\z@]{%
4326   \if@bidi@csundef\bidi@stepcounterhook@@#2}{%
4327     \expandafter\gdef\csname bidi@stepcounterhook@@#2\endcsname{%
4328   }}%
4329   \if@bidi@csundef\if@bidi@reset@#2@rerun}{%
4330     \expandafter\newif\csname if@bidi@reset@#2@rerun\endcsname
4331   }}%
4332   \if@bidi@csundef\bidi@#2@count}{%
4333     \expandafter\newcount\csname bidi@#2@count\endcsname
4334   }}%
4335   \csname bidi@#2@count\endcsname\z@
4336   \if@bidi@csundef\bidi@previous@page@@#2@count}{%
4337     \expandafter\newcount\csname
4338       bidi@previous@page@@#2@count\endcsname
4339   }}%
4340   \csname bidi@previous@page@@#2@count\endcsname\z@
4341   \if@bidi@csundef\bidi@reset@#2@perpage}{%
4342     \bidi@AfterEndDocumentCheckLabelsRerun{%
4343       \csname if@bidi@reset@#2@rerun\endcsname
4344       \PackageWarningNoLine{bidi-perpage}{%
4345         Counter `#2' may not have been reset per page.
4346         Rerun to reset counter `#2' per page%
4347       }}%
4348     \fi
4349   }%
4350 }{}%
4351 \expandafter\gdef\csname bidi@reset@#2@perpage\endcsname{%
4352   \global\advance\csname bidi@#2@count\endcsname\@ne
4353   \if@filesw
4354     \edef\@tempa{%
4355       \write\@auxout{%
4356         \string\bidi@counter@page{#2}%
4357         {\number\csname bidi@#2@count\endcsname}%

```



```

4358         {\noexpand\number\noexpand\bidipage@count}%
4359     }%
4360 }%
4361 \@tempa
4362 \fi
4363 \begingroup\expandafter\expandafter\expandafter\endgroup
4364 \expandafter\ifx\csname bidi@#2@@\number\csname
4365 bidi@#2@count\endcsname\endcsname\relax
4366 \global\csname @bidi@reset@#2@reruntrue\endcsname
4367 \else
4368 \global\csname @bidi@reset@#2@rerunfalse\endcsname
4369 \expandafter\@tempcnta\csname bidi@#2@@\number
4370 \csname bidi@#2@count\endcsname\endcsname\relax
4371 \ifnum\@tempcnta=\csname
4372 bidi@previous@page@@#2@count\endcsname
4373 \else
4374 \global\csname
4375 bidi@previous@page@@#2@count\endcsname\@tempcnta
4376 \global\csname c@#2\endcsname#1\relax
4377 \fi
4378 \fi
4379 }%
4380 \expandafter\bidigappto\csname
4381 bidi@stepcounterhook@@#2\endcsname{%
4382 \csname bidi@reset@#2@perpage\endcsname
4383 }%
4384 }
4385 \def\bidicounter@page#1#2#3{\bidi@namegdef{bidi@#1@@#2}{#3}}
4386 \bidi@AtEndOutputPage{%
4387 \global\advance\bidipage@count\@ne
4388 }

```

## 44 File biditools.sty

```

4389 \NeedsTeXFormat{LaTeX2e}
4390 \ProvidesPackage{biditools}[2022/06/06 v2.2 Programming tools for bidi package]
4391 \providecommand{\@bidi@saveprimitive}[2]{\begingroup\escapechar`\\relax
4392 \edef\@tempa{\string#1}\edef\@tempb{\meaning#1}%
4393 \ifx\@tempa\@tempb \global\let#2#1%
4394 \else
4395 \edef\@tempb{\meaning#2}%
4396 \ifx\@tempa\@tempb
4397 \else
4398 \@latex@error{Unable to properly define \string#2; primitive
4399 \noexpand#1no longer primitive}\@eha
4400 \fi
4401 \fi
4402 \endgroup}
4403 \newtoks\@bidi@envbody
4404 \newtoks\@bidi@emptytoks
4405 \def\bidicollect@body#1{\global\@bidi@envbody\expandafter{\the\@bidi@envbody#1}}
4406 \def\bidicollect@body#1{%
4407 \@bidi@envbody{\expandafter#1\expandafter{\the\@bidi@envbody}}%
4408 \edef\bidiprocess@envbody{\the\@bidi@envbody\noexpand\end{\@currenvir}}%

```





```

4409 \@bidi@envbody\@bidi@emptytoks \def\begin@bidi@stack{b}%
4410 \begingroup
4411 \expandafter\let\csname\@currentvir\endcsname\bidi@collect@@body
4412 \edef\bidi@process@envbody{\expandafter\noexpand\csname\@currentvir\endcsname}%
4413 \bidi@process@envbody
4414 }
4415 \def\bidi@push@begins#1\begin#2{%
4416 \ifx\end#2\else b\expandafter\bidi@push@begins\fi
4417 }
4418 \def\bidi@collect@@body#1\end#2{%
4419 \edef\begin@bidi@stack{\bidi@push@begins#1\begin\end \expandafter\@gobble\begin@bidi@stack}
4420 \ifx\@empty\begin@bidi@stack
4421 \endgroup
4422 \@checkend{#2}%
4423 \bidi@addto@envbody{#1}%
4424 \else
4425 \bidi@addto@envbody{#1\end{#2}}%
4426 \fi
4427 \bidi@process@envbody % A little tricky! Note the grouping
4428 }
4429 \long\def\bidi@addto@long@envbody#1{\global\@bidi@envbody\expandafter{\the\@bidi@envbody#1}}
4430 \long\def\bidi@collect@long@body#1{%
4431 \@bidi@envbody{\expandafter#1\expandafter{\the\@bidi@envbody}}%
4432 \edef\bidi@process@envbody{\the\@bidi@envbody\noexpand\end{\@currentvir}}%
4433 \@bidi@envbody\@bidi@emptytoks \def\begin@bidi@stack{b}%
4434 \begingroup
4435 \expandafter\let\csname\@currentvir\endcsname\bidi@collect@long@@body
4436 \edef\bidi@process@envbody{\expandafter\noexpand\csname\@currentvir\endcsname}%
4437 \bidi@process@envbody
4438 }
4439 \long\def\bidi@push@long@begins#1\begin#2{%
4440 \ifx\end#2\else b\expandafter\bidi@push@long@begins\fi
4441 }
4442 \long\def\bidi@collect@long@@body#1\end#2{%
4443 \edef\begin@bidi@stack{\bidi@push@long@begins#1\begin\end \expandafter\@gobble\begin@bidi@stack}
4444 \ifx\@empty\begin@bidi@stack
4445 \endgroup
4446 \@checkend{#2}%
4447 \bidi@addto@long@envbody{#1}%
4448 \else
4449 \bidi@addto@long@envbody{#1\end{#2}}%
4450 \fi
4451 \bidi@process@envbody % A little tricky! Note the grouping
4452 }
4453 \long\def\bidi@new@ifnextchar#1#2#3{%
4454 \let\reserved@d= #1%
4455 \def\reserved@a{#2}\def\reserved@b{#3}%
4456 \futurelet\@let@token\bidi@new@ifnch
4457 }
4458 \def\bidi@new@ifnch{%
4459 \ifx\@let@token\reserved@d \let\reserved@b\reserved@a \fi
4460 \reserved@b
4461 }
4462 \def\bidi@matrix@check#1{%

```



```

4463 \expandafter\ifx\csname\@currentvir\endcsname#1%
4464 \else\bidimatrix@error#1%
4465 \expandafter@gobble
4466 \fi
4467 }
4468 \def\bidimatrix@error#1{%
4469 \PackageError{biditools}{%
4470 Old form '\string#1' should be \string\begin{\expandafter@gobble\string#1}%
4471 }{%
4472 '\string#1{...}' is old bidi package syntax whose use is
4473 ill-advised in the old versions of bidi package.%
4474 }%
4475 }
4476 \def\@tagsextension{clo}
4477 \def\@definitionfileextension{def}
4478 \def\@texfileextension{tex}
4479 \def\@iftagsloaded{\@ifl@aded\@tagsextension}
4480 \def\@ifdefinitionfileloaded{\@ifl@aded\@definitionfileextension}
4481 \def\@iftexfileloaded{\@ifl@aded\@texfileextension}
4482 \def\eqnewif#1#2{%
4483 \count@ \escapechar \escapechar \m@ne
4484 \let#1\iffalse
4485 \let#2\iffalse
4486 \eq@if#1#2\iftrue
4487 \eq@if#1#2\iffalse
4488 \escapechar \count@}
4489 \def\eq@if#1#2#3{%
4490 \expandafter\def\csname\expandafter@gobbletwo\string#1%
4491 \expandafter@gobbletwo\string#3\endcsname
4492 {\let#1#3%
4493 \let#2#3}%
4494 \expandafter\def\csname\expandafter@gobbletwo\string#2%
4495 \expandafter@gobbletwo\string#3\endcsname
4496 {\let#2#3%
4497 \let#1#3}}
4498 \newcommand*\@SetBoolean}[2]{%
4499 \lowercase{\def\@tempa{#2}}%
4500 \@ifundefined{\@tempswa\@tempa}%
4501 {\PackageError{biditools}%
4502 {You can only set a boolean to 'true' or 'false'}\@ehc}%
4503 {\@ifundefined{#1\@tempa}%
4504 {\PackageError{biditools}{Boolean #1 undefined}\@ehc}%
4505 {\csname#1\@tempa\endcsname}}}
4506 \newcommand*\@GlobalSetBoolean}[2]{%
4507 \lowercase{\def\@tempa{#2}}%
4508 \@ifundefined{\@tempswa\@tempa}%
4509 {\PackageError{biditools}%
4510 {You can only set a boolean to 'true' or 'false'}\@ehc}%
4511 {\@ifundefined{#1\@tempa}%
4512 {\PackageError{biditools}{Boolean #1 undefined}\@ehc}%
4513 {\global\csname#1\@tempa\endcsname}}}
4514 \newcommand*\@SetatBoolean}[2]{%
4515 \lowercase{\def\@tempa{#2}}%
4516 \@ifundefined{\@tempswa\@tempa}%

```



```

4517 {\PackageError{biditools}%
4518 {You can only set a boolean to `true' or `false'}\@ehc}%
4519 {\@ifundefined{@#1\@tempa}%
4520 {\PackageError{biditools}{Boolean @#1 undefined}\@ehc}%
4521 {\csname @#1\@tempa\endcsname}}}
4522 \newcommand*{\GlobalSetatBoolean}[2]{%
4523 \lowercase{\def\@tempa{#2}}%
4524 \@ifundefined{@tempwa\@tempa}%
4525 {\PackageError{biditools}%
4526 {You can only set a boolean to `true' or `false'}\@ehc}%
4527 {\@ifundefined{@#1\@tempa}%
4528 {\PackageError{biditools}{Boolean @#1 undefined}\@ehc}%
4529 {\global\csname @#1\@tempa\endcsname}}}
4530 \def\@bidi@removefromreset#1#2{%
4531 \expandafter\let\csname c@#1\endcsname\@bidi@removefromreset
4532 \def\@elt##1{%
4533 \expandafter\ifx\csname c@##1\endcsname\@bidi@removefromreset
4534 \else
4535 \noexpand\@elt{##1}%
4536 \fi}%
4537 \expandafter\xdef\csname c1@#2\endcsname{%
4538 \csname c1@#2\endcsname}}}
4539 \newcommand*{\ifRtoL}{%
4540 \if@RTL
4541 \expandafter\@firstoftwo
4542 \else
4543 \expandafter\@secondoftwo
4544 \fi}
4545 \newcommand*{\ifLtoR}{%
4546 \if@RTL
4547 \expandafter\@secondoftwo
4548 \else
4549 \expandafter\@firstoftwo
4550 \fi}
4551 \newcommand*{\ifRtoLtable}{%
4552 \if@RTLtab
4553 \expandafter\@firstoftwo
4554 \else
4555 \expandafter\@secondoftwo
4556 \fi}
4557 \newcommand*{\ifLtoRtable}{%
4558 \if@RTLtab
4559 \expandafter\@secondoftwo
4560 \else
4561 \expandafter\@firstoftwo
4562 \fi}
4563 \newcommand*{\ifRtoLhboxconstruct}{%
4564 \if@hboxRconstruct
4565 \expandafter\@firstoftwo
4566 \else
4567 \expandafter\@secondoftwo
4568 \fi}
4569 \newcommand*{\ifLtoRhboxconstruct}{%
4570 \if@hboxRconstruct

```



```

4571 \expandafter\@secondoftwo
4572 \else
4573 \expandafter\@firstoftwo
4574 \fi}
4575 \newcommand*\iflatin}{%
4576 \if@nonlatin
4577 \expandafter\@secondoftwo
4578 \else
4579 \expandafter\@firstoftwo
4580 \fi}
4581 \newcommand*\ifnonlatin}{%
4582 \if@nonlatin
4583 \expandafter\@firstoftwo
4584 \else
4585 \expandafter\@secondoftwo
4586 \fi}
4587
4588 \newcommand*\@bidi@@convert@dimen@t@unit}[2]{%
4589 \strip@pt\dimexpr #1*65536/\dimexpr 1#2\relax #2}
4590
4591 \newcommand*\@bidi@@convert@dimen@t@pt}[1]{%
4592 \dimexpr #1*65536/\dimexpr 1pt\relax}
4593
4594 \newcommand*\if@bidi@csdef}[1]{%
4595 \ifcsname#1\endcsname
4596 \expandafter\@firstoftwo
4597 \else
4598 \expandafter\@secondoftwo
4599 \fi}
4600 \newcommand*\if@bidi@csundef}[1]{%
4601 \ifcsname#1\endcsname
4602 \expandafter\ifx\csname#1\endcsname\relax
4603 \expandafter\expandafter
4604 \expandafter\@firstoftwo
4605 \else
4606 \expandafter\expandafter
4607 \expandafter\@secondoftwo
4608 \fi
4609 \else
4610 \expandafter\@firstoftwo
4611 \fi}
4612 \newcommand*\if@bidi@def}[1]{%
4613 \ifdefined#1%
4614 \expandafter\@firstoftwo
4615 \else
4616 \expandafter\@secondoftwo
4617 \fi}
4618 \newcommand*\if@bidi@undef}[1]{%
4619 \ifdefined#1%
4620 \ifx#1\relax
4621 \expandafter\expandafter
4622 \expandafter\@firstoftwo
4623 \else
4624 \expandafter\expandafter

```



```

4625     \expandafter\@secondoftwo
4626     \fi
4627   \else
4628     \expandafter\@firstoftwo
4629   \fi}
4630 \newcommand{\if@bidi@blank}[1]{% from url.sty
4631   \bidi@ifblank@i#1&&\@secondoftwo\@firstoftwo:}
4632 \long\def\bidi@ifblank@i#1#2&#3#4#5:{#4}
4633 \newcommand{\bidi@notblank}[1]{%
4634   \bidi@ifblank@i#1&&\@firstoftwo\@secondoftwo:}
4635 \newcommand{\if@bidi@defmacro}{%
4636   \long\edef\if@bidi@defmacro#1{%
4637     \noexpand\expandafter\noexpand\bidi@ifdefmacro
4638     \noexpand\meaning#1\detokenize{macro}:&}
4639   \edef\bidi@ifdefmacro{%
4640     \def\noexpand\bidi@ifdefmacro##1\detokenize{macro}:##2&
4641     \bidi@ifdefmacro{\bidi@notblank{#2}}
4642   \newcommand*{\if@bidi@csmacro}[1]{%
4643     \if@bidi@csdef{#1}
4644     {\expandafter\if@bidi@defmacro\csname#1\endcsname}
4645     {\@secondoftwo}}
4646   \newcommand{\if@bidi@defprimitive}[1]{%
4647     \ifprimitive#1%
4648     \expandafter\@firstoftwo
4649   \else
4650     \expandafter\@secondoftwo
4651   \fi}
4652 \newcommand{\if@bidi@csprimitive}[1]{%
4653   \begingroup\expandafter\expandafter\expandafter\endgroup%
4654   \expandafter\ifprimitive\csname#1\endcsname%
4655   \expandafter\@firstoftwo
4656   \else
4657     \expandafter\@secondoftwo
4658   \fi}
4659 \newcommand*{\bidi@csdefcs}[2]{%
4660   \expandafter\@ifdefinable \csname#1\endcsname{%
4661     \expandafter\def\csname#1\expandafter\endcsname{\csname#2\endcsname}}
4662 \newcommand*{\bidi@csletcs}[2]{%
4663   \expandafter\@ifdefinable \csname#1\endcsname{%
4664     \expandafter\let\csname#1\expandafter\endcsname\csname#2\endcsname}
4665 \newcommand*{\bidi@cslet}[2]{%
4666   \expandafter\@ifdefinable \csname#1\endcsname{%
4667     \expandafter\let\csname#1\endcsname#2}}
4668 \newcommand{\bidi@namelongdef}[1]{%
4669   \long\expandafter\def\csname #1\endcsname}
4670 \newcommand{\bidi@namelonggdef}[1]{%
4671   \long\expandafter\gdef\csname #1\endcsname}
4672 \newcommand{\bidi@namelongedef}[1]{%
4673   \long\expandafter\edef\csname #1\endcsname}
4674 \newcommand{\bidi@namelongxdef}[1]{%
4675   \long\expandafter\xdef\csname #1\endcsname}
4676 \def\bidi@ensure@newcommand{\@star@or@long\bidi@ensure@new@command}
4677 \def\bidi@ensure@new@command#1{%
4678   \begingroup \escapechar\m@ne\xdef\@gtempa{\string#1}\endgroup

```



```

4679 \expandafter\if@bidi@csundef\@gtempa
4680     {\newcommand#1}{\relax%
4681 \let\@ifdefinable\@rc@ifdefinable%
4682 \newcommand#1}}
4683 \def\bidi@ensure@newlength#1{\if@bidi@undef#1{\newskip#1}{}}
4684
4685 \protected\def\bidi@error{\PackageError{bidi}}
4686 \protected\def\bidi@warning{\PackageWarning{bidi}}
4687 \protected\def\bidi@info{\PackageInfo{bidi}}
4688
4689 \def\bidi@pos#1#2#3#4{\bidi@namegdef\bidi@#1pos@@#2@#3}{#4}}
4690
4691 \newcount\bidi@poscount
4692
4693 \newcommand*{\WriteStartXPostoaux}{%
4694 \global\advance\bidi@poscount\@ne
4695 \edef\@tempa{%
4696 \write\@auxout{%
4697 \string\bidi@pos{x}{start}{\number\bidi@poscount}{\noexpand\number\noexpand\pdflastx
4698 }%
4699 }%
4700 \ifvmode
4701 \leavevmode
4702 \fi
4703 \if@RTL
4704 \if@filesw
4705 \@tempa
4706 \fi
4707 \pdfsavepos
4708 \else
4709 \pdfsavepos
4710 \if@filesw
4711 \@tempa
4712 \fi
4713 \fi
4714 \if@bidi@csundef\bidi@xpos@@start@\number\bidi@poscount}{%
4715 \PackageWarningNoLine{biditools}{%
4716 The start x position '\number\bidi@poscount' is not known yet.
4717 Rerun to get this x position%
4718 }%
4719 }{}%
4720 }
4721
4722 \newcommand*{\WriteEndXPostoaux}{%
4723 \edef\@tempa{%
4724 \write\@auxout{%
4725 \string\bidi@pos{x}{end}{\number\bidi@poscount}{\noexpand\number\noexpand\pdflastx
4726 }%
4727 }%
4728 \if@RTL
4729 \if@filesw
4730 \@tempa
4731 \fi
4732 \pdfsavepos

```



```

4733 \else
4734 \pdfsavepos
4735 \if@filesw
4736 \@tempa
4737 \fi
4738 \fi
4739 \if@bidi@csundef{bidi@xpos@@end@\number\bidi@poscount}{%
4740     \PackageWarningNoLine{biditools}{%
4741         The end x position ` \number\bidi@poscount' is not known yet.
4742         Rerun to get this x position%
4743     }%
4744 }{}%
4745 }
4746
4747 \newcommand*{\WriteStartYPostoaux}{%
4748     \global\advance\bidi@poscount\@ne
4749     \edef\@tempa{%
4750         \write\@auxout{%
4751             \string\bidi@pos{y}{start}{\number\bidi@poscount}{\noexpand\number\noexpand\pdfasty
4752         }%
4753     }%
4754     \ifvmode
4755     \leavevmode
4756     \fi
4757 \if@RTL
4758     \if@filesw
4759     \@tempa
4760 \fi
4761 \pdfsavepos
4762 \else
4763 \pdfsavepos
4764 \if@filesw
4765     \@tempa
4766 \fi
4767 \fi
4768 \if@bidi@csundef{bidi@ypos@@start@\number\bidi@poscount}{%
4769     \PackageWarningNoLine{biditools}{%
4770         The start y position ` \number\bidi@poscount' is not known yet.
4771         Rerun to get this y position%
4772     }%
4773 }{}%
4774 }
4775
4776 \newcommand*{\WriteEndYPostoaux}{%
4777     \edef\@tempa{%
4778         \write\@auxout{%
4779             \string\bidi@pos{y}{end}{\number\bidi@poscount}{\noexpand\number\noexpand\pdfasty
4780         }%
4781     }%
4782 \if@RTL
4783     \if@filesw
4784     \@tempa
4785 \fi
4786 \pdfsavepos

```



```

4787 \else
4788 \pdfsavepos
4789 \if@filesw
4790 \@tempa
4791 \fi
4792 \fi
4793 \if@bidi@csundef{bidi@ypos@@end@\number\bidi@poscount}{%
4794     \PackageWarningNoLine{biditools}{%
4795         The end y position `\'number\bidi@poscount' is not known yet.
4796         Rerun to get this y position%
4797     }%
4798 }{}%
4799 }
4800
4801 \newcommand*{\WriteStartXYPostoaux}{%
4802     \global\advance\bidi@poscount\@ne
4803     \edef\@tempa{%
4804         \write\@auxout{%
4805             \string\bidi@pos{x}{start}{\number\bidi@poscount}{\noexpand\number\noexpand\pdflastx}
4806         }%
4807         \write\@auxout{%
4808             \string\bidi@pos{y}{start}{\number\bidi@poscount}{\noexpand\number\noexpand\pdflasty}
4809         }%
4810     }%
4811     \ifvmode
4812         \leavevmode
4813     \fi
4814     \if@RTL
4815         \if@filesw
4816             \@tempa
4817         \fi
4818     \pdfsavepos
4819     \else
4820     \pdfsavepos
4821     \if@filesw
4822         \@tempa
4823     \fi
4824     \fi
4825     \if@bidi@csundef{bidi@xpos@@start@\number\bidi@poscount}{%
4826         \PackageWarningNoLine{biditools}{%
4827             The start x position `\'number\bidi@poscount' is not known yet.
4828             Rerun to get this x position%
4829         }%
4830     }{}%
4831     \if@bidi@csundef{bidi@ypos@@start@\number\bidi@poscount}{%
4832         \PackageWarningNoLine{biditools}{%
4833             The start y position `\'number\bidi@poscount' is not known yet.
4834             Rerun to get this y position%
4835         }%
4836     }{}%
4837 }
4838
4839 \newcommand*{\WriteEndXYPostoaux}{%
4840     \edef\@tempa{%

```





```

4841         \write\@auxout{%
4842             \string\bidipos{x}{end}{\number\bidiposcount}{\noexpand\number\noexpand\pdflastx
4843         }%
4844         \write\@auxout{%
4845             \string\bidipos{y}{end}{\number\bidiposcount}{\noexpand\number\noexpand\pdflastx
4846         }%
4847     }%
4848 \if@RTL
4849     \if@filesw
4850     \@tempa
4851 \fi
4852 \pdfsavepos
4853 \else
4854 \pdfsavepos
4855 \if@filesw
4856     \@tempa
4857 \fi
4858 \fi
4859 \if@bidi@csundef{bidi@xpos@@end@\number\bidiposcount}{%
4860     \PackageWarningNoLine{biditools}{%
4861         The end x position ``\number\bidiposcount' is not known yet.
4862         Rerun to get this x position%
4863     }%
4864 }{}%
4865 \if@bidi@csundef{bidi@ypos@@end@\number\bidiposcount}{%
4866     \PackageWarningNoLine{biditools}{%
4867         The end y position ``\number\bidiposcount' is not known yet.
4868         Rerun to get this y position%
4869     }%
4870 }{}%
4871 }
4872
4873 \newcommand*{\currentposxwidth}{%
4874     \if@bidi@csundef{bidi@xpos@@end@\number\bidiposcount}{\z@}
4875     {%
4876         \ifnum\csname bidi@xpos@@start@\number\bidiposcount
4877         \endcsname < \csname bidi@xpos@@end@\number\bidiposcount
4878         \endcsname
4879         \dimexpr \csname bidi@xpos@@end@\number\bidiposcount
4880         \endcsname sp - \csname bidi@xpos@@start@\number\bidiposcount
4881         \endcsname sp\relax
4882     \else
4883         \dimexpr \csname bidi@xpos@@start@\number\bidiposcount
4884         \endcsname sp - \csname bidi@xpos@@end@\number\bidiposcount
4885         \endcsname sp\relax
4886     \fi
4887     }%
4888 }
4889
4890 \newcommand*{\currentposyheight}{%
4891     \if@bidi@csundef{bidi@ypos@@end@\number\bidiposcount}{\z@}
4892     {%
4893         \dimexpr \csname bidi@ypos@@start@\number\bidiposcount
4894         \endcsname sp - \csname bidi@ypos@@end@\number\bidiposcount

```



```

4895 \endcsname sp\relax
4896 }%
4897 }
4898
4899
4900
4901 \newcommand*{\setbaselineskip}[1]{%
4902 \linespread{\strip@pt\dimexpr\numexpr\dimexpr#1\relax*65536/\dimexpr\baselineskip\relax}
4903 \selectfont
4904 }
4905
4906
4907 \newcommand*{\bidi@newrobustcmd}{%
4908 \protected\def\bidi@newrobustcmd{\@star@or@long\bidi@new@command}
4909
4910 \def\bidi@new@command#1{\@testopt{\bidi@newcommand#1}0}
4911
4912 \def\bidi@newcommand#1[#2]{%
4913 \ifnextchar[%
4914 {\bidi@xargdef#1[#2]}
4915 {\ifx\l@ngrel@x\relax
4916 \let\l@ngrel@x\protected
4917 \else
4918 \protected\def\l@ngrel@x{\protected\long}%
4919 \fi
4920 \@argdef#1[#2]}}
4921
4922 \long\def\bidi@xargdef#1[#2][#3]#4{%
4923 \@ifdefinable#1{%
4924 \expandafter\protected
4925 \expandafter\def
4926 \expandafter#1%
4927 \expandafter{%
4928 \expandafter\@testopt
4929 \csname\string#1\endcsname{#3}}}%
4930 \expandafter\@yargdef\csname\string#1\endcsname\tw@{#2}{#4}}
4931
4932 \bidi@newrobustcmd*{\bidi@renewrobustcmd}{\@star@or@long\bidi@renew@command}
4933
4934 \def\bidi@renew@command#1{%
4935 \if@bidi@undef{#1}
4936 {\bidi@error{\string#1 undefined}\@ehc}
4937 {}%
4938 \let\@ifdefinable\@rc@ifdefinable
4939 \bidi@new@command#1}
4940
4941
4942
4943 \bidi@newrobustcmd*{\bidi@providerobustcmd}{\@star@or@long\bidi@provide@command}
4944
4945 \def\bidi@provide@command#1{%
4946 \if@bidi@undef{#1}
4947 {\def\reserved@a{\bidi@new@command#1}}
4948 {\def\reserved@a{\bidi@renew@command\reserved@a}}%

```



```

4949 \reserved@a}
4950
4951 \newcommand*{\bidi@csuse}[1]{%
4952   \ifcsname#1\endcsname
4953     \csname#1\expandafter\endcsname
4954   \fi}
4955
4956 \newcommand{\bidi@expandonce}[1]{%
4957   \unexpanded\expandafter{#1}}
4958
4959 \def\bidi@protected{%
4960   \let\@@protect\protect
4961   \let\protect\@unexpandable@protect
4962   \afterassignment\restore@protect}
4963
4964 \bidi@newrobustcmd{\bidi@appto}[2]{%
4965   \if@bidi@undef{#1}
4966     {\edef#1{\unexpanded{#2}}}
4967     {\edef#1{\bidi@expandonce#1\unexpanded{#2}}}}
4968 \bidi@newrobustcmd{\bidi@eappto}[2]{%
4969   \if@bidi@undef{#1}
4970     {\edef#1{#2}}
4971     {\edef#1{\bidi@expandonce#1#2}}}
4972 \bidi@newrobustcmd{\bidi@gappto}[2]{%
4973   \if@bidi@undef{#1}
4974     {\xdef#1{\unexpanded{#2}}}
4975     {\xdef#1{\bidi@expandonce#1\unexpanded{#2}}}}
4976 \bidi@newrobustcmd{\bidi@xappto}[2]{%
4977   \if@bidi@undef{#1}
4978     {\xdef#1{#2}}
4979     {\xdef#1{\bidi@expandonce#1#2}}}
4980
4981 \bidi@newrobustcmd*{\bidi@protected@eappto}{\bidi@protected\bidi@eappto}
4982 \bidi@newrobustcmd*{\bidi@protected@xappto}{\bidi@protected\bidi@xappto}
4983
4984
4985
4986 \bidi@newrobustcmd{\bidi@preto}[2]{%
4987   \if@bidi@undef{#1}
4988     {\edef#1{\unexpanded{#2}}}
4989     {\edef#1{\unexpanded{#2}\bidi@expandonce#1}}}
4990 \bidi@newrobustcmd{\bidi@epreto}[2]{%
4991   \if@bidi@undef{#1}
4992     {\edef#1{#2}}
4993     {\edef#1{#2\bidi@expandonce#1}}}
4994 \bidi@newrobustcmd{\bidi@gpreto}[2]{%
4995   \if@bidi@undef{#1}
4996     {\xdef#1{\unexpanded{#2}}}
4997     {\xdef#1{\unexpanded{#2}\bidi@expandonce#1}}}
4998 \bidi@newrobustcmd{\bidi@xpreto}[2]{%
4999   \if@bidi@undef{#1}
5000     {\xdef#1{#2}}
5001     {\xdef#1{#2\bidi@expandonce#1}}}
5002

```



```

5003 \bidi@newrobustcmd*{\bidi@protected@epreto}{\bidi@protected\bidi@epreto}
5004 \bidi@newrobustcmd*{\bidi@protected@xpreto}{\bidi@protected\bidi@xpreto}
5005
5006
5007
5008 \bidi@newrobustcmd*{\bidi@csappto}[1]{\expandafter\bidi@appto\csname#1\endcsname}
5009 \bidi@newrobustcmd*{\bidi@cseappto}[1]{\expandafter\bidi@eappto\csname#1\endcsname}
5010 \bidi@newrobustcmd*{\bidi@csgappto}[1]{\expandafter\bidi@gappto\csname#1\endcsname}
5011 \bidi@newrobustcmd*{\bidi@csxappto}[1]{\expandafter\bidi@xappto\csname#1\endcsname}
5012 \bidi@newrobustcmd*{\bidi@protected@cseappto}{\bidi@protected\bidi@cseappto}
5013 \bidi@newrobustcmd*{\bidi@protected@csxappto}{\bidi@protected\bidi@csxappto}
5014
5015
5016
5017 \bidi@newrobustcmd*{\bidi@cspreto}[1]{\expandafter\bidi@preto\csname#1\endcsname}
5018 \bidi@newrobustcmd*{\bidi@csepreto}[1]{\expandafter\bidi@epreto\csname#1\endcsname}
5019 \bidi@newrobustcmd*{\bidi@csgpreto}[1]{\expandafter\bidi@gpreto\csname#1\endcsname}
5020 \bidi@newrobustcmd*{\bidi@csxpreto}[1]{\expandafter\bidi@xpreto\csname#1\endcsname}
5021 \bidi@newrobustcmd*{\bidi@protected@csepreto}{\bidi@protected\bidi@csepreto}
5022 \bidi@newrobustcmd*{\bidi@protected@csxpreto}{\bidi@protected\bidi@csxpreto}
5023
5024
5025
5026 \bidi@newrobustcmd{\if@bidi@patchable}{%
5027   \bidi@dbg@trce\if@bidi@patchable
5028   \beginingroup
5029   \@makeother\#%
5030   \@ifstar\bidi@ifpatchable@i\bidi@ifpatchable}
5031
5032 \long\def\bidi@ifpatchable#1#2{%
5033   \endgroup
5034   \bidi@dbg@init#1%
5035   \if@bidi@undef{#1}
5036     {\bidi@dbg@fail{def}\@secondoftwo}
5037     {\bidi@dbg@info{def}%
5038       \if@bidi@defmacro{#1}
5039         {\bidi@dbg@info{mac}%
5040           \bidi@ifscanable{#1}
5041             {\bidi@ifhashcheck{#2}
5042               {\bidi@dbg@info{tok}%
5043                 \bidi@ifpattern#1{#2}
5044                   {\bidi@dbg@info{pat}%
5045                     \bidi@dbg@info{pos}\@firstoftwo}
5046                     {\bidi@dbg@fail{pat}\@secondoftwo}}}
5047                   {\bidi@dbg@fail{hsh}\@secondoftwo}}
5048                   {\bidi@dbg@fail{tok}\@secondoftwo}}
5049                   {\bidi@dbg@fail{mac}\@secondoftwo}}}
5050
5051 \long\def\bidi@ifpatchable@i#1{%
5052   \endgroup
5053   \bidi@dbg@init#1%
5054   \if@bidi@undef{#1}
5055     {\bidi@dbg@fail{def}\@secondoftwo}
5056     {\bidi@dbg@info{def}%

```



```

5057 \if@bidi@defmacro{#1}
5058   {\bidi@dbg@info{mac}%
5059     \if@bidi@defparam{#1}
5060       {\bidi@dbg@info{prm}%
5061         \bidi@ifscanable{#1}
5062           {\bidi@dbg@info{tok}%
5063             \bidi@dbg@info{pos}\@firstoftwo}
5064             {\bidi@dbg@fail{tok}\@secondoftwo}}
5065       {\bidi@dbg@info{prl}%
5066         \if@bidi@defprotected{#1}
5067           {\bidi@dbg@info{pro}}
5068           {}%
5069         \bidi@dbg@info{pos}\@firstoftwo}}
5070     {\bidi@dbg@fail{mac}\@secondoftwo}}
5071
5072 \bidi@newrobustcmd*{\bidi@patchcmd}{%
5073   \bidi@dbg@trce\bidi@patchcmd
5074   \begingroup
5075   \@makeother\%
5076   \bidi@@patchcmd}
5077
5078 \newcommand{\bidi@@patchcmd}[4][#####1]{%
5079   \bidi@ifpatchable#2{#3}
5080   {\bidi@dbg@succ{ret}%
5081     \begingroup
5082     \edef\bidi@resrvda{%
5083       \def\noexpand\bidi@resrvda#####1\detokenize{macro:}####2->####3&{%
5084         #1\def\string\bidi@resrvda\space####2{\noexpand\bidi@resrvdb#####3&}}%
5085       \def\noexpand\bidi@resrvdb#####1\detokenize{#3}####2&{%
5086         #####1\detokenize{#4}####2}%
5087       \edef\noexpand\bidi@resrvda{%
5088         \noexpand\bidi@resrvda\meaning#2&}}%
5089     \bidi@resrvda
5090     \bidi@patchcmd@scantoks\bidi@resrvda
5091     \let#2\bidi@resrvda
5092     \bidi@undef\bidi@resrvda
5093     \@firstoftwo}
5094   {\@secondoftwo}}
5095
5096 \def\bidi@patchcmd@scantoks#1{%
5097   \edef\bidi@resrvda{\endgroup
5098     \unexpanded{\makeatletter\scantokens}{#1}%
5099     \catcode\number`\@=\the\catcode`\@\relax}%
5100   \bidi@resrvda}
5101
5102 \newcommand\bidi@isloaded[2][]{
5103   \expandafter\ifx\csname if@bidi@#2loaded@endcsname\relax
5104     \expandafter\newif\csname if@bidi@#2loaded@endcsname
5105     \fi
5106     \@ifpackageloaded{#2}
5107     {\csname @bidi@#2loaded@true\endcsname #1}
5108     {\csname @bidi@#2loaded@false\endcsname}}
5109
5110 \protected\def\bidi@ifscanable#1{%

```



```

5111 \beginngroup
5112 \edef\bidi@resrvda{%
5113   \def\noexpand\bidi@resrvda####1\detokenize{macro}:####2->####3&{%
5114     ####1\def\string\bidi@resrvda####2{####3}}%
5115   \edef\noexpand\bidi@resrvda{\noexpand\bidi@resrvda\meaning#1&}}%
5116 \bidi@resrvda
5117 \makeatletter
5118 \scantokens\expandafter{\bidi@resrvda}%
5119 \expandafter\endgroup\ifx#1\bidi@resrvda
5120   \expandafter\@firstoftwo
5121 \else
5122   \expandafter\@secondoftwo
5123 \fi}
5124
5125
5126 \protected\long\def\bidi@ifhashcheck#1{%
5127   \beginngroup
5128   \edef\bidi@resrvda{\detokenize{#1}}%
5129   \expandafter\endgroup
5130   \expandafter\bidi@ifhashcheck@i\meaning\bidi@resrvda&}
5131
5132 \edef\bidi@ifhashcheck@i#1&{%
5133   \noexpand\expandafter
5134   \noexpand\bidi@ifhashcheck@ii
5135   \noexpand\strip@prefix#1\string#\string#&}
5136
5137 \edef\bidi@ifhashcheck@ii{%
5138   \def\noexpand\bidi@ifhashcheck@ii##1\string#\string###2&}
5139 \bidi@ifhashcheck@ii{\if@bidi@blank{#2}}
5140
5141
5142 \protected\long\def\bidi@ifpattern#1#2{%
5143   \beginngroup
5144   \edef\bidi@resrvda{%
5145     \def\noexpand\bidi@resrvda####1\detokenize{#2}####2&{%
5146       \endgroup\noexpand\noexpand\noexpand\noexpand\if@bidi@blank{####2}}%
5147     \edef\noexpand\bidi@resrvda{\noexpand\bidi@resrvda
5148       \expandafter\strip@prefix\meaning#1\detokenize{#2}&}%
5149     \noexpand\bidi@resrvda}
5150   \bidi@resrvda\@secondoftwo\@firstoftwo}
5151
5152
5153 \newcommand{\if@bidi@defparam}{ }
5154 \long\edef\if@bidi@defparam#1{%
5155   \noexpand\expandafter\noexpand\bidi@ifdefparam
5156   \noexpand\meaning#1\detokenize{macro}:-&}
5157 \edef\bidi@ifdefparam{%
5158   \def\noexpand\bidi@ifdefparam##1\detokenize{macro}:##2->##3&}
5159 \bidi@ifdefparam{\bidi@notblank{#2}}
5160
5161
5162 \newcommand{\if@bidi@defprotected}{ }
5163 \long\edef\if@bidi@defprotected#1{%
5164   \noexpand\expandafter\noexpand\bidi@ifdefprotected

```



```

5165 \noexpand\meaning#1\string\protected&}
5166 \edef\bid@ifdefprotected{%
5167 \def\noexpand\bid@ifdefprotected##1\string\protected##2&}
5168 \bid@ifdefprotected{\bid@notblank{#2}}
5169
5170
5171 \bid@newrobustcmd{\bid@undef}[1]{\let#1\bid@undefined}
5172 \bid@newrobustcmd{\bid@csundef}[1]{%
5173 \expandafter\let\csname #1\endcsname\bid@undefined
5174 }
5175
5176 \let\bid@dbg@trce\@gobble
5177 \let\bid@dbg@init\@gobble
5178 \let\bid@dbg@info\@gobble
5179 \let\bid@dbg@succ\@gobble
5180 \let\bid@dbg@fail\@gobble
5181
5182
5183
5184 \bid@newrobustcmd*{\bid@apptocmd}{%
5185 \bid@dbg@trce\bid@apptocmd
5186 \begingroup
5187 \@makeother\%
5188 \bid@hooktocmd\bid@append}
5189
5190
5191
5192 \bid@newrobustcmd*{\bid@pretocmd}{%
5193 \bid@dbg@trce\bid@pretocmd
5194 \begingroup
5195 \@makeother\%
5196 \bid@hooktocmd\bid@prepend}
5197
5198 \long\def\bid@hooktocmd#1#2#3{%
5199 \endgroup
5200 \bid@dbg@init#2%
5201 \if@bid@undef{#2}
5202 {\bid@dbg@fail{def}\@secondoftwo}
5203 {\bid@dbg@info{def}%
5204 \if@bid@defmacro{#2}
5205 {\bid@dbg@info{mac}%
5206 \if@bid@defparam{#2}
5207 {\bid@dbg@info{prm}%
5208 \bid@ifscanable{#2}
5209 {\bid@ifhashcheck{#3}
5210 {\bid@dbg@info{tok}%
5211 \bid@dbg@succ{ret}%
5212 \bid@hooktocmd@i#1#2{#3}%
5213 \@firstoftwo}
5214 {\bid@dbg@fail{hsh}\@secondoftwo}}
5215 {\bid@dbg@fail{tok}\@secondoftwo}}
5216 {\bid@dbg@info{prl}%
5217 \if@bid@defprotected{#2}
5218 {\bid@dbg@info{pro}%

```



```

5219         \bidi@dbg@succ{red}%
5220         \protected}
5221         {\bidi@dbg@succ{red}}}%
5222         \edef#2{#1{\bidi@expandonce#2}{\unexpanded{#3}}}%
5223         \@firstoftwo}}
5224         {\bidi@dbg@fail{mac}\@secondoftwo}}}}
5225
5226 \long\def\bidi@hooktocmd@i#1#2#3{%
5227   \begingroup
5228   \edef\bidi@resrvda{%
5229     \def\noexpand\bidi@resrvda####1\detokenize{macro}:####2->####3&{%
5230       ####1\def\string\bidi@resrvda\space####2{#1{####3}{\detokenize{#3}}}}}%
5231     \edef\noexpand\bidi@resrvda{%
5232       \noexpand\bidi@resrvda\meaning#2&}}}%
5233   \bidi@resrvda
5234   \bidi@patchcmd@scantoks\bidi@resrvda
5235   \let#2\bidi@resrvda
5236   \bidi@undef\bidi@resrvda}
5237
5238 \long\def\bidi@append#1#2{#1#2}
5239 \long\def\bidi@prepend#1#2{#2#1}
5240
5241 %\bidi@newrobustcmd*{\bidi@AtEndPreamble}{\bidi@gappto\bidi@endpreamblehook}
5242 %\newcommand*{\bidi@endpreamblehook}{}
5243
5244 \bidi@newrobustcmd*{\bidi@AtEndPreamble}{\AddToHook{begindocument/before}}%
5245
5246 \bidi@newrobustcmd*{\bidi@BeforeOutputPageShipOut}{\bidi@gappto\bidi@beforeoutputpageshipout}
5247 \newcommand*{\bidi@beforeoutputpageshipouthook}{}
5248
5249 \bidi@newrobustcmd*{\bidi@BeforeHeader}{\bidi@gappto\bidi@beforeheaderhook}
5250 \newcommand*{\bidi@beforeheaderhook}{}
5251
5252 \bidi@newrobustcmd*{\bidi@BeforeOutputBoxOutputPage}{\bidi@gappto\bidi@beforeoutputboxoutput}
5253 \newcommand*{\bidi@beforeoutputboxoutputpagehook}{}
5254
5255 \bidi@newrobustcmd*{\bidi@AfterOutputBoxOutputPage}{\bidi@gappto\bidi@afteroutputboxoutputpa}
5256 \newcommand*{\bidi@afteroutputboxoutputpagehook}{}
5257
5258 \bidi@newrobustcmd*{\bidi@BeforeFooter}{\bidi@gappto\bidi@beforefooterhook}
5259 \newcommand*{\bidi@beforefooterhook}{}
5260
5261 \bidi@newrobustcmd*{\bidi@AfterFooter}{\bidi@gappto\bidi@afterfooterhook}
5262 \newcommand*{\bidi@afterfooterhook}{}
5263
5264
5265 \bidi@newrobustcmd*{\bidi@AfterOutputPageShipOut}{\bidi@gappto\bidi@afteroutputpageshipoutho}
5266 \newcommand*{\bidi@afteroutputpageshipouthook}{}
5267
5268 \bidi@newrobustcmd*{\bidi@AtEndOutputPage}{\bidi@gappto\bidi@atendoutputpagehook}
5269 \newcommand*{\bidi@atendoutputpagehook}{}
5270
5271 %\bidi@preto\document{%
5272 %   \endgroup

```





```

5273 % \let\bid@AtEndPreamble\@firstofone
5274 % \bid@endpreamblehook
5275 % \protected\def\bid@AtEndPreamble{\@notprerr\@gobble}%
5276 % \bid@undef\bid@endpreamblehook
5277 % \begingroup}
5278
5279 \bid@newrobustcmd*{\bid@AfterPreamble}{\AtBeginDocument}
5280 \bid@AtEndPreamble{\let\bid@AfterPreamble\@firstofone}
5281
5282 %\bid@newrobustcmd*{\bid@AfterEndPreamble}{\bid@gappto\bid@afterendpreamblehook}
5283 %\newcommand*{\bid@afterendpreamblehook}{\}
5284
5285 \bid@newrobustcmd*{\bid@AfterEndPreamble}{\AddToHook{begindocument/end}}%
5286
5287 %\bid@appto\document{%
5288 % \let\bid@AfterEndPreamble\@firstofone
5289 % \bid@afterendpreamblehook
5290 % \protected\def\bid@AfterEndPreamble{\@notprerr\@gobble}%
5291 % \bid@undef\bid@afterendpreamblehook
5292 % \ignorespaces}
5293
5294 \bid@newrobustcmd*{\bid@AfterEndDocumentCheckLabelsRerun}{\bid@gappto\bid@afterenddocumentchecklabelsrerunhook}
5295 \newcommand*{\bid@afterenddocumentchecklabelsrerunhook}{\}
5296
5297 \bid@patchcmd\enddocument
5298 {\fi}
5299 {\let\bid@AfterEndDocumentCheckLabelsRerun\@firstofone
5300 \bid@afterenddocumentchecklabelsrerunhook
5301 \fi}
5302 {}
5303 {\PackageWarning{biditools}{Patching '\string\enddocument' failed}}
5304
5305 \AtEndDocument{\let\bid@AfterEndPreamble\@gobble}
5306
5307 \bid@newrobustcmd*{\bid@AfterLastShipout}{\bid@gappto\bid@afterlastshipouthook}
5308 \newcommand*{\bid@afterlastshipouthook}{\}
5309
5310 \bid@patchcmd\enddocument
5311 {\clearpage}
5312 {\clearpage
5313 \let\bid@AfterLastShipout\@firstofone
5314 \bid@afterlastshipouthook}
5315 {}
5316 {\let\bid@clearpage\clearpage
5317 \def\clearpage{%
5318 \bid@clearpage
5319 \let\bid@AfterLastShipout\@firstofone
5320 \bid@afterlastshipouthook}}
5321
5322 %\bid@newrobustcmd*{\bid@AfterEndDocument}{\bid@gappto\bid@afterenddocumenthook}
5323 %\newcommand*{\bid@afterenddocumenthook}{\}
5324
5325 \bid@newrobustcmd*{\bid@AfterEndDocument}{\AddToHook{enddocument/end}}%
5326

```



```

5327 %\bidi@patchcmd\enddocument
5328 % {\deadcycles}
5329 % {\let\bidi@AfterEndDocument\@firstofone
5330 % \bidi@afterenddocumenthook
5331 % \deadcycles}
5332 % {}
5333 % {\let\bidi@@end\@@end
5334 % \def\@@end{%
5335 % \let\bidi@AfterEndDocument\@firstofone
5336 % \bidi@afterenddocumenthook
5337 % \bidi@@end}}
5338
5339 \bidi@newrobustcmd{\bidi@AtBeginEnvironment}[1]{%
5340 \bidi@csgappto{\bidi@begin@#1@hook}}
5341
5342 % Patch \begin<space> and \end<space> in newer LaTeX releases
5343 % \begin and \end in older ones.
5344 \expandafter\bidi@patchcmd\csname begin\ifcsname begin \endcsname\space\fi\endcsname
5345 {\csname #1\endcsname}
5346 {\bidi@csuse{\bidi@begin@#1@hook}%
5347 \csname #1\endcsname}
5348 {}
5349 {\bidi@warning{%
5350 Patching '\string\begin' failed!\MessageBreak
5351 '\string\bidi@AtBeginEnvironment' will not work\@gobble}}
5352
5353
5354
5355 \bidi@newrobustcmd{\bidi@AtEndEnvironment}[1]{%
5356 \bidi@csgappto{\bidi@end@#1@hook}}
5357
5358 \expandafter\bidi@patchcmd\csname end\ifcsname end \endcsname\space\fi\endcsname
5359 {\csname end#1\endcsname}
5360 {\bidi@csuse{\bidi@end@#1@hook}%
5361 \csname end#1\endcsname}
5362 {}
5363 {\bidi@warning{%
5364 Patching '\string\end' failed!\MessageBreak
5365 '\string\bidi@AtEndEnvironment' will not work\@gobble}}
5366
5367
5368
5369 \bidi@newrobustcmd{\bidi@BeforeBeginEnvironment}[1]{%
5370 \bidi@csgappto{\bidi@beforebegin@#1@hook}}
5371
5372 \expandafter\bidi@pretocmd\csname begin\ifcsname begin \endcsname\space\fi\endcsname
5373 {\bidi@csuse{\bidi@beforebegin@#1@hook}}
5374 {}
5375 {\bidi@warning{%
5376 Patching '\string\begin' failed!\MessageBreak
5377 '\string\bidi@BeforeBeginEnvironment' will not work\@gobble}}
5378
5379 \bidi@newrobustcmd{\bidi@AfterEndEnvironment}[1]{%
5380 \bidi@csgappto{\bidi@afterend@#1@hook}}

```



```

5381
5382 \expandafter\@bidi@patchcmd\csname end\ifcsname end \endcsname\space\fi\endcsname
5383   {\if@ignore}
5384   {\@bidi@csuse{\@bidi@afterend@#1@hook}%
5385     \if@ignore}
5386   {}
5387   {\@bidi@warning{%
5388     Patching '\string\end' failed!\MessageBreak
5389     '\string\@bidi@AfterEndEnvironment' will not work\@gobble}}
5390
5391 \def\@bidi@namedef#1{\expandafter\def\csname #1\endcsname}
5392 \def\@bidi@namedef#1{\expandafter\gdef\csname #1\endcsname}
5393 \def\@bidi@namedef#1{\expandafter\edef\csname #1\endcsname}
5394 \def\@bidi@namedef#1{\expandafter\xdef\csname #1\endcsname}
5395
5396 % From David Carlisle:
5397 % The \@stpelt redefinition below belongs to Heiko Oberdiek
5398 % See also https://github.com/ho-tex/oberdiek/issues/26
5399
5400 \let\@bidi@stepcounter\stepcounter
5401 \let\@bidi@@stpelt\@stpelt
5402
5403 \def\@stpelt#1{%
5404   \ifcsname @bidi@reset@#1@perpage\endcsname
5405     \begingroup
5406       \let\stepcounter\@bidi@stepcounter
5407       \@bidi@@stpelt{#1}%
5408     \endgroup
5409     \expandafter\@gobbletwo
5410   \fi
5411   \@bidi@@stpelt{#1}%
5412 }
5413
5414 \bidi@pretocmd\stepcounter
5415   {%
5416     \if@bidi@csundef{\@bidi@stepcounterhook@#1}{\}%
5417     \csname @bidi@stepcounterhook@#1\endcsname
5418   }%
5419 }{\}%
5420 {\PackageWarning{biditools}{Patching '\string\stepcounter' failed}}
5421
5422 \chardef\@bidi@backslash`\\
5423 \def\@bidi@cs#1{\texttt{\char\@bidi@backslash#1}}
5424
5425 % anonymous control sequences
5426 \newcount\@bidi@tempcountb
5427 \newtoks\@bidi@temptoksa
5428 \newtoks\@bidi@temptoksb
5429
5430 % Catcode (re)storing
5431 %
5432 \def\@bidi@storecatcode#1%
5433   {\escapechar\m@ne
5434     \@bidi@csarg\edef{\@bidi@restorecatcode\string#1}%

```



```

5435         {\catcode`\string#1=
5436             \the\catcode\expandafter`\string#1}%
5437     \catcode\expandafter`\string#1=12\relax
5438     \escapechar`\\\relax}
5439 \def\bidirestorecatcode#1%
5440     {\escapechar\m@ne
5441     \csname bidi@restorecatcode\string#1\endcsname
5442     \escapechar`\\\relax}
5443
5444 % Construct a control sequence inside \edef
5445 %
5446 \def\bidicsname#1{\expandafter\noexpand\csname#1\endcsname}
5447
5448 % Construct a control sequence out of #2, and give it to #1
5449 %
5450 \def\bidicsarg#1#2{\expandafter#1\csname#2\endcsname}
5451
5452 % Pick an escapecharacter
5453 % this presumes that its argument is a character.
5454 %
5455 \def\bidipickescape#1{\ifnum`#1=\escapechar\else#1\fi}
5456
5457 % Equality of strings.
5458 % the fast approach: does not work in expansion-only environment.
5459 %
5460 \def\bidiequalstring#1#2{00\fi\def\bidieqs@a{#1}\def\bidieqs@b{#2}%
5461     \ifx\bidieqs@a\bidieqs@b}
5462
5463 % Test by expansion only
5464 %
5465 \def\bidiequalstringx#1#2{00\fi
5466     \csname if\@bidi@equalstringx#1&#2&$\endcsname}
5467 \def\@bidi@equalstringx#1#2$#3#4${\ifx#1#3%
5468     \ifx#1&true\else\bidihop@ES\@bidi@equalstringx#2$#4$\fi
5469     \else false\fi}
5470 \def\bidihop@ES#1\fi#2\fi{\fi\fi#1}
5471
5472 % Lexicographic ordering
5473 % note the use of \def
5474 % also note the characters 0,127,255 that are used,
5475 % these are not supposed to appear in the strings
5476 %
5477 {\catcode0=12 \catcode255=12 \catcode127=12
5478 \gdef\bidistringbeforeNC#1#2{00\fi
5479     \bidi@charsbefore#1^^@^^?#2^^ff^^?}
5480 \gdef\bidicharsbeforeNC#1#2^^?#3#4^^?{%
5481     \ifcat#1\relax\def\bidinext{\bidi@charsbefore#2^^@^^?#3#4^^ff^^?}%
5482     \else\ifcat#3\relax\def\bidinext{\bidi@charsbefore#1#2^^@^^?#4^^ff^^?}%
5483     \else\ifnum\lccode`#1<\lccode`#3
5484         \def\bidinext{\csname iftrue\endcsname}%
5485     \else\ifnum\lccode`#1>\lccode`#3
5486         \def\bidinext{\csname iffalse\endcsname}%
5487     \else\def\bidinext{\bidi@charsbefore#2^^?#4^^?}%
5488     \fi \fi \fi \fi

```



```

5489 \bidi@next}
5490 \gdef\bidi@StringBefore#1#2{00\fi
5491 \bidi@CharsBefore#1^^@^^?#2^^ff^^?}
5492 \gdef\bidi@CharsBefore#1#2^^?#3#4^^?{%
5493 \ifnum`#1<`#3
5494 \def\bidi@next{\csname iftrue\endcsname}%
5495 \else\ifnum`#1>`#3
5496 \def\bidi@next{\csname iffalse\endcsname}%
5497 \else\def\bidi@next{\bidi@CharsBefore#2^^?#4^^?}%
5498 \fi\fi
5499 \bidi@next}
5500 }
5501
5502 % Null argument test
5503 %
5504 \def\bidi@empty{}
5505 \def\bidi@ifempty#1{00\fi\expandafter\ifx\csname bidi@#1@null\endcsname\bidi@null}
5506 \def\bidi@ifemptyX#1{\expandafter\ifx\csname bidi@#1@null\endcsname\bidi@null}
5507 \def\bidi@ifempty#1{\def\bidi@cs@a{#1}\ifx\bidi@cs@a\bidi@empty}
5508 \def\bidi@IsEmptyList#1{00\fi\def\bidi@cs@a{#1}\ifx\cs@a\bidi@empty}
5509
5510 % Next character test
5511 %
5512 \def\bidi@NextChar#1#2#3{00\fi
5513 \let\bidi@nxt@ch#1\def\bidi@nxt@a{#2}\def\bidi@nxt@b{#3}%
5514 \futurelet\bidi@nxt@c@\bidi@ifnxtc}
5515 \def\bidi@ifNextChar#1#2#3{%
5516 \let\bidi@nxt@ch#1\def\bidi@nxt@a{#2}\def\bidi@nxt@b{#3}%
5517 \futurelet\bidi@nxt@c@\bidi@ifnxtc}
5518 \def\bidi@ifnxtc{\ifx\bidi@nxt@ch\bidi@nxt@c \expandafter\bidi@nxt@a
5519 \else \expandafter\bidi@nxt@b \fi}
5520
5521 % Test for defined-ness of string as control sequence.
5522 % works inside \edef
5523 %
5524 \def\bidi@undefinedcs#1{00\fi\bidi@csarg\ifx{#1}\relax}
5525
5526 % Define uniquely defined dummy macros,
5527 % usually to serve as bumper blocks at the end of a list
5528 %
5529 \newcount\bidi@dummies
5530 \def\DefNewDummy#1{
5531 \if\bidi@undefinedcs{#1}\bidi@csarg\edef{#1}{bidi@dum\the\bidi@dummies}
5532 \advance\bidi@dummies\@ne
5533 \else
5534 \bidi@error{Attempt at second definition of `#1'}
5535 \fi}
5536
5537 % string case statement
5538 % use: \bidi@switch \iftest{...} in:
5539 % item1 action1
5540 % ...
5541 % itemn actionn
5542 % default defaultaction [optional]

```



```

5543 % \endbidi@switch
5544 % inspired by Jonathan Fine: Some Basic Control Macros
5545 % Tugboat 12 #4
5546 %
5547 \let\@bidi@fi\fi \let\endbidi@switch\relax \DefNewDummy{bidi@default}
5548 \def\bidi@switch@exit #1 \@bidi@fi #2 \endbidi@switch {\fi #1}
5549 \def\bidi@switch #1#2#3{\bidi@csarg\ifx{#2}\bidi@default\bidi@switch@exit #3 \@bidi@fi
5550 #1{#2}\bidi@switch@exit #3 \@bidi@fi
5551 \bidi@switch {#1}
5552 }
5553 % this version puts the test object in {}
5554 \def\bidi@oswitch #1 in: #2 #3; {\bidi@csarg\ifx{#2}\bidi@default\bidi@switch@exit #3 \@bidi@fi
5555 #1{#2}\bidi@switch@exit #3 \@bidi@fi
5556 \bidi@switch #1 in:
5557 }
5558 % this version assumes that the test object is just one character
5559 \def\bidi@cswitch #1 in: #2 #3; {\bidi@csarg\ifx{#2}\bidi@default\bidi@switch@exit #3 \@bidi@fi
5560 #1#2\bidi@switch@exit #3 \@bidi@fi
5561 \bidi@cswitch #1 in:
5562 }
5563 % this version assumes that the test object can have an optional space
5564 \def\bidi@bswitch #1 in: #2 #3; {\bidi@csarg\ifx{#2}\bidi@default\bidi@switch@exit #3 \@bidi@fi
5565 #1#2 \bidi@switch@exit #3 \@bidi@fi
5566 \bidi@bswitch #1 in:
5567 }
5568 % this version can cope with significant spaces at the start of #3;
5569 % #2 is macro argument
5570 \def\bidi@mswitch #1 in: #2:#3; {\bidi@csarg\ifx{#2}\bidi@default\bidi@switch@exit #3 \@bidi@fi
5571 #1{#2}\bidi@switch@exit #3 \@bidi@fi
5572 \bidi@mswitch #1 in:
5573 }
5574 % idem; #2 does not have to be enclosed in braces
5575 \def\bidi@fswitch #1 in: #2:#3; {\bidi@csarg\ifx{#2}\bidi@default\bidi@switch@exit #3 \@bidi@fi
5576 #1#2 \bidi@switch@exit #3 \@bidi@fi
5577 \bidi@fswitch #1 in:
5578 }
5579
5580 % Routines for taking the value of a string:
5581 % if the string is defined as control sequence
5582 % take the value of that, otherwise take the string itself
5583
5584 % String or value of control sequence
5585 %
5586 \def\bidi@w@w#1{\if\bidi@undefinedcs{#1}#1\else \the\csname#1\endcsname\fi}
5587
5588 % String or control sequence
5589 %
5590 \def\@bidi@ww#1{\if\bidi@undefinedcs{#1}#1\else \csname#1\endcsname \fi}
5591
5592 % String or \noexpand-ed control sequence;
5593 % for use in \edef
5594 %
5595 \newif\ifbidi@in@label
5596 \def\@bidi@w@w#1{\if\bidi@undefinedcs{#1}#1\else

```



```

5597         \ifbidi@in@label\noexpand\protect\fi \bidi@csname{#1}\fi}
5598 \newtoks\bidi@are@these@correct
5599 \def\bidi@t@w@w#1{%
5600     \if\bidi@undefinedcs{#1}#1%
5601         \ifdefining\bidi@append@to@list\bidi@are@these@correct{#1 }\fi
5602     \else
5603         \ifin@label\noexpand\protect\fi \bidi@csname{#1}\fi}
5604
5605 % List Manipulation .....
5606 % this assumes that #1 is a list of tokens, #2 is the name of a list
5607 %
5608 % Names of lists (and of items to pop into) are given as strings;
5609 % not as control sequences.
5610 %
5611 \newtoks\bidi@toks@lista \newtoks\bidi@toks@listb
5612 % basic append/prepend macro
5613 \long\def\@bidi@append@to@csl#1#2#3{\begingroup\bidi@toks@lista=#2{#3}%
5614     \global#1=\expandafter\expandafter\expandafter{\expandafter\the\expandafter#1\the\bidi@toks@lista}
5615 \long\def\@bidi@prepend@to@csl#1#2#3{\begingroup\bidi@toks@lista=#2{#3}%
5616     \global#1=\expandafter\expandafter\expandafter{\expandafter\the\expandafter\bidi@toks@lista}
5617 \def\@bidi@append@to@list{\bidi@csarg\@bidi@append@to@csl}
5618 \def\@bidi@prepend@to@list{\bidi@csarg\@bidi@prepend@to@csl}
5619 % variations:
5620 \long\def\bidi@append@to@list#1#2{\@bidi@append@to@list{#1}{#2}}
5621 \long\def\bidi@prepend@to@list#1#2{\@bidi@prepend@to@list{#1}{#2}}
5622 \def\bidi@append@list@to@list#1#2{%
5623     \@bidi@append@to@list{#1}{\expandafter\expandafter\expandafter{\expandafter\the\csname#2\endcsname}}
5624 \def\bidi@prepend@list@to@list#1#2{%
5625     \@bidi@prepend@to@list{#1}{\expandafter\expandafter\expandafter{\expandafter\the\csname#2\endcsname}}
5626 \def\bidi@append@csl@to@csl#1#2{%
5627     \@bidi@append@to@csl{#1}\expandafter{\the#2}}
5628 \def\bidi@prepend@csl@to@csl#1#2{%
5629     \@bidi@prepend@to@csl{#1}\expandafter{\the#2}}
5630 \def\bidi@append@toks@cst@to@list#1#2{\@bidi@append@to@list{#1}\expandafter{\the#2}}
5631 \def\bidi@prepend@toks@cst@to@list#1#2{\@bidi@prepend@to@list{#1}\expandafter{\the#2}}
5632
5633 \let\bidi@willbeunhskip\unhskip
5634
5635 % A few list macros for the user
5636 \def\NewTokenList:#1 {\bidi@csarg\newtoks{#1}\global\csname#1\endcsname{}}
5637 \def\EmptyTokenList:#1 {\global\csname#1\endcsname{}}
5638 \long\def\AppendToTokenList:#1=#2 {\@bidi@append@to@list{#1}{#2}}
5639 \long\def\PrependToTokenList:#1=#2 {\@bidi@prepend@to@list{#1}{#2}}
5640 \def\TheTokenList:#1 {\let\bidi@oldwbuskip\bidi@willbeunhskip \let\bidi@willbeunhskip\@empty
5641     \if\bidi@undefinedcs{#1}\bidi@error{Token List <#1> undefined}
5642     \else\bidi@csarg\the{#1}\fi
5643     \let\bidi@willbeunhskip\bidi@oldwbuskip}
5644
5645 \def\bidi@del@tok@from@list#1#2{\begingroup
5646     \long\def\bidi@cs@liste##1#2##2\bidi@tok@SM
5647         {\bidi@toks@lista{##1}\bidi@toks@listb{##2}%
5648         \edef\bidi@cs@listb{\global\bidi@csname{#1}=
5649             {\the\bidi@toks@lista\the\bidi@toks@listb}}%
5650         \bidi@cs@listb}%

```



```

5651 \edef\bidics@lista{\noexpand\bidics@liste{}\expandafter\the\csname#1\endcsname\noexpand
5652 \bidics@lista \endgroup}
5653 \def\bidicin@front@of@list#1{\bidicsarg{\let\expandafter\bidics@lista}{#1}%
5654 \bidicin@front@of@cslist\bidics@lista}
5655 \long\def\bidicin@front@of@cslist#1#2{\begingroup\biditoks@lista={#2}%
5656 \global#1=\expandafter\expandafter\expandafter{\expandafter\the\expandafter\biditoks@list
5657 \endgroup}
5658 \long\def\bidilocal@in@front@of@list#1#2{\biditoks@lista={#2}%
5659 \csname#1\endcsname\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter
5660 {\expandafter\expandafter\expandafter\the\expandafter\expandafter\expandafter
5661 \expandafter\the\csname#1\endcsname}%
5662 }
5663 \def\bidiset@list#1{\bidicsarg{\let\expandafter\bidics@lista}{#1}%
5664 \bidiset@cslist\bidics@lista}
5665 \long\def\bidiset@cslist#1#2{\begingroup\biditoks@lista={#2}%
5666 \global#1=\expandafter{\the\biditoks@lista}\endgroup}
5667
5668 %%%%%%%%%%% Stack macros
5669 %
5670 % push in terms of prepending of lists
5671 \def\bidipush@cs@onto@cs#1#2{\@bidiprepend@to@cslist#1\expandafter{\expandafter\expandafter
5672 \def\bidipush@onto#1{\bidicsarg\bidipush@onto@cs{#1}}
5673 \def\bidipush@onto@cs#1#2{\@bidiprepend@to@cslist#1}{\{#2}}
5674 \def\bidilocal@push@onto#1#2{\let\relax
5675 \bidilocal@in@front@of@list{#1}{\{#2}}
5676 % pop via auxiliary macro: #1 is result, #2 is stack
5677 % two cs arguments
5678 \def\bidipop@cs@into#1#2{\edef\bidics@e
5679 {\noexpand\@bidipopinto\noexpand#1\noexpand#2\the#2\noexpand\@bidipop}\bidics@e}
5680 % two string arguments
5681 \def\bidipop@into#1#2{\edef\bidics@e
5682 {\noexpand\@bidipopinto\bidicsname{#1}\bidicsname{#2}\bidicsarg\the{#2}\noexpand\@bidipop}
5683 \long\def\@bidipopinto#1#2\#3#4{\@bidipop{#1}{#3}{#2}{#4}}
5684 \def\bidicopy@stacktop#1#2{%
5685 \edef\bidics@e{\noexpand\@bidicopy@stacktop
5686 {#1}\bidicsarg\the{#2}\noexpand\@bidipop}%
5687 \bidics@e}
5688 \def\@bidicopy@stacktop#1\#2#3{\@bidipop{\csname#1\endcsname#2\relax}
5689 \newcount\bidistack@length \newtoks\biditempty@stack \biditempty@stack{\{}}
5690 \def\bidilength@of@stack#1{\bidicsarg\bidilength@of@csstack{#1}}
5691 \def\bidilength@of@csstack#1{\def\##1{\advance\bidistack@length\@ne}%
5692 \bidistack@length\m@ne \the#1}
5693 % turn a stack upside down
5694 \def\bidinvert@csstack#1{\bidilength@of@csstack{#1}%
5695 \biditempcountb\z@ \biditemptoksa\biditempty@stack
5696 \loop\ifnum\biditempcountb<\bidistack@length
5697 \bidipop@cs@into\biditemptoksb#1\advance\bidistack@length\m@ne
5698 \bidipush@cs@onto@cs\biditemptoksa\biditemptoksb
5699 % \bidipush@cs@onto@cs\biditemptoksa\biditemptoksb\biditemptoksa% append a to b
5700 % \biditemptoksa\biditemptoksb
5701 \repeat% copy b to a
5702 #1\biditemptoksa \biditemptoksa\biditempty@stack}
5703 % invert a stack into a list
5704 \def\bidix@stack@to@list#1{\bidilength@of@stack{#1}%

```





```

5705 \bidi@tempcountb\z@ \bidi@temptoksa\bidi@empty@toks
5706 \loop\ifnum\bidi@tempcountb<\bidi@stack@length
5707   \bidi@pop@into{\bidi@temptoksb}{#1}\advance\bidi@stack@length\m@ne
5708   \bidi@append@list@to@list{\bidi@temptoksb}{\bidi@temptoksa}\repeat
5709   \csname#1\endcsname\bidi@temptoksa \bidi@temptoksa\bidi@empty@toks}
5710
5711
5712 % General loop macro:
5713 % \looprepeat
5714 %   \forvariable{<var>} \fromvalue{<start>} \bystep{<step>} \tovalue{<end>} \downtovalue{<end>}
5715 %   \untilcondition{<cond>} \whilecondition{<cond>}
5716 %   \doloopbody { <loop body> }
5717 % where all control sequences in between \looprepeat and \doloopbody are optional.
5718 %
5719 % var: characters to form a control sequence;
5720 %   after \forvariable{index} you can access the loop counter as \index.
5721 %   This is a count register; to print it use \number\index.
5722 % start,step,end: integers with obvious relations to the loop counter;
5723 %   start and step have a default value of 1
5724 % cond: (sequence of commands ending in) any TeX \if... test.
5725 %
5726 % Count down instead of up with \downtovalue; the increment given in \bystep
5727 % is always positive, and is added or subtracted accordingly.
5728 %
5729 % Tests: \untilcondition is evaluated at the end of the loop body; \whilecondition
5730 % at the beginning of the loop body.
5731 %
5732 % Exit from middle of loop: \breaklooprepeat
5733 % use this at any place in the loop; in case of a conditional use
5734 %   \ifsomething ... \expandafter \breaklooprepeat \fi
5735 %
5736 % Note that the line ends do not cause spaces in the output.
5737 %
5738 % Technical details:
5739 % The loop body is not executed in a group: the braces are those
5740 % of a token list.
5741 % The 'forvariable' variable is \let to a \count register.
5742
5743
5744
5745 % Auxiliary stuff
5746 \def\bidi@looprepeat@csarg#1#2{\expandafter#1\csname#2\endcsname}
5747 \def\bidi@looprepeat@csromannumeral#1{\csname #1\romannumeral\bidi@looprepeat@depth\endcsname}
5748 \def\bidi@looprepeat@csargromannumeral#1#2{\expandafter#1\csname#2\romannumeral\bidi@looprepeat@depth\endcsname}
5749
5750 \newcount\bidi@looprepeat@depth
5751 \let\endlooprepeat\relax \def\bidi@csprotect{}
5752 % Trace switches may later be defined by PAC_utils
5753 \let\bidi@looprepeat@traceinit\relax \let\bidi@looprepeat@traceexit\relax
5754
5755 % Main repeatloop macro
5756 % - go to next level and allocate unique counter/toks if this is the
5757 %   first time we visit this level
5758 % - setup: gather bounds and termination conditions

```



```

5759 % - scoop up body in token list; after the assignment define and
5760 %   execute body
5761 \def\looprepeat#1\doloopbody{\bidi@looprepeat@traceinit % exit in \breakrepeatloop
5762   \advance\bidi@looprepeat@depth\@ne\relax
5763   \bidi@looprepeat@csargromannumeral\ifx{\bidi@looprepeat@count}\relax
5764     \bidi@looprepeat@csargromannumeral{\csname newcount\expandafter\endcsname}{\bidi@looprepea
5765     \bidi@looprepeat@csargromannumeral{\csname newtoks\expandafter\endcsname}{\bidi@looprepea
5766     \bidi@looprepeat@csargromannumeral{\csname newtoks\expandafter\endcsname}{\bidi@looprepea
5767     \bidi@looprepeat@csargromannumeral{\csname newtoks\expandafter\endcsname}{\bidi@looprepea
5768   \fi \bidi@looprepeat@zero \def\bidi@looprepeat@sign{}\def\bidi@looprepeat@comp{>}\bidi@loo
5769   \edef\bidi@looprepeat@tmp
5770     {\def\bidi@looprepeat@csargromannumeral\noexpand{\bidi@looprepeat@looprepeat}{\bidi@loop
5771   \afterassignment\bidi@looprepeat@dxbdy\bidi@looprepeat@csromannumeral{\bidi@looprepeat@tok
5772
5773 % Define and execute loop body
5774 % This is done with an \edef to construct the actual sequence
5775 \def\bidi@looprepeat@dxbdy{\bidi@looprepeat@csargromannumeral\edef{\bidi@looprepeat@body}{%
5776   \bidi@looprepeat@csargromannumeral\the{\bidi@looprepeat@wtest}%
5777   \noexpand\the\bidi@looprepeat@csargromannumeral\noexpand{\bidi@looprepeat@toks}%
5778   \bidi@looprepeat@csargromannumeral\the{\bidi@looprepeat@utest}%
5779   \global\bidi@looprepeat@csargromannumeral\advance{\bidi@looprepeat@count} by \bidi@loopre
5780   \noexpand\endlooprepeat
5781   \bidi@looprepeat@csargromannumeral\noexpand{\bidi@looprepeat@looprepeat}}%
5782   \bidi@looprepeat@csromannumeral{\bidi@looprepeat@body}\ignorespaces}
5783
5784 % Stop test
5785 %% In order to stop, issue a
5786 % \breaklooprepeat which scoops up the rest of the body and exits
5787 \def\breaklooprepeat#1\endlooprepeat{\bidi@looprepeat@zero\bidi@looprepeat@csargromannumeral
5788   \advance\bidi@looprepeat@depth\m@ne \bidi@looprepeat@traceexit
5789 }
5790
5791
5792 % Setup
5793 % gather bounds and termination conditions
5794 \def\bidi@looprepeat@setup#1{%
5795   \begingroup
5796     \def\forvariable##1{%
5797       \edef\bidi@looprepeat@tmp{%
5798         \global\let\bidi@looprepeat@csarg\noexpand{##1}\bidi@looprepeat@csromannumeral{\bidi@
5799         \bidi@looprepeat@tmp}%
5800       \def\fromvalue##1{\bidi@looprepeat@csargromannumeral\global{\bidi@looprepeat@count}##1\ig
5801       \def\tovalue##1{%
5802         \edef\bidi@looprepeat@tmp{\global\bidi@looprepeat@csargromannumeral\noexpand{\bidi@loop
5803         {\bidi@looprepeat@csargromannumeral\the{\bidi@looprepeat@wtest}%
5804         \noexpand\ifnum\bidi@looprepeat@csargromannumeral\noexpand{\bidi@looprepeat@count}\bi
5805         \noexpand\expandafter \noexpand\breaklooprepeat
5806         \noexpand\fi}\ignorespaces}%
5807       \bidi@looprepeat@tmp}%
5808     \def\downtovalue##1{%
5809       \gdef\bidi@looprepeat@sign{-}\gdef\bidi@looprepeat@comp{<}\tovalue{##1}\ignorespaces}%
5810     \def\bystep##1{\ifnum##1<0 \bidi@error{LOOPREPEAT: increment has to be a positive value}
5811       \bidi@looprepeat@csargromannumeral\gdef{\bidi@looprepeat@inc}{-##1}\else
5812       \bidi@looprepeat@csargromannumeral\gdef{\bidi@looprepeat@inc}{##1}\fi\ignoresp

```



```

5813 \def\untilcondition##1{%
5814 \edef\bidil@looprepeat@tmp{\global\bidil@looprepeat@csargromannumeral\noexpand{bidil@loop
5815 {noexpand##1\relax
5816 \noexpand\expandafter \noexpand\breaklooprepeat \noexpand\fi}\ignorespaces}%
5817 \bidil@looprepeat@tmp}%
5818 \def\whilecondition##1{%
5819 \edef\bidil@looprepeat@tmp{\global\bidil@looprepeat@csargromannumeral\noexpand{bidil@loop
5820 {noexpand##1\relax \noexpand\else
5821 \noexpand\expandafter \noexpand\breaklooprepeat \noexpand\fi}\ignorespaces}%
5822 \bidil@looprepeat@tmp}%
5823 \fromvalue{\@ne}\bystep{\@ne}#1%
5824 \endgroup}
5825 \def\bidil@looprepeat@zero
5826 {\bidil@looprepeat@csromannumeral{bidil@looprepeat@toks}{}}\bidil@looprepeat@csromannumeral{b
5827 \bidil@looprepeat@csargromannumeral\def{bidil@looprepeat@body}{}}
5828
5829 %\tracingmacros2
5830 %\newcount\tmpcount % used in some examples below
5831
5832 %\looprepeat \forvariable{i}
5833 % \bystep{2}
5834 % \doloopbody {%
5835 % \ifnum i=13 \expandafter\breaklooprepeat \fi
5836 % \number{i} } %
5837 %}%
5838
5839 %\looprepeat \forvariable{iii}
5840 % \tovalue{8}
5841 % \doloopbody {}
5842 %After loop: \number{iii}%
5843
5844 %\looprepeat \forvariable{i}
5845 % \fromvalue{10}
5846 % \bystep{2}
5847 % \downtovalue{0}
5848 % \doloopbody {\number{i} }
5849
5850 %\looprepeat \forvariable{x} \whilecondition{\ifnum x<7}
5851 % \doloopbody {\number{x} }
5852
5853 %\looprepeat \tovalue{3} \doloopbody {Hello world! }
5854
5855 %\looprepeat \forvariable{j}
5856 % \untilcondition{\tmpcount\j \divide\tmpcount by 37 \noexpand\ifnum\tmpcount=1}
5857 % \doloopbody {\number{j} }
5858
5859 %\looprepeat \forvariable{i} \bystep{2} \tovalue{10} \doloopbody
5860 % {\looprepeat \forvariable{j} \fromvalue{i} \bystep{3} \tovalue{18}
5861 % \doloopbody {(\number{i}.\number{j}) }
5862 % }
5863
5864 % infinite loop
5865 %\looprepeat \doloopbody {}
5866

```



```

5867 \renewcommand{\InputIfFileExists}[2]{%
5868   \begingroup\expandafter\expandafter\expandafter\endgroup
5869   \expandafter\ifx\csname #1-@bidi@alias\endcsname\relax
5870     \expandafter\@secondoftwo
5871   \else
5872     \bidi@replacefile@msg{\csname #1-@bidi@alias\endcsname}{#1}%
5873     \expandafter\@firstoftwo
5874   \fi
5875   {%
5876     \expandafter\InputIfFileExists\expandafter{\csname
5877       #1-@bidi@alias\endcsname}{#2}%
5878   }%
5879   {\IfFileExists{#1}{%
5880     \bidi@load@hook{before}{#1}%
5881     #2\@addtofilelist{#1}%
5882     \@input \@file@und
5883     \bidi@load@hook{after}{#1}%
5884   }%
5885 }
5886
5887 \newcommand*{\bidi@@loadwithoptions}{%
5888 \newcommand*{\bidi@loadwithoptions}{%
5889 \let\bidi@loadwithoptions\@loadwithoptions
5890
5891 \renewcommand*{\@loadwithoptions}[3]{%
5892   \begingroup\expandafter\expandafter\expandafter\endgroup
5893   \expandafter\ifx\csname #3.#1-@bidi@aliasname\endcsname\relax
5894     \def\bidi@@loadwithoptions{\bidi@loadwithoptions{#1}{#2}{#3}}%
5895   \else
5896     \bidi@replacefile@msg{\csname #3.#1-@bidi@aliasname\endcsname.#1}{#3.#1}%
5897     \def\bidi@@loadwithoptions{%
5898       \@loadwithoptions{#1}{#2}{\csname #3.#1-@bidi@aliasname\endcsname}%
5899     }%
5900   \fi
5901   \bidi@@loadwithoptions
5902 }
5903
5904 \newcommand*{\bidi@onefilewithoptions}{%
5905 \let\bidi@onefilewithoptions\@onefilewithoptions
5906 \def\bidi@onefilewithoptions#1[#2][#3]#4{%
5907   \begingroup\expandafter\expandafter\expandafter\endgroup
5908   \expandafter\ifx\csname #1.#4-@bidi@aliasname\endcsname\relax
5909     \def\bidi@@onefilewithoptions{\bidi@onefilewithoptions{#1}}%
5910   \else
5911     \bidi@replacefile@msg{\csname #1.#4-@bidi@aliasname\endcsname.#4}{#1.#4}%
5912     \edef\bidi@@onefilewithoptions{%
5913       \noexpand\@onefilewithoptions{\csname #1.#4-@bidi@aliasname\endcsname}}%
5914   \fi
5915   \bidi@@onefilewithoptions[#{#2}][#{#3}]{#4}%
5916   \bidi@load@hook{lateafter}{#1.#4}%
5917 }
5918
5919 \newcommand*{\bidi@ReplaceInput}[2]{%
5920   \expandafter\edef\csname #1-@bidi@alias\endcsname{#2}%

```



```

5921 }
5922
5923 \newcommand*\bidi@UnReplaceInput}[1]{%
5924   \ifcsname #1-@bidi@alias\endcsname
5925     \expandafter\let\csname #1-@bidi@alias\endcsname\relax
5926   \fi
5927 }
5928
5929 \newcommand*\@bidi@replacefilewithext}[3]{%
5930   \expandafter\edef\csname #1.#3-@bidi@aliasname\endcsname{#2}%
5931 }
5932 \newcommand*\bidi@ReplacePackage}[2]{%
5933   \@bidi@replacefilewithext{#1}{#2}\@pkgextension
5934 }
5935 \newcommand*\bidi@ReplaceClass}[2]{%
5936   \@bidi@replacefilewithext{#1}{#2}\@clsextension
5937 }
5938 \newcommand*\@bidi@unreplacefilewithext}[2]{%
5939   \ifcsname #1.#2-@bidi@aliasname\endcsname
5940     \expandafter\let\csname #1.#2-@bidi@aliasname\endcsname\relax
5941   \fi
5942 }
5943 \newcommand*\bidi@UnReplacePackage}[1]{%
5944   \@bidi@unreplacefilewithext{#1}\@pkgextension
5945 }
5946 \newcommand*\bidi@UnReplaceClass}[1]{%
5947   \@bidi@unreplacefilewithext{#1}\@clsextension
5948 }
5949 \newcommand*\bidi@replacefile@msg}[2]{%
5950   \PackageInfo{biditools}{inputing `#1' instead of `#2'}%
5951 }
5952
5953 \newcommand*\bidi@load@hook}[2]{%
5954   \@ifundefined{#2-@#1}{-%
5955     \@nameuse{#2-@#1}%
5956     \expandafter\let\csname #2-@#1\endcsname=\relax}}
5957 \newcommand*\bidi@set@load@hook}[2]{%
5958   \@ifundefined{#2-@#1}{\@namedef{#2-@#1}{}}{-%
5959     \expandafter\g@addto@macro\csname #2-@#1\endcsname}
5960 \newcommand*\bidi@BeforeFile}{\bidi@set@load@hook{before}}
5961 \newcommand*\bidi@AfterFile}{\bidi@set@load@hook{after}}
5962 \newcommand*\bidi@BeforeClass}[1]{%
5963   \bidi@set@load@hook{before}{#1.\@clsextension}}
5964 \newcommand*\bidi@AfterClass}{%
5965   \ifstar {\@s@bidi@AfterClass}{%
5966     \@ifnextchar +\@@bidi@AfterClass{%
5967       \@ifnextchar !\@@@bidi@AfterClass\@bidi@AfterClass
5968     }%
5969   }%
5970 }
5971
5972 \newcommand*\@@@bidi@AfterClass}[2]{%
5973   \begingroup\ifx\csname #2.\@clsextension-h@k\endcsname\relax
5974     \aftergroup\@s@bidi@AfterClass

```



```

5975 \else
5976 \aftergroup\@bidi@AfterAtEndOfClass
5977 \fi
5978 \endgroup{#2}%
5979 }
5980
5981 \newcommand*{\@bidi@AfterAtEndOfClass}[1]{%
5982 \bidi@set@load@hook{lateafter}{#1.\@clsextension}}
5983 \newcommand*{\@@bidi@AfterClass}[2]{%
5984 \begingroup
5985 \expandafter\ifx\csname #2.\@clsextension-h@@k\endcsname\relax
5986 \aftergroup\@s@bidi@AfterClass
5987 \else
5988 \aftergroup\@bidi@AfterClass
5989 \fi
5990 \endgroup{#2}%
5991 }
5992
5993 \newcommand*{\@bidi@AfterClass}[1]{%
5994 \bidi@set@load@hook{after}{#1.\@clsextension}}
5995 \newcommand*{\@s@bidi@AfterClass}[1]{%
5996 \begingroup
5997 \@ifclassloaded{#1}{%
5998 \aftergroup\@secondoftwo
5999 }{%
6000 \aftergroup\@bidi@AfterClass
6001 }%
6002 \endgroup
6003 {#1}%
6004 }
6005
6006
6007 \newcommand*{\@bidi@BeforePackage}[1]{%
6008 \bidi@set@load@hook{before}{#1.\@pkgextension}}
6009 \newcommand*{\@bidi@AfterPackage}{%
6010 \@ifstar {\@s@bidi@AfterPackage}{%
6011 \@ifnextchar +\@@bidi@AfterPackage{%
6012 \@ifnextchar !\@@@bidi@AfterPackage\@bidi@AfterPackage
6013 }%
6014 }%
6015 }
6016 \newcommand*{\@@@bidi@AfterPackage}[2]{%
6017 \begingroup\ifx\csname #2.\@pkgextension-h@@k\endcsname\relax
6018 \aftergroup\@s@bidi@AfterPackage
6019 \else
6020 \aftergroup\@bidi@AfterAtEndOfPackage
6021 \fi
6022 \endgroup{#2}%
6023 }
6024 \newcommand*{\@bidi@AfterAtEndOfPackage}[1]{%
6025 \bidi@set@load@hook{lateafter}{#1.\@pkgextension}}
6026 \newcommand*{\@@bidi@AfterPackage}[2]{%
6027 \begingroup
6028 \expandafter\ifx\csname #2.\@pkgextension-h@@k\endcsname\relax

```



```

6029     \aftergroup\@s@bidi@AfterPackage
6030     \else
6031         \aftergroup\@bidi@AfterPackage
6032     \fi
6033 \endgroup{#2}%
6034 }
6035 \newcommand*{\@bidi@AfterPackage}[1]{%
6036     \bidi@set@load@hook{after}{#1.\@pkgextension}}
6037 \newcommand*{\@s@bidi@AfterPackage}[1]{%
6038     \begingroup
6039         \ifpackageloaded{#1}{%
6040             \aftergroup\@secondoftwo
6041         }{%
6042             \aftergroup\@bidi@AfterPackage
6043         }%
6044     \endgroup
6045     {#1}%
6046 }
6047
6048 \newcommand*{\bidi@excludedpackages}{}
6049 \let\bidi@excludedpackages\@empty
6050 \newcommand*{\bidi@saves@RequirePackage}{}
6051 \newcommand*{\bidi@PreventPackageFromLoading}{%
6052     \@ifstar{\@bidi@PreventPackageFromLoading\PackageInfo}%
6053             {\@bidi@PreventPackageFromLoading\PackageWarning}%
6054 }
6055 \newcommand*{\@bidi@PreventPackageFromLoading}[1]{%
6056     \@ifnextchar [%]
6057         {\@bidi@PreventPackageFromLoading#1}{\@bidi@PreventPackageFromLoading#1 []}%
6058 }
6059 \newcommand*{\@@bidi@PreventPackageFromLoading}{%
6060
6061 \def\@@bidi@PreventPackageFromLoading#1[#2]#3{%
6062     \edef\reserved@b{\zap@space#3 \@empty}%
6063     \ifx \reserved@b\@empty
6064         #1{biditools}{%
6065             \string\bidi@PreventPackageFromLoading\space with empty packages\MessageBreak
6066             argument ignored%
6067         }%
6068     \else
6069         \ifx\bidi@excludedpackages\@empty
6070             \let\bidi@saves@RequirePackage\RequirePackage
6071             \let\RequirePackage\bidi@RequirePackage
6072             \def\reserved@a##1##{%
6073                 \@latex@error
6074                 {\noexpand \usepackage before \string\documentclass}%
6075                 {\noexpand \usepackage may only appear in the document
6076                 preamble, i.e.,\MessageBreak
6077                 between \noexpand\documentclass and
6078                 \string\begin{document}.}%
6079                 \@gobble}%
6080             \ifx\reserved@a\usepackage\else
6081                 \ifx\usepackage\bidi@saves@RequirePackage\else
6082                     \PackageWarning{biditools}{%

```



```

6083         Maybe serious problem: unexpected definition of\MessageBreak
6084         \string\usepackage
6085     }%
6086 \fi
6087 \let\usepackage\RequirePackage
6088 \fi
6089 \fi
6090 \expandafter\@for \expandafter\reserved@a\expandafter:\expandafter=%
6091 \reserved@b\do {%
6092     \ifx\reserved@a\@empty
6093         #1{biditools}{%
6094             empty package argument for
6095             \string\bid@PreventPackageFromLoading\MessageBreak
6096             ignored%
6097         }%
6098     \else
6099         \expandafter\@ifpackageloaded\expandafter{\reserved@a}{%
6100             #1{biditools}{%
6101                 package '\reserved@a' already loaded.\MessageBreak
6102                 Cannot prevent it from being loaded%
6103             }%
6104         }{%
6105             \edef\bid@excludedpackages{\bid@excludedpackages,%
6106                 \reserved@a}%
6107             \if\relax\detokenize{#2}\relax\else
6108                 \@ifundefined{bid@exclude@package@\reserved@a @do}{%
6109                     \@namedef{bid@exclude@package@\reserved@a @do}{}%
6110                 }{%
6111                     \expandafter\def
6112                     \csname bid@exclude@package@\reserved@a
6113                         @do\expandafter\expandafter\expandafter\endcsname
6114                     \expandafter\expandafter\expandafter{%
6115                         \csname bid@exclude@package@\reserved@a @do\endcsname
6116                         #2%
6117                     }%
6118                 \fi
6119             }%
6120         \fi
6121     }%
6122     \ifx\bid@excludedpackages\@empty
6123         \bid@ResetPreventPackageFromLoading
6124     \fi
6125 \fi
6126 }
6127
6128 \@onlypreamble\bid@PreventPackageFromLoading
6129 \newcommand*{\bid@ResetPreventPackageFromLoading}{%
6130     \let\bid@excludedpackages\@empty
6131     \ifx\RequirePackage\bid@RequirePackage
6132         \ifx\usepackage\RequirePackage
6133             \let\usepackage\bid@saved@RequirePackage
6134         \fi
6135     \let\RequirePackage\bid@saved@RequirePackage
6136 \fi

```





```

6137 }
6138 \@onlypreamble\bidiresetpreventpackagefromloading
6139 \newcommand*{\bidistorepreventpackagefromloading}[1]{%
6140   \let#1\bidiecludedpackages
6141 }
6142 \@onlypreamble\bidistorepreventpackagefromloading
6143 \newcommand*{\bidipunpreventpackagefromloading}{%
6144   \ifstar {\@tempwattrue\bidipunpreventpackagefromloading}%
6145           {\@tempwafalse\bidipunpreventpackagefromloading}%
6146 }
6147
6148 \newcommand*{\@bidipunpreventpackagefromloading}[1]{%
6149   \edef\reservedb{\zap@space#1 \@empty}%
6150   \if@tempwa
6151     \for\reserveda:=\reservedb\do {%
6152       \ifx\reserveda\@empty \else
6153         \ifcsname bidi@exclude@package@\reserveda @do\endcsname
6154           \expandafter\let
6155           \csname bidi@exclude@package@\reserveda @do\endcsname
6156           \undefined
6157         \fi
6158       \fi
6159     }%
6160   \fi
6161   \ifcsname bidi@excludedpackages\endcsname
6162     \let\reserveda\bidiecludedpackages
6163     \let\bidiecludedpackages\@empty
6164     \expandafter\@for\expandafter\reservedc
6165     \expandafter:\expandafter=\reserveda
6166     \do{%
6167       \ifx\reservedc\@empty\else
6168         \@expandtwoargs\in{,\reservedc,}{,\reservedb,}%
6169         \ifin@
6170         \else
6171           \edef\bidiecludedpackages{%
6172             \bidiecludedpackages,\reservedc
6173           }%
6174         \fi
6175       \fi
6176     }%
6177   \ifx\bidiecludedpackages\@empty\bidiresetpreventpackagefromloading\fi
6178 \fi
6179 }
6180
6181
6182 \newcommand*{\bidirequirepackage}[2][ ]{%
6183   \let\reservedc\@empty
6184   \let\reservedd\@empty
6185   \edef\reservedb{\zap@space#2 \@empty}%
6186   \expandafter\@for\expandafter\reservedb\expandafter:\expandafter=\reservedb
6187   \do {%
6188     \begingroup
6189     \@tempwattrue
6190     \for\reserveda:=\bidiecludedpackages\do {%

```



```

6191     \ifx\reserved@a\reserved@b
6192     \@tempswafalse
6193     \fi
6194 }%
6195 \if@tempswa
6196   \xdef\reserved@c{\reserved@c,\reserved@b}%
6197 \else
6198   \ifx\reserved@b\@empty\else
6199     \PackageInfo{biditools}{Excluding package `\'reserved@b\'MessageBreak
6200       from loading}%
6201     \@ifundefined{bidi@exclude@package@\reserved@b @do}{%
6202       }{%
6203         \expandafter\g@addto@macro\expandafter\reserved@d
6204         \csname bidi@exclude@package@\reserved@b @do\endcsname
6205       }%
6206     \fi
6207   \fi
6208 \endgroup
6209 }%
6210 \ifx\reserved@c\@empty
6211   \let\reserved@a\bidi@gobbleopt
6212 \else
6213   \edef\reserved@a{\noexpand\bidi@saved@RequirePackage[#1]{%
6214     \expandafter\@gobble\reserved@c\@empty}}%
6215   \fi
6216   \expandafter\reserved@d
6217   \reserved@a
6218 }
6219
6220 \newcommand{\bidi@gobbleopt}[1][]{%
6221 \AtEndDocument{%
6222   \let\bidi@saved@checkend=\@checkend
6223   \renewcommand*{\@checkend}[1]{%
6224     \def\reserved@a{#1}\def\reserved@b{document}%
6225     \bidi@saved@checkend{#1}%
6226     \ifx\reserved@a\reserved@b
6227       \let\bidi@saved@clearpage=\clearpage
6228       \renewcommand*{\clearpage}{\bidi@saved@clearpage
6229         \bidi@hook@bcma
6230         \bidi@restore@newpage
6231         \let\clearpage=\bidi@saved@clearpage}%
6232       \fi%
6233       \let\bidi@saved@dofilelist\@dofilelist
6234       \def\@dofilelist{%
6235         \bidi@hook@acma
6236         \let\@dofilelist\bidi@saved@dofilelist
6237         \bidi@saved@dofilelist
6238       }%
6239     }%
6240 }
6241
6242
6243 \newcommand*{\bidi@saved@checkend}{%
6244 \newcommand*{\bidi@saved@dofilelist}{%

```



```

6245 \newcommand*{\bidi@redefine@newpage}{%
6246   \let\bidi@saved@newpage\newpage
6247   \def\bidi@restore@newpage{%
6248     \renewcommand*{\newpage}{%
6249       \PackageWarningNoLine{%
6250         biditools%
6251       }{%
6252         \string\newpage\space at main aux file!\MessageBreak
6253         You have output material at the main aux file.\MessageBreak
6254         Note, that the \string\bidi@BeforeClosingMainAux\space commands\MessageBreak
6255         are processed before the output from aux file%
6256       }%
6257       \let\newpage\bidi@saved@newpage
6258       \newpage
6259     }%
6260   }%
6261   \renewcommand*{\newpage}{%
6262     \PackageError{%
6263       biditools%
6264     }{%
6265       \string\newpage\space at \string\bidi@BeforeClosingMainAux
6266     }{%
6267       You should never use \string\newpage\space or
6268       \string\clear(double)page or other output material at the\MessageBreak
6269       argument of \string\bidi@BeforeClosingMainAux!\MessageBreak
6270       If you'll continue, the \string\newpage\space will be ignored to
6271       avoid corruption of\MessageBreak
6272       every prior use of \string\bidi@BeforeClosingMainAux.
6273     }%
6274   }%
6275 }
6276
6277 \newcommand*{\bidi@restore@newpage}{}
6278 \newcommand*{\bidi@hook@bcma}{}
6279 \newcommand*{\bidi@hook@acma}{}
6280 \newcommand*{\bidi@BeforeClosingMainAux}{%
6281   \ifx\bidi@hook@bcma\@empty
6282     \gdef\bidi@hook@bcma{%
6283       \renewcommand*{\bidi@BeforeClosingMainAux}[1]{####1}%
6284       \let\protected@write\bidi@protected@immediate@write
6285       \bidi@redefine@newpage
6286     }%
6287   \fi
6288   \g@addto@macro\bidi@hook@bcma%
6289 }
6290
6291 \newcommand*{\bidi@AfterReadingMainAux}{%
6292   \ifx\bidi@hook@acma\@empty
6293     \gdef\bidi@hook@acma{%
6294       \renewcommand*{\bidi@AfterReadingMainAux}[1]{####1}%
6295       \let\protected@write\bidi@protected@immediate@write
6296     }%
6297   \fi
6298   \g@addto@macro\bidi@hook@acma%

```



```

6299 }
6300
6301 \long\def\bidiprotected@immediate@write#1#2#3{%
6302   \begingroup
6303     #2%
6304     \let\protect\@unexpandable@protect
6305     \edef\reserved@a{\immediate\write#1{#3}}%
6306     \reserved@a
6307   \endgroup
6308   \if@nobreak\ifvmode\nobreak\fi\fi
6309 }
6310
6311 \def\bidipatch@counter{0}%
6312 \if@bidicsundef{numexpr}{%
6313   \def\bidipatch@stepcounter{%
6314     \begingroup
6315       \count@\bidipatch@counter\relax
6316       \advance\count@\@ne\relax
6317     \edef\x{\endgroup
6318       \noexpand\def\noexpand\bidipatch@counter{\the\count@}%
6319     }%
6320     \x
6321   }%
6322 }{%
6323   \def\bidipatch@stepcounter{%
6324     \edef\bidipatch@counter{%
6325       \the\numexpr\bidipatch@counter+\@ne\relax
6326     }%
6327   }%
6328 }
6329 \def\bidipatch@list{}
6330 \def\bidipatch@Add{%
6331   \bidipatch@list
6332 }
6333 \def\bidipatch@AfterPackage#1{%
6334   \@ifpackageloaded{#1}{%
6335     \@firstofone
6336   }{%
6337     \bidipatch@AfterPackage{#1}%
6338   }%
6339 }
6340 \def\@bidipatch@AfterPackage#1{%
6341   \edef\bidipatch@temp{#1}%
6342   \bidipatch@stepcounter
6343   \expandafter\bidipatch@@AfterPackage
6344   \csname @bidipatch@\bidipatch@counter\expandafter\endcsname{%
6345     \bidipatch@temp
6346   }%
6347 }
6348 \def\bidipatch@@AfterPackage#1#2#3{%
6349   \begingroup
6350     \toks@{#3}%
6351     \xdef\bidipatch@gtemp{%
6352       \noexpand\@ifpackageloaded{#2}{%

```



```

6353         \noexpand\let\noexpand#1\noexpand\relax
6354         \the\toks@
6355     }{}%
6356 }%
6357 \endgroup
6358 \let#1\bidipatch@gtemp
6359 \bidipatch@Add#1%
6360 \bidipatch@try{\bidipatch@AfterPackage}{#2}#1%
6361 }
6362
6363 \def\bidipatch@try#1#2#3{%
6364     \if@bidicsundef{#1}{-}{%
6365         \csname #1\endcsname{#2}{#3}%
6366     }%
6367 }
6368
6369 \AtBeginDocument{\bidipatch@list}
6370
6371 \bidipatch@AtEndPreamble{\bidipatch@list}%
6372
6373 \bidipatch@AfterEndPreamble{%
6374     \let\bidipatch@OrgIfPackageLoaded\ifpackageloaded
6375     \let\bidipatch@OrgIfPackageLater\ifpackagelater
6376     \let\bidipatch@OrgIfClassLoaded\ifclassloaded
6377     \let\bidipatch@OrgIfClassLater\ifclasslater
6378     \bidipatch@list
6379     \let\bidipatch@OrgIfPackageLoaded\bidipatch@OrgIfPackageLoaded
6380     \let\bidipatch@OrgIfPackageLater\bidipatch@OrgIfPackageLater
6381     \let\bidipatch@OrgIfClassLoaded\bidipatch@OrgIfClassLoaded
6382     \let\bidipatch@OrgIfClassLater\bidipatch@OrgIfClassLater
6383 }%

```

## 45 File `bidituftefloat.sty`

```

6384 \NeedsTeXFormat{LaTeX2e}
6385 \ProvidesPackage{bidituftefloat}[2017/05/19 v0.2
6386 bidi implementation of tufte float]
6387 \RequirePackage{xifthen}
6388 \newcommand{\@bidituftefloat@pkgname}{bidituftefloat}
6389 \newcommand{\bidituftefloatError}[2]{\PackageError{\@bidituftefloat@pkgname}{#1}{#2}}
6390 \newcommand{\bidituftefloatDebugInfoNL}[1]{\ifthenelse{\boolean{\@bidituftefloat@debug}}{\bid
6391 \newcommand{\bidituftefloatInfoNL}[1]{\PackageInfo{\@bidituftefloat@pkgname}{#1@gobble}}
6392 \newboolean{\@bidituftefloat@reversegeometry}
6393 \setboolean{\@bidituftefloat@reversegeometry}{false}
6394 \DeclareOption{reversegeometry}{\setboolean{\@bidituftefloat@reversegeometry}{true}}
6395 \newboolean{\@bidituftefloat@a4paper}
6396 \DeclareOption{a4paper}{\setboolean{\@bidituftefloat@a4paper}{true}}
6397 \newboolean{\@bidituftefloat@b5paper}
6398 \DeclareOption{b5paper}{\setboolean{\@bidituftefloat@b5paper}{true}}
6399 \newboolean{\@bidituftefloat@symmetric}
6400 \newboolean{\@bidituftefloat@twoside}
6401 \DeclareOption{twoside}{%
6402 \@twosidefalse \mparswitchtrue%
6403 \setboolean{\@bidituftefloat@twoside}{true}}%

```



```

6404 \setboolean{@biditytfloat@symmetric}{true}%
6405 }
6406 \DeclareOption{oneside}{%
6407 \@twosidefalse \mparswitchfalse%
6408 \setboolean{@biditytfloat@twoside}{false}%
6409 \setboolean{@biditytfloat@symmetric}{false}%
6410 }
6411 \@ifclassloaded{book}{\ExecuteOptions{twoside}}{}
6412 \newboolean{@biditytfloat@debug}
6413 \newcommand*{\@biditytfloat@caption@justification}{\@biditytfloat@justification@autodetect}
6414 \ProcessOptions
6415 %% Globally sets the length
6416 \newcommand*{\gsetlength}[2]{%
6417 \setlength{#1}{#2}%
6418 \global#1=#1\relax%
6419 }
6420
6421 %% Set the font sizes and baselines to match biditytfloat's books
6422 \renewcommand\normalsize{%
6423 \setfontsize\normalsize\@xpt{14}%
6424 \abovedisplayskip 10\p@ \@plus2\p@ \@minus5\p@
6425 \abovedisplayshortskip \z@ \@plus3\p@
6426 \belowdisplayshortskip 6\p@ \@plus3\p@ \@minus3\p@
6427 \belowdisplayskip \abovedisplayskip
6428 \let\@listi\@listI}
6429 \normalbaselineskip=14pt
6430 \normalsize
6431 \renewcommand\footnotesize{%
6432 \setfontsize\footnotesize\@viipt{10}%
6433 \abovedisplayskip 6\p@ \@plus2\p@ \@minus4\p@
6434 \abovedisplayshortskip \z@ \@plus\p@
6435 \belowdisplayshortskip 3\p@ \@plus\p@ \@minus2\p@
6436 \def\@listi{\leftmargin\leftmarginI
6437 \topsep 3\p@ \@plus\p@ \@minus\p@
6438 \parsep 2\p@ \@plus\p@ \@minus\p@
6439 \itemsep \parsep}%
6440 \belowdisplayskip \abovedisplayskip
6441 }
6442 %% Paragraph indentation and separation for marginal text
6443 \newcommand{\@biditytfloat@margin@par}{%
6444 \setlength{\RaggedRightParindent}{0.5pc}%
6445 \setlength{\JustifyingParindent}{0.5pc}%
6446 \setlength{\parindent}{0.5pc}%
6447 \setlength{\parskip}{0pt}%
6448 }
6449 \RequirePackage{ragged2e}
6450 \ifthenelse{\boolean{@biditytfloat@reversegeometry}}{%
6451 \RequirePackage[letterpaper,right=1in,top=1in,headsep=2\baselineskip,textwidth=26pc,marginpa
6452 \ifthenelse{\boolean{@biditytfloat@a4paper}}{
6453 {\geometry{a4paper,right=24.8mm,top=27.4mm,headsep=2\baselineskip,textwidth=107mm,marginpa
6454 }
6455 \ifthenelse{\boolean{@biditytfloat@b5paper}}{
6456 {\geometry{paperwidth=176mm,paperheight=250mm,right=14.66mm,top=13.88mm,textwidth=102.66mm
6457 }{}%

```



```

6458 \RequirePackage[letterpaper,left=1in,top=1in,headsep=2\baselineskip,textwidth=26pc,marginpar
6459 \ifthenelse{\boolean{@bidituftefloat@a4paper}}
6460 {\geometry{a4paper,left=24.8mm,top=27.4mm,headsep=2\baselineskip,textwidth=107mm,marginpar
6461 {}
6462 \ifthenelse{\boolean{@bidituftefloat@b5paper}}
6463 {\geometry{paperwidth=176mm,paperheight=250mm,left=14.66mm,top=13.88mm,textwidth=102.66mm,
6464 {}
6465 \ifthenelse{\boolean{@bidituftefloat@symmetric}}
6466 {}
6467 {\geometry{asymmetric}}}% forces internal LaTeX `twoside'
6468 \setlength\marginparpush{10pt}
6469 %% Font for margin items
6470 \newcommand{\@bidituftefloat@marginfont}{\normalfont\footnotesize}
6471 \newcommand*{\@bidituftefloat@caption@font}{\@bidituftefloat@marginfont}
6472 \newcommand*{\setcaptionfont}[1]{\renewcommand*{\@bidituftefloat@caption@font}{#1}}
6473 \newcommand{\@bidituftefloat@justification}{\justifying}%
6474 \setlength\abovedisplayskip{6pt plus 2pt minus 4pt}
6475 \setlength\belowdisplayskip{6pt plus 2pt minus 4pt}
6476 \newboolean{@bidituftefloat@changepage}
6477 \IfFileExists{changepage.sty}{%
6478 \bidituftefloatDebugInfoNL{Found changepage.sty}
6479 \RequirePackage[strict]{changepage}
6480 \setboolean{@bidituftefloat@changepage}{true}
6481 }{%
6482 \bidituftefloatDebugInfoNL{Found chngpage.sty}
6483 \RequirePackage[strict]{chngpage}
6484 \setboolean{@bidituftefloat@changepage}{false}
6485 }
6486 \newboolean{@bidituftefloat@odd@page}
6487 \setboolean{@bidituftefloat@odd@page}{true}
6488 \newcommand*{\@bidituftefloat@checkoddpage}{%
6489 \checkoddpage%
6490 \ifthenelse{\boolean{@bidituftefloat@changepage}}{%
6491 \ifoddpage%
6492 \setboolean{@bidituftefloat@odd@page}{true}%
6493 \else%
6494 \setboolean{@bidituftefloat@odd@page}{false}%
6495 \fi%
6496 }{%
6497 \ifcpoddpage%
6498 \setboolean{@bidituftefloat@odd@page}{true}%
6499 \else%
6500 \setboolean{@bidituftefloat@odd@page}{false}%
6501 \fi%
6502 }%
6503 }
6504 \newlength{\@bidituftefloat@overhang}% used by the fullwidth environment and the running head
6505 \newlength{\@bidituftefloat@fullwidth}
6506 \newlength{\@bidituftefloat@caption@fill}
6507 \newcommand{\@bidituftefloatRecalculate}{%
6508 \setlength{\@bidituftefloat@overhang}{\marginparwidth}
6509 \addtolength{\@bidituftefloat@overhang}{\marginparsep}
6510
6511 \setlength{\@bidituftefloat@fullwidth}{\textwidth}

```



```

6512 \addtolength{\@biditytfloat@fullwidth}{\marginparsep}
6513 \addtolength{\@biditytfloat@fullwidth}{\marginparwidth}
6514
6515 \setlength{\@biditytfloat@caption@fill}{\textwidth}
6516 \addtolength{\@biditytfloat@caption@fill}{\marginparsep}
6517 }
6518 \AtBeginDocument{\biditytfloatRecalculate}
6519 \RequirePackage{optparams}% provides multiple optional arguments for commands
6520 \RequirePackage{placeins}
6521 \newsavebox{\@biditytfloat@margin@floatbox}
6522 \newenvironment{@biditytfloat@margin@float}[2][-1.2ex]%
6523 {\FloatBarrier% process all floats before this point so the figure/table numbers stay in o
6524 \begin{lrbox}{\@biditytfloat@margin@floatbox}%
6525 \begin{minipage}{\marginparwidth}%
6526 \@biditytfloat@caption@font%
6527 \def\@capttype{#2}%
6528 \hbox{\vspace*{#1}%
6529 \@biditytfloat@caption@justification%
6530 \@biditytfloat@margin@par%
6531 \noindent%
6532 }
6533 {\end{minipage}%
6534 \end{lrbox}%
6535 \marginpar{\usebox{\@biditytfloat@margin@floatbox}}}%
6536 }
6537 \newenvironment{marginfigure}[1][-1.2ex]%
6538 {\begin{@biditytfloat@margin@float}[#1]{figure}}
6539 {\end{@biditytfloat@margin@float}}
6540 \newenvironment{margintable}[1][-1.2ex]%
6541 {\begin{@biditytfloat@margin@float}[#1]{table}}
6542 {\end{@biditytfloat@margin@float}}
6543 \newcommand*{\@biditytfloat@justification@autodetect}{\justifying}%
6544
6545 \newcommand{\@biditytfloat@float@debug@info}{}% contains debug info generated as the float
6546 \newcommand{\@biditytfloat@float@debug}[1]{% adds debug info to the queue for output
6547 \ifthenelse{equal{\@biditytfloat@float@debug@info}{}}%
6548 {\def\@biditytfloat@float@debug@info{#1}}%
6549 {\g@addto@macro\@biditytfloat@float@debug@info{\MessageBreak#1}}%
6550 }
6551 \newcommand{\floatalignment}{x}% holds the current float alignment (t, b, h, p)
6552 \newcommand{\setfloatalignment}[1]{\global\def\floatalignment{#1}\@biditytfloat@float@debu
6553 \newboolean{@biditytfloat@float@recto}
6554 \newcommand{\forcerectofloat}{\GlobalSetBoolean{@biditytfloat@float@recto}{true}\@bidityt
6555 \newcommand{\forceversofloat}{\GlobalSetBoolean{@biditytfloat@float@recto}{false}\@bidityt
6556 \newsavebox{\@biditytfloat@figure@box}
6557 \newsavebox{\@biditytfloat@caption@box}
6558 \let\@biditytfloat@orig@float\@float
6559 \let\@biditytfloat@orig@endfloat\endfloat
6560 \newlength{\@biditytfloat@caption@vertical@offset}
6561 \setlength{\@biditytfloat@caption@vertical@offset}{0pt}
6562 \newcommand{\@biditytfloat@stored@shortcaption}{%
6563 \newcommand{\@biditytfloat@stored@caption}{%
6564 \newcommand{\@biditytfloat@stored@label}{%
6565 \long\def\@biditytfloat@caption[#1][#2]#3{%

```





```

6566 \ifthenelse{\isempty{#1}}%
6567   {\gdef\@biditytfloat@stored@shortcaption{#3}}%
6568   {\gdef\@biditytfloat@stored@shortcaption{#1}}%
6569 \gsetlength{\@biditytfloat@caption@vertical@offset}{-#2}% we want a positive offset to 1
6570 \gdef\@biditytfloat@stored@caption{#3}%
6571 }
6572 \newcommand{\@biditytfloat@label}[1]{%
6573   \gdef\@biditytfloat@stored@label{#1}%
6574 }
6575 \newcommand{\@biditytfloat@fps}{}
6576 \newboolean{\@biditytfloat@float@star}
6577 \newlength{\@biditytfloat@float@contents@width}
6578 \newenvironment{\@biditytfloat@float}[3][htbp]%
6579   {% begin \@biditytfloat@float
6580     % Should this float be full-width or just text-width?
6581     \ifthenelse{\equal{#3}{star}}%
6582       {\GlobalSetBoolean{\@biditytfloat@float@star}{true}}%
6583       {\GlobalSetBoolean{\@biditytfloat@float@star}{false}}%
6584     % Check page side (recto/verso) and store detected value -- can be overridden in environm
6585     \@biditytfloat@checkoddpage%
6586     \ifthenelse{\boolean{\@biditytfloat@odd@page}}%
6587       {\GlobalSetBoolean{\@biditytfloat@float@recto}{true}\@biditytfloat@float@debug{Dete
6588       {\GlobalSetBoolean{\@biditytfloat@float@recto}{false}\@biditytfloat@float@debug{Det
6589     % If the float placement specifier is 'b' and only 'b', then bottom-align the mini-pages
6590     \renewcommand{\@biditytfloat@fps}{#1}%
6591     \@biditytfloat@float@debug{Allowed positions: [#1]}%
6592     \ifthenelse{\equal{#1}{b}\OR\equal{#1}{B}}%
6593       {\renewcommand{\floatalignment}{b}\@biditytfloat@float@debug{Presumed position: [bot
6594       {\renewcommand{\floatalignment}{t}\@biditytfloat@float@debug{Presumed position: [top
6595     % Capture the contents of the \caption and \label commands to use later
6596     \global\let\@biditytfloat@orig@caption\caption%
6597     \global\let\@biditytfloat@orig@label\label%
6598     \renewcommand{\caption}{\optparams{\@biditytfloat@caption}{[Opt]}}%
6599     \renewcommand{\label}[1]{\@biditytfloat@label{##1}}%
6600     % Handle subfigure package compatibility
6601     \ifthenelse{\boolean{\@biditytfloat@packages@subfigure}}{%
6602       \bidi@patchcmd{\subfigure}{%
6603         \let\subfig@oldlabel=\label
6604       }{%
6605         \let\subfig@oldlabel=\@biditytfloat@orig@label
6606       }
6607     }
6608     {}
6609     \let\subtable=\subfigure
6610   }{% subfigure package is not loaded
6611     \@biditytfloat@orig@float{#2}[#1}%
6612     \ifthenelse{\boolean{\@biditytfloat@float@star}}%
6613       {\setlength{\@biditytfloat@float@contents@width}{\@biditytfloat@fullwidth}}%
6614       {\setlength{\@biditytfloat@float@contents@width}{\textwidth}}%
6615     \begin{lrbox}{\@biditytfloat@figure@box}%
6616     \begin{minipage}[\floatalignment]{\@biditytfloat@float@contents@width}\hbox{}%
6617   }{% end \@biditytfloat@float
6618     \par\hbox{}\vspace{-\baselineskip}\ifthenelse{\prevdepth>0}{\vspace{-\prevdepth}}{} a
6619     \end{minipage}%

```



```

6620 \end{lrbox}%
6621 % build the caption box
6622 \begin{lrbox}{\@bidualtfloat@caption@box}%
6623 \begin{minipage}{\floatalignment}{\marginparwidth}\hbox{%
6624 \ifthenelse{\NOT\equal{\@bidualtfloat@stored@caption}{}}{\@bidualtfloat@orig@cap
6625 \ifthenelse{\NOT\equal{\@bidualtfloat@stored@label}{}}{\@bidualtfloat@orig@label
6626 \par\vspace{-\prevdepth}}% TODO: DOUBLE-CHECK FOR SAFETY
6627 \end{minipage}%
6628 \end{lrbox}%
6629 % now typeset the stored boxes
6630 \begin{fullwidth}%
6631 \begin{minipage}{\floatalignment}{\linewidth}%
6632 \ifthenelse{\boolean{@bidualtfloat@float@star}}%
6633 {\@bidualtfloat@float@fullwidth[\@bidualtfloat@caption@vertical@offset]{\@bidi
6634 {\@bidualtfloat@float@textwidth[\@bidualtfloat@caption@vertical@offset]{\@bidi
6635 \end{minipage}%
6636 \end{fullwidth}%
6637 \@bidualtfloat@orig@endfloat% end original LaTeX float environment
6638 % output debug info
6639 \ifthenelse{\boolean{@bidualtfloat@debug}}{%
6640 \typeout{^^J----- bidualtfloat package float information -----}%
6641 \ifthenelse{\equal{\@bidualtfloat@stored@label}{}}%
6642 {\typeout{Warning: Float unlabeled!}}%
6643 {\typeout{Float label: [\@bidualtfloat@stored@label]}}%
6644 \typeout{Page number: [\thepage]}%
6645 \def\MessageBreak{^^J}%
6646 \typeout{\@bidualtfloat@float@debug@info}%
6647 \ifthenelse{\boolean{@bidualtfloat@symmetric}}%
6648 {\typeout{Symmetric: [true]}}%
6649 {\typeout{Symmetric: [false]}}%
6650 \typeout{-----^^J^^J}%
6651 }%
6652 % reset commands and temp boxes and captions
6653 \gdef\@bidualtfloat@float@debug@info{%
6654 \let\caption\@bidualtfloat@orig@caption%
6655 \let\label\@bidualtfloat@orig@label%
6656 \begin{lrbox}{\@bidualtfloat@figure@box}\hbox{}\end{lrbox}%
6657 \begin{lrbox}{\@bidualtfloat@caption@box}\hbox{}\end{lrbox}%
6658 \gdef\@bidualtfloat@stored@shortcaption{%
6659 \gdef\@bidualtfloat@stored@caption{%
6660 \gdef\@bidualtfloat@stored@label{%
6661 \gsetlength{\@bidualtfloat@caption@vertical@offset}{0pt}% reset caption offset
6662 }
6663 \newcommand{\@bidualtfloat@float@textwidth}[3][Opt]{%
6664 \ifthenelse{\NOT\boolean{@bidualtfloat@symmetric}\OR\boolean{@bidualtfloat@float@recto
6665 % asymmetric or page is odd, so caption is on the right
6666 \hbox{%
6667 \usebox{#2}%
6668 \hspace{\marginparsep}%
6669 \smash{\raisebox{#1}{\usebox{#3}}}%
6670 }
6671 \@bidualtfloat@float@debug{Caption position: [right]}%
6672 }{% symmetric pages and page is even, so caption is on the left
6673 \hbox{%

```



```

6674     \smash{\raisebox{#1}{\usebox{#3}}}%
6675     \hspace{\marginparsep}%
6676     \usebox{#2}%
6677   }
6678   \@bituftefloat@float@debug{Caption position: [left]}%
6679 }%
6680 }
6681 \newcommand{\@bituftefloat@float@fullwidth}[3][Opt]{%
6682   \ifthenelse{\equal{\floatalignment}{b}}{%
6683     {% place caption above figure
6684       \ifthenelse{\NOT\boolean{@bituftefloat@symmetric}}\OR\boolean{@bituftefloat@float@on}
6685       {\hfill\smash{\raisebox{#1}{\usebox{#3}}}\par\usebox{#2}\@bituftefloat@float@debug}
6686       {\smash{\raisebox{#1}{\usebox{#3}}}\hfill\par\usebox{#2}\@bituftefloat@float@debug}
6687     }% place caption below figure
6688     \ifthenelse{\NOT\boolean{@bituftefloat@symmetric}}\OR\boolean{@bituftefloat@float@on}
6689     {\usebox{#2}\par\hfill\smash{\raisebox{#1}{\usebox{#3}}}\@bituftefloat@float@debug}
6690     {\usebox{#2}\par\smash{\raisebox{#1}{\usebox{#3}}}\hfill\@bituftefloat@float@debug}
6691   }%
6692 }
6693 \renewenvironment{figure}[1][htbp]%
6694   {\ifvmode\else\unskip\fi\begin{@bituftefloat@float}[#1]{figure}{}}
6695   {\end{@bituftefloat@float}}
6696 \renewenvironment{table}[1][htbp]
6697   {\ifvmode\else\unskip\fi\begin{@bituftefloat@float}[#1]{table}{}}
6698   {\end{@bituftefloat@float}}
6699 \renewenvironment{figure*}[1][htbp]%
6700   {\ifvmode\else\unskip\fi\begin{@bituftefloat@float}[#1]{figure}{star}}
6701   {\end{@bituftefloat@float}}
6702 \renewenvironment{table*}[1][htbp]%
6703   {\ifvmode\else\unskip\fi\begin{@bituftefloat@float}[#1]{table}{star}}
6704   {\end{@bituftefloat@float}}
6705 \newenvironment{fullwidth}
6706   {\ifthenelse{\boolean{@bituftefloat@symmetric}}%
6707     {\ifthenelse{\boolean{@bituftefloat@changepage}}{\begin{adjustwidth*}{-}\@bituftefloat@overhang}%
6708     {\begin{adjustwidth*}{-}\@bituftefloat@overhang}}%
6709   }%
6710   {\ifthenelse{\boolean{@bituftefloat@symmetric}}%
6711     {\ifthenelse{\boolean{@bituftefloat@changepage}}{\end{adjustwidth*}}{\end{adjustwidth}}%
6712     {\end{adjustwidth}}}%
6713   }
6714 \long\def\@caption#1[#2]#3{%
6715   \par%
6716   \addcontentsline{\csname ext@#1\endcsname}{#1}%
6717     {\protect\numberline{\csname the#1\endcsname}{\ignorespaces #2}}%
6718   \begingroup%
6719     \@parboxrestore%
6720     \if@minipage%
6721       \setminipage%
6722     \fi%
6723     \@bituftefloat@caption@font\@bituftefloat@caption@justification%
6724     \noindent\csname fnum@#1\endcsname: \ignorespaces#3\par%
6725     %\@makecaption{\csname fnum@#1\endcsname}{\ignorespaces #3}\par
6726   \endgroup}
6727 %%

```



```

6728 % Turns newlines into spaces. Based on code from the `titlesec' package.
6729 \DeclareRobustCommand{\@bidityfteheading@newlinetospace}{%
6730   \@ifstar{\@bidityfteheading@newlinetospace@i}{\@bidityfteheading@newlinetospace@i}%
6731 }
6732 \def\@bidityfteheading@newlinetospace@i{%
6733   \ifdim\lastskip>\z@\else\space\fi
6734   \ignorespaces%
6735 }
6736 \DeclareRobustCommand{\newlinetospace}[1]{%
6737   \let\@bidityfteheading@orig@cr\\% save the original meaning of \\
6738   \def\\{\@bidityfteheading@newlinetospace}% turn \\ and \\* into \space
6739   \let\newline\\% turn \newline into \space
6740   #1%
6741   \let\\\\@bidityfteheading@orig@cr% revert to original meaning of \\
6742 }
6743 \RequirePackage{fancyhdr}
6744 \pagestyle{fancy}
6745 \AtBeginDocument{%
6746   \ifthenelse{\boolean{@bidityftefloat@symmetric}}{
6747     {\fancyhfoffset[LE,RO]{\@bidityftefloat@overhang}}
6748     {\fancyhfoffset[RE,RO]{\@bidityftefloat@overhang}}
6749 }
6750 % The running heads/feet don't have rules
6751 \renewcommand{\headrulewidth}{0pt}
6752 \renewcommand{\footrulewidth}{0pt}
6753 % The 'fancy' page style is the default style for all pages.
6754 \fancyhf{} % clear header and footer fields
6755   \ifthenelse{\boolean{@bidityftefloat@symmetric}}{
6756     {\fancyhead[LE]{\thepage\quad\textsl{\newlinetospace{\plainauthor}}}%
6757     \fancyhead[RO]{\textsl{\newlinetospace{\plaintitle}}\quad\thepage}}%
6758     {\fancyhead[RE,RO]{\textsl{\newlinetospace{\plaintitle}}\quad\thepage}}%
6759 % The `plain' page style is used on chapter opening pages.
6760 % In Tufte's /Beautiful Evidence/ he never puts page numbers at the
6761 % bottom of pages -- the folios are unexpressed.
6762 \fancypagestyle{plain}{
6763   \fancyhf{} % clear header and footer fields
6764   % Uncomment the following five lines of code if you want the opening page
6765   % of the chapter to express the folio in the lower outside corner.
6766   % \ifthenelse{\boolean{@bidityftefloat@symmetric}}{
6767   %   {\fancyfoot[LE,RO]{\thepage}}
6768   %   {\fancyfoot[RE,RO]{\thepage}}
6769 }
6770 % The `empty' page style suppresses all headers and footers.
6771 % It's used on title pages and `intentionally blank' pages.
6772 \fancypagestyle{empty}{
6773   \fancyhf{} % clear header and footer fields
6774 }
6775 \def\morefloats{% provides a total of 52 floats
6776   \ifthenelse{\isundefined{\bx@S}}{%
6777     \bidityftefloatDebugInfoNL{Adding 34 more float slots.}
6778     \newinsert\bx@S
6779     \newinsert\bx@T
6780     \newinsert\bx@U
6781     \newinsert\bx@V

```



```

6782 \newinsert\bx@W
6783 \newinsert\bx@X
6784 \newinsert\bx@Y
6785 \newinsert\bx@Z
6786 \newinsert\bx@a
6787 \newinsert\bx@b
6788 \newinsert\bx@c
6789 \newinsert\bx@d
6790 \newinsert\bx@e
6791 \newinsert\bx@f
6792 \newinsert\bx@g
6793 \newinsert\bx@h
6794 \newinsert\bx@i
6795 \newinsert\bx@j
6796 \newinsert\bx@k
6797 \newinsert\bx@l
6798 \newinsert\bx@m
6799 \newinsert\bx@n
6800 \newinsert\bx@o
6801 \newinsert\bx@p
6802 \newinsert\bx@q
6803 \newinsert\bx@r
6804 \newinsert\bx@s
6805 \newinsert\bx@t
6806 \newinsert\bx@u
6807 \newinsert\bx@v
6808 \newinsert\bx@w
6809 \newinsert\bx@x
6810 \newinsert\bx@y
6811 \newinsert\bx@z
6812 \gdef\@freelist{\@elt\bx@A\@elt\bx@B\@elt\bx@C\@elt\bx@D\@elt\bx@E
6813 \@elt\bx@F\@elt\bx@G\@elt\bx@H\@elt\bx@I\@elt\bx@J
6814 \@elt\bx@K\@elt\bx@L\@elt\bx@M\@elt\bx@N
6815 \@elt\bx@O\@elt\bx@P\@elt\bx@Q\@elt\bx@R
6816 \@elt\bx@S\@elt\bx@T\@elt\bx@U\@elt\bx@V
6817 \@elt\bx@W\@elt\bx@X\@elt\bx@Y\@elt\bx@Z
6818 \@elt\bx@a\@elt\bx@b\@elt\bx@c\@elt\bx@d\@elt\bx@e
6819 \@elt\bx@f\@elt\bx@g\@elt\bx@h\@elt\bx@i\@elt\bx@j
6820 \@elt\bx@k\@elt\bx@l\@elt\bx@m\@elt\bx@n
6821 \@elt\bx@o\@elt\bx@p\@elt\bx@q\@elt\bx@r
6822 \@elt\bx@s\@elt\bx@t\@elt\bx@u\@elt\bx@v
6823 \@elt\bx@w\@elt\bx@x\@elt\bx@y\@elt\bx@z}%
6824 }{% we've already added another 34 floats, so we'll add 26 more, but that's it!
6825 \ifthenelse{\isundefined\bx@AA}{%
6826 \bidituftefloatDebugInfoNL{Adding 26 more float slots.}
6827 \newinsert\bx@AA
6828 \newinsert\bx@BB
6829 \newinsert\bx@CC
6830 \newinsert\bx@DD
6831 \newinsert\bx@EE
6832 \newinsert\bx@FF
6833 \newinsert\bx@GG
6834 \newinsert\bx@HH
6835 \newinsert\bx@II

```



```

6836 \newinsert\bx@JJ
6837 \newinsert\bx@KK
6838 \newinsert\bx@LL
6839 \newinsert\bx@MM
6840 \newinsert\bx@NN
6841 \newinsert\bx@OO
6842 \newinsert\bx@PP
6843 \newinsert\bx@QQ
6844 \newinsert\bx@RR
6845 \newinsert\bx@SS
6846 \newinsert\bx@TT
6847 \newinsert\bx@UU
6848 \newinsert\bx@VV
6849 \newinsert\bx@WW
6850 \newinsert\bx@XX
6851 \newinsert\bx@YY
6852 \newinsert\bx@ZZ
6853 \gdef\@freelist{\@elt\bx@A\@elt\bx@B\@elt\bx@C\@elt\bx@D\@elt\bx@E
6854 \@elt\bx@F\@elt\bx@G\@elt\bx@H\@elt\bx@I\@elt\bx@J
6855 \@elt\bx@K\@elt\bx@L\@elt\bx@M\@elt\bx@N
6856 \@elt\bx@O\@elt\bx@P\@elt\bx@Q\@elt\bx@R
6857 \@elt\bx@S\@elt\bx@T\@elt\bx@U\@elt\bx@V
6858 \@elt\bx@W\@elt\bx@X\@elt\bx@Y\@elt\bx@Z
6859 \@elt\bx@a\@elt\bx@b\@elt\bx@c\@elt\bx@d\@elt\bx@e
6860 \@elt\bx@f\@elt\bx@g\@elt\bx@h\@elt\bx@i\@elt\bx@j
6861 \@elt\bx@k\@elt\bx@l\@elt\bx@m\@elt\bx@n
6862 \@elt\bx@o\@elt\bx@p\@elt\bx@q\@elt\bx@r
6863 \@elt\bx@s\@elt\bx@t\@elt\bx@u\@elt\bx@v
6864 \@elt\bx@w\@elt\bx@x\@elt\bx@y\@elt\bx@z
6865 \@elt\bx@AA\@elt\bx@BB\@elt\bx@CC\@elt\bx@DD\@elt\bx@EE
6866 \@elt\bx@FF\@elt\bx@GG\@elt\bx@HH\@elt\bx@II\@elt\bx@JJ
6867 \@elt\bx@KK\@elt\bx@LL\@elt\bx@MM\@elt\bx@NN
6868 \@elt\bx@OO\@elt\bx@PP\@elt\bx@QQ\@elt\bx@RR
6869 \@elt\bx@SS\@elt\bx@TT\@elt\bx@UU\@elt\bx@VV
6870 \@elt\bx@WW\@elt\bx@XX\@elt\bx@YY\@elt\bx@ZZ}%
6871 }{%
6872 \bidituftefloatError{You may only call \string\morefloats\space twice. See the\Message
6873 {There are already 78 float slots allocated. Try using \string\FloatBarrier\space on
6874 }%
6875 }%
6876 }
6877 \newboolean{@bidituftefloat@packages@subfigure}
6878 \setboolean{@bidituftefloat@packages@subfigure}{false}
6879 \AtBeginDocument{%
6880 \ifpackageloaded{subfigure}
6881 {\GlobalSetBoolean{@bidituftefloat@packages@subfigure}{true}}
6882 {\GlobalSetBoolean{@bidituftefloat@packages@subfigure}{false}}%
6883 }
6884 \AtBeginDocument{%
6885 \ifpackageloaded{float}{%
6886 % Save the redefined float environment (instead of the LaTeX float environment)
6887 \let\@bidituftefloat@orig@float\@float
6888 \let\@bidituftefloat@orig@endfloat\end@float
6889

```



```

6890 % Define Tuftian float styles (with the caption in the margin)
6891 \newcommand{\floatc@bidituftefloatplain}[2]{%
6892   \begin{lrbox}{\@bidituftefloat@caption@box}%
6893     \begin{minipage}[\floatalignment]{\marginparwidth}\hbox{%
6894       \@bidituftefloat@caption@font{\@fs@cfont #1:} #2\par%
6895     }\end{minipage}%
6896   \end{lrbox}%
6897   \smash{\hspace{\@bidituftefloat@caption@fill}}\usebox{\@bidituftefloat@caption@box}}%
6898 }
6899 \newcommand{\fs@bidituftefloatplain}{%
6900   \def\@fs@cfont{\@bidituftefloat@caption@font}%
6901   \let\@fs@capt\floatc@bidituftefloatplain%
6902   \def\@fs@pre{}%
6903   \def\@fs@post{}%
6904   \def\@fs@mid{}%
6905   \let\@fs@iftopcapt\iftrue%
6906 }
6907 \let\fs@bidituftefloatplaintop=\fs@bidituftefloatplain
6908 \let\floatc@bidituftefloatplaintop=\floatc@bidituftefloatplain
6909 \newcommand\floatc@bidituftefloatruled[2]{%
6910   {\@fs@cfont #1} #2\par%
6911 }
6912 \newcommand\fs@bidituftefloatruled{%
6913   \def\@fs@cfont{\@bidituftefloat@caption@font}%
6914   \let\@fs@capt\floatc@bidituftefloatplain%
6915   \def\@fs@pre{\hrule height.8pt depth0pt width\textwidth \kern2pt}%
6916   \def\@fs@post{\kern2pt\hrule width\textwidth\relax}%
6917   \def\@fs@mid{}%
6918   \let\@fs@iftopcapt\iftrue%
6919 }
6920 \newcommand\fs@bidituftefloatboxed{%
6921   \def\@fs@cfont{}%
6922   \let\@fs@capt\floatc@bidituftefloatplain%
6923   \def\@fs@pre{%
6924     \setbox\@currbox\vbox{\hbadness10000
6925       \moveleft3.4pt\vbox{\advance\hsize by6.8pt
6926         \hrule \hbox to\hsize{\vrule\kern3pt
6927           \vbox{\kern3pt\box\@currbox\kern3pt}\kern3pt\vrule}\hrule}}
6928   }%
6929   \def\@fs@mid{\kern2pt}%
6930   \def\@fs@post{}%
6931   \let\@fs@iftopcapt\iftrue%
6932 }
6933 }{%
6934   % Nothing to do
6935 }
6936 }
6937 \AtBeginDocument{%
6938   \ifpackageloaded{algorithm}{%
6939     % Set the float style to the Tuftian version
6940     \ifthenelse{\equal{\ALG@floatstyle}{plain}}{OR\equal{\ALG@floatstyle}{ruled}}{OR\equal{\ALG@floatstyle}{ruled}}{
6941       \bidituftefloatInfoNL{Switching algorithm float style from \ALG@floatstyle\MessageBreak
6942       \floatstyle{bidituftefloat\ALG@floatstyle}%
6943       \restylefloat{algorithm}%

```



```

6944   }{}%
6945   }{%
6946   % Nothing to do
6947   }
6948 }
6949 \PassOptionsToPackage{caption=false}{subfig}

```

## 46 File `bidituftesidenote.sty`

```

6950 \NeedsTeXFormat{LaTeX2e}
6951 \ProvidesPackage{bidituftesidenote}[2017/08/09 v0.4
6952 bidi implementation of tufte sidenote]
6953 \RequirePackage{xifthen}
6954 \RequirePackage{ragged2e}
6955 \RequirePackage{setspace}
6956 \RequirePackage{biditools}
6957 \def\bidituftesidenotemarginpar{%
6958   \ifhmode
6959     \@bsphack
6960     \@floatpenalty -\@Mii
6961   \else
6962     \@floatpenalty-\@Miii
6963   \fi
6964   \ifinner
6965     \@parmoderr
6966     \@floatpenalty\z@
6967   \else
6968     \@next\@currbox\@freelist{}{}%
6969     \@next\@marbox\@freelist{\global\count\@marbox\m@ne}%
6970     {\@floatpenalty\z@
6971       \@fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}%
6972   \fi
6973   \ifnextchar [\@bidituftesidenotexmpar\@bidituftesidenoteympar}
6974 \long\def\@bidituftesidenotexmpar[#1]#2{%
6975   \@bidituftesidenotesavemarbox\@marbox{#1}%
6976   \@bidituftesidenotesavemarbox\@currbox{#2}%
6977   \@xympar}
6978 \long\def\@bidituftesidenoteympar#1{%
6979   \@bidituftesidenotesavemarbox\@marbox{#1}%
6980   \global\setbox\@currbox\copy\@marbox
6981   \@xympar}
6982 \long\def \@bidituftesidenotesavemarbox #1#2{%
6983   \global\setbox #1%
6984     \color@vbox
6985     \vtop{%
6986       \hsize\marginparwidth
6987       \@parboxrestore
6988       \@bidituftesidenotemarginparreset
6989       #2%
6990       \@minipagefalse
6991       \outer@nobreak
6992     }%
6993   \color@endbox
6994 }

```





```

6995 \def \@bidityftesidenotemarginparreset {%
6996     \reset@font
6997     \normalsize
6998     \@minipagetrue
6999     \everypar{\@minipagefalse\everypar{}}\if@RTL@footnote\beginR\else\beginL\fi}%
7000 }
7001 \def\LTRbidityftesidenotemarginpar{%
7002     \ifhmode
7003         \@bsphack
7004         \@floatpenalty -\@Mii
7005     \else
7006         \@floatpenalty-\@Miii
7007     \fi
7008     \ifinner
7009         \@parmoderr
7010         \@floatpenalty\z@
7011     \else
7012         \@next\@currbox\@freelist{}\{}%
7013         \@next\@marbox\@freelist{\global\count\@marbox\m@ne}%
7014         {\@floatpenalty\z@
7015         \@fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}%
7016     \fi
7017     \ifnextchar [\@LTRbidityftesidenotexmpar\@LTRbidityftesidenoteympar}
7018 \long\def\@LTRbidityftesidenotexmpar[#1]#2{%
7019     \@LTRbidityftesidenotesavemarbox\@marbox{#1}%
7020     \@LTRbidityftesidenotesavemarbox\@currbox{#2}%
7021     \@xympar}
7022 \long\def\@LTRbidityftesidenoteympar#1{%
7023     \@LTRbidityftesidenotesavemarbox\@marbox{#1}%
7024     \global\setbox\@currbox\copy\@marbox
7025     \@xympar}
7026 \long\def \@LTRbidityftesidenotesavemarbox #1#2{%
7027     \global\setbox #1%
7028         \color@vbox
7029         \vtop{%
7030             \hsize\marginparwidth
7031             \@parboxrestore
7032             \@LTRbidityftesidenotemarginparreset
7033             #2%
7034             \@minipagefalse
7035             \outer@nobreak
7036         }%
7037     \color@endbox
7038 }
7039 \def \@LTRbidityftesidenotemarginparreset {%
7040     \reset@font
7041     \normalsize
7042     \@minipagetrue
7043     \everypar{\@minipagefalse\everypar{}}\beginL}%
7044 }
7045 \def\RTLbidityftesidenotemarginpar{%
7046     \ifhmode
7047         \@bsphack
7048         \@floatpenalty -\@Mii

```



```

7049 \else
7050 \@floatpenalty-\@Miii
7051 \fi
7052 \ifinner
7053 \@parmoderr
7054 \@floatpenalty\z@
7055 \else
7056 \@next\@currbox\@freelist{}\{}%
7057 \@next\@marbox\@freelist{\global\count\@marbox\m@ne}%
7058 {\@floatpenalty\z@
7059 \@fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}%
7060 \fi
7061 \@ifnextchar [\@RTLbiditytesidenotexmpar\@RTLbiditytesidenoteympar}
7062 \long\def\@RTLbiditytesidenotexmpar[#1]#2{%
7063 \@RTLbiditytesidenotesavemarbox\@marbox{#1}%
7064 \@RTLbiditytesidenotesavemarbox\@currbox{#2}%
7065 \@xympar}
7066 \long\def\@RTLbiditytesidenoteympar#1{%
7067 \@RTLbiditytesidenotesavemarbox\@marbox{#1}%
7068 \global\setbox\@currbox\copy\@marbox
7069 \@xympar}
7070 \long\def \@RTLbiditytesidenotesavemarbox #1#2{%
7071 \global\setbox #1%
7072 \color@vbox
7073 \vtop{%
7074 \hsize\marginparwidth
7075 \@parboxrestore
7076 \@RTLbiditytesidenotemarginparreset
7077 #2%
7078 \@minipagefalse
7079 \outer@nobreak
7080 }%
7081 \color@endbox
7082 }
7083 \def \@RTLbiditytesidenotemarginparreset {%
7084 \reset@font
7085 \normalsize
7086 \@minipagetrue
7087 \everypar{\@minipagefalse\everypar{}\beginR}%
7088 }
7089 \newcommand*{\@biditytesidenote@marginfont}{\normalfont\footnotesize}
7090 \newcommand*{\@biditytesidenote@LTRmarginfont}{\normalfont\footnotesize}
7091 \newcommand*{\@biditytesidenote@RTLmarginfont}{\normalfont\footnotesize}
7092 \newcommand*{\@biditytesidenote@sidenote@font}{\@biditytesidenote@marginfont}
7093 \newcommand*{\@biditytesidenote@LTRsidenote@font}{\@biditytesidenote@LTRmarginfont}
7094 \newcommand*{\@biditytesidenote@RTLsidenote@font}{\@biditytesidenote@RTLmarginfont}
7095 \newcommand*{\@biditytesidenote@marginnote@font}{\@biditytesidenote@marginfont}
7096 \newcommand*{\@biditytesidenote@LTRmarginnote@font}{\@biditytesidenote@LTRmarginfont}
7097 \newcommand*{\@biditytesidenote@RTLmarginnote@font}{\@biditytesidenote@RTLmarginfont}
7098 \newcommand*{\@biditytesidenote@citation@font}{\@biditytesidenote@marginfont}
7099 \newcommand*{\@biditytesidenote@LTRcitation@font}{\@biditytesidenote@LTRmarginfont}
7100 \newcommand*{\@biditytesidenote@RTLcitation@font}{\@biditytesidenote@RTLmarginfont}
7101 \newcommand*{\setsidenotefont}[1]{\renewcommand*{\@biditytesidenote@sidenote@font}{#1}}
7102 \newcommand*{\setLTRsidenotefont}[1]{\renewcommand*{\@biditytesidenote@LTRsidenote@font}{#1}}

```



```

7103 \newcommand*{\setRTLsidenotefont}[1]{\renewcommand*{\@bidityftesidenote@RTLsidenote@font}{{#1}}
7104 \newcommand*{\setmarginnotefont}[1]{\renewcommand*{\@bidityftesidenote@marginnote@font}{{#1}}
7105 \newcommand*{\setLTRmarginnotefont}[1]{\renewcommand*{\@bidityftesidenote@LTRmarginnote@font}{{#1}}
7106 \newcommand*{\setRTLmarginnotefont}[1]{\renewcommand*{\@bidityftesidenote@RTLmarginnote@font}{{#1}}
7107 \newcommand*{\setcitationfont}[1]{\renewcommand*{\@bidityftesidenote@citation@font}{{#1}}
7108 \newcommand*{\setLTRcitationfont}[1]{\renewcommand*{\@bidityftesidenote@LTRcitation@font}{{#1}}
7109 \newcommand*{\setRTLcitationfont}[1]{\renewcommand*{\@bidityftesidenote@RTLcitation@font}{{#1}}
7110 \newcommand*{\@bidityftesidenote@sidenote@justification}{\@bidityftesidenote@justification@
7111 \newcommand*{\@bidityftesidenote@marginnote@justification}{\@bidityftesidenote@justification@
7112 \newcommand*{\@bidityftesidenote@citation@justification}{\@bidityftesidenote@justification@
7113 \newcommand*{\@bidityftesidenote@justification@autodetect}{\justifying}%
7114 \newcommand{\@bidityftesidenote@margin@par}{%
7115   \setlength{\RaggedRightParindent}{0.5pc}%
7116   \setlength{\JustifyingParindent}{0.5pc}%
7117   \setlength{\parindent}{0.5pc}%
7118   \setlength{\parskip}{0pt}%
7119 }
7120 %%
7121 % Globally sets the length
7122 \@ifundefined{gsetlength}{%
7123 \newcommand*{gsetlength}[2]{%
7124   \setlength{#1}{#2}%
7125   \global#1=#1\relax%
7126 }%
7127 }{}
7128
7129 %%
7130 % A function that removes leading and trailing spaces from the supplied macro.
7131 % Based on code written by Michael Downes (See ``Around the Bend'', #15.)
7132 % Executing \@bidityftesidenote@trim@spaces\xyzzy will result in the contents of \xyzzy
7133 % being trimmed of leading and trailing white space.
7134 \catcode\Q=3
7135 \def\@bidityftesidenote@trim@spaces#1{%
7136   % Use grouping to emulate a multi-token afterassignment queue
7137   \begingroup%
7138   % Put \toks 0 {' into the afterassignment queue
7139   \aftergroup\toks\aftergroup\@bidityftesidenote@trim@spaces#1%
7140   % Apply \trimb to the replacement text of #1, adding a leading
7141   % \noexpand to prevent brace stripping and to serve another purpose
7142   % later.
7143   \expandafter\@bidityftesidenote@trim@b\expandafter\noexpand#1\Q}%
7144   % Transfer the trimmed text back into #1.
7145   \edef#1{\the\toks0}%
7146 }
7147 % \trimb removes a trailing space if present, then calls \@bidityftesidenote@trim@c to
7148 % clean up any leftover bizarre Qs, and trim a leading space. In
7149 % order for \trimc to work properly we need to put back a Q first.
7150 \def\@bidityftesidenote@trim@b#1\Q{\@bidityftesidenote@trim@c#1\Q}
7151 % Execute \vfuzz assignment to remove leading space; the \noexpand
7152 % will now prevent unwanted expansion of a macro or other expandable
7153 % token at the beginning of the trimmed text. The \endgroup will feed
7154 % in the \aftergroup tokens after the \vfuzz assignment is completed.
7155 \def\@bidityftesidenote@trim@c#1\Q#2{\afterassignment\endgroup \vfuzz\the\vfuzz#1}
7156 \catcode\Q=11

```



```

7157 %%
7158 % Citations should go in the margin as sidenotes
7159
7160 \RequirePackage{natbib}
7161 \RequirePackage{bibentry} % allows bibitems to be typeset outside the bibliography env
7162 % Redefine the \BR@b@bibitem command to fix a bug with bibentry+chicago style
7163 \renewcommand\BR@b@bibitem[2][{}]{%
7164   \ifthenelse{\isempty{#1}}{%
7165     {\BR@bibitem{#2}}%
7166     {\BR@bibitem{#1}{#2}}%
7167   \BR@c@bibitem{#2}}%
7168 }
7169 \bidi@AtEndPreamble{\nobibliography*} % pre-loads the bibliography keys
7170 %%
7171 % Normal \cite behavior
7172 \newcounter{@bidityftesidenote@num@bibkeys}%
7173 \newcommand{\@bidityftesidenote@normal@cite}[2][0pt]{%
7174   % Snag the last bibentry in the list for later comparison
7175   \let\@temp@last@bibkey\empty%
7176   \@for\@temp@bibkey:=#2\do{\let\@temp@last@bibkey\@temp@bibkey}%
7177   \sidenote[] [#1]{%
7178     % Loop through all the bibentries, separating them with semicolons and spaces
7179     \normalsize\normalfont\@bidityftesidenote@citation@font%
7180     \setcounter{@bidityftesidenote@num@bibkeys}{0}%
7181     \@for\@temp@bibkeyx:=#2\do{%
7182       \ifthenelse{\equal{\@temp@last@bibkey}{\@temp@bibkeyx}}{%
7183         {\ifthenelse{\equal{\value{@bidityftesidenote@num@bibkeys}}{0}}{\and\ }%
7184           \@bidityftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
7185           \bibentry{\@temp@bibkeyx}}%
7186         {\@bidityftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
7187           \bibentry{\@temp@bibkeyx};\ }%
7188       \stepcounter{@bidityftesidenote@num@bibkeys}}%
7189     }%
7190   }%
7191 }
7192 \newcommand{\@bidityfteLTRsidenote@normal@cite}[2][0pt]{%
7193   % Snag the last bibentry in the list for later comparison
7194   \let\@temp@last@bibkey\empty%
7195   \@for\@temp@bibkey:=#2\do{\let\@temp@last@bibkey\@temp@bibkey}%
7196   \LTRsidenote[] [#1]{%
7197     % Loop through all the bibentries, separating them with semicolons and spaces
7198     \normalsize\normalfont\@bidityftesidenote@LTRcitation@font%
7199     \setcounter{@bidityftesidenote@num@bibkeys}{0}%
7200     \@for\@temp@bibkeyx:=#2\do{%
7201       \ifthenelse{\equal{\@temp@last@bibkey}{\@temp@bibkeyx}}{%
7202         {\ifthenelse{\equal{\value{@bidityftesidenote@num@bibkeys}}{0}}{\and\ }%
7203           \@bidityftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
7204           \bibentry{\@temp@bibkeyx}}%
7205         {\@bidityftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
7206           \bibentry{\@temp@bibkeyx};\ }%
7207       \stepcounter{@bidityftesidenote@num@bibkeys}}%
7208     }%
7209   }%
7210 }

```



```

7211 \newcommand{\@bidityftesidenote@normal@cite}[2][Opt]{%
7212 % Snag the last bibentry in the list for later comparison
7213 \let\@temp@last@bibkey\@empty%
7214 \@for\@temp@bibkey:=#2\do{\let\@temp@last@bibkey\@temp@bibkey}%
7215 \RTLsidenote[#1]{%
7216 % Loop through all the bibentries, separating them with semicolons and spaces
7217 \normalsize\normalfont\@bidityftesidenote@citation@font%
7218 \setcounter{\@bidityftesidenote@num@bibkeys}{0}%
7219 \@for\@temp@bibkeyx:=#2\do{%
7220 \ifthenelse{\equal{\@temp@last@bibkey}{\@temp@bibkeyx}}{%
7221 {\ifthenelse{\equal{\value{\@bidityftesidenote@num@bibkeys}}{0}}{\and\ }%
7222 \@bidityftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
7223 \bibentry{\@temp@bibkeyx}}%
7224 {\@bidityftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
7225 \bibentry{\@temp@bibkeyx};\ }%
7226 \stepcounter{\@bidityftesidenote@num@bibkeys}%
7227 }%
7228 }%
7229 }
7230 %%
7231 % Macros for holding the list of cite keys until after the \sidenote
7232 \gdef\@bidityftesidenote@citations{}% list of cite keys
7233 \newcommand\@bidityftesidenote@add@citation[1]{\relax% adds a new bibkey to the list of cite
7234 \ifx\@bidityftesidenote@citations\@empty\else
7235 \g@addto@macro\@bidityftesidenote@citations{,}% separate by commas
7236 \fi
7237 \g@addto@macro\@bidityftesidenote@citations{#1}
7238 }
7239 \newcommand{\@bidityftesidenote@print@citations}[1][Opt]{% puts the citations in a margin no
7240 % Snag the last bibentry in the list for later comparison
7241 \let\@temp@last@bibkey\@empty%
7242 \@for\@temp@bibkey:=\@bidityftesidenote@citations\do{\let\@temp@last@bibkey\@temp@bibkey}%
7243 \marginpar{%
7244 \hbox{}\vspace*{#1}%
7245 \@bidityftesidenote@citation@font%
7246 \@bidityftesidenote@citation@justification%
7247 \@bidityftesidenote@margin@par% use parindent and parskip settings for marginal text
7248 \vspace*{-1\baselineskip}%
7249 % Loop through all the bibentries, separating them with semicolons and spaces
7250 \setcounter{\@bidityftesidenote@num@bibkeys}{0}%
7251 \@for\@temp@bibkeyx:=\@bidityftesidenote@citations\do{%
7252 \ifthenelse{\equal{\@temp@last@bibkey}{\@temp@bibkeyx}}{%
7253 {\ifthenelse{\equal{\value{\@bidityftesidenote@num@bibkeys}}{0}}{\and\ }%
7254 \@bidityftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
7255 \bibentry{\@temp@bibkeyx}}%
7256 {\@bidityftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
7257 \bibentry{\@temp@bibkeyx};\ }%
7258 \stepcounter{\@bidityftesidenote@num@bibkeys}%
7259 }%
7260 }%
7261 }
7262 %%
7263 % \cite behavior when executed within a sidenote
7264 \newcommand{\@bidityftesidenote@sidenote@citations}{% contains list of \cites in sidenote

```



```

7265 \newcommand{\@bidityftesidenote@infootnote@cite}[1]{%
7266   \@bidityftesidenote@add@citation{#1}
7267 }
7268 %%
7269 % Set the default \cite style. This is set and reset by the \sidenote command.
7270 \let\cite\@bidityftesidenote@normal@cite
7271 \let\LTRcite\@bidityftelTRsidenote@normal@cite
7272 \let\RTLcite\@bidityfteRTLsidenote@normal@cite
7273 %%
7274 % Transform existing \footnotes into \sidenotes
7275 % Sidenote: ``Where God meant footnotes to go.''' ---bidityftesidenote
7276 \RequirePackage{optparams}% for our new sidenote commands -- provides multiple optional arguments
7277 \providecommand{\footnotelayout}{\@bidityftesidenote@sidenote@font\@bidityftesidenote@sidenote@font}%
7278 \renewcommand{\footnotelayout}{\@bidityftesidenote@sidenote@font\@bidityftesidenote@sidenote@font}%
7279 % Override footmisc's definition to set the sidenote marks (numbers) inside the
7280 % sidenote's text block.
7281 \bidi@patch@AfterPackage{bidi}{\long\def\@makefnmark{\@bidityftesidenote@sidenote@font\@bidityftesidenote@sidenote@font}%
7282 % Set the in-text footnote mark in the same typeface as the body text itself.
7283 \bidi@patch@AfterPackage{bidi}{\def\@makefnmark{\hbox{\@bidityftesidenote@sidenote@font\@bidityftesidenote@sidenote@font}%
7284 \providecommand*\@multiplefootnotemarker}{3sp}
7285 \providecommand*\@multfootsep}{,}%
7286 \bidi@patch@AfterPackage{bidi}{%
7287 \renewcommand{\@footnotemark}{%
7288   \leavevmode%
7289   \ifhmode%
7290     \edef\@x@sf{\the\spacefactor}%
7291     \@bidityftesidenote@check@multiple@sidenotes%
7292     \nobreak%
7293   \fi%
7294   \@makefnmark%
7295   \ifhmode\spacefactor\@x@sf\fi%
7296   \relax%
7297 }%
7298 }
7299 \newcommand{\@bidityftesidenote@check@multiple@sidenotes}{%
7300   \ifdim\lastkern=\@multiplefootnotemarker\relax%
7301     \edef\@x@sf{\the\spacefactor}%
7302     \unkern%
7303     \textsuperscript{\@multfootsep}%
7304     \spacefactor\@x@sf\relax%
7305   \fi
7306 }
7307 \bidi@patch@AfterPackage{bidi}{%
7308 \renewcommand\@footnotetext[2][0pt]{%
7309   \bidityftesidenotemarginpar{%
7310     \hbox{} \vspace*{#1}%
7311     \def\baselinestretch {\setspace@singlespace}%
7312     \reset@font%
7313     \bidi@footnotetext@font% \reset@font\footnotesize%
7314     \@bidityftesidenote@margin@par% use parindent and parskip settings for marginal text
7315     \vspace*{-1\baselineskip}\noindent%
7316     \protected@edef\@currentlabel{%
7317       \csname p@footnote\endcsname\@thefnmark%
7318     }%

```



```

7319 \color@begingroup%
7320 \makefnintext{%
7321 \ignorespaces#2%
7322 }%
7323 \color@endgroup%
7324 }%
7325 }%
7326 \renewcommand\@LTRfootnotetext[2][Opt]{%
7327 \LTRbidityftesidenotemarginpar{%
7328 \hbox{}\vspace*{#1}%
7329 \def\baselinestretch {\setspace@singlespace}%
7330 \reset@font%
7331 \bidi@LTRfootnotetext@font% \reset@font\footnotesize%
7332 \@bidityftesidenote@margin@par% use parindent and parskip settings for marginal text
7333 \vspace*{-1\baselineskip}\noindent%
7334 \protected@edef\@currentlabel{%
7335 \csname p@footnote\endcsname\@thefnmark%
7336 }%
7337 \color@begingroup%
7338 \makefnintext{%
7339 \ignorespaces#2%
7340 }%
7341 \color@endgroup%
7342 }%
7343 }%
7344 \renewcommand\@RTLfootnotetext[2][Opt]{%
7345 \RTLbidityftesidenotemarginpar{%
7346 \hbox{}\vspace*{#1}%
7347 \def\baselinestretch {\setspace@singlespace}%
7348 \reset@font%
7349 \bidi@RTLfootnotetext@font% \reset@font\footnotesize%
7350 \@bidityftesidenote@margin@par% use parindent and parskip settings for marginal text
7351 \vspace*{-1\baselineskip}\noindent%
7352 \protected@edef\@currentlabel{%
7353 \csname p@footnote\endcsname\@thefnmark%
7354 }%
7355 \color@begingroup%
7356 \makefnintext{%
7357 \ignorespaces#2%
7358 }%
7359 \color@endgroup%
7360 }%
7361 }%
7362 }
7363 %
7364 % Define \sidenote command. Can handle \cite.
7365 \newlength{\@bidityftesidenote@sidenote@vertical@offset}
7366 \setlength{\@bidityftesidenote@sidenote@vertical@offset}{0pt}
7367 % #1 = footnote num, #2 = vertical offset, #3 = footnote text
7368 \long\def\@bidityftesidenote@sidenote[#1][#2]#3{%
7369 \let\cite\@bidityftesidenote@infootnote@cite% use the in-sidenote \cite command
7370 \gdef\@bidityftesidenote@citations{}% clear out any old citations
7371 \ifthenelse{\NOT\isempty{#2}}{%
7372 \gsetlength{\@bidityftesidenote@sidenote@vertical@offset}{#2}%

```



```

7373 }{%
7374   \gsetlength{\@bidityftesidenote@sidenote@vertical@offset}{0pt}%
7375 }%
7376 \ifthenelse{\isempty{#1}}{%
7377   % no specific footnote number provided
7378   \stepcounter{\@mpfn}%
7379   \protected@xdef\@thefnmark{\thempfn}%
7380   \@footnotemark\@footnotetext[\@bidityftesidenote@sidenote@vertical@offset]{#3}%
7381 }{%
7382   % specific footnote number provided
7383   \begingroup%
7384     \csname c@\@mpfn\endcsname #1\relax%
7385     \unrestored@protected@xdef\@thefnmark{\thempfn}%
7386   \endgroup%
7387   \@footnotemark\@footnotetext[\@bidityftesidenote@sidenote@vertical@offset]{#3}%
7388 }%
7389 \@bidityftesidenote@print@citations%          print any citations
7390 \let\cite\@bidityftesidenote@normal@cite%      go back to using normal in-text \cite comm
7391 \let\LTRcite\@bidityfteLTRsidenote@normal@cite% go back to using normal in-text \LTR
7392 \let\RTLcite\@bidityfteRTLsidenote@normal@cite% go back to using normal in-text \RTL
7393 \unskip\ignorespaces%                          remove extra white space
7394 \kern-\multiplefootnotemarker%                 remove \kern left behind by sidenote
7395 \kern\multiplefootnotemarker\relax% add new \kern here to replace the one we yanked
7396 }
7397 \long\def\@LTRbidityftesidenote@sidenote[#1][#2]#3{%
7398   \let\cite\@bidityftesidenote@infootnote@cite% use the in-sidenote \cite command
7399   \gdef\@bidityftesidenote@citations{}%         clear out any old citations
7400   \ifthenelse{\NOT\isempty{#2}}{%
7401     \gsetlength{\@bidityftesidenote@sidenote@vertical@offset}{#2}%
7402   }{%
7403     \gsetlength{\@bidityftesidenote@sidenote@vertical@offset}{0pt}%
7404   }%
7405   \ifthenelse{\isempty{#1}}{%
7406     % no specific footnote number provided
7407     \stepcounter{\@mpfn}%
7408     \protected@xdef\@thefnmark{\thempfn}%
7409     \@footnotemark\@LTRfootnotetext[\@bidityftesidenote@sidenote@vertical@offset]{#3}%
7410   }{%
7411     % specific footnote number provided
7412     \begingroup%
7413       \csname c@\@mpfn\endcsname #1\relax%
7414       \unrestored@protected@xdef\@thefnmark{\thempfn}%
7415     \endgroup%
7416     \@footnotemark\@LTRfootnotetext[\@bidityftesidenote@sidenote@vertical@offset]{#3}%
7417   }%
7418   \@bidityftesidenote@print@citations%          print any citations
7419   \let\cite\@bidityftesidenote@normal@cite%      go back to using normal in-text \cite comm
7420   \let\LTRcite\@bidityfteLTRsidenote@normal@cite% go back to using normal in-text \LTR
7421   \let\RTLcite\@bidityfteRTLsidenote@normal@cite% go back to using normal in-text \RTL
7422   \unskip\ignorespaces%                          remove extra white space
7423   \kern-\multiplefootnotemarker%                 remove \kern left behind by sidenote
7424   \kern\multiplefootnotemarker\relax% add new \kern here to replace the one we yanked
7425 }
7426 \long\def\@RTLbidityftesidenote@sidenote[#1][#2]#3{%

```





```

7427 \let\cite\@bidityftesidenote@infootnote@cite%    use the in-sidenote \cite command
7428 \gdef\@bidityftesidenote@citations{}%            clear out any old citations
7429 \ifthenelse{\NOT\isempty{#2}}{%
7430     \gsetlength{\@bidityftesidenote@sidenote@vertical@offset}{#2}%
7431 }{%
7432     \gsetlength{\@bidityftesidenote@sidenote@vertical@offset}{0pt}%
7433 }%
7434 \ifthenelse{\isempty{#1}}{%
7435     % no specific footnote number provided
7436     \stepcounter\@mpfn%
7437     \protected@xdef\@thefnmark{\thempfn}%
7438     \@footnotemark\@RTLfootnotetext[\@bidityftesidenote@sidenote@vertical@offset]{#3}%
7439 }{%
7440     % specific footnote number provided
7441     \begingroup%
7442         \csname c@\@mpfn\endcsname #1\relax%
7443         \unrestored@protected@xdef\@thefnmark{\thempfn}%
7444     \endgroup%
7445     \@footnotemark\@RTLfootnotetext[\@bidityftesidenote@sidenote@vertical@offset]{#3}%
7446 }%
7447 \@bidityftesidenote@print@citations%              print any citations
7448 \let\cite\@bidityftesidenote@normal@cite%         go back to using normal in-text \cite comm
7449 \let\LTRcite\@bidityfteLTRsidenote@normal@cite%   go back to using normal in-text \LTR
7450 \let\RTLcite\@bidityfteRTLsidenote@normal@cite%   go back to using normal in-text \RTL
7451 \unskip\ignorespaces%                             remove extra white space
7452 \kern-\multiplefootnotemarker%                   remove \kern left behind by sidenote
7453 \kern\multiplefootnotemarker\relax% add new \kern here to replace the one we yanked
7454 }
7455 \newcommand{\sidenote}{\@optparams{\@bidityftesidenote@sidenote}{[] [Opt]}}
7456 \newcommand{\LTRsidenote}{\@optparams{\@LTRbidityftesidenote@sidenote}{[] [Opt]}}
7457 \newcommand{\RTLsidenote}{\@optparams{\@RTLbidityftesidenote@sidenote}{[] [Opt]}}
7458 \bidi@patch@AfterPackage{bidi}{%
7459 \renewcommand{\footnote}{\@optparams{\@bidityftesidenote@sidenote}{[] [Opt]}}%
7460 \renewcommand{\LTRfootnote}{\@optparams{\@LTRbidityftesidenote@sidenote}{[] [Opt]}}%
7461 \renewcommand{\RTLfootnote}{\@optparams{\@RTLbidityftesidenote@sidenote}{[] [Opt]}}%
7462 }
7463 %%
7464 % Sidenote without the footnote mark
7465 \newcommand\marginnote[2] [Opt]{%
7466 \let\cite\@bidityftesidenote@infootnote@cite%    use the in-sidenote \cite command
7467 \gdef\@bidityftesidenote@citations{}%            clear out any old citations
7468 \bidityftesidenotemarginpar{\hbox{} \vspace*{#1}}\@bidityftesidenote@marginnote@font\@bidity
7469 \@bidityftesidenote@print@citations%              print any citations
7470 \let\cite\@bidityftesidenote@normal@cite%         go back to using normal in-text \cite comm
7471 \let\LTRcite\@bidityfteLTRsidenote@normal@cite%   go back to using normal in-text \LTR
7472 \let\RTLcite\@bidityfteRTLsidenote@normal@cite%   go back to using normal in-text \RTL
7473 }
7474 \newcommand\LTRmarginnote[2] [Opt]{%
7475 \let\cite\@bidityftesidenote@infootnote@cite%    use the in-sidenote \cite command
7476 \gdef\@bidityftesidenote@citations{}%            clear out any old citations
7477 \LTRbidityftesidenotemarginpar{\hbox{} \vspace*{#1}}\@bidityftesidenote@LTRmarginnote@font\@
7478 \@bidityftesidenote@print@citations%              print any citations
7479 \let\cite\@bidityftesidenote@normal@cite%         go back to using normal in-text \cite comm
7480 \let\LTRcite\@bidityfteLTRsidenote@normal@cite%   go back to using normal in-text \LTR

```



```

7481 \let\RTLcite\@bidityfteRTLsidenote@normal@cite%      go back to using normal in-text \RTL
7482 }
7483 \newcommand\RTLmarginnote[2][Opt]{%
7484   \let\cite\@bidityftesidenote@infootnote@cite%      use the in-sidenote \cite command
7485   \gdef\@bidityftesidenote@citations{}%             clear out any old citations
7486   \RTLbidityftesidenotemarginpar{\hbox{}}\vspace*{#1}\@bidityftesidenote@RTLmarginnote@font\
7487   \@bidityftesidenote@print@citations%               print any citations
7488   \let\cite\@bidityftesidenote@normal@cite%          go back to using normal in-text \cite comm
7489   \let\LTRcite\@bidityfteLTRsidenote@normal@cite%    go back to using normal in-text \LTR
7490   \let\RTLcite\@bidityfteRTLsidenote@normal@cite%    go back to using normal in-text \RTL
7491 }

```

## 47 File bidityftetoc.sty

```

7492 \NeedsTeXFormat{LaTeX2e}
7493 \ProvidesPackage{bidityftetoc}[2011/06/17 v0.1
7494 bidi implementation of tufte toc]
7495 \RequirePackage{titlesec,titletoc,xifthen,biditytools}
7496 \newcommand{\@bidityftetoc@pkgname}{bidityftetoc}
7497 \newcommand{\@bidityftetocError}[2]{\PackageError{\@bidityftetoc@pkgname}{#1}{#2}}
7498 %%
7499 % Turn off section numbering
7500 \setcounter{secnumdepth}{-1}
7501 \newboolean{@bidityftetoc@toc}
7502 \setboolean{@bidityftetoc@toc}{true}
7503 \DeclareOption{notoc}{\setboolean{@bidityftetoc@toc}{false}}
7504 \DeclareOption{toc}{\setboolean{@bidityftetoc@toc}{true}}
7505 \ProcessOptions
7506 %%
7507 % Make Tuftean-style section headings and TOC formatting
7508 \bidi@patch@AfterPackage{bidi}{%
7509 \titleformat{\chapter}%
7510   [display]% shape
7511   {\relax\ifthenelse{NOT\boolean{@bidityftefloat@symmetric}}{\begin{fullwidth}}{}}% format
7512   {\itshape\huge\thechapter}% label
7513   {Opt}% horizontal separation between label and title body
7514   {\huge\rmfamily\itshape}% before the title body
7515   [\ifthenelse{NOT\boolean{@bidityftefloat@symmetric}}{\end{fullwidth}}{}}% after the title
7516 \titleformat{\section}%
7517   [hang]% shape
7518   {\normalfont\Large\itshape}% format applied to label+text
7519   {\thesection}% label
7520   {1em}% horizontal separation between label and title body
7521   {}% before the title body
7522   []% after the title body
7523 \titleformat{\subsection}%
7524   [hang]% shape
7525   {\normalfont\large\itshape}% format applied to label+text
7526   {\thesubsection}% label
7527   {1em}% horizontal separation between label and title body
7528   {}% before the title body
7529   []% after the title body
7530 \titleformat{\paragraph}%
7531   [runin]% shape

```



```

7532 {\normalfont\itshape}% format applied to label+text
7533 {\theparagraph}% label
7534 {1em}% horizontal separation between label and title body
7535 {}% before the title body
7536 []% after the title body
7537 \titlespacing*{\chapter}{0pt}{50pt}{40pt}
7538 \titlespacing*{\section}{0pt}{3.5ex plus 1ex minus .2ex}{2.3ex plus .2ex}
7539 \titlespacing*{\subsection}{0pt}{3.25ex plus 1ex minus .2ex}{1.5ex plus.2ex}
7540 }
7541 % Subsubsection and following section headings shouldn't be used.
7542 % See Bringham's _The Elements of Typography_, section 4.2.2.
7543 \renewcommand\subsubsection{%
7544   \biditytetocError{\noexpand\subsubsection is undefined by this class.%
7545     \MessageBreak See Robert Bringham's _The Elements of
7546       \MessageBreak Typographic Style_, section 4.2.2.
7547       \MessageBreak \noexpand\subsubsection was used}
7548     {From Bringham's _The Elements of Typographic Style_, section 4.2.2: Use as
7549       \MessageBreak many levels of headings as you need, no more and no fewer. Also see the m
7550       \MessageBreak related threads on Ask E.T. at http://www.edwardbiditytetoc.com/.}
7551 }
7552 \renewcommand\subparagraph{%
7553   \biditytetocError{\noexpand\subparagraph is undefined by this class.%
7554     \MessageBreak See Robert Bringham's _The Elements of
7555       \MessageBreak Typographic Style_, section 4.2.2.
7556       \MessageBreak \noexpand\subparagraph was used}
7557     {From Bringham's _The Elements of Typographic Style_, section 4.2.2: Use as
7558       \MessageBreak many levels of headings as you need, no more and no fewer. Also see the m
7559       \MessageBreak related threads on Ask E.T. at http://www.edwardbiditytetoc.com/.}
7560 }
7561 % Formatting for main TOC (printed in front matter)
7562 % {section} [left] {above} {before w/label} {before w/o label} {filler + page} [after]
7563 \ifthenelse{\boolean{@biditytetoc@toc}}{%
7564   \bidity@patch@AfterPackage{bidi}{%
7565     \titlecontents{part}% FIXME
7566       [0em] % distance from left margin
7567       {\vspace{1.5\baselineskip}\begin{fullwidth}\LARGE\rmfamily\itshape} % above (global form
7568       {\contentslabel{2em}} % before w/label (label = ``II'')
7569       {} % before w/o label
7570       {\rmfamily\upshape\qqquad\thecontentspage} % filler + page (leaders and page num)
7571       [\end{fullwidth}] % after
7572     \titlecontents{chapter}%
7573       [0em] % distance from left margin
7574       {\vspace{1.5\baselineskip}\begin{fullwidth}\LARGE\rmfamily\itshape} % above (global form
7575       {\hspace*{0em}\contentslabel{2em}} % before w/label (label = ``2'')
7576       {\hspace*{0em}} % before w/o label
7577       {\rmfamily\upshape\qqquad\thecontentspage} % filler + page (leaders and page num)
7578       [\end{fullwidth}] % after
7579     \titlecontents{section}% FIXME
7580       [0em] % distance from left margin
7581       {\vspace{0\baselineskip}\begin{fullwidth}\Large\rmfamily\itshape} % above (global format
7582       {\hspace*{2em}\contentslabel{2em}} % before w/label (label = ``2.6'')
7583       {\hspace*{2em}} % before w/o label
7584       {\rmfamily\upshape\qqquad\thecontentspage} % filler + page (leaders and page num)
7585       [\end{fullwidth}] % after

```



```

7586 \titlecontents{subsection}% FIXME
7587     [0em] % distance from left margin
7588     {\vspace{0\baselineskip}\begin{fullwidth}\large\rmfamily\itshape} % above (global format
7589     {\hspace*{4em}\contentslabel{4em}} % before w/label (label = ``2.6.1'')
7590     {\hspace*{4em}} % before w/o label
7591     {\rmfamily\upshape\qqquad\thecontentspage} % filler + page (leaders and page num)
7592     [\end{fullwidth}] % after
7593 \titlecontents{paragraph}% FIXME
7594     [0em] % distance from left margin
7595     {\vspace{0\baselineskip}\begin{fullwidth}\normalsize\rmfamily\itshape} % above (global f
7596     {\hspace*{6em}\contentslabel{2em}} % before w/label (label = ``2.6.0.0.1'')
7597     {\hspace*{6em}} % before w/o label
7598     {\rmfamily\upshape\qqquad\thecontentspage} % filler + page (leaders and page num)
7599     [\end{fullwidth}] % after
7600 }%
7601 {}
7602 %%
7603 % Format lists of figures/tables
7604 \renewcommand\listoffigures{%
7605     \ifundefined{chapter}%
7606         {\section*{\listfigurename}}%
7607         {\chapter*{\listfigurename}}%
7608 % \begin{fullwidth}%
7609 % \starttoc{lof}%
7610 % \end{fullwidth}%
7611 }
7612 \renewcommand\listoftables{%
7613     \ifundefined{chapter}%
7614         {\section*{\listtablename}}%
7615         {\chapter*{\listtablename}}%
7616 % \begin{fullwidth}%
7617 % \starttoc{lot}%
7618 % \end{fullwidth}%
7619 }
7620 \newcommand{\@biditytetoc@lof@line}[2]{%
7621     % #1 is the figure/table number and its caption text
7622     % #2 is the page number on which the figure/table appears
7623     \leftskip 0.0em
7624     \rightskip 0em
7625     \parfillskip 0em plus 1fil
7626     \parindent 0.0em
7627     \@afterindenttrue
7628     \interlinepenalty\@M
7629     \leavevmode
7630     \@tempdima 2.0em
7631     \if@RTL\advance\rightskip\@tempdima\else\advance\leftskip\@tempdima\fi
7632     \null\nobreak\hskip -\if@RTL\rightskip\else\leftskip\fi
7633     {#1}\nobreak\qqquad\nobreak#2%
7634     \par%
7635 }
7636 \renewcommand*\l@figure{\@biditytetoc@lof@line}
7637 \let\l@table\l@figure

```



## 48 File `bidituftegeneralstructure.sty`

```
7638 \NeedsTeXFormat{LaTeX2e}
7639 \ProvidesPackage{bidituftegeneralstructure}[2011/06/18 v0.1
7640 bidi implementation of tufte general structure]
7641 \renewcommand\small{%
7642   \@setfontsize\small\@ixpt{12}%
7643   \abovedisplayskip 8.5\p@ \@plus3\p@ \@minus4\p@
7644   \abovedisplayshortskip \z@ \@plus2\p@
7645   \belowdisplayshortskip 4\p@ \@plus2\p@ \@minus2\p@
7646   \def\@listi{\leftmargin\leftmargini
7647     \topsep 4\p@ \@plus2\p@ \@minus2\p@
7648     \parsep 2\p@ \@plus\p@ \@minus\p@
7649     \itemsep \parsep}%
7650   \belowdisplayskip \abovedisplayskip
7651 }
7652 \renewcommand\scriptsize{\@setfontsize\scriptsize\@viipt\@viipt}
7653 \renewcommand\tiny{\@setfontsize\tiny\@vpt\@vpt}
7654 \renewcommand\large{\@setfontsize\large\@xipt{15}}
7655 \renewcommand\Large{\@setfontsize\Large\@xiipt{16}}
7656 \renewcommand\LARGE{\@setfontsize\LARGE\@xivpt{18}}
7657 \renewcommand\huge{\@setfontsize\huge\@xxpt{30}}
7658 \renewcommand\Huge{\@setfontsize\Huge{24}{36}}
7659 \setlength\leftmargini {1pc}
7660 \setlength\leftmarginii {1pc}
7661 \setlength\leftmarginiii {1pc}
7662 \setlength\leftmarginiv {1pc}
7663 \setlength\leftmarginv {1pc}
7664 \setlength\leftmarginvi {1pc}
7665 \setlength\labelsep {.5pc}
7666 \setlength\labelwidth {\leftmargini}
7667 \addtolength\labelwidth{-\labelsep}
7668 \setlength{\parindent}{1.0pc}%
7669 \setlength{\parskip}{0pt}%
7670 \RequirePackage{ragged2e}
7671 \setlength{\RaggedRightRightskip}{\z@ plus 0.08\hsize}
7672 % Paragraph indentation and separation for normal text
7673 \newcommand{\@bidituftegeneralstructure@reset@par}{%
7674   \setlength{\RaggedRightParindent}{1.0pc}%
7675   \setlength{\JustifyingParindent}{1.0pc}%
7676   \setlength{\parindent}{1pc}%
7677   \setlength{\parskip}{0pt}%
7678 }
7679 \@bidituftegeneralstructure@reset@par
7680 % Require paralist package for tighter lists
7681 \RequirePackage{paralist}
7682 % Add rightmargin to compactenum
7683 \def\@compactenum{%
7684   \expandafter\list\csname label\@enumctr\endcsname{%
7685     \usecounter{\@enumctr}%
7686     \rightmargin=2em% added this
7687     \parsep\plparsep
7688     \itemsep\plitemsep
7689     \topsep\pltopsep
```



```

7690 \partopsep\plpartopsep
7691 \def\makelabel##1{\hss\llap{##1}}
7692 %%
7693 % An environment for paragraph-style section
7694 \providecommand\newthought[1]{%
7695   \addvspace{1.0\baselineskip plus 0.5ex minus 0.2ex}%
7696   \noindent\textbf{#1}%
7697 }
7698 %%
7699 % Redefine the display environments (quote, quotation, etc.)
7700 \renewenvironment{verse}
7701   {\let\\@centercr
7702    \list{}{\itemsep \z@
7703     \itemindent -1pc%
7704     \listparindent\itemindent
7705     \rightmargin \leftmargin
7706     \advance\leftmargin 1pc}%
7707    \small%
7708    \item\relax}
7709   {\endlist}
7710 \renewenvironment{quotation}
7711   {\list{}{\listparindent 1pc%
7712    \itemindent \listparindent
7713    \rightmargin \leftmargin
7714    \parsep \z@ \@plus\p@}%
7715    \small%
7716    \item\relax\noindent\ignorespaces}
7717   {\endlist}
7718 \renewenvironment{quote}
7719   {\list{}{\rightmargin\leftmargin}%
7720    \small%
7721    \item\relax}
7722   {\endlist}
7723 % Italicize description run-in headings (instead of the default bold)
7724 \renewcommand*{\descriptionlabel[1]{\hspace\labelsep\normalfont\em #1}
7725 }
7726 % Redefine \bibsection to not mark the running heads.
7727 % (Code modified from natbib.sty.)
7728 \@ifundefined{chapter}%
7729   {\renewcommand\bibsection{\section*{\refname}}}
7730   {\@ifundefined{NAT@sectionbib}%
7731     {\renewcommand\bibsection{\chapter{\bibname}}}
7732     {\renewcommand\bibsection{\section*{\bibname}}}}
7733 \RequirePackage{multicol}
7734 \renewenvironment{theindex}{%
7735   \@ifundefined{chapter}%
7736     {\section*{\indexname}}%
7737     {\chapter{\indexname}}%
7738   \begin{fullwidth}%
7739   \small%
7740   \parskip0pt%
7741   \parindent0pt%
7742   \let\item\@idxitem%
7743   \begin{multicols}{3}%

```



```

7744 }{%
7745   \end{multicols}%
7746   \end{fullwidth}%
7747 }
7748 \AtBeginDocument{%
7749 \renewcommand\@idxitem{\par\hangindent \if@RTL-\fi2em}%
7750 \renewcommand\subitem{\par\hangindent \if@RTL-\fi3em\hspace*{1em}}%
7751 \renewcommand\subsubitem{\par\hangindent \if@RTL-\fi4em\hspace*{2em}}%
7752 \renewcommand\indexspace{\par\addvspace{1.0\baselineskip plus 0.5ex minus 0.2ex}\relax}%
7753 \newcommand{\lettergroup}[1]{}% swallow the letter heading in the index

```

## 49 File `bidituftehyperref.sty`

```

7754 \NeedsTeXFormat{LaTeX2e}
7755 \ProvidesPackage{bidituftehyperref}[2011/06/18 v0.1
7756 bidi implementation of tufte hyperref]
7757 %%
7758 % Color
7759 \RequirePackage[usenames,dvipsnames,svgnames]{xcolor}%
7760 \newboolean{@bidituftehyperref@loadhyper}
7761 \setboolean{@bidituftehyperref@loadhyper}{true}
7762 \DeclareOption{hyper}{\setboolean{@bidituftehyperref@loadhyper}{true}}
7763 \DeclareOption{nohyper}{\setboolean{@bidituftehyperref@loadhyper}{false}}
7764 \ProcessOptions
7765 %% Loads the hyperref package and sets some default options.
7766 \newcommand{\bidituftehyperrefLoadHyperref}{%
7767 \RequirePackage[hyperfootnotes=false,colorlinks=true]{hyperref}
7768   \hypersetup{%
7769     bookmarksdepth = section,
7770     citecolor = DarkGreen,
7771     linkcolor = DarkBlue,
7772     pagecolor = DarkBlue,
7773     urlcolor = DarkGreen,
7774   }%
7775 }
7776 \ifthenelse{\boolean{@bidituftehyperref@loadhyper}}{%
7777   \bidituftehyperrefLoadHyperref%
7778 }{% hyperfootnotes override our modifications to the \footnote* and \@footnote* commands.
7779   \PassOptionsToPackage{hyperfootnotes=false}{hyperref}
7780 }

```

## 50 File `bidituftetitle.sty`

```

7781 \NeedsTeXFormat{LaTeX2e}
7782 \ProvidesPackage{bidituftetitle}[2011/06/18 v0.1
7783 bidi implementation of tufte title]
7784 \RequirePackage{biditools}
7785 %%
7786 % `titlepage' option -- creates a full title page with \maketitle
7787 \newboolean{@bidituftetitle@titlepage}
7788 \DeclareOption{titlepage}{\setboolean{@bidituftetitle@titlepage}{true}}
7789 \DeclareOption{notitlepage}{\setboolean{@bidituftetitle@titlepage}{false}}
7790 % Default `book' and `handout' options
7791 \ifclassloaded{book}{%

```



```

7792 \ExecuteOptions{titlepage}}{%
7793 \@ifclassloaded{article}{%
7794 \ExecuteOptions{notitlepage}}%
7795 {}}
7796 \ProcessOptions
7797 %%
7798 % Modified \title, \author, and \date commands. These store the
7799 % (footnote-less) values in \plaintitle, \plainauthor, and \thedata, respectively.
7800 \newcommand{\plaintitle}{}% plain-text-only title
7801 \newcommand{\plainauthor}{}% plain-text-only author
7802 \newcommand{\plainpublisher}{}% plain-text-only publisher
7803 \newcommand{\thanklesstitle}{}% full title text minus \thanks{}
7804 \newcommand{\thanklessauthor}{}% full author text minus \thanks{}
7805 \newcommand{\thanklesspublisher}{}% full publisher minus \thanks{}
7806 \newcommand{\@publisher}{}% full publisher with \thanks{}
7807 \newcommand{\thedata}{\today}
7808 \bidi@patch@AfterPackage{bidi}{%
7809 \renewcommand{\thanks}[1]{\footnote{#1}}
7810 \renewcommand{\LTRthanks}[1]{\LTRfootnote{#1}}
7811 \renewcommand{\RTLthanks}[1]{\RTLfootnote{#1}}
7812 }
7813 \renewcommand{\title}[2][]{%
7814 \gdef\@title{#2}%
7815 \begingroup%
7816 % TODO store contents of \thanks command
7817 \renewcommand{\thanks}[1]{}% swallow \thanks contents
7818 \renewcommand{\LTRthanks}[1]{}% swallow \LTRthanks contents
7819 \renewcommand{\RTLthanks}[1]{}% swallow \RTLthanks contents
7820 \protected@xdef\thanklesstitle{#2}%
7821 \endgroup%
7822 \ifthenelse{\isempty{#1}}{%
7823 {\renewcommand{\plaintitle}{\thanklesstitle}}% use thankless title
7824 {\renewcommand{\plaintitle}{#1}}% use provided plain-text title
7825 \@ifundefined{hypersetup}%
7826 {}% hyperref is not loaded; do nothing
7827 {\hypersetup{pdftitle={\plaintitle}}}% set the PDF metadata title
7828 }
7829 \let\@author\@empty% suppress default latex.ltx ``no author'' warning
7830 \renewcommand{\author}[2][]{%
7831 \ifthenelse{\isempty{#2}}{\gdef\@author{#2}}%
7832 \begingroup%
7833 % TODO store contents of \thanks command
7834 \renewcommand{\thanks}[1]{}% swallow \thanks contents
7835 \renewcommand{\LTRthanks}[1]{}% swallow \LTRthanks contents
7836 \renewcommand{\RTLthanks}[1]{}% swallow \RTLthanks contents
7837 \protected@xdef\thanklessauthor{#2}%
7838 \endgroup%
7839 \ifthenelse{\isempty{#1}}{%
7840 {\renewcommand{\plainauthor}{\thanklessauthor}}% use thankless author
7841 {\renewcommand{\plainauthor}{#1}}% use provided plain-text author
7842 \@ifundefined{hypersetup}%
7843 {}% hyperref is not loaded; do nothing
7844 {\hypersetup{pdfauthor={\plainauthor}}}% set the PDF metadata author
7845 }

```





```

7846 \renewcommand{\date}[1]{%
7847   \gdef\@date{#1}%
7848   \begingroup%
7849     % TODO store contents of \thanks command
7850     \renewcommand{\thanks}[1]{}% swallow \thanks contents
7851     \renewcommand{\LTRthanks}[1]{}% swallow \LTRthanks contents
7852     \renewcommand{\RTLthanks}[1]{}% swallow \RTLthanks contents
7853     \protected@xdef\thedata{#1}%
7854   \endgroup%
7855 }
7856 %%
7857 % Provides a \publisher command to set the publisher
7858 \newcommand{\publisher}[2][]{%
7859   \gdef\@publisher{#2}%
7860   \begingroup%
7861     \renewcommand{\thanks}[1]{}% swallow \thanks contents
7862     \renewcommand{\LTRthanks}[1]{}% swallow \LTRthanks contents
7863     \renewcommand{\RTLthanks}[1]{}% swallow \RTLthanks contents
7864     \protected@xdef\thanklesspublisher{#2}%
7865   \endgroup%
7866   \ifthenelse{\isempty{#1}}{
7867     {\renewcommand{\plainpublisher}{\thanklesspublisher}}% use thankless publisher
7868     {\renewcommand{\plainpublisher}{#1}}% use provided plain-text publisher
7869   }
7870 %%
7871 % Produces a full title page
7872 \newcommand{\maketitlepage}[0]{%
7873   \cleardoublepage%
7874   {%
7875     \bfseries%
7876     \begin{fullwidth}%
7877       \fontsize{18}{20}\selectfont\par\noindent\thanklessauthor%
7878       \vspace{11.5pc}%
7879       \fontsize{36}{40}\selectfont\par\noindent\thanklesstitle%
7880       \vfill%
7881       \fontsize{14}{16}\selectfont\par\noindent\thanklesspublisher%
7882     \end{fullwidth}%
7883   }
7884   \thispagestyle{empty}%
7885   \clearpage%
7886 }
7887 %%
7888 % Title block
7889 \bidi@AfterEndPreamble{%
7890 \renewcommand{\maketitle}{%
7891   \newpage%
7892   \global\@topnum\z@% prevent floats from being placed at the top of the page
7893   \begingroup%
7894     \setlength{\parindent}{0pt}%
7895     \setlength{\parskip}{4pt}%
7896     \let\@title\@empty%
7897     \let\@author\@empty%
7898     \let\@date\@empty%
7899     \gdef\@title{\LARGE\itshape\@title\par}%

```



```

7900     \gdef\@@author{\Large\itshape\@author\par}%
7901     \gdef\@@date{\Large\itshape\@date\par}%
7902     \@@title%
7903     \@@author%
7904     \@@date%
7905     \endgroup%
7906     \thispagestyle{plain}% suppress the running head
7907 }%
7908 }
7909 %%
7910 % Title page (if the `titlepage' option was passed to the bidentufte-handout
7911 % class.)
7912 \bidi@AfterEndPreamble{%
7913 \ifthenelse{\boolean{@bidentufte@titlepage}}{
7914   {\renewcommand{\maketitle}{\maketitlepage}}
7915   {}
7916 }
7917 %%
7918 % When \cleardoublepage is called, produce a blank (empty) page -- i.e.,
7919 % without headers and footers
7920 \def\cleardoublepage{\clearpage\if@twoside\ifodd\c@page\else
7921   \hbox{}
7922   %\vspace*{\fill}
7923   %\begin{center}
7924   % This page intentionally contains only this sentence.
7925   %\end{center}
7926   %\vspace{\fill}
7927   \thispagestyle{empty}
7928   \newpage
7929   \if@twocolumn\hbox{}\newpage\fi\fi\fi}

```

## 51 File bidentufte-handout.cls

```

7930 \NeedsTeXFormat{LaTeX2e}[1994/06/01]
7931 \ProvidesClass{bidentufte-handout}[2011/06/18 v0.1 bidentufte-handout class]
7932 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{article}}
7933 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidentuftefloat}}
7934 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidentuftetoc}}
7935 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidentuftehyperref}}
7936 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidentuftetitle}}
7937 \ProcessOptions\relax
7938 \LoadClass{article}
7939 \RequirePackage{bidentuftefloat}
7940 \RequirePackage{bidentuftesidenote}
7941 \RequirePackage{bidentuftetoc}
7942 \RequirePackage{bidentuftegeneralstructure}
7943 \RequirePackage{bidentuftehyperref}
7944 \RequirePackage{bidentuftetitle}
7945 \renewenvironment{abstract}
7946   {\begin{quotation}}
7947   {\end{quotation}}
7948 \AtBeginDocument{%
7949 \IfFileExists{bidentufte-handout.cfg}{
7950   {\input{bidentufte-handout.cfg}}

```



```

7951 \ClassInfo{bidityfte-handout}{Loading bidityfte-handout configuration file \@gobble}}
7952 {}%
7953 }

```

## 52 File bidityfte-book.cls

```

7954 \NeedsTeXFormat{LaTeX2e}[1994/06/01]
7955 \ProvidesClass{bidityfte-book}[2011/06/18 v0.1 bidityfte-book class]
7956 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{book}}
7957 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidityftefloat}}
7958 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidityftetoc}}
7959 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidityftehyperref}}
7960 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidityftetitle}}
7961 \ProcessOptions\relax
7962 \LoadClass{book}
7963 \RequirePackage{bidityftefloat}
7964 \RequirePackage{bidityftesidenote}
7965 \RequirePackage{bidityftetoc}
7966 \RequirePackage{bidityftegeneralstructure}
7967 \RequirePackage{bidityftehyperref}
7968 \RequirePackage{bidityftetitle}
7969 %%
7970 % Set up any book-specific stuff now
7971 %%
7972 % The front matter in Tufte's /Beautiful Evidence/ contains everything up
7973 % to the opening page of Chapter 1. The running heads, when they appear,
7974 % contain only the (arabic) page number in the outside corner.
7975 %\newif\if@mainmatter \@mainmattertrue
7976 \renewcommand\frontmatter{%
7977   \cleardoublepage%
7978   \@mainmatterfalse%
7979   \pagenumbering{arabic}%
7980   %\pagestyle{plain}%
7981   \fancyhf{}%
7982   \ifthenelse{\boolean{@bidityftefloat@twoside}}{%
7983     {\fancyhead[LE,RO]{\thepage}}%
7984     {\fancyhead[RE,RO]{\thepage}}%
7985   }
7986 %%
7987 % The main matter in Tufte's /Beautiful Evidence/ doesn't restart the page
7988 % numbering---it continues where it left off in the front matter.
7989 \renewcommand\mainmatter{%
7990   \cleardoublepage%
7991   \@mainmattertrue%
7992   \fancyhf{}%
7993   \ifthenelse{\boolean{@bidityftefloat@twoside}}{%
7994     {\renewcommand{\chaptermark}[1]{\markboth{##1}{}}}%
7995     \fancyhead[LE]{\thepage\quad\smallcaps{\newlinetospace{\plaintitle}}}% book title
7996     \fancyhead[RO]{\smallcaps{\newlinetospace{\leftmark}}\quad\thepage}% chapter title
7997     {\fancyhead[RE,RO]{\smallcaps{\newlinetospace{\plaintitle}}\quad\thepage}}% book title
7998   }
7999 %%
8000 % The back matter contains appendices, indices, glossaries, endnotes,
8001 % bibliographies, list of contributors, illustration credits, etc.

```



```

8002 \renewcommand\backmatter{%
8003   \if@openright%
8004     \cleardoublepage%
8005   \else%
8006     \clearpage%
8007   \fi%
8008   \@mainmatterfalse%
8009 }
8010 %%
8011 % Only show the chapter titles in the table of contents
8012 \setcounter{tocdepth}{0}
8013 \AtBeginDocument{%
8014   \IfFileExists{biditufte-book.cfg}
8015     {\input{biditufte-book.cfg}
8016      \ClassInfo{biditufte-book}{Loading biditufte-book configuration file \@gobble}}
8017   {}%
8018 }

```

## 53 File bidipoem.sty

```

8019 \NeedsTeXFormat{LaTeX2e}
8020 \ProvidesPackage{bidipoem}%
8021 [2019/03/03 v1.0 Environments for typesetting Persian traditional and modern poems]
8022
8023 % Usage:
8024 %
8025 % \Setversedim #1#2 % define the layout (within a group):
8026 % #1 = length of both half-verses
8027 % #2 = separation distance = length of a connection, if present
8028 % Variant:
8029 % \Setversedim #1[#2]#3 % for half-verses of unequal length
8030 % #1 = length of first (=right) half-verse
8031 % #2 = length of second (=left) half-verse
8032 % #3 = separation distance = length of a connection, if present
8033 %
8034 % \traditionalhalfverses #1#2 % typeset two separated half-verses
8035 % #1 = text of first (=right) half-verse
8036 % #2 = text of second (=left) half-verse
8037 % Variant:
8038 % \traditionalhalfverses #1[#2]#3 % typeset two connected half-verses
8039 % #1 = text of first (=right) half-verse
8040 % #2 = text of connection
8041 % #3 = text of second (=left) half-verse
8042 %
8043 % Alternative (if preferred):
8044 %
8045 % \traditionalconnverses #1#2#3 % = \traditionalhalfverses #1[#2]#3
8046
8047
8048 \newcommand*{\bidipoem@spreadbox}[2]{\hbox to #1{#2}}
8049
8050 % define the layout, verses will be centered
8051
8052 \newdimen \bidipoem@hvlen \newdimen \bidipoem@hvsep

```



```

8053 \newdimen \bidipoem@hvind \newdimen \bidipoem@hrlen
8054
8055 \newcommand*{\Setversedim}[2]{% set lengths of half-verse, [separation]
8056 \bidipoem@hvind \textwidth
8057 \bidipoem@hrlen #1\relax \advance \bidipoem@hvind -\bidipoem@hrlen
8058 \ifx [#2\def \bidipoem@next {\bidipoem@set@verseI []}\else
8059 \bidipoem@hrlen \bidipoem@hrlen \def \bidipoem@next {\bidipoem@set@@verse {#2}}\fi \bidipoem@
8060
8061 \def \bidipoem@set@verseI [#1]{% optional parameter
8062 \bidipoem@hrlen #1\relax \bidipoem@set@@verse }
8063
8064 \newcommand*{\bidipoem@set@@verse}[1]{% separation
8065 \advance \bidipoem@hvind -\bidipoem@hrlen \bidipoem@hvsep #1\relax
8066 \advance \bidipoem@hvind -\bidipoem@hvsep \divide \bidipoem@hvind 2 }
8067
8068 \newcommand*{\traditionalconnverses}[3]{% first half-verse, connection, second half-verse
8069 \ifdim Opt > \bidipoem@hvind %
8070 \bidipoem@spreadbox \bidipoem@hrlen {#1}\\ \hfill % first block
8071 \else
8072 \noindent \hskip \bidipoem@hvind \relax \bidipoem@spreadbox \bidipoem@hrlen {#1}\fi
8073 \bidipoem@spreadbox \bidipoem@hvsep {#2}% separator
8074 \bidipoem@spreadbox \bidipoem@hrlen {#3}% second block
8075 \par }
8076
8077 % macro for two half verses
8078 \newcommand*{\traditionalhalfverses}[2]{% optional parameter?
8079 \ifx [#2\def \bidipoem@half@verses@next {\bidipoem@half@verses {#1}[]}%
8080 \else \def \bidipoem@half@verses@next {\bidipoem@half@verses {#1}[\hfill]{#2}}\fi%
8081 \bidipoem@half@verses@next}
8082
8083 \def \bidipoem@half@verses #1[#2]#3{% first[mid]second
8084 \traditionalconnverses {#1}-{#2}-{#3}}
8085
8086
8087 {\catcode\^^M=\active % these lines must end with %
8088 \gdef\traditionalpoem@obeylines{\catcode\^^M=\active \let^^M\traditionalpoem@par}%
8089 \global\let^^M\traditionalpoem@par} % this is in case ^^M appears in a \write
8090 {\catcode\^^M=\active % these lines must end with %
8091 \gdef\modernpoem@obeylines{\catcode\^^M=\active \let^^M\modernpoem@par}%
8092 \global\let^^M\modernpoem@par} % this is in case ^^M appears in a \write
8093 \def\poemcolsepskip{.1\versewidth plus .1\versewidth minus .05\versewidth}
8094 \def\poemmarginskip{1em plus 1fil minus 1em}
8095 \def\poemextrabaseskip{0\baselineskip}
8096 \def\poemskip{\medskip}
8097 \newcommand{\bidipoem@openbox}{\leavevmode
8098 \hbox to.77778em{%
8099 \hfil\vrule
8100 \vbox to.675em{\hrule width.6em\vfil\hrule}%
8101 \vrule\hfil}}
8102 \def\poemblocksep{\quad\hbox{\bidipoem@openbox}}
8103 \newdimen\versewidth
8104 \newtoks\bidipoem@p@ftn
8105 \def\poem@verse#1{%
8106 \ifdim\wd#1>\new@poem@width

```



```

8107 \xdef\new@poem@width{\the\wd#1}%
8108 \ifdim\new@poem@width>\poem@width
8109 \xdef\poem@width{\new@poem@width}%
8110 \global\let\poem@needrun\relax
8111 \fi
8112 \fi
8113 \hbox to\poem@width{\unhbox#1}%
8114 \global\bidipoem@p@ftn\expandafter{\expandafter}\the\bidipoem@p@ftn%
8115 }
8116 \def\poem@linebegin{\vadjust{}\hskip\@flushglue\hskip\poemmargin\skip\relax}
8117 \def\poem@lineend{\nobreak\hskip\poemmargin\skip\hskip\@flushglue\vadjust{}}
8118 \def\poem@lineversesep{%
8119 \nobreak
8120 \hskip\z@ plus 1filll%
8121 \penalty600%
8122 \hskip\poemcolsepskip
8123 \hskip\z@ plus -2filll%
8124 \vadjust{}}%
8125 \nobreak
8126 \hskip\z@ plus 1filll%
8127 }
8128 \def\poem@lineparsebegin{%
8129 \halign\bgroup
8130 \global\setbox\verse@i=\hbox{%
8131 \let\@footnotetext\bidipoem@p@ftntext%
8132 \let\@LTRfootnotetext\bidipoem@p@LTRftntext%
8133 \let\@RTLfootnotetext\bidipoem@p@RTLftntext%
8134 \let\@xfootnotenext\bidipoem@p@xftntext%
8135 \let\@xfootnote\bidipoem@p@xfootnote%
8136 \let\@xLTRfootnotenext\bidipoem@p@xLTRftntext%
8137 \let\@xLTRfootnote\bidipoem@p@xLTRfootnote%
8138 \let\@xRTLfootnotenext\bidipoem@p@xRTLftntext%
8139 \let\@xRTLfootnote\bidipoem@p@xRTLfootnote%
8140 \ignorespaces##\unskip}&&
8141 \global\setbox\verse@ii=\hbox{%
8142 \let\@footnotetext\bidipoem@p@ftntext%
8143 \let\@LTRfootnotetext\bidipoem@p@LTRftntext%
8144 \let\@RTLfootnotetext\bidipoem@p@RTLftntext%
8145 \let\@xfootnotenext\bidipoem@p@xftntext%
8146 \let\@xfootnote\bidipoem@p@xfootnote%
8147 \let\@xLTRfootnotenext\bidipoem@p@xLTRftntext%
8148 \let\@xLTRfootnote\bidipoem@p@xLTRfootnote%
8149 \let\@xRTLfootnotenext\bidipoem@p@xRTLftntext%
8150 \let\@xRTLfootnote\bidipoem@p@xRTLfootnote%
8151 \ignorespaces##\unskip}
8152 \cr
8153 }
8154 \def\poem@lineparseend{%
8155 \crcr\egroup
8156 \vskip-\baselineskip
8157 }
8158 \def\traditionalpoem@cr{%
8159 \cr\poem@line
8160 }

```



```

8161 \newbox\verse@i
8162 \newbox\verse@ii
8163 \newif\ifpoem@started
8164
8165 \def\poem@line{%
8166 \poem@lineparseend
8167 \ifdim\wd\verse@i>\z@\global\poem@startedtrue\fi
8168 \ifdim\wd\verse@ii>\z@\global\poem@startedtrue\fi
8169 \ifpoem@started
8170 \ifdim\wd\verse@ii>\z@\else
8171 \nopagebreak[3]
8172 \fi
8173 \leavevmode
8174 \poem@linebegin
8175 \poem@verse\verse@i
8176 \ifdim\wd\verse@ii>\z@
8177 \poem@lineversesep
8178 \poem@verse\verse@ii
8179 \fi
8180 \poem@lineend
8181 % \nopagebreak
8182 \par
8183 \vskip\poemextrabaselineskip
8184 \fi
8185 \poem@lineparsebegin
8186 }
8187 \def\@traditionalpoem{%
8188 \stepcounter{poem@no}
8189 \ifnum\max@poem@no<\number\c@poem@no%
8190 \xdef\poem@width{\z@}%
8191 \else
8192 \xdef\poem@width{\poem@prop{poem@width}}%
8193 \fi
8194 \xdef\new@poem@width{\z@}%
8195 \global\versewidth=\poem@width
8196 \poemskip\par
8197 \begingroup
8198 \tabskip=\z@
8199 \parskip=\z@
8200 \parindent=\z@
8201 \parfillskip=\z@
8202 \rightskip=\z@
8203 \leftskip=\z@
8204 \widowpenalty=10000% No break between verses of the same line.
8205 \clubpenalty=10000% Same as above. Not really needed.
8206 \def\newblock{\hfil\poemblocksep\hfil\null}%
8207 \def\traditionalpoem@par{\traditionalpoem@cr}% Redefine \par for possible \obeylines
8208 \def\\{\global\poem@startedtrue\traditionalpoem@cr}%
8209 \global\poem@startedfalse
8210 \csname poem@obeylines\endcsname
8211 \let\poem@obeylines\relax
8212 \poem@lineparsebegin
8213 }
8214 \def\@endtraditionalpoem{%

```



```

8215 \cr
8216 \ifdim\wd\verse@i>\z@\poem@line\else\ifdim\wd\verse@ii>\z@\poem@line\else
8217 \noalign{%
8218 \skip0=\poemextrabaseskip
8219 \vskip-\skip0
8220 \vskip-\baseskip
8221 }%
8222 \fi\fi
8223 \poem@lineparseend
8224 \endgroup
8225 \par
8226 \vskip\baseskip
8227 \poemskip
8228 \ifdim\new@poem@width<\poem@width
8229 \global\let\poem@needrun\relax
8230 \fi
8231 \poem@write@aux{\poem@width@romannumeral\c@poem@no}{\new@poem@width}%
8232 \ifx\AtEndDocument\undefined\poem@finish\fi
8233 \@endparenv
8234 }
8235
8236
8237 \long\def\bidipoem@p@ftntext#1{%
8238 \edef\@tempxi{\the\bidipoem@p@ftn\noexpand\footnotetext[\the\csname c@\mpfn\endcsname]}}%
8239 \global\bidipoem@p@ftn\expandafter{\@tempxi{#1}}}%
8240 \long\def\bidipoem@p@LTRftntext#1{%
8241 \edef\@tempxi{\the\bidipoem@p@ftn\noexpand\LTRfootnotetext[\the\csname c@\mpfn\endcsname]}}%
8242 \global\bidipoem@p@ftn\expandafter{\@tempxi{#1}}}%
8243 \long\def\bidipoem@p@RTLftntext#1{%
8244 \edef\@tempxi{\the\bidipoem@p@ftn\noexpand\RTLfootnotetext[\the\csname c@\mpfn\endcsname]}}%
8245 \global\bidipoem@p@ftn\expandafter{\@tempxi{#1}}}%
8246
8247 \long\def\bidipoem@p@xftntext[#1]#2{%
8248 \global\bidipoem@p@ftn\expandafter{\the\bidipoem@p@ftn\footnotetext[#1]{#2}}}
8249
8250 \long\def\bidipoem@p@xLTRftntext[#1]#2{%
8251 \global\bidipoem@p@ftn\expandafter{\the\bidipoem@p@ftn\LTRfootnotetext[#1]{#2}}}
8252
8253 \long\def\bidipoem@p@xRTLftntext[#1]#2{%
8254 \global\bidipoem@p@ftn\expandafter{\the\bidipoem@p@ftn\RTLfootnotetext[#1]{#2}}}
8255
8256 \def\bidipoem@p@xfootnote[#1]{%
8257 \begingroup
8258 \csname c@\mpfn\endcsname #1\relax
8259 \unrestored@protected@xdef\@thefnmark{\thempfn}%
8260 \endgroup
8261 \@footnotemark\bidipoem@p@xftntext[#1]}
8262
8263 \def\bidipoem@p@xLTRfootnote[#1]{%
8264 \begingroup
8265 \csname c@\mpfn\endcsname #1\relax
8266 \unrestored@protected@xdef\@thefnmark{\thempfn}%
8267 \endgroup
8268 \@footnotemark\bidipoem@p@xLTRftntext[#1]}

```





```

8269
8270 \def\bidipoem@p@xRTLfootnote[#1]{%
8271     \begingroup
8272     \csname c@\@mpfn\endcsname #1\relax
8273     \unrestored@protected@xdef\@thefnmark{\thempfn}%
8274     \endgroup
8275     \@footnotemark\bidipoem@p@xRTLftntext[#1]}
8276
8277
8278
8279 \newenvironment{traditionalpoem}{\@traditionalpoem}{\@endtraditionalpoem}
8280 \expandafter\def\csname traditionalpoem*\endcsname{\let\poem@obeylines=\traditionalpoem@obey
8281 \expandafter\def\csname endtraditionalpoem*\endcsname{\endtraditionalpoem}
8282 \def\poem@finish{%
8283 \poem@write@aux{max@poem@no}{\number\c@poem@no}%
8284 \ifx\poem@needrun\relax
8285 \PackageWarning{bidipoem}{Unjustified poem.  Rerun XeLaTeX to get poem right}%
8286 \global\let\poem@needrun\undefined
8287 \fi
8288 }
8289 \ifx\AtEndDocument\undefined\else\AtEndDocument\poem@finish\fi
8290 \newcounter{poem@no}\setcounter{poem@no}{\z@}
8291 \ifx\max@poem@no\undefined
8292     \def\max@poem@no{0}%
8293 \fi
8294 \newcommand{\poem@prop}[1]{\@nameuse{#1@romannumeral\c@poem@no}}
8295 \newcommand{\poem@write@aux}[2]{%
8296     \def\@x{\immediate\write\@auxout{\global\noexpand\@namedef{#1}{#2}}}%
8297     \@x
8298 }
8299 \def\@modernpoem{%
8300 \par
8301 \begingroup
8302 \parskip=\z@
8303 \parindent=\z@
8304 \def\[{ \@settab\@tabplus\ignorespaces}%
8305 \def\]{ \@tabminus\ignorespaces}%
8306 \def\newblock{\poemblocksep}%
8307 \let\newpoem@tabcr\@tabcr
8308 \def\modernpoem@par{% Redefine \par for possible \obeylines
8309     \ifpoem@started\else
8310         \ifdim\wd\@curline>\z@\global\poem@startedtrue\else
8311             \@stopfield
8312             \ifdim\wd\@curfield>\z@\global\poem@startedtrue\fi
8313             \@contfield
8314         \fi
8315     \fi
8316     \ifpoem@started\newpoem@tabcr\fi}%
8317 \def\@tabcr{\global\poem@startedtrue\newpoem@tabcr}%
8318 \global\poem@startedfalse
8319 \csname poem@obeylines\endcsname
8320 \let\poem@obeylines\relax
8321 \begin{tabbing}%
8322 }

```



```

8323 \def\@endmodernpoem{%
8324 \global\poem@startedfalse
8325 \ifdim\wd\@curline>\z@\global\poem@startedtrue\else
8326   \@stopfield
8327   \ifdim\wd\@curfield>\z@\global\poem@startedtrue\fi
8328   \@contfield
8329 \fi
8330 \ifpoem@started\else\let\@stopline\@stopfield\fi
8331 \end{tabbing}%
8332 \endgroup
8333 \par
8334 \if@nparlist \else
8335   \ifdim\lastskip >\z@
8336     \@tempskipa\lastskip \vskip -\lastskip
8337     \advance\@tempskipa\parskip \advance\@tempskipa -\@outerparskip
8338     \vskip\@tempskipa
8339   \fi
8340   \@endparenv
8341 \fi
8342 }
8343 \newenvironment{modernpoem}{\@modernpoem}{\@endmodernpoem}
8344 \expandafter\def\csname modernpoem*\endcsname{\let\poem@obeylines=\modernpoem@obeylines\mode
8345 \expandafter\def\csname endmodernpoem*\endcsname{\endmodernpoem}
8346 \gdef\@startfield{%
8347 \global\setbox\@curfield\hbox\bgroup%
8348 \let\@footnotetext\bidipoem@p@ftntext%
8349 \let\@LTRfootnotetext\bidipoem@p@LTRftntext%
8350 \let\@RTLfootnotetext\bidipoem@p@RTLftntext%
8351 \let\@xfootnotenext\bidipoem@p@xftntext%
8352 \let\@xfootnote\bidipoem@p@xfootnote%
8353 \let\@xLTRfootnotenext\bidipoem@p@xLTRftntext%
8354 \let\@xLTRfootnote\bidipoem@p@xLTRfootnote%
8355 \let\@xRTLfootnotenext\bidipoem@p@xRTLftntext%
8356 \let\@xRTLfootnote\bidipoem@p@xRTLfootnote%
8357 \color@begingroup}
8358 \gdef\@stopfield{%
8359 \color@endgroup\egroup\global\bidipoem@p@ftn\expandafter{\expandafter}\the\bidipoem@p@ftn}
8360 \gdef\@contfield{%
8361 \global\setbox\@curfield\hbox\bgroup%
8362 \let\@footnotetext\bidipoem@p@ftntext%
8363 \let\@LTRfootnotetext\bidipoem@p@LTRftntext%
8364 \let\@RTLfootnotetext\bidipoem@p@RTLftntext%
8365 \let\@xfootnotenext\bidipoem@p@xftntext%
8366 \let\@xfootnote\bidipoem@p@xfootnote%
8367 \let\@xLTRfootnotenext\bidipoem@p@xLTRftntext%
8368 \let\@xLTRfootnote\bidipoem@p@xLTRfootnote%
8369 \let\@xRTLfootnotenext\bidipoem@p@xRTLftntext%
8370 \let\@xRTLfootnote\bidipoem@p@xRTLfootnote%
8371 \color@begingroup\unhbox\@curfield}

```

## 54 File boek3-xetex-bidi.def

```

8372 \ProvidesFile{boek3-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for boek3 class for XeT
8373 \renewenvironment{theindex}{%

```



```

8374 \if@twocolumn
8375 \@restonecolfalse
8376 \else
8377 \@restonecoltrue
8378 \fi
8379 \columnseprule \z@
8380 \columnsep 35\p@
8381 \twocolumn[\@makeschapterhead{\indexname}]%
8382 \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
8383 \thispagestyle{plain}\parindent\z@
8384 \parskip\z@ \@plus .3\p@\relax
8385 \let\item\@idxitem
8386 }{%
8387 \if@restonecol\onecolumn\else\clearpage\fi}
8388 \renewcommand*\head@style{%
8389 \interlinepenalty \@M
8390 \hyphenpenalty=\@M \exhyphenpenalty=\@M
8391 \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
8392 \renewcommand*\@regtocline[3]{%
8393 \ifnum #1>\c@tocdepth
8394 \else
8395 \vskip\z@ \@plus .2\p@
8396 {\hangindent\z@ \@afterindenttrue \interlinepenalty \@M
8397 \if@RTL\rightskip\else\leftskip\fi\unitindent
8398 \if@RTL\leftskip\else\rightskip\fi\unitindent \@plus 1fil
8399 \parfillskip\z@
8400 \@tempdima\unitindent
8401 \parindent\z@
8402 \leavevmode
8403 \hbox{}\hskip -\if@RTL\rightskip\else\leftskip\fi\relax#2\nobreak
8404 \hskip 1em \nobreak{\slshape #3}\par
8405 }%
8406 \fi}
8407 \if@oldtoc
8408 \renewcommand*\l@part[2]{%
8409 \ifnum \c@tocdepth >-2\relax
8410 \addpenalty{-\@highpenalty}%
8411 \addvspace{2.25em \@plus\p@}%
8412 \begingroup
8413 \setlength\@tempdima{3em}%
8414 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
8415 \parfillskip -\@pnumwidth
8416 {\leavevmode
8417 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
8418 \nobreak
8419 \global\@nobreaktrue
8420 \everypar{\global\@nobreakfalse\everypar{}}%
8421 \endgroup
8422 \fi}
8423 \else
8424 \renewcommand*\l@part{%
8425 \ifnum \c@tocdepth >-2\relax
8426 \addpenalty{-\@highpenalty}%
8427 \addvspace{2.25em \@plus \p@}%

```



```

8428     \@regtocline{0}%
8429     \fi}
8430 \fi
8431 \if@oldtoc
8432 \renewcommand*\l@chapter[2]{%
8433     \addpenalty{-\@highpenalty}%
8434     \vskip 1.0em \@plus\p@
8435     \setlength\@tempdima{1.5em}%
8436     \begingroup
8437     \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
8438     \parfillskip -\@pnumwidth
8439     \leavevmode \bfseries
8440     \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima
8441     \hskip -\if@RTL\rightskip\else\leftskip\fi
8442     #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
8443     \penalty\@highpenalty
8444     \endgroup}
8445 \else
8446 \renewcommand*\l@chapter{\@regtocline{0}}
8447 \fi
8448 \renewenvironment{abstract}{%
8449     \titlepage
8450     \null\vfil
8451     \section*{\SectFont \abstractname}
8452     \noindent\ignorespaces}
8453     {\par\vfil\null\endtitlepage}
8454 \renewenvironment{thebibliography}[1]
8455     {\chapter*{\bibname}%
8456     \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
8457     \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
8458     \bidi@thebibliography@font@hook%
8459     \list{\@biblabel{\@arabic\c@enumiv}}%
8460         {\settowidth\labelwidth{\@biblabel{#1}}%
8461         \leftmargin\labelwidth
8462         \advance\leftmargin\labelsep
8463         \@openbib@code
8464         \usecounter{enumiv}%
8465         \let\p@enumiv\@empty
8466         \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
8467     \sloppy\clubpenalty4000\widowpenalty4000%
8468     \sfcode\.\@m}
8469     {\def\@noitemerr
8470     {\@latex@warning{Empty `thebibliography' environment}}}%
8471     \endlist}
8472 \renewcommand*\left@footnoterule{%
8473     \kern-3\p@
8474     \kern.5\baselineskip
8475     \hrule\@width\unitindent
8476     \kern.4\baselineskip
8477 }
8478 \renewcommand*\right@footnoterule{%
8479     \kern-3\p@
8480     \kern.5\baselineskip
8481     \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }

```



```

8482 \kern.4\baselineskip}
8483 \renewcommand*\thesection{\thechapter\@SepMark\@arabic\c@section}
8484 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
8485 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
8486 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
8487 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
8488 \renewcommand*\theequation{%
8489 \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@equation}
8490 \renewcommand*\thefigure{%
8491 \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@figure}
8492 \renewcommand*\thetable{%
8493 \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@table}
8494 \renewcommand*\maketitle{%
8495 \begin{titlepage}%
8496 \let\footnotesize\small
8497 \let\right@footnoterule\relax
8498 \let\left@footnoterule\relax
8499 \let\textwidth\footnoterule\relax
8500 \let \footnote \thanks
8501 \long\def\@makefntext##1{\parindent\z@
8502 \def\labelitemi{\textendash}\@revlabeltrue
8503 \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
8504 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
8505 \if@compatibility\setcounter{page}{0}\fi
8506 \null\vfil
8507 \vskip 60\p@
8508 \begin{center}%
8509 \TitleFont
8510 {\LARGE \def\\{\penalty -\@M}
8511 \if@allcaps
8512 \expandafter\uc@nothanks\@title\thanks\relax
8513 \else
8514 \@title
8515 \fi\par}%
8516 \vskip 3em%
8517 {\large
8518 \lineskip .75em \parindent\z@
8519 \begin{tabular}[t]{c}%
8520 \if@allcaps
8521 \expandafter\uc@authornothanks\@author\and\relax
8522 \else
8523 \@author
8524 \fi
8525 \end{tabular}\par}%
8526 \vskip 1.5em%
8527 {\large
8528 \if@allcaps
8529 \uppercase\expandafter{\@date}%
8530 \else
8531 \@date
8532 \fi\par}%
8533 \end{center}\par
8534 \@thanks
8535 \vfil\null

```



```

8536 \end{titlepage}%
8537 \setcounter{footnote}{0}%
8538 \global\let\thanks\relax
8539 \global\let\maketitle\relax
8540 \global\let\@thanks\@empty
8541 \global\let\@author\@empty
8542 \global\let\@title\@empty
8543 \global\let\@date\@empty
8544 \global\let\title\relax
8545 \global\let\author\relax
8546 \global\let\date\relax
8547 \global\let\and\relax
8548 }

```

## 55 File boek-xetex-bidi.def

```

8549 \ProvidesFile{boek-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for boek class for XeTeX]
8550 \renewenvironment{theindex}{%
8551   \if@twocolumn
8552     \@restonecolfalse
8553   \else
8554     \@restonecoltrue
8555   \fi
8556   \columnseprule \z@
8557   \columnsep 35\p@
8558   \twocolumn[\@makeschapterhead{\indexname}]%
8559   \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
8560   \thispagestyle{plain}\parindent\z@
8561   \parskip\z@ \@plus .3\p@\relax
8562   \let\item\@idxitem
8563 }{%
8564   \if@restonecol\onecolumn\else\clearpage\fi}
8565 \renewcommand*{\head@style}{%
8566   \interlinepenalty \@M
8567   \hyphenpenalty=\@M \exhyphenpenalty=\@M
8568   \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
8569 \renewcommand*{\regtocline}[3]{%
8570   \ifnum #1>\c@tocdepth
8571   \else
8572     \vskip\z@\@plus.2\p@
8573     {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
8574     \if@RTL\rightskip\else\leftskip\fi\unitindent
8575     \if@RTL\leftskip\else\rightskip\fi\unitindent\@plus 1fil
8576     \parfillskip\z@
8577     \@tempdima\unitindent
8578     \parindent\z@
8579     \leavevmode
8580     \hbox{}\hskip -\if@RTL\rightskip\else\leftskip\fi\relax#2\nobreak
8581     \hskip 1em \nobreak{\slshape #3}\par
8582   }%
8583   \fi}
8584 \if@oldtoc
8585 \renewcommand*\l@part[2]{%
8586   \ifnum \c@tocdepth >-2\relax

```



```

8587 \addpenalty{-\@highpenalty}%
8588 \addvspace{2.25em \@plus\p@}%
8589 \begingroup
8590 \setlength\@tempdima{3em}%
8591 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
8592 \parfillskip -\@pnumwidth
8593 {\leavevmode
8594 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
8595 \nobreak
8596 \global\@nbreaktrue
8597 \everypar{\global\@nbreakfalse\everypar{}}%
8598 \endgroup
8599 \fi}
8600 \else
8601 \renewcommand*\l@part{%
8602 \ifnum \c@tocdepth >-2\relax
8603 \addpenalty{-\@highpenalty}%
8604 \addvspace{2.25em \@plus \p@}%
8605 \@regtocline{0}%
8606 \fi}
8607 \fi
8608 \if@oldtoc
8609 \renewcommand*\l@chapter[2]{%
8610 \addpenalty{-\@highpenalty}%
8611 \vskip 1.0em \@plus\p@
8612 \setlength\@tempdima{1.5em}%
8613 \begingroup
8614 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
8615 \parfillskip -\@pnumwidth
8616 \leavevmode \bfseries
8617 \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
8618 \hskip -\if@RTL\rightskip\else\leftskip\fi
8619 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
8620 \penalty\@highpenalty
8621 \endgroup}
8622 \else
8623 \renewcommand*\l@chapter{\@regtocline{0}}
8624 \fi
8625 \renewcommand*\left@footnoterule{%
8626 \kern-3\p@
8627 \kern.5\baselineskip
8628 \hrule\@width\unitindent
8629 \kern.4\baselineskip
8630 }
8631 \renewcommand*\right@footnoterule{%
8632 \kern-3\p@
8633 \kern.5\baselineskip
8634 \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
8635 \kern.4\baselineskip}
8636 \renewenvironment{abstract}{%
8637 \titlepage
8638 \null\vfil
8639 \section*{\SectFont \abstractname}
8640 \noindent\ignorespaces}

```



```

8641     {\par\vfil\null\endtitlepage}
8642 \renewenvironment{thebibliography}[1]
8643     {\chapter*{\bibname}%
8644       \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
8645       \ifRTL\ifLTRbibitems\@RTLfalse\else\fi\else\ifRTLbibitems\@RTLtrue\else\fi\fi
8646       \bidi@thebibliography@font@hook%
8647       \list{\@biblabel{\@arabic\c@enumiv}}%
8648         {\settowidth\labelwidth{\@biblabel{#1}}%
8649          \leftmargin\labelwidth
8650          \advance\leftmargin\labelsep
8651          \@openbib@code
8652          \usecounter{enumiv}%
8653          \let\p@enumiv\@empty
8654          \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
8655       \sloppy\clubpenalty4000\widowpenalty4000%
8656       \sfcode`. \@m}
8657 {\def\@noitemerr
8658   {\@latex@warning{Empty `thebibliography' environment}}}%
8659 \endlist}
8660 \renewcommand*\thesection{\thechapter\@SepMark\@arabic\c@section}
8661 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
8662 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
8663 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
8664 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
8665 \renewcommand*\theequation{%
8666   \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@equation}
8667 \renewcommand*\thefigure{%
8668   \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@figure}
8669 \renewcommand*\thetable{%
8670   \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@table}
8671 \renewcommand*\maketitle{%
8672   \begin{titlepage}%
8673     \let\footnotesize\small
8674     \let\right@footnoterule\relax
8675     \let\left@footnoterule\relax
8676     \let\textwidth\footnoterule\relax
8677     \let \footnote \thanks
8678     \long\def\@makefnmark##1{\parindent\z@
8679       \def\labelitemi{\textendash}\@revlabeltrue
8680       \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
8681     \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
8682     \if@compatibility\setcounter{page}{0}\fi
8683     \null\vfil
8684     \vskip 60\p@
8685     \begin{center}%
8686       \TitleFont
8687       {\LARGE \def\{\{\penalty -\@M}
8688         \if@allcaps
8689           \expandafter\uc@nothanks\@title\thanks\relax
8690         \else
8691           \@title
8692         \fi\par}%
8693       \vskip 3em%
8694       {\large

```





```

8695      \lineskip .75em \parindent\z@
8696      \begin{tabular}[t]{c}%
8697      \if@allcaps
8698      \expandafter\uc@authornothanks\@author\and\relax
8699      \else
8700      \@author
8701      \fi
8702      \end{tabular}\par}%
8703      \vskip 1.5em%
8704      {\large
8705      \if@allcaps
8706      \uppercase\expandafter{\@date}%
8707      \else
8708      \@date
8709      \fi\par}%
8710      \end{center}\par
8711      \@thanks
8712      \vfil\null
8713      \end{titlepage}%
8714      \setcounter{footnote}{0}%
8715      \global\let\thanks\relax
8716      \global\let\maketitle\relax
8717      \global\let\@thanks\@empty
8718      \global\let\@author\@empty
8719      \global\let\@title\@empty
8720      \global\let\@date\@empty
8721      \global\let\title\relax
8722      \global\let\author\relax
8723      \global\let\date\relax
8724      \global\let\and\relax
8725      }

```

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

```

8726 \ProvidesFile{bookest-xetex-bidi.def}[2010/07/25 v0.4 bidi adaptations for bookest class for
8727 \def\@makechapterhead#1{%
8728   \vspace*{20\p@}
8729   {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont
8730     \ifnum \c@secnumdepth >\m@ne
8731       \if@mainmatter
8732         {\colorA\huge\scshape \@chapapp\space \thechapter}
8733         \par\nobreak
8734         \vskip 10\p@
8735       \fi
8736       \fi
8737       \interlinepenalty\@M
8738     {\colorB\hrule}
8739     \vskip 15\p@
8740     \if@RTL\begin{flushleft}\else\begin{flushright}\fi
8741       {\colorA\Huge \bfseries #1}\par\nobreak
8742     \if@RTL\end{flushleft}\else\end{flushright}\fi
8743     \vskip 5\p@
8744     {\colorB\hrule}
8745     \vskip 30\p@

```



```

8746 }}
8747 \def\@makeschapterhead#1{%
8748   \vspace*{20\p@}
8749   {\parindent \z@ \raggedright \normalfont
8750    {\colorB\hrule}
8751    \vskip 15\p@
8752    \begin{center}
8753      {\colorA\Huge \bfseries #1}\par\nobreak
8754    \end{center}
8755    \vskip 5\p@
8756    {\colorB\hrule}
8757    \vskip 30\p@
8758   }}

```

## 57 File book-xetex-bidi.def

```

8759 \ProvidesFile{book-xetex-bidi.def}[2017/06/09 v1.0 bidi adaptations for standard book class]
8760 \renewenvironment{theindex}
8761     {\if@twocolumn
8762      \@restonecolfalse
8763      \else
8764      \@restonecoltrue
8765      \fi
8766      \columnseprule \z@
8767      \columnsep 35\p@
8768      \twocolumn[\@makeschapterhead{\indexname}]%
8769      \@mkboth{\MakeUppercase\indexname}%
8770              {\MakeUppercase\indexname}%
8771      \thispagestyle{plain}\parindent\z@
8772      \parskip\z@ \@plus .3\p@\relax
8773      \let\item\@idxitem}
8774     {\if@restonecol\onecolumn\else\clearpage\fi}
8775 \@ifclassloaded{bookest}{-}{%
8776   \if@titlepage
8777     \renewcommand\maketitle{\begin{titlepage}%
8778       \let\footnotesize\small
8779       \let\right@footnoterule\relax
8780       \let\left@footnoterule\relax
8781       \let\textwidth\footnoterule\relax
8782       \let \footnote \thanks
8783       \let \LTRfootnote \LTRthanks
8784       \let \RTLfootnote \RTLthanks
8785       \null\vfil
8786       \vskip 60\p@
8787       \begin{center}%
8788         {\LARGE \@title \par}%
8789         \vskip 3em%
8790         {\large
8791          \lineskip .75em%
8792          \begin{tabular}[t]{c}%
8793            \@author
8794          \end{tabular}\par}%
8795         \vskip 1.5em%
8796         {\large \@date \par}%           % Set date in \large size.

```



```

8797 \end{center}\par
8798 \@thanks
8799 \vfil\null
8800 \end{titlepage}%
8801 \setcounter{footnote}{0}%
8802 \global\let\thanks\relax
8803 \global\let\LTRthanks\relax
8804 \global\let\RTLthanks\relax
8805 \global\let\maketitle\relax
8806 \global\let\@thanks\@empty
8807 \global\let\@author\@empty
8808 \global\let\@date\@empty
8809 \global\let\@title\@empty
8810 \global\let\title\relax
8811 \global\let\author\relax
8812 \global\let\date\relax
8813 \global\let\and\relax
8814 }
8815 \else
8816 \renewcommand\maketitle{\par
8817 \begingroup
8818 \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
8819 \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
8820 \long\def\@makefntext##1{\parindent 1em\noindent
8821 \hb@xt@1.8em{%
8822 \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
8823 \if@twocolumn
8824 \ifnum \col@number=\@one
8825 \@maketitle
8826 \else
8827 \twocolumn[\@maketitle]%
8828 \fi
8829 \else
8830 \newpage
8831 \global\@topnum\z@ % Prevents figures from going at top of page.
8832 \@maketitle
8833 \fi
8834 \thispagestyle{plain}\@thanks
8835 \endgroup
8836 \setcounter{footnote}{0}%
8837 \global\let\thanks\relax
8838 \global\let\LTRthanks\relax
8839 \global\let\RTLthanks\relax
8840 \global\let\maketitle\relax
8841 \global\let\@maketitle\relax
8842 \global\let\@thanks\@empty
8843 \global\let\@author\@empty
8844 \global\let\@date\@empty
8845 \global\let\@title\@empty
8846 \global\let\title\relax
8847 \global\let\author\relax
8848 \global\let\date\relax
8849 \global\let\and\relax
8850 }

```



```

8851 \def\@maketitle{%
8852   \newpage
8853   \null
8854   \vskip 2em%
8855   \begin{center}%
8856   \let \footnote \thanks
8857   \let \LTRfootnote \LTRthanks
8858   \let \RTLfootnote \RTLthanks
8859   {\LARGE \@title \par}%
8860   \vskip 1.5em%
8861   {\large
8862     \lineskip .5em%
8863     \begin{tabular}[t]{c}%
8864       \@author
8865     \end{tabular}\par}%
8866   \vskip 1em%
8867   {\large \@date}%
8868   \end{center}%
8869   \par
8870   \vskip 1.5em}
8871 \fi}
8872 \renewcommand*\l@part[2]{%
8873   \ifnum \c@tocdepth >-2\relax
8874     \addpenalty{-\@highpenalty}%
8875     \addvspace{2.25em \@plus\p@}%
8876     \setlength\@tempdima{3em}%
8877     \begin{group}
8878       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
8879       \parfillskip -\@pnumwidth
8880       {\leavevmode
8881         \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
8882       \nobreak
8883       \global\@nobreaktrue
8884       \everypar{\global\@nobreakfalse\everypar{}}%
8885     \endgroup
8886   \fi}
8887 \renewcommand*\l@chapter[2]{%
8888   \ifnum \c@tocdepth >\m@ne
8889     \addpenalty{-\@highpenalty}%
8890     \vskip 1.0em \@plus\p@
8891     \setlength\@tempdima{1.5em}%
8892     \begin{group}
8893       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
8894       \parfillskip -\@pnumwidth
8895       \leavevmode \bfseries
8896       \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
8897       \hskip -\if@RTL\rightskip\else\leftskip\fi
8898       #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
8899       \penalty\@highpenalty
8900     \endgroup
8901   \fi}
8902 \renewcommand\left@footnoterule{%
8903   \kern-3\p@
8904   \hrule\@width.4\columnwidth

```



```

8905 \kern2.6\p@}
8906 \renewcommand\right@footnoterule{%
8907 \kern-3\p@
8908 \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
8909 \kern2.6\p@}
8910 \renewcommand\theequation
8911 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
8912 \renewcommand \thefigure
8913 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
8914 \renewcommand \thetable
8915 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
8916 \renewcommand \thechapter {\@arabic\c@chapter}
8917 \renewcommand \thesection {\thechapter\@SepMark\@arabic\c@section}
8918 \renewcommand \thesubsection {\thesection\@SepMark\@arabic\c@subsection}
8919 \renewcommand \thesubsubsection {\thesubsection \@SepMark\@arabic\c@subsubsection}
8920 \renewcommand \theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
8921 \renewcommand \thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
8922 \def\@makechapterhead#1{%
8923 \vspace*{50\p@}%
8924 {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont
8925 \ifnum \c@secnumdepth >\m@ne
8926 \if@mainmatter
8927 \huge\bfseries \@chapapp\space \thechapter
8928 \par\nobreak
8929 \vskip 20\p@
8930 \fi
8931 \fi
8932 \interlinepenalty\@M
8933 \Huge \bfseries #1\par\nobreak
8934 \vskip 40\p@
8935 }}
8936 \def\@makeschapterhead#1{%
8937 \vspace*{50\p@}%
8938 {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
8939 \normalfont
8940 \interlinepenalty\@M
8941 \Huge \bfseries #1\par\nobreak
8942 \vskip 40\p@
8943 }}
8944 \renewcommand\backmatter{%
8945 \if@openright
8946 \cleardoublepage
8947 \else
8948 \clearpage
8949 \fi
8950 \@mainmatterfalse}
8951 \renewenvironment{thebibliography}[1]
8952 {\chapter*{\bibname}%
8953 \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
8954 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
8955 \bidi@thebibliography@font@hook%
8956 \list{\@biblabel{\@arabic\c@enumiv}}%
8957 {\settowidth\labelwidth{\@biblabel{#1}}%
8958 \leftmargin\labelwidth

```



```

8959         \advance\leftmargin\labelsep
8960         \openbib@code
8961         \usecounter{enumiv}%
8962         \let\p@enumiv\@empty
8963         \renewcommand\theenumiv{\@arabic\c@enumiv}}%
8964     \sloppy
8965     \clubpenalty4000
8966     \@clubpenalty \clubpenalty
8967     \widowpenalty4000%
8968     \sfcode`. \m}
8969     {\def\@noitemerr
8970      {\@latex@warning{Empty `thebibliography' environment}}}%
8971     \endlist}

```

## 58 File breqn-xetex-bidi.def

```

8972 \ProvidesFile{breqn-xetex-bidi.def}[2016/09/12 v0.2 bidi adaptations for breqn package for X
8973 \def\@dmath[#1]{\ifRTL\@RTLfalse\fi%
8974 \everydisplay\expandafter{\the\everydisplay \display@setup}%
8975 \ifnoskipsec \leavevmode \fi
8976 \ifinlabel \leavevmode \global\@inlabelfalse \fi
8977 \if\eq@group\else\eq@prelim\fi
8978 \setkeys{breqn}{#1}%
8979 \the\eqstyle
8980 \eq@setnumber
8981 \begingroup
8982 \eq@setup@a
8983 \eq@startup
8984 }
8985 \def\@dgroup[#1]{\ifRTL\@RTLfalse\fi%
8986 \let\eq@group\@True \global\let\eq@GRP@first@dmath\@True
8987 \global\GRP@queue\@emptytoks \global\setbox\GRP@box\box\voidb@x
8988 \global\let\GRP@label\@empty
8989 \global\grp@wdL\z@\global\grp@wdR\z@\global\grp@wdT\z@
8990 \global\grp@linewidth\z@\global\grp@wdNum\z@
8991 \global\let\grp@eqs@numbered\@False
8992 \global\let\grp@aligned\@True
8993 \global\let\grp@shiftnumber\@False
8994 \eq@prelim
8995 \setkeys{breqn}{#1}%
8996 \if\grp@hasNumber \grp@setnumber \fi
8997 }
8998 \def\@dseries[#1]{\ifRTL\@RTLfalse\fi%
8999 \let\display@setup\dseries@display@setup
9000 % Question: should this be the default for dseries???
9001 \global\eq@wdCond\z@
9002 \@dmath[layout={M},#1]%
9003 \mathsurround\z@\@math \penalty\@Mi
9004 \let\endmath\ends@math
9005 \def\premath{%
9006 \ifdim\lastskip<.3em \unskip
9007 \else\ifnum\lastpenalty<\@M \dquad\fi\fi
9008 }%
9009 \def\postmath{\unpenalty\eq@addpunct \penalty\intermath@penalty \dquad \@ignoretrue}%

```



```

9010 \ignorespaces
9011 }
9012 \def\eqnumform#1{\if@nonlatin\beginR\@RTLtrue\fi(#1\@@italiccorr)\if@nonlatin\endR\fi}
9013 \renewenvironment{dsuspend}{%
9014   \global\setbox\EQ@box\vbox\bgroup\if@nonlatin\@RTLtrue\fi \@parboxrestore
9015   \parshape 1 \displayindent \displaywidth\relax
9016   \hsize=\columnwidth \noindent\ignorespaces
9017 }{%
9018   \par\egroup
9019   \global\setbox\GRP@box\vbox{%
9020     \hbox{\copy\EQ@box\vtop{\unvbox\EQ@box}}%
9021     \unvbox\GRP@box
9022   }%
9023   \global\GRP@queue\@xp{\the\GRP@queue
9024     \@elt{\let\eq@isIntertext\@True}%
9025   }%
9026 }

```

## 59 File cals-xetex-bidi.def

```

9027 \ProvidesFile{cals-xetex-bidi.def}[2016/11/30 v0.4 bidi adaptations for cals package for XeT
9028 \renewcommand\cals@setup@alignment[1]{%
9029 \if c#1\relax \cals@vfillAdd \leftskip \cals@vfillAdd \rightskip \fi
9030 \if l#1\relax \cals@vfillDrop\leftskip \cals@vfillDrop\rightskip \fi
9031 \if r#1\relax \cals@vfillAdd \leftskip \cals@vfillDrop\rightskip \fi
9032 }
9033 \renewcommand\cals@table@alignment{\if@RTLtab r\else l\fi}
9034 \renewenvironment{calstable}[1][\cals@table@alignment]{%
9035 \if@RTLtab\cals@activate@rtl\fi
9036 \let\cals@thead@tokens=\relax
9037 \let\cals@tfoot@tokens=\relax
9038 \let\cals@tbody@tokens=\relax
9039 \cals@tfoot@height=0pt \relax
9040 \let\cals@last@context=n%
9041 \let\cals@current@context=b%
9042 \parindent=0pt \relax%
9043 \cals@setup@alignment{#1}%
9044 \cals@setpadding{Ag}\cals@setcellprevdepth{Al}\cals@set@tohsize%
9045 %% Alignment inside is independent on center/flushright outside
9046 \parfillskip=0pt plus1fil\relax
9047 \let\cals@borderL=\relax
9048 \let\cals@borderR=\relax
9049 \let\cals@borderT=\relax
9050 \let\cals@borderB=\relax
9051 \setbox\cals@backup@row=\box\voidb@x\relax
9052 \cals@AtBeginTable
9053 }{% End of the table
9054 \cals@tfoot@tokens\lastrule\cals@AtEndTable}
9055 \renewcommand\alignL{%
9056 \if@RTLtab
9057   \cals@vfillAdd\cals@paddingL
9058 \else
9059   \cals@vfillDrop\cals@paddingL
9060 \fi

```



```

9061 \cals@vfillDrop\cals@paddingR}
9062 \renewcommand\alignR{%
9063 \if@RTLtab
9064   \cals@vfillDrop\cals@paddingL
9065 \else
9066   \cals@vfillAdd\cals@paddingL
9067 \fi
9068 \cals@vfillDrop\cals@paddingR}

```

## 60 File caption-xetex-bidi.def

```

9069 \ProvidesFile{caption-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for caption package]
9070 \let\makecaption\caption

```

## 61 File caption3-xetex-bidi.def

```

9071 \ProvidesFile{caption3-xetex-bidi.def}[2013/04/01 v0.1 bidi adaptations for caption3 package]
9072 \renewcommand*\caption@par{%
9073   \parindent\caption@parindent\hangindent\if@RTL-\fi\caption@hangindent}%

```

## 62 File colortbl-xetex-bidi.def

```

9074 \ProvidesFile{colortbl-xetex-bidi.def}[2012/06/10 v0.2 bidi adaptations for colortbl package]
9075 \def\CT@setup{%
9076   \@tempdimb\col@sep
9077   \@tempdimc\col@sep
9078   \def\CT@color{%
9079     \global\let\CT@do@color\CT@@do@color
9080     \bidicolor}}
9081 \def\@classz{\@classx
9082   \@tempcnta\count@
9083   \prepnext@tok
9084 \expandafter\CT@extract\the\toks\@tempcnta\columncolor!\@nil
9085   \@addtopreamble{\if@RTLtab\beginL\fi%
9086     \setbox\z@\hbox\bgroup\bgroup\if@RTLtab\beginR\fi
9087       \ifcase \@chnum
9088         \hskip\stretch{.5}\kern\z@
9089         \d@llarbegin
9090         \insert@column
9091         \d@llarend\hskip\stretch{.5}\or
9092         \d@llarbegin \insert@column \d@llarend \hfill \or
9093         \hfill\kern\z@ \d@llarbegin \insert@column \d@llarend \or
9094       $\vcenter
9095       \@startpbox{\@nextchar}\insert@column \@endpbox $\or
9096       \vtop \@startpbox{\@nextchar}\insert@column \@endpbox \or
9097       \vbox \@startpbox{\@nextchar}\insert@column \@endpbox
9098     \fi
9099   \if@RTLtab\endR\fi\egroup\egroup
9100 \begingroup
9101   \CT@setup
9102   \CT@column@color
9103   \CT@row@color
9104   \CT@cell@color
9105   \CT@do@color

```





```

9106 \endgroup
9107     \@tempdima\ht\z@
9108     \advance\@tempdima\minrowclearance
9109     \vrule\@height\@tempdima\@width\z@
9110     \unhbox\z@\if@RTLtab\endL\fi}%
9111 \prepnext@tok}

```

## 63 File color-xetex-bidi.def

```

9112 \ProvidesFile{color-xetex-bidi.def}[2013/04/08 v0.2 bidi adaptations for color package for Xe
9113 \long\def\color@b@x#1#2#3{%
9114 \leavevmode\ifmmode\else\if@RTL\beginL\fi\fi
9115 \setbox\z@\hbox{\kern\fbboxsep\set@color\if@RTL\beginR\fi#3\if@RTL\endR\fi}\kern\fbboxsep}%
9116 \dimen@ht\z@\advance\dimen@\fbboxsep\ht\z@\dimen@
9117 \dimen@dp\z@\advance\dimen@\fbboxsep\dp\z@\dimen@
9118 {#1{#2\color@block{\wd\z@}{\ht\z@}{\dp\z@}%
9119 \box\z@}}\ifmmode\else\if@RTL\endL\fi\fi}
9120 \def\normalcolor{\let\current@color\default@color\ifhmode\if@RTL\beginL\aftergroup\endR\fi\fi}
9121 \DeclareRobustCommand\color{%
9122 \ifhmode\if@RTL\beginL\aftergroup\endR\fi\fi\@ifnextchar[\@undeclaredcolor\@declaredcolor]}
9123 \def\@declaredcolor#1{%
9124 \@ifundefined{\string\color @#1}%
9125 {\c@lor@error{`#1'}}%
9126 {\expandafter\let\expandafter\current@color
9127 \csname\string\color @#1\endcsname
9128 \set@color}%
9129 \ifhmode\if@RTL\beginR\aftergroup\endL\fi\fi\ignorespaces}
9130 \def\@undeclaredcolor[#1]#2{%
9131 \@ifundefined{color@#1}%
9132 {\c@lor@error{model `#1'}}%
9133 {\csname color@#1\endcsname\current@color{#2}%
9134 \set@color}%
9135 \ifhmode\if@RTL\beginR\aftergroup\endL\fi\fi\ignorespaces}
9136 \DeclareRobustCommand\bidicolor{%
9137 \@ifnextchar[\@bidiundeclaredcolor\@bidideclaredcolor]}
9138 \def\@bidiundeclaredcolor[#1]#2{%
9139 \@ifundefined{color@#1}%
9140 {\c@lor@error{model `#1'}}%
9141 {\csname color@#1\endcsname\current@color{#2}%
9142 \set@color}%
9143 \ignorespaces}
9144 \def\@bidideclaredcolor#1{%
9145 \@ifundefined{\string\color @#1}%
9146 {\c@lor@error{`#1'}}%
9147 {\expandafter\let\expandafter\current@color
9148 \csname\string\color @#1\endcsname
9149 \set@color}%
9150 \ignorespaces}
9151 \def\color@box#1#2{\color@b@x\relax{\bidicolor#1{#2}}}
9152 \def\color@fbbox#1#2#3{%
9153 \color@b@x{\fbboxsep\z@\bidicolor#1{#2}\fbbox}{\bidicolor#1{#3}}}
9154 \def\color@setgroup{\begingroup\ifhmode\if@RTL\beginL\aftergroup\endR\fi\fi\set@color\ifhmod

```



## 64 File combine-xetex-bidi.def

```
9155 \ProvidesFile{combine-xetex-bidi.def}[2011/09/23 v0.1 bidi adaptations for combine class for
9156 \renewcommand{\c@ll@chapsecii}[2]{%
9157   \if@RTL\advance\rightskip\@tempdima\else\advance\leftskip\@tempdima\fi
9158   \if@RTL\hskip -\rightskip\else\hskip -\leftskip\fi
9159   #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
9160 }
9161 \renewcommand{\c@ll@chapseci}{%
9162   \setlength\@tempdima{0em}%
9163   \begingroup
9164     \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
9165     \parfillskip -\@pnumwidth
9166     \leavevmode
9167 }
9168 \renewenvironment{tocindent}[1]{%
9169   \hangindent \if@RTL-\fi#1 \hangafter -100\relax}{}
```

## 65 File crop-xetex-bidi.def

```
9170 \ProvidesFile{crop-xetex-bidi.def}[2013/04/10 v0.2 bidi adaptations for crop package for XeT
9171 \renewcommand*\CROP@ulc{%
9172   \if@RTLmain%
9173     \begin{picture}(0,0)
9174       \unitlength\p@\thinline
9175       \put(-40,0){\circle{10}}
9176       \put(-30,-5){\line(0,1){10}}
9177       \put(-35,0){\line(1,0){30}}
9178       \put(-10,30){\circle{10}}
9179       \put(-5,30){\line(1,0){10}}
9180       \put(0,35){\line(0,-1){30}}
9181     \end{picture}%
9182   \else%
9183     \begin{picture}(0,0)
9184       \unitlength\p@\thinline
9185       \put(-30,0){\circle{10}}
9186       \put(-30,-5){\line(0,1){10}}
9187       \put(-35,0){\line(1,0){30}}
9188       \put(0,30){\circle{10}}
9189       \put(-5,30){\line(1,0){10}}
9190       \put(0,35){\line(0,-1){30}}
9191     \end{picture}%
9192   \fi%
9193 }
9194 \renewcommand*\CROP@urc{%
9195   \if@RTLmain%
9196     \begin{picture}(0,0)
9197       \unitlength\p@\thinline
9198       \put(20,0){\circle{10}}
9199       \put(30,-5){\line(0,1){10}}
9200       \put(35,0){\line(-1,0){30}}
9201       \put(-10,30){\circle{10}}
9202       \put(-5,30){\line(1,0){10}}
9203       \put(0,35){\line(0,-1){30}}
9204     \end{picture}%
9205   \else%
9206     \begin{picture}(0,0)
9207       \unitlength\p@\thinline
9208       \put(-20,0){\circle{10}}
9209       \put(-30,-5){\line(0,1){10}}
9210       \put(-35,0){\line(1,0){30}}
9211       \put(0,30){\circle{10}}
9212       \put(5,30){\line(-1,0){10}}
9213       \put(0,35){\line(0,-1){30}}
9214     \end{picture}%
9215   \fi%
9216 }
```



```

9204 \end{picture}%
9205 \else%
9206 \begin{picture}(0,0)
9207 \unitlength\p@\thinlines
9208 \put(30,0){\circle{10}}
9209 \put(30,-5){\line(0,1){10}}
9210 \put(35,0){\line(-1,0){30}}
9211 \put(0,30){\circle{10}}
9212 \put(-5,30){\line(1,0){10}}
9213 \put(0,35){\line(0,-1){30}}
9214 \end{picture}%
9215 \fi%
9216 }
9217 \renewcommand*\CROP@llc{%
9218 \if@RTLmain%
9219 \begin{picture}(0,0)
9220 \unitlength\p@\thinlines
9221 \put(-40,0){\circle{10}}
9222 \put(-30,-5){\line(0,1){10}}
9223 \put(-35,0){\line(1,0){30}}
9224 \put(-10,-30){\circle{10}}
9225 \put(-5,-30){\line(1,0){10}}
9226 \put(0,-35){\line(0,1){30}}
9227 \end{picture}%
9228 \else%
9229 \begin{picture}(0,0)
9230 \unitlength\p@\thinlines
9231 \put(-30,0){\circle{10}}
9232 \put(-30,-5){\line(0,1){10}}
9233 \put(-35,0){\line(1,0){30}}
9234 \put(0,-30){\circle{10}}
9235 \put(-5,-30){\line(1,0){10}}
9236 \put(0,-35){\line(0,1){30}}
9237 \end{picture}%
9238 \fi%
9239 }
9240 \renewcommand*\CROP@lrc{%
9241 \if@RTLmain%
9242 \begin{picture}(0,0)
9243 \unitlength\p@\thinlines
9244 \put(20,0){\circle{10}}
9245 \put(30,-5){\line(0,1){10}}
9246 \put(35,0){\line(-1,0){30}}
9247 \put(-10,-30){\circle{10}}
9248 \put(-5,-30){\line(1,0){10}}
9249 \put(0,-35){\line(0,1){30}}
9250 \end{picture}%
9251 \else%
9252 \begin{picture}(0,0)
9253 \unitlength\p@\thinlines
9254 \put(30,0){\circle{10}}
9255 \put(30,-5){\line(0,1){10}}
9256 \put(35,0){\line(-1,0){30}}
9257 \put(0,-30){\circle{10}}

```



```

9258      \put(-5,-30){\line(1,0){10}}
9259      \put(0,-35){\line(0,1){30}}
9260      \end{picture}%
9261      \fi%
9262 }
9263 \@ifpackagewith{crop}{cam}{%
9264 \CROP@execopt{cam}%
9265 }{}

```

## 66 File cutwin-xetex-bidi.def

```

9266 \ProvidesFile{cutwin-xetex-bidi.def}[2011/11/12 v0.1 bidi adaptations for cutwin package for
9267 \renewcommand*{\c@twcompctr}[2]{%
9268   \def\c@twfirst{1}
9269   \loop\advance\c@twwinlines\m@ne
9270   \setbox\c@twslicea=\vsplit#1 to\baselineskip
9271   \setbox\c@twsliceb=\vsplit#1 to\baselineskip
9272   \c@twprune{\c@twslicea}{\c@twlftside}%
9273   \c@twprune{\c@twsliceb}{\c@twrtside}%
9274   \ifnum\c@twfirst=\@ne
9275     \setbox#2=\vbox{\unvbox#2\hbox
9276       to\hsize{\if@RTL\box\c@twsliceb\else\box\c@twslicea\fi\pageinwindow\hfil\if@RTL\box\c@tw
9277   \else
9278     \setbox#2=\vbox{\unvbox#2\hbox
9279       to\hsize{\if@RTL\box\c@twsliceb\else\box\c@twslicea\fi\hfil\if@RTL\box\c@twslicea\else\box\c@tw
9280   \fi
9281   \def\c@twfirst{2}
9282   \ifnum\c@twwinlines>\z@\repeat}
9283 \renewcommand*{\c@twcompodctr}[2]{%
9284   \def\c@twrounds{1}
9285   \def\c@twfirst{1}
9286   \@for\c@twlspec:=\c@twb\do{%
9287     \ifnum\c@twrounds=1
9288       \setbox\c@twslicea=\vsplit#1 to\baselineskip % first of pair
9289       \c@twprune{\c@twslicea}{\c@twlspec}%
9290       \def\c@twrounds{2}
9291     \else
9292       \setbox\c@twsliceb=\vsplit#1 to\baselineskip % second of pair
9293       \c@twprune{\c@twsliceb}{\c@twlspec}%
9294       \ifnum\c@twfirst=1
9295         \setbox#2=\vbox{\unvbox#2\hbox
9296           to\hsize{\if@RTL\box\c@twsliceb\else\box\c@twslicea\fi\hfil\picinwindow\hfil\if@RTL\box\c@tw
9297         \def\c@twfirst{2}
9298       \else
9299         \setbox#2=\vbox{\unvbox#2\hbox
9300           to\hsize{\if@RTL\box\c@twsliceb\else\box\c@twslicea\fi\hfil\if@RTL\box\c@twslicea\else\box\c@tw
9301       \fi
9302       \def\c@twrounds{1}
9303     \fi}}

```

## 67 File cuted-xetex-bidi.def

```

9304 \ProvidesFile{cuted-xetex-bidi.def}[2022/02/18 v0.7 bidi adaptations for cuted package for X
9305

```



```

9306 \def\RTL@outputdblcol{%
9307   \if@firstcolumn
9308     \global\@firstcolumnfalse
9309     \global\setbox\@leftcolumn\copy\@outputbox
9310     \splitmaxdepth\maxdimen
9311     \vbadness\maxdimen
9312     \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
9313     \setbox\@outputbox\vsplit\@outputbox to\maxdimen
9314     \toks@\expandafter{\topmark}%
9315     \xdef\@firstcoltopmark{\the\toks@}%
9316     \toks@\expandafter{\splitfirstmark}%
9317     \xdef\@firstcolfirstmark{\the\toks@}%
9318     \ifx\@firstcolfirstmark\@empty
9319       \global\let\@setmarks\relax
9320     \else
9321       \gdef\@setmarks{%
9322         \let\firstmark\@firstcolfirstmark
9323         \let\topmark\@firstcoltopmark}%
9324     \fi
9325   \else
9326     \global\@firstcolumntrue
9327     \setbox\@outputbox\vbox{%
9328       \hb@xt@\textwidth{%
9329         \hskip \columnwidth
9330         \hfil
9331         {\normalcolor\vrule \@width\columnseprule}%
9332         \hfil
9333         \hb@xt@\columnwidth{%
9334           \bidi@firstcolumn@status@write%
9335           \box\@leftcolumn \hss}%
9336         \hskip -\textwidth
9337         \hb@xt@\columnwidth{%
9338           \bidi@lastcolumn@status@write%
9339           \box\@outputbox \hss}%
9340         \hskip \columnsep
9341         \hskip \columnwidth }}%
9342     \ifvoid\hold@viper
9343     \else
9344       \setbox\@outputbox \vbox to\textheight{%
9345         \box\hold@viper
9346         \box\@outputbox
9347         \vss
9348       }%
9349     \fi
9350   \@combinedblfloats
9351   \@setmarks
9352   \@outputpage
9353   \begingroup
9354     \@dblfloatplacement
9355     \@startdblcolumn
9356     \@whilesw\if@fcolmade \fi{\@outputpage
9357     \@startdblcolumn}%
9358   \ifvoid\@viper
9359   \else

```



```

9360      \global\setbox\@viper\vbox{%
9361          \vskip-\stripsep
9362          \unvbox\@viper
9363      }%
9364      \@viperoutput
9365      \fi
9366      \endgroup
9367      \fi}%
9368
9369 \def\LTR@outputdblcol{%
9370     \if@firstcolumn
9371         \global\@firstcolumnfalse
9372         \global\setbox\@leftcolumn\copy\@outputbox
9373         \splitmaxdepth\maxdimen
9374         \vbadness\maxdimen
9375         \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
9376         \setbox\@outputbox\vsplit\@outputbox to\maxdimen
9377         \toks@\expandafter{\topmark}%
9378         \xdef\@firstcoltopmark{\the\toks@}%
9379         \toks@\expandafter{\splitfirstmark}%
9380         \xdef\@firstcolfirstmark{\the\toks@}%
9381         \ifx\@firstcolfirstmark\@empty
9382             \global\let\@setmarks\relax
9383         \else
9384             \gdef\@setmarks{%
9385                 \let\firstmark\@firstcolfirstmark
9386                 \let\topmark\@firstcoltopmark}%
9387         \fi
9388     \else
9389         \global\@firstcolumntrue
9390         \setbox\@outputbox\vbox{%
9391             \hb@xt@\textwidth{%
9392                 \hb@xt@\columnwidth{%
9393                     \bidi@firstcolumn@status@write%
9394                     \box\@leftcolumn \hss}%
9395                 \hfil
9396                 {normalcolor\vrule \@width\columnseprule}%
9397                 \hfil
9398                 \hb@xt@\columnwidth{%
9399                     \bidi@lastcolumn@status@write%
9400                     \box\@outputbox \hss}}}%
9401         \ifvoid\hold@viper
9402         \else
9403             \setbox\@outputbox \vbox to\textheight{%
9404                 \box\hold@viper
9405                 \box\@outputbox
9406                 \vss
9407             }%
9408         \fi
9409     \@combinedblfloats
9410     \@setmarks
9411     \@outputpage
9412     \begingroup
9413     \@dblfloatplacement

```



```

9414 \startdblcolumn
9415 \@whiles\if@fcolmade \fi{\@outputpage
9416 \startdblcolumn}%
9417 \ifvoid\@viper
9418 \else
9419 \global\setbox\@viper\vbox{%
9420 \vskip-\stripsep
9421 \unvbox\@viper
9422 }%
9423 \@viperoutput
9424 \fi
9425 \endgroup
9426 \fi}%
9427
9428 \def\@addviper{%
9429 \insertfalse
9430 \def\var@@thecol@num{2}%
9431 \if@firstcolumn
9432 \def\var@@thecol@num{1}%
9433 \@reqcolroom=.5\@pageht
9434 \ht@viper=\@reqcolroom
9435 \advance\@reqcolroom by\ht\@viper
9436 \advance\@reqcolroom by\stripsep
9437 \else
9438 \@reqcolroom=\@colht
9439 \advance\@reqcolroom by\@pageht
9440 \ht@viper.5\@reqcolroom
9441 \@reqcolroom=\ht@viper
9442 \advance\@reqcolroom by\ht\@viper
9443 \advance\@reqcolroom by\stripsep
9444 \global\setbox\@holdpg\vbox{%
9445 \setbox\cuted@@tempbox@a\vbox{%
9446 \aftergroup\unvbox
9447 \unvcopy\@leftcolumn
9448 \unskip\unkern\unpenalty
9449 \setbox\@tempboxa\lastbox
9450 \ifdim\dimexpr\ht\@tempboxa+\wd\@tempboxa+\dp\@tempboxa>\z@
9451 %% keeps lastbox
9452 \aftergroup\@leftcolumn
9453 \else
9454 %% removes lastbox
9455 \aftergroup\cuted@@tempbox@a
9456 \fi
9457 }%
9458 \unskip\unkern\unpenalty
9459 \on@stripcols@break
9460 \the\At@ViperColsBreak
9461 \unvbox\@holdpg
9462 }%
9463 \global\At@ViperColsBreak{}%
9464 \ht@viper=.5\ht\@holdpg
9465 \ifdim\ht@viper>\@colht
9466 \ht@viper=\@colht
9467 \fi

```



```

9468 \fi
9469 %%
9470 %% calculations for breaking
9471 %%
9472 \ifvoid\hold@viper
9473 \ht@hold@viper=\z@
9474 \else
9475 \ht@hold@viper=\ht\hold@viper
9476 \fi
9477 \cuted@@tempdim@b\ht@viper
9478 \set@split@topskip@to\topskip
9479 \loop
9480 \xdef\saved@tempdimb{\the\cuted@@tempdim@b}%
9481 \setbox\cuted@@varbox@a\copy\@holdpg
9482 \setbox\cuted@@tempbox@a\vsplit\cuted@@varbox@a to\cuted@@tempdim@b
9483 %% set leftcolumn boxes
9484 \setbox\cuted@@tempbox@c\vbox{\unvbox\cuted@@tempbox@a}%
9485 \setbox\cuted@@tempbox@a\vbox to\cuted@@tempdim@b{\unvcopy\cuted@@tempbox@c}%
9486 \xdef\var@@leftcolumn@badness{\the\badness}%
9487 %% set rightcolumn boxes
9488 \setbox\cuted@@varbox@c\vbox{\unvbox\cuted@@varbox@a}%
9489 \setbox\cuted@@varbox@a\vbox to\cuted@@tempdim@b{\unvcopy\cuted@@varbox@c}%
9490 \xdef\var@@rightcolumn@badness{\the\badness}%
9491 %% analyzing split goodness
9492 \cuted@@tempdim@spread=\ht\cuted@@tempbox@c
9493 \advance\cuted@@tempdim@spread by\dp\cuted@@tempbox@c
9494 \advance\cuted@@tempdim@spread by-\ht\cuted@@varbox@c
9495 \advance\cuted@@tempdim@spread by-\dp\cuted@@varbox@c
9496 \cuted@@wlog@debug{CUTED [----]}%
9497 ^^JLeft: \the\ht\cuted@@tempbox@c
9498 +\the\dp\cuted@@tempbox@c\space/\var@@leftcolumn@badness
9499 ^^JRight: \the\ht\cuted@@varbox@c
9500 +\the\dp\cuted@@varbox@c\space/\var@@rightcolumn@badness
9501 ^^JSplit: \the\cuted@@tempdim@b
9502 ^^JExtra height: \the\cuted@@tempdim@spread
9503 }%
9504 \ifnum\var@@leftcolumn@badness<\cuted@@column@badness
9505 \ifnum\var@@rightcolumn@badness<\cuted@@column@badness
9506 \cuted@@tempdim@spread=\z@
9507 \fi
9508 \fi
9509 \ifdim\cuted@@tempdim@spread<\z@
9510 \if@leftcolumn@spread
9511 \if@rightcolumn@shrink
9512 \ifdim\dimexpr\cuted@@tempdim@spread+\pageshrink>\z@
9513 \cuted@@tempdim@a=\dimexpr\ht\cuted@@tempbox@c-0.5\cuted@@tempdim@spread
9514 \else
9515 \cuted@@tempdim@a=-\dimexpr\cuted@@tempdim@spread+.5\pageshrink\relax
9516 \fi
9517 \setbox\cuted@@varbox@a\vbox to\cuted@@tempdim@a{\unvcopy\cuted@@tempbox@c}
9518 \ifnum\badness<\cuted@@column@badness
9519 \cuted@@tempdim@b=\cuted@@tempdim@a
9520 \cuted@@tempdim@spread=\z@
9521 \fi

```





```

9522         \cuted@@wlog@debug{CUTED [leftcolumn badness]: \number\badness\space on
9523         \setbox\cuted@@varbox@a\vbox to\cuted@@tempdim@a{\unvcopy\cuted@@varbox@c}
9524         \cuted@@wlog@debug{CUTED [rightcolumn badness]: \number\badness\space on
9525         \else
9526         \setbox\cuted@@varbox@a\vbox to\ht\cuted@@varbox@c{
9527         \unvcopy\cuted@@tempbox@c
9528         }%
9529         \ifnum\badness<\cuted@@column@badness
9530         \@tempdimb=\ht\cuted@@varbox@c
9531         \cuted@@tempdim@spread=\z@
9532         \fi
9533         \cuted@@wlog@debug{CUTED [leftcolumn badness]: \number\badness on \the\h
9534         \setbox\cuted@@varbox@a\vbox to\ht\cuted@@varbox@c{
9535         \unvcopy\cuted@@varbox@c
9536         }%
9537         \cuted@@wlog@debug{CUTED [rightcolumn badness]: \number\badness on \the\
9538         \fi
9539         \else
9540         \if@right@column@shrink
9541         \ifdim\dimexpr\cuted@@tempdim@spread+\pageshrink<\z@
9542         \else
9543         \cuted@@tempdim@b=\ht\cuted@@tempbox@c
9544         \cuted@@tempdim@spread=\z@
9545         \fi
9546         \fi
9547         \fi
9548         \else
9549         \ifdim\cuted@@tempdim@spread>\z@
9550         \ifdim\dimexpr\@tempdimb+\p@\relax>\@colht
9551         \cuted@@tempdim@b=\@colht
9552         \cuted@@tempdim@spread=\z@
9553         \fi
9554         \fi
9555         \fi
9556         \ifdim\cuted@@tempdim@spread<\z@
9557         \advance\cuted@@tempdim@b 1\p@
9558         \repeat
9559         \wlog{CUTED [- LAST -]}%
9560         ^^JExtra skip:\the\cuted@@tempdim@spread
9561         ^^JLeft:\the\ht\cuted@@tempbox@c/\the\dp\cuted@@tempbox@c
9562         ^^JRight:\the\ht\cuted@@varbox@c/\the\dp\cuted@@varbox@c
9563         ^^JSplit: \saved@tempdimb
9564         ^^JOutput:\the\cuted@@tempdim@b
9565         ^^JPageshrink: \the\pageshrink
9566         ^^JPagestretch: \the\pagestretch
9567         ^^J@colht:\the\@colht
9568         }%
9569         %%
9570         %% final construction of the cuted page above strip
9571         %%
9572         \setbox\cuted@@tempbox@c\vsplit\@holdpg to\saved@tempdimb
9573         \setbox\cuted@@tempbox@a\vbox to\cuted@@tempdim@b{
9574         \cuted@@tempdim@a=\dimexpr
9575         \cuted@@tempdim@b-\ht\cuted@@tempbox@c

```



```

9576         \relax
9577         \cuted@@tempdim@spread=\dp\cuted@@tempbox@c
9578         \unvbox\cuted@@tempbox@c
9579         \ifdim\cuted@@tempdim@spread>\dp\strutbox
9580         \else
9581             \vskip-\cuted@@tempdim@spread
9582         \fi
9583         \prevdepth\z@
9584         \hrule\@height\cuted@@page@rule width\textwidth
9585         \vskip-\cuted@@page@rule
9586         \ifdim\cuted@@tempdim@a>\z@
9587             \if@left@column@spread
9588                 \else
9589                     \vss
9590                 \fi
9591             \else
9592                 \ifdim\cuted@@tempdim@a<\z@
9593                     \if@left@column@shrink
9594                         \else
9595                             \vss
9596                         \fi
9597                     \fi
9598                 \fi
9599             }%
9600         \wlog{CUTED [output]: \the\cuted@@tempdim@b
9601             ^^JCUTED [leftcolumn badness]: \number\badness
9602         }%
9603         \setbox\cuted@@varbox@a\vbox to\cuted@@tempdim@b{%
9604             \cuted@@tempdim@a=\dimexpr
9605                 \cuted@@tempdim@b-\ht\@holdpg
9606             \relax
9607             \unvbox\@holdpg
9608             \ifdim\cuted@@tempdim@a>\z@
9609                 \if@right@column@spread
9610                     \else
9611                         \vss
9612                     \fi
9613                 \else
9614                     \ifdim\cuted@@tempdim@a<\z@
9615                         \if@right@column@shrink
9616                             \else
9617                                 \vss
9618                             \fi
9619                         \fi
9620                     \fi
9621                 }%
9622         \wlog{CUTED [rightcolumn badness]: \number\badness}%
9623         \setbox\cuted@@tempbox@var\vbox{%
9624             \hb@xt@\textwidth{%
9625                 \if@RTLmain
9626                     \hskip \columnwidth
9627                     \hfil
9628                     {\normalcolor\vrule \@width\columnseprule}%
9629                     \hfil

```



```

9630         \hb@xt@\columnwidth{%
9631             \vbox to\ht@viper{\box\cuted@@tempbox@a\vss}%
9632             \hss
9633         }%
9634         \hskip -\textwidth
9635         \hb@xt@\columnwidth{%
9636             \vbox to\ht@viper{\box\cuted@@varbox@a\vss}%
9637             \hss
9638         }%
9639         \hskip \columnsep
9640         \hskip \columnwidth
9641     \else
9642         \hb@xt@\columnwidth{%
9643             \vbox to\ht@viper{\box\cuted@@tempbox@a\vss}%
9644             \hss
9645         }%
9646         \hfil
9647         {\normalcolor\vrule \@width\columnseprule}%
9648         \hfil
9649         \hb@xt@\columnwidth{%
9650             \vbox to\ht@viper{\box\cuted@@varbox@a\vss}%
9651             \hss
9652         }%
9653     \fi
9654 }%
9655 %%
9656 %%
9657 %% finalize cuted page
9658 %%
9659 \ifvoid\hold@viper
9660     \global\setbox\hold@viper\vbox{%
9661         \unvbox\cuted@@tempbox@var
9662         \penalty\interlinepenalty
9663         \vskip\stripsep
9664         \the\preCutedStrip
9665         \ifnum\outputpenalty<-\@Mii
9666             \vskip -\parskip
9667         \fi
9668         \outputpenalty\z@
9669     }%
9670 \else
9671     \global\setbox\hold@viper\vbox{%
9672         \unvbox\hold@viper
9673         \cuted@@tempbox@var
9674         \penalty\interlinepenalty
9675         \vskip\stripsep
9676         \the\preCutedStrip
9677         \ifnum\outputpenalty<-\@Mii
9678             \vskip -\parskip
9679         \fi
9680         \outputpenalty\z@
9681     }%
9682 \fi
9683 \ifdim\@colht>\@reqcolroom

```



```

9684 \global\setbox\hold@viper\vbox{%
9685 \unvbox\hold@viper
9686 \box\@viper
9687 \penalty\interlinepenalty
9688 \the\postCutedStrip
9689 \vskip\stripsep
9690 \ifnum\outputpenalty<-\@Mii
9691 \vskip -\parskip
9692 \fi
9693 \outputpenalty\z@
9694 }%
9695 \@inserttrue
9696 \global\@firstcolumntrue
9697 \advance\ht@hold@viper by-\ht\hold@viper
9698 \global\advance\@colht by\ht@hold@viper
9699 \ifdim\@colht<2.5\baselineskip
9700 \latex@warning@no@line {Optional argument of \noexpand\twocolumn
9701 too tall on page \thepage (\var@@thecol@num column)}}%
9702 \emptycol
9703 \if@firstcolumn
9704 \else
9705 \emptycol
9706 \fi
9707 \global\@lastvipertrue
9708 \else
9709 \global\vsizel\@colht
9710 \global\@colroom\@colht
9711 \check@floats\cuted@@tempdim@a
9712 \ifdim\cuted@@tempdim@a>\z@
9713 \global\advance\@colroom by-\cuted@@tempdim@a
9714 \fi
9715 \ifdim\@colroom<\z@
9716 \global\@colroom1\p@
9717 \ifdim\cuted@@tempdim@a>\@colht
9718 \latex@warning@no@line{TOP and/or BOT FLOAT's
9719 to large on \thepage (\var@@thecol@num column)}}%
9720 \fi
9721 \emptycol
9722 \if@firstcolumn
9723 \else
9724 \emptycol
9725 \fi
9726 \global\@lastvipertrue
9727 \fi
9728 \fi
9729 \if@insert
9730 \else
9731 \advance\ht@hold@viper by-\ht\hold@viper
9732 \global\advance\@colht by\ht@hold@viper
9733 \global\setbox\hold@viper\vbox{%
9734 \unvbox\hold@viper
9735 \set@split@topskip@to{\z@ plus2\p@}%
9736 \vsplit\@viper to\@colht
9737

```



```

9738         \vss
9739     }%
9740     \vbox{}%
9741     \global\@firstcolumnfalse
9742     \newpage
9743     \fi
9744 }

```

## 68 File cvthemebidicasual.sty

```

9745 \NeedsTeXFormat{LaTeX2e}
9746 \ProvidesPackage{cvthemebidicasual}
9747 \DeclareOption{blue}{}
9748 \newif\if@colourorange\@colourorangefalse
9749 \DeclareOption{orange}{\@colourorange>true}
9750 \newif\if@colourgreen\@colourgreenfalse
9751 \DeclareOption{green}{\@colourgreentrue}
9752 \newif\if@colourred\@colourredfalse
9753 \DeclareOption{red}{\@colourredtrue}
9754 \newif\if@colourgrey\@colourgreyfalse
9755 \DeclareOption{grey}{\@colourgreytrue}
9756 \DeclareOption*{
9757     \PackageWarning{cvthemebidicasual}{Unknown option ‘\CurrentOption’}}
9758 \ExecuteOptions{colour}
9759 \ProcessOptions\relax
9760 \renewcommand*{\listitemsymbol}{\textbullet}
9761 \definecolor{firstnamecolor}{rgb}{0.65,0.65,0.65}
9762 \familynamecolour{808080}
9763 \firstnamecolour{A9A9A9}
9764 \quotecolour{696969}
9765 \addresscolour{696969}
9766 \definecolor{sectionrectanglecolor}{rgb}{0.25,0.50,0.75}
9767 \sectiontitlecolour{1E90FF}
9768 \subsectioncolour{4682B4}
9769 \definecolor{rulecolour}{gray}{0.6}
9770 \definecolor{footersymbolcolour}{rgb}{0.25,0.50,0.75}
9771 \definecolor{footersymbolcolor}{rgb}{0.25,0.50,0.75}
9772 \if@colourorange
9773     \definecolor{sectionrectanglecolor}{rgb}{1.00,0.65,0.20}
9774     \definecolor{sectionrectanglecolor}{rgb}{1.00,0.65,0.20}
9775     \sectiontitlecolour{FF8C00}
9776     \subsectioncolour{FF8C00}
9777     \definecolor{footersymbolcolour}{rgb}{0.95,0.55,0.15}
9778     \definecolor{footersymbolcolor}{rgb}{0.95,0.55,0.15}\fi
9779 \if@colourgreen
9780     \definecolor{sectionrectanglecolor}{rgb}{0.55,0.85,0.35}
9781     \definecolor{sectionrectanglecolour}{rgb}{0.55,0.85,0.35}
9782     \sectiontitlecolour{008000}
9783     \subsectioncolour{008000}
9784     \definecolor{footersymbolcolour}{rgb}{0.30,0.65,0.15}
9785     \definecolor{footersymbolcolor}{rgb}{0.30,0.65,0.15}\fi
9786 \if@colourred
9787     \definecolor{sectionrectanglecolor}{rgb}{1.00,0.30,0.30}
9788     \definecolor{sectionrectanglecolour}{rgb}{1.00,0.30,0.30}

```



```

9789 \sectiontitlecolour{FF0000}
9790 \subsectioncolour{FF0000}
9791 \definecolor{footersymbolcolour}{rgb}{0.95,0.20,0.20}
9792 \definecolor{footersymbolcolor}{rgb}{0.95,0.20,0.20}\fi
9793 \if@colourgrey
9794 \definecolor{sectionrectanglecolor}{rgb}{0.75,0.75,0.75}
9795 \definecolor{sectionrectanglecolour}{rgb}{0.75,0.75,0.75}
9796 \sectiontitlecolour{808080}
9797 \subsectioncolour{808080}
9798 \definecolor{footersymbolcolour}{rgb}{0.35,0.35,0.35}
9799 \definecolor{footersymbolcolor}{rgb}{0.35,0.35,0.35}\fi
9800 \renewcommand*{\ttdefault}{pcr}
9801 \renewcommand*{\firstnamefont}{\fontsize{38}{40}\mdseries\upshape}
9802 \renewcommand*{\familynamefont}{\firstnamefont}
9803 \renewcommand*{\addressfont}{\normalsize\mdseries\slshape}
9804 \renewcommand*{\quoteftfont}{\large\slshape}
9805 \renewcommand*{\sectionfont}{\Large\mdseries\upshape}
9806 \renewcommand*{\subsectionfont}{\large\mdseries\upshape}
9807 \renewcommand*{\maketitle}{%
9808   {%
9809     \ifthenelse{\isundefined{\@photo}}{%
9810       {}%
9811       {\color{firstnamecolor}\framebox{\includegraphics[width=\@photowidth]{\@photo}}}%
9812       \hfill%
9813       \bidi@raggedleft{\firstnamestyle{\@firstname}~\familynamestyle{\@familyname}}\[-.35em]}%
9814       {\color{firstnamecolor}\rule{\textwidth}{.25ex}\[2.5em]}%
9815     \ifthenelse{\isundefined{\@quote}}{%
9816       {}%
9817       {\centering{\begin{minipage}{\quotewidth}\centering\quotestyle{\@quote}\end{minipage}}\%
9818     }%
9819 \newif\if@firstfooterelement\@firstfooterelementtrue
9820 \providecommand*{\footersymbol}{%
9821 \renewcommand*{\footersymbol}{%
9822 \if@firstfooterelement%
9823 \else%
9824 {~~\color{footersymbolcolor}\textbullet~~}\fi}
9825 \providecommand*{\makefooter}{%
9826 \renewcommand*{\makefooter}{%
9827 \fancypagestyle{plain}{%
9828 \fancyfoot[c]{%
9829 \parbox{0.8\textwidth}{%
9830 \centering%
9831 \addressfont\@addresscolour%
9832 \ifthenelse{\isundefined{\@address}}{}{}%
9833 \addresssymbol~\@address\%
9834 \@firstfooterelementfalse}%
9835 \ifthenelse{\isundefined{\@mobile}}{}{\mobilesymbol~\@mobile\@firstfooterelementfalse}%
9836 \ifthenelse{\isundefined{\@phone}}{}{\footersymbol\phonesymbol~\@phone\@firstfooterelementfalse}%
9837 \ifthenelse{\isundefined{\@fax}}{}{\footersymbol\faxsymbol~\@fax\@firstfooterelementfalse}%
9838 \ifthenelse{\isundefined{\@email}}{}{\footersymbol\emailsymbol~\emailink{\@email}\@firstfooterelementfalse}%
9839 \ifthenelse{\isundefined{\@extrainfo}}{}{\footersymbol\extrainfo\@firstfooterelementfalse}%
9840 }%
9841 \pagestyle{plain}}
9842 \AtBeginDocument{\makefooter}

```



## 69 File cvthemebidiclassic.sty

```
9843 \NeedsTeXFormat{LaTeX2e}
9844 \ProvidesPackage{cvthemebidiclassic}
9845 \DeclareOption{blue}{}
9846 \newif\if@colourorange\@colourorangefalse
9847 \DeclareOption{orange}{\@colourorangetrue}
9848 \newif\if@colourgreen\@colourgreenfalse
9849 \DeclareOption{green}{\@colourgreentrue}
9850 \newif\if@colourred\@colourredfalse
9851 \DeclareOption{red}{\@colourredtrue}
9852 \newif\if@colourgrey\@colourgreyfalse
9853 \DeclareOption{grey}{\@colourgreytrue}
9854 \DeclareOption*{
9855   \PackageWarning{cvthemebidiclassic}{Unknown option '\CurrentOption'}}
9856 \ExecuteOptions{colour}
9857 \ProcessOptions\relax
9858 \renewcommand*{\listitemsymbol}{\textbullet}
9859 \firstnamecolour{}
9860 \familynamecolour{}
9861 \titlecolour{808080}
9862 \quotecolour{696969}
9863 \addresscolour{696969}
9864 \definecolor{sectionrectanglecolour}{rgb}{0.25,0.50,0.75}
9865 \definecolor{sectionrectanglecolor}{rgb}{0.25,0.5,0.75}
9866 \sectiontitlecolour{1E90FF}
9867 \subsectioncolour{4682B4}
9868 \if@colourorange
9869   \addresscolour{FF8C00}
9870   \definecolor{sectionrectanglecolour}{rgb}{1.00,0.65,0.20}
9871   \definecolor{sectionrectanglecolor}{rgb}{1,0.65,0.20}
9872   \sectiontitlecolour{FF8C00}
9873   \subsectioncolour{FF8C00}\fi
9874 \if@colourgreen
9875   \addresscolour{008000}
9876   \definecolor{sectionrectanglecolour}{rgb}{0.55,0.85,0.35}
9877   \definecolor{sectionrectanglecolor}{rgb}{0.55,0.85,0.35}
9878   \sectiontitlecolour{008000}
9879   \subsectioncolour{008000}\fi
9880 \if@colourred
9881   \addresscolour{FF0000}
9882   \definecolor{sectionrectanglecolour}{rgb}{1.00,0.30,0.30}
9883   \definecolor{sectionrectanglecolor}{rgb}{1.00,0.30,0.30}
9884   \sectiontitlecolour{FF0000}
9885   \subsectioncolour{FF0000}\fi
9886 \if@colourgrey
9887   \addresscolour{808080}
9888   \definecolor{sectionrectanglecolour}{rgb}{0.75,0.75,0.75}
9889   \definecolor{sectionrectanglecolor}{rgb}{0.75,0.75,0.75}
9890   \sectiontitlecolour{808080}
9891   \subsectioncolour{808080}\fi
9892 \renewcommand*{\ttdefault}{pcr}
9893 \renewcommand*{\firstnamefont}{\fontsize{34}{36}\mdseries\upshape}
9894 \renewcommand*{\titlefont}{\LARGE\mdseries\slshape}
```



```

9895 \renewcommand*{\addressfont}{\normalsize\mdseries\slshape}
9896 \renewcommand*{\familynamefont}{\firstnamefont}
9897 \renewcommand*{\quote font}{\large\slshape}
9898 \renewcommand*{\sectionfont}{\Large\mdseries\upshape}
9899 \renewcommand*{\subsectionfont}{\large\mdseries\upshape}
9900 \newlength{\maketitlenamemaxwidth}
9901 \setlength{\maketitlenamemaxwidth}{.525\textwidth}
9902 \newlength{\maketitlenamefullwidth}
9903 \settowidth{\maketitlenamefullwidth}{\firstnamestyle{\@firstname~}\familynamestyle{\@familyname}}
9904 \newlength{\maketitlenamewidth}
9905 \ifnum\maketitlenamemaxwidth<\maketitlenamefullwidth\setlength{\maketitlenamewidth}{\maketitlenamefullwidth}
9906 \newlength{\maketitlepicturewidth}
9907 \setlength{\maketitlepicturewidth}{\@photowidth}
9908 \newlength{\maketitledetailwidth}
9909 \renewcommand*{\recomputethemelengths}{%
9910   \setlength{\maketitledetailwidth}{\textwidth}%
9911   \addtolength{\maketitledetailwidth}{-\maketitlenamewidth}%
9912   \addtolength{\maketitledetailwidth}{-\separatorcolumnwidth}%
9913   \addtolength{\maketitledetailwidth}{-\maketitlepicturewidth}}
9914 \recomputethemelengths
9915 \newif\if@firstdetailselement\@firstdetailselementtrue
9916 \newcommand*{\maketitledetailnewline}{%
9917   \if@firstdetailselement%
9918     \@firstdetailselementfalse%
9919   \else%
9920     \[\[.2em]\fi}
9921 \renewcommand*{\maketitle}{%
9922   % name and title
9923   \begin{minipage}[b]{\maketitlenamewidth}%
9924     \firstnamestyle{\@firstname~}\familynamestyle{\@familyname}%
9925     \ifthenelse{\equal{\@title}{}}{\[\[1.25em]\titlestyle{\@title}}%
9926   \end{minipage}%
9927   % optional data
9928   \begin{minipage}[b]{\maketitledetailwidth}%
9929     \bidi@raggedleft\addressfont\@addresscolour%
9930     \ifthenelse{\isundefined{\@address}}{\[\[1.25em]\titlestyle{\@title}}%
9931     \maketitledetailnewline%
9932     \addresssymbol~\[\[1.25em]\titlestyle{\@title}}%
9933     \ifthenelse{\isundefined{\@mobile}}{\[\[1.25em]\titlestyle{\@title}}%
9934     \ifthenelse{\isundefined{\@phone}}{\[\[1.25em]\titlestyle{\@title}}%
9935     \ifthenelse{\isundefined{\@fax}}{\[\[1.25em]\titlestyle{\@title}}%
9936     \ifthenelse{\isundefined{\@email}}{\[\[1.25em]\titlestyle{\@title}}%
9937     \ifthenelse{\isundefined{\@extrainfo}}{\[\[1.25em]\titlestyle{\@title}}%
9938   \end{minipage}%
9939   % optional photo
9940   \ifthenelse{\isundefined{\@photo}}{\[\[1.25em]\titlestyle{\@title}}%
9941   {\hspace*{\separatorcolumnwidth}\color{firstnamecolor}\framebox{\includegraphics[width=\maketitlepicturewidth]{\@photo}}}%
9942   % optional quote
9943   \ifthenelse{\isundefined{\@quote}}{\[\[1.25em]\titlestyle{\@title}}%
9944   {\centering{\begin{minipage}{\quotewidth}\centering\quotestyle{\@quote}\end{minipage}}\[\[1.25em]\titlestyle{\@title}}%
9945   }
9946 }
9947 }

```





## 70 File dblfnote-xetex-bidi.def

```

9948 \ProvidesFile{dblfnote-xetex-bidi.def}[2012/12/12 v0.3 bidi adaptations for dblfnote package]
9949 \let\autofootnoterule\relax
9950 \let\rightfootnoterule\relax
9951 \let\leftfootnoterule\relax
9952 \let\textwidthfootnoterule\relax
9953 \let\LRfootnoterule\relax
9954 \def\footnoterule{\kern-3\p@
9955   \hrule \@width \DFNcolumnwidth \kern 2.6\p@}%
9956 \AtBeginDocument{\let\dfn@latex@footnotetext\@footnotetext
9957 \let\@footnotetext\dfn@footnotetext}
9958 \long\def\dfn@LTRfootnotetext#1{{\setbox\dfn@boxa\vbox{
9959   \let\insert\dfn@gobble
9960   \columnwidth\DFNcolumnwidth \hbadness\c@DFNsloppiness
9961   \def\@makefnmark{\smash{\dfn@makefnmark}}
9962   \dfn@latex@LTRfootnotetext{#1}\par \boxmaxdepth\dfn@fnmaxdp}%
9963   \dfn@dima\ht\dfn@boxa \advance\dfn@dima\dp\dfn@boxa
9964   \ifdim\dfn@dima>z@\else
9965     \dfn@dima1sp\relax
9966     \setbox\dfn@boxa\vbox{\vbox to1sp{\unvbox\dfn@boxa\vfil}}\fi
9967   \global\setbox\dfn@ins\vbox{\boxmaxdepth\dfn@fnmaxdp
9968     \ifvoid\dfn@ins\else
9969       \unvbox\dfn@ins \allowbreak \nointerlineskip \fi
9970     \ifdfn@allowcbreak \unvbox \else \box \fi \dfn@boxa}%
9971   \setbox\dfn@boxa\copy\dfn@ins
9972   \dfn@split{.5\ht\dfn@boxa}\dfn@boxa\dfn@boxb\dfn@fnmaxdp\footnotesep
9973   \advance\@tempdima\@tempdimb \@tempdimb\@tempdima
9974   \advance\@tempdima-\dfn@fnht \global\dfn@fnht\@tempdimb
9975   \insert\footins{\floatingpenalty\@MM \vbox to\@tempdima{}}%
9976   \xdef\dfn@list{\dfn@list\@elt{\number\dfn@dima}{\number\@tempdima}}}}
9977 \AtBeginDocument{\let\dfn@latex@LTRfootnotetext\@LTRfootnotetext
9978 \let\@LTRfootnotetext\dfn@LTRfootnotetext}
9979 \long\def\dfn@RTLfootnotetext#1{{\setbox\dfn@boxa\vbox{
9980   \let\insert\dfn@gobble
9981   \columnwidth\DFNcolumnwidth \hbadness\c@DFNsloppiness
9982   \def\@makefnmark{\smash{\dfn@makefnmark}}
9983   \dfn@latex@RTLfootnotetext{#1}\par \boxmaxdepth\dfn@fnmaxdp}%
9984   \dfn@dima\ht\dfn@boxa \advance\dfn@dima\dp\dfn@boxa
9985   \ifdim\dfn@dima>z@\else
9986     \dfn@dima1sp\relax
9987     \setbox\dfn@boxa\vbox{\vbox to1sp{\unvbox\dfn@boxa\vfil}}\fi
9988   \global\setbox\dfn@ins\vbox{\boxmaxdepth\dfn@fnmaxdp
9989     \ifvoid\dfn@ins\else
9990       \unvbox\dfn@ins \allowbreak \nointerlineskip \fi
9991     \ifdfn@allowcbreak \unvbox \else \box \fi \dfn@boxa}%
9992   \setbox\dfn@boxa\copy\dfn@ins
9993   \dfn@split{.5\ht\dfn@boxa}\dfn@boxa\dfn@boxb\dfn@fnmaxdp\footnotesep
9994   \advance\@tempdima\@tempdimb \@tempdimb\@tempdima
9995   \advance\@tempdima-\dfn@fnht \global\dfn@fnht\@tempdimb
9996   \insert\footins{\floatingpenalty\@MM \vbox to\@tempdima{}}%
9997   \xdef\dfn@list{\dfn@list\@elt{\number\dfn@dima}{\number\@tempdima}}}}
9998 \AtBeginDocument{\let\dfn@latex@RTLfootnotetext\@RTLfootnotetext
9999 \let\@RTLfootnotetext\dfn@RTLfootnotetext}

```



```

10000 \def\dfn@RTLmakecol{{\ifvoid\footins\else
10001     \dfn@dima\ht\footins
10002     \@tempcnta\z@ \dfn@countins
10003     \@tempdima\z@ \let\@elt\dfn@elt@getht
10004     \dfn@list\@nil
10005     \ifdim\@tempdima=\z@\else
10006     \dfn@split\@tempdima\dfn@ins\dfn@boxa\z@\z@
10007     \global\setbox\dfn@ins\box\dfn@ins
10008     \@tempswatrue
10009     \ifdfn@trysingle
10010         \setbox\dfn@boxb\vbox{\unvcopy\@cclv}\@tempdima\@colroom
10011         \advance\@tempdima-\ht\dfn@boxb \advance\@tempdima-\dp\dfn@boxb
10012         \advance\@tempdima-\skip\footins
10013         \advance\@tempdima-\ht\dfn@boxa
10014         \ifdim\@tempdima<\z@\else \@tempswafalse
10015             \global\setbox\footins\vbox{\boxmaxdepth\dfn@fnmaxdp
10016                 \footnoterule \unvbox\dfn@boxa}\fi\fi
10017     \if@tempswa
10018     \dfn@split{\dfn@dima}\dfn@boxa\dfn@boxb\dfn@fnmaxdp\footnotesep
10019     \global\setbox\footins\vbox{\hbox{%
10020         \hskip \DFNcolumnwidth
10021         \hskip\DFNcolumnsep
10022         \hbox to\DFNcolumnwidth{\vbox to\@tempdima{\footnoterule
10023             \unvbox\dfn@boxb\vss}\hss}
10024         \hskip -\textwidth
10025         \hbox to\DFNcolumnwidth{\ifvoid\dfn@boxa\else
10026             \vbox to\@tempdima{
10027                 \setbox\@tempboxa\vbox{\footnoterule}
10028                 \ifdfn@ruleboth \unvbox\@tempboxa
10029                 \else \@tempdima\ht\@tempboxa
10030                     \advance\@tempdima\dp\@tempboxa
10031                     \vskip\@tempdima
10032                     \prevdepth\dp\@tempboxa \fi
10033                 \unvbox\dfn@boxa\vss}\fi\hss}
10034                 \hskip \DFNcolumnsep
10035                 \hskip \DFNcolumnwidth}}\fi\fi
10036     \global\dfn@fnht\z@
10037     \ifx\dfn@list\@empty\else
10038         \let\@elt\dfn@elt@adjust \dfn@dima\z@ \dfn@dimb\z@
10039         \dfn@list \global\advance\dfn@fnht\dfn@dimb
10040         \let\@elt\relax
10041         \ifdim\dfn@dimb>\z@
10042             \xdef\dfn@list{\@elt{0}{\number\dfn@dimb}\dfn@list}%
10043             \insert\footins{\floatingpenalty\@MM
10044                 \vbox to\dfn@dimb{}}\fi
10045         \ifdim\dfn@fnht>\@tempdima
10046             \@tempdimb\@tempdima \advance\@tempdimb-\dfn@fnht
10047             \global\dfn@fnht\@tempdima
10048             \xdef\dfn@list{\dfn@list\@elt{0}{\number\@tempdimb}}%
10049             \xdef\dfn@afteroutput{\insert\footins{
10050                 \floatingpenalty\@MM
10051                 \vbox to\number\@tempdimb sp{}}}%
10052             \global\let\noexpand\dfn@afteroutput\relax}%
10053     \fi\fi

```



```

10054 \fi}%
10055 \let\footnoterule\relax \dfn@latex@makecol
10056 \let\footnoterule\dfn@footnoterule}
10057 \def\dfn@LTRmakecol{\ifvoid\footins\else
10058 \dfn@dima\ht\footins
10059 \@tempcnta\z@ \dfn@countins
10060 \@tempdima\z@ \let\@elt\dfn@elt@getht
10061 \dfn@list\@nil
10062 \ifdim\@tempdima=\z@\else
10063 \dfn@split\@tempdima\dfn@ins\dfn@boxa\z@\z@
10064 \global\setbox\dfn@ins\box\dfn@ins
10065 \@tempswatrue
10066 \ifdfn@trysingle
10067 \setbox\dfn@boxb\vbox{\unvcopy\@cclv}\@tempdima\@colroom
10068 \advance\@tempdima-\ht\dfn@boxb \advance\@tempdima-\dp\dfn@boxb
10069 \advance\@tempdima-\skip\footins
10070 \advance\@tempdima-\ht\dfn@boxa
10071 \ifdim\@tempdima<\z@\else \@tempswafalse
10072 \global\setbox\footins\vbox{\boxmaxdepth\dfn@fnmaxdp
10073 \footnoterule \unvbox\dfn@boxa}\fi\fi
10074 \if@tempswa
10075 \dfn@split{\dfn@dima}\dfn@boxa\dfn@boxb\dfn@fnmaxdp\footnotesep
10076 \global\setbox\footins\vbox{\hbox{%
10077 \hbox to\DFNcolumnwidth{\vbox to\@tempdima{\footnoterule
10078 \unvbox\dfn@boxb\vss}\hss}\hskip\DFNcolumnsep
10079 \hbox to\DFNcolumnwidth{\ifvoid\dfn@boxa\else
10080 \vbox to\@tempdima{
10081 \setbox\@tempboxa\vbox{\footnoterule}
10082 \ifdfn@ruleboth \unvbox\@tempboxa
10083 \else \@tempdima\ht\@tempboxa
10084 \advance\@tempdima\dp\@tempboxa
10085 \vskip\@tempdima
10086 \prevdepth\dp\@tempboxa \fi
10087 \unvbox\dfn@boxa\vss}\fi\hss}}}\fi\fi
10088 \global\dfn@fnht\z@
10089 \ifx\dfn@list\@empty\else
10090 \let\@elt\dfn@elt@adjust \dfn@dima\z@ \dfn@dimb\z@
10091 \dfn@list \global\advance\dfn@fnht\dfn@dimb
10092 \let\@elt\relax
10093 \ifdim\dfn@dimb>\z@
10094 \xdef\dfn@list{\@elt{0}{\number\dfn@dimb}\dfn@list}%
10095 \insert\footins{\floatingpenalty\@MM
10096 \vbox to\dfn@dimb{}}\fi
10097 \ifdim\dfn@fnht>\@tempdima
10098 \@tempdimb\@tempdima \advance\@tempdimb-\dfn@fnht
10099 \global\dfn@fnht\@tempdima
10100 \xdef\dfn@list{\dfn@list\@elt{0}{\number\@tempdimb}}%
10101 \xdef\dfn@afteroutput{\insert\footins{
10102 \floatingpenalty\@MM
10103 \vbox to\number\@tempdimb sp{}}}%
10104 \global\let\noexpand\dfn@afteroutput\relax}%
10105 \fi\fi
10106 \fi}%
10107 \let\footnoterule\relax \dfn@latex@makecol

```



```

10108 \let\footnoterule\dfn@footnoterule}
10109 \renewcommand{\dfn@makecol}{\if@RTLmain\dfn@RTLmakecol\else\dfn@LTRmakecol\fi}
10110 \newcommand{\RTLdfnmakecol}{\renewcommand{\dfn@makecol}{\dfn@RTLmakecol}}
10111 \newcommand{\LTRdfnmakecol}{\renewcommand{\dfn@makecol}{\dfn@LTRmakecol}}
10112 \DFNalwaysdouble

```

## 71 File diagbox-xetex-bidi.def

```

10113 \ProvidesFile{diagbox-xetex-bidi.def}[2017/12/30 v0.2 bidi adaptations for diagbox package f
10114 \bidi@patchcmd{\diagbox@double}{%
10115 \begin{tabular}{@{\hspace{\diagbox@insepl}}>{\diagbox@font}l@{}}
10116 }{\bidi@@diagbox@double@ii}{%}
10117 \bidi@patchcmd{\diagbox@double}{%
10118 \begin{tabular}{@{}>{\diagbox@font}r@{\hspace{\diagbox@insepr}}
10119 }{\bidi@@diagbox@double@iii}{%}
10120 \newcommand*{\bidi@@diagbox@double@ii}{%
10121 \if@RTL
10122 \begin{tabular}{@{}>{\diagbox@font}r@{\hspace{\diagbox@insepl}}
10123 \else
10124 \begin{tabular}{@{\hspace{\diagbox@insepl}}>{\diagbox@font}l@{}}
10125 \fi
10126 }
10127 \newcommand*{\bidi@@diagbox@double@iii}{%
10128 \if@RTL
10129 \begin{tabular}{@{\hspace{\diagbox@insepr}}>{\diagbox@font}l@{}}
10130 \else
10131 \begin{tabular}{@{}>{\diagbox@font}r@{\hspace{\diagbox@insepr}}
10132 \fi
10133 }
10134 \bidi@patchcmd{\diagbox@triple@setbox@NW}{%
10135 \begin{tabular}{@{\hspace{\diagbox@insepl}}>{\diagbox@font}l@{}}
10136 }{\bidi@@diagbox@triple@setbox@NW@tabular@i@ii}{%}
10137 \bidi@patchcmd{\diagbox@triple@setbox@NW}{%
10138 \begin{tabular}{@{\hspace{\diagbox@insepl}}>{\diagbox@font}l@{}}
10139 }{\bidi@@diagbox@triple@setbox@NW@tabular@i@ii}{%}
10140 \bidi@patchcmd{\diagbox@triple@setbox@NW}{%
10141 \begin{tabular}{@{}>{\diagbox@font}r@{\hspace{\diagbox@insepr}}
10142 }{\bidi@@diagbox@triple@setbox@NW@tabular@iii}{%}
10143 \newcommand*{\bidi@@diagbox@triple@setbox@NW@tabular@i@ii}{%
10144 \if@RTL
10145 \begin{tabular}{@{}>{\diagbox@font}r@{\hspace{\diagbox@insepl}}
10146 \else
10147 \begin{tabular}{@{\hspace{\diagbox@insepl}}>{\diagbox@font}l@{}}
10148 \fi}
10149 \newcommand*{\bidi@@diagbox@triple@setbox@NW@tabular@iii}{%
10150 \if@RTL
10151 \begin{tabular}{@{\hspace{\diagbox@insepr}}>{\diagbox@font}l@{}}
10152 \else
10153 \begin{tabular}{@{}>{\diagbox@font}r@{\hspace{\diagbox@insepr}}
10154 \fi}
10155 \let\diagbox@triple@setbox@SW\diagbox@triple@setbox@NW
10156 \bidi@patchcmd{\diagbox@triple@setbox@SE}{%
10157 \begin{tabular}{@{\hspace{\diagbox@insepl}}l@{}}
10158 }{\bidi@@diagbox@triple@setbox@SE@tabular@i}{%}

```



```

10159 \bidi@patchcmd{\diagbox@triple@setbox@SE}{%
10160   \begin{tabular}{@{}r@{\hspace{\diagbox@insepr}}}%
10161 }{\bidi@@diagbox@triple@setbox@SE@tabular@ii@iii}{-}{-}
10162 \bidi@patchcmd{\diagbox@triple@setbox@SE}{%
10163   \begin{tabular}{@{}r@{\hspace{\diagbox@insepr}}}%
10164 }{\bidi@@diagbox@triple@setbox@SE@tabular@ii@iii}{-}{-}
10165 \newcommand*{\bidi@@diagbox@triple@setbox@SE@tabular@i}{%
10166   \ifRTL
10167     \begin{tabular}{@{}r@{\hspace{\diagbox@insepl}}}%
10168   \else
10169     \begin{tabular}{@{\hspace{\diagbox@insepl}}l@{}}
10170   \fi
10171 }
10172 \newcommand*{\bidi@@diagbox@triple@setbox@SE@tabular@ii@iii}{%
10173   \ifRTL
10174     \begin{tabular}{@{\hspace{\diagbox@insepr}}l@{}}
10175   \else
10176     \begin{tabular}{@{}r@{\hspace{\diagbox@insepr}}}%
10177   \fi
10178 }
10179 \let\diagbox@triple@setbox@NE\diagbox@triple@setbox@SE
10180 \bidi@patchcmd{\diagbox@double@pict@SE}{%
10181   \diagbox@setlinecolor
10182   \Line(0,\strip@pt\diagbox@ht)(\strip@pt\diagbox@wd,0)%
10183 }{%
10184   {\diagbox@setlinecolor
10185     \Line(0,\strip@pt\diagbox@ht)(\strip@pt\diagbox@wd,0)}%
10186 }{}{}
10187 \let\diagbox@double@pict@NW\diagbox@double@pict@SE
10188 \bidi@patchcmd{\diagbox@double@pict@NE}{%
10189   \diagbox@setlinecolor
10190   \Line(0,0)(\strip@pt\diagbox@wd,\strip@pt\diagbox@ht)%
10191 }{%
10192   {\diagbox@setlinecolor
10193     \Line(0,0)(\strip@pt\diagbox@wd,\strip@pt\diagbox@ht)}%
10194 }{}{}
10195 \let\diagbox@double@pict@SW\diagbox@double@pict@NE
10196 \bidi@patchcmd{\diagbox@triple@pict@NW}{%
10197   \diagbox@setlinecolor
10198   \Line(0,\yym)(\x,0)
10199   \Line(\xm,\y)(\x,0)%
10200 }{%
10201   {\diagbox@setlinecolor
10202     \Line(0,\yym)(\x,0)
10203     \Line(\xm,\y)(\x,0)}%
10204 }{}{}
10205 \bidi@patchcmd{\diagbox@triple@pict@NE}{%
10206   \diagbox@setlinecolor
10207   \Line(0,0)(\xxm,\y)
10208   \Line(0,0)(\x,\yym)%
10209 }{%
10210   {\diagbox@setlinecolor
10211     \Line(0,0)(\xxm,\y)
10212     \Line(0,0)(\x,\yym)}%

```



```

10213 }{}{}
10214 \bidi@patchcmd{\diagbox@triple@pict@SW}{%
10215   \diagbox@setlinecolor
10216   \Line(0,\ym)(\x,\y)
10217   \Line(\xm,0)(\x,\y)%
10218 }{%
10219   {\diagbox@setlinecolor
10220   \Line(0,\ym)(\x,\y)
10221   \Line(\xm,0)(\x,\y)}%
10222 }{}{}
10223 \bidi@patchcmd{\diagbox@triple@pict@SE}{%
10224   \diagbox@setlinecolor
10225   \Line(0,\y)(\xxm,0)
10226   \Line(0,\y)(\x,\ym)%
10227 }{%
10228   {\diagbox@setlinecolor
10229   \Line(0,\y)(\xxm,0)
10230   \Line(0,\y)(\x,\ym)}%
10231 }{}{}

```

## 72 File draftwatermark-xetex-bidi.def

```

10232 \ProvidesFile{draftwatermark-xetex-bidi.def}[2010/07/25 v0.2 bidi adaptations for draftwater
10233 \renewcommand\SetWatermarkText[1]{%
10234   \def\sc@wm@text{\if@RTLmain\beginR\fi#1\if@RTLmain\endR\fi}}

```

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

```

10235 \ProvidesFile{eso-pic-xetex-bidi.def}[2022/02/18 v0.4 bidi adaptations for eso-pic package f
10236 \renewcommand\AtPageLowerLeft[1]{\AtPageUpperLeft{%
10237   \put(\if@RTLmain\paperwidth\else 0\fi,-\paperheight){#1}}}
10238
10239 \ESO@isMEMOIR{%
10240   \renewcommand\AtTextUpperLeft[1]{%
10241     \begingroup
10242     \ifodd\c@page
10243       \if@RTLmain
10244         \ESO@tempdima=\paperwidth
10245         \advance\ESO@tempdima-\textwidth
10246         \advance\ESO@tempdima-\spinemargin
10247       \else
10248         \ESO@tempdima=\spinemargin
10249       \fi
10250     \else
10251       \if@RTLmain
10252         \ESO@tempdima=\spinemargin
10253       \else
10254         \ESO@tempdima=\paperwidth
10255         \advance\ESO@tempdima-\textwidth
10256         \advance\ESO@tempdima-\spinemargin
10257       \fi
10258     \fi
10259     \ESO@tempdimb=-\uppermargin
10260     \AtPageUpperLeft{%

```



```

10261      \put(\if@RTLmain-\textwidth-\fi\ESO@tempdima,\ESO@tempdimb){#1}%
10262    }%
10263  \endgroup
10264 }
10265 }{%
10266 \renewcommand\AtTextUpperLeft[1]{%
10267   \begingroup
10268   \ESO@tempdima=1in\relax
10269   \if@twoside
10270     \ifodd\c@page
10271       \if@RTLmain
10272         \advance\ESO@tempdima\evensidemargin
10273       \else
10274         \advance\ESO@tempdima\oddsidemargin
10275       \fi
10276     \else
10277       \if@RTLmain
10278         \advance\ESO@tempdima\oddsidemargin
10279       \else
10280         \advance\ESO@tempdima\evensidemargin
10281       \fi
10282     \fi
10283   \else
10284     \advance\ESO@tempdima\oddsidemargin
10285   \fi
10286   \ESO@tempdimb=-1in\relax
10287   \advance\ESO@tempdimb-\topmargin
10288   \advance\ESO@tempdimb-\headheight
10289   \advance\ESO@tempdimb-\headsep
10290   \AtPageUpperLeft{%
10291     \put(\if@RTLmain-\textwidth-\fi\ESO@tempdima,\ESO@tempdimb){#1}%
10292   }%
10293 \endgroup
10294 }
10295 }

```

## 74 File empheq-xetex-bidi.def

```

10296 \ProvidesFile{empheq-xetex-bidi.def}[2018/01/08 v0.2 bidi adaptations for empheq package for
10297 \MHInternalSyntaxOn
10298 \def\EQ_tag_plus_endmark:{%
10299   \iftagsleft@
10300     \gdef\maketag@@@##1{%
10301       \hfuzz\displaywidth
10302       \if@RTL\makebox[\widthof{##1}][r]{%
10303         \hbox to \displaywidth{\m@th\normalfont##1\hss
10304           \raisebox{-\dp\EQ_mathdisplay_box
10305             -\depthof{\EQ_outerbox:}}{
10306             {\PotEndMark{\hss}}}}
10307       \else\makebox[\widthof{##1}][l]{%
10308         \hbox to \displaywidth{\m@th\normalfont##1\hss
10309           \raisebox{-\dp\EQ_mathdisplay_box
10310             -\depthof{\EQ_outerbox:}}{
10311             {\PotEndMark{\hss}}}}\fi}%

```



```

10312 \MH_else:
10313   \gdef\maketag@@@#1{%
10314     \hbox{\m@th\normalfont##1\llap{\hss\PotEndMark{%
10315       \settoheight{\@tempdima}{\@nameuse{\InTheoType Symbol}}}%
10316       \MH_addtolength:dn \@tempdima
10317       {\g_EQ_bottomtag_depth_dim+\mintagvsep}
10318       \setlength{\@tempdimb}
10319       {\g_EQ_bottomrow_depth_dim+\depthof{\EQ_outerbox:}}
10320       +\depthof{\EQ_innerbox:}}}}
10321   \MH_if_dim:w \@tempdima>\@tempdimb
10322   \MH_setlength:dn \@tempdima{-\dp\EQ_mathdisplay_box
10323     -\@tempdima+\g_EQ_bottomrow_depth_dim}
10324   \addtolength{\@tempdima}{\depthof{\EQ_innerbox:}}}%
10325   \def\EQ_next:{\raisebox{\@tempdima}}%
10326   \MH_else:
10327     \def\EQ_next:{
10328       \raisebox{-\dp\EQ_mathdisplay_box
10329         -\depthof{\EQ_outerbox:}}}%
10330     \MH_fi:\EQ_next:}}}%
10331 \MH_fi:}
10332 \def\EQ_post_process:{%
10333   \EQ_initialize:
10334   \EQ_begin_equation:
10335   \MH_if_boolean:nT {outer_mult}{
10336     \setkeys{MT_options_name:}{
10337       firstline-afterskip=Opt,
10338       lastline-preskip=Opt,
10339       multlined-width=Opt,
10340     }
10341     \ifodd \l_EQ_alignmentmode_int
10342       \setkeys{MT_options_name:}{multlined-pos=b}
10343     \MH_else:
10344       \setkeys{MT_options_name:}{multlined-pos=t}
10345     \MH_fi:
10346     \g@addto@macro\EQ_complete_mathdisplay:{
10347       \begin{MTmultlined}\relax}
10348   }
10349   \g@addto@macro\EQ_complete_mathdisplay:\EQ_mathbody:
10350   \MH_if_boolean:nT {outer_mult}{
10351     \g@addto@macro\EQ_complete_mathdisplay:{\end{MTmultlined}}
10352   }
10353   \EQ_end_equation:
10354   \edef\EQ_hyperref_link_fint{\number\Hy@linkcounter}
10355   \savecounters@
10356   \EQ_typeset_tags:
10357   \edef\l_EQ_equation_fint{\number\c@equation}
10358   \restorecounters@
10359   \Hy@linkcounter=\EQ_hyperref_link_fint
10360   \settowidth\l_EQ_totalwidth_dim{%
10361     $\EQ_left_side:\EQ_innerbox:}\EQ_right_side:$}%
10362   \MH_if_boolean:nTF {outer_mult}
10363     { \def\EQ_next:{_mult} }
10364     { \def\EQ_next:{} }
10365   \@nameuse{EQ_modify_linewidth_

```





```

10366         \romannumeral\l_EQ_equationtype_int\EQ_next: :}%
10367 \EQ_typeset_display:
10368 \@nameuse{EQ_find_displaywidth_
10369         \romannumeral\l_EQ_equationtype_int\EQ_next: :}%
10370 \MH_addtolength:dn
10371     \l_EQ_totalwidth_dim{\l_EQ_displaywidth_dim}
10372 \savebox\EQ_mathdisplay_box[\l_EQ_totalwidth_dim][c]{%
10373     $\EQ_left_side:
10374     \EQ_innerbox:{%
10375         \MH_if_case:w \l_EQ_alignmentmode_int\MH_or:
10376         \makebox[\l_EQ_displaywidth_dim][c]
10377         {\usebox{\EQ_mathdisplay_box}}}%
10378     \MH_or:
10379         \makebox[\l_EQ_displaywidth_dim][c]
10380         {\usebox{\EQ_mathdisplay_box}}}%
10381     \MH_or:
10382         \if@RTL\makebox[\l_EQ_displaywidth_dim][r]{%
10383             \MH_if_num:w \l_EQ_equationtype_int=5 \MH_else:
10384             \MH_if_num:w \l_EQ_equationtype_int=6 \MH_else:
10385                 \kern-\@mathmargin
10386                 \MH_fi:
10387             \MH_fi:
10388             \usebox{\EQ_mathdisplay_box}}}%
10389         \else\makebox[\l_EQ_displaywidth_dim][l]{%
10390             \MH_if_num:w \l_EQ_equationtype_int=5 \MH_else:
10391             \MH_if_num:w \l_EQ_equationtype_int=6 \MH_else:
10392                 \kern-\@mathmargin
10393                 \MH_fi:
10394             \MH_fi:
10395             \usebox{\EQ_mathdisplay_box}}\fi%
10396     \MH_or:
10397         \if@RTL\makebox[\l_EQ_displaywidth_dim][r]{%
10398             \MH_if_num:w \l_EQ_equationtype_int=5 \MH_else:
10399             \MH_if_num:w \l_EQ_equationtype_int=6 \MH_else:
10400                 \kern-\@mathmargin
10401                 \MH_fi:
10402             \MH_fi:
10403             \usebox{\EQ_mathdisplay_box}}
10404         \else\makebox[\l_EQ_displaywidth_dim][l]{%
10405             \MH_if_num:w \l_EQ_equationtype_int=5 \MH_else:
10406             \MH_if_num:w \l_EQ_equationtype_int=6 \MH_else:
10407                 \kern-\@mathmargin
10408                 \MH_fi:
10409             \MH_fi:
10410             \usebox{\EQ_mathdisplay_box}}\fi%
10411     \MH_fi:}%
10412 \EQ_right_side:$}%
10413 \begin{AmSequation*}
10414 \@nameuse{EQ_place_display_
10415         \romannumeral\l_EQ_equationtype_int\EQ_next: :}%
10416 \MH_if_dim:w \g_EQ_widesttag_dim>\z@
10417 \MH_set_boolean_T:n {show_manual_tags}
10418 \MH_if_case:w \l_EQ_alignmentmode_int
10419 \MH_or: \if@RTL\EQ_place_tag:N l\else\EQ_place_tag:N r\fi %\#1

```



```

10420 \MH_or: \if@RTL\EQ_place_tag:N r\else\EQ_place_tag:N l\fi %#2
10421 \MH_or: \if@RTL\EQ_place_tag:N l\else\EQ_place_tag:N r\fi %#3
10422 \MH_or: \if@RTL\EQ_place_tag:N r\else\EQ_place_tag:N l\fi %#4
10423 \MH_fi:
10424 \MH_fi:
10425 \end{AmSequation*}
10426 \global\c@equation=\l_EQ_equation_fint\relax
10427 }
10428 \AtBeginDocument{%
10429 \ifpackageloaded{fancybox}{%
10430 \ifpackageloaded{color}{\definecolor{shadowcolor}{rgb}{0,0,0}}%
10431 {\renewcommand*\textcolor[2]{\normalcolor{#2}}}%
10432 \renewcommand*\shadowbox{%
10433 \ifstar{\MH_set_boolean_T:n {shadowbox_star}
10434 \VerbBox\EQ_shadowbox:n}
10435 {\MH_set_boolean_F:n {shadowbox_star}
10436 \VerbBox\EQ_shadowbox:n}}
10437 \def\EQ_shadowbox:n #1{%
10438 \sbox{\z@}{\fbox{#1}}%
10439 \MH_if_boolean:nTF {shadowbox_star}{
10440 \MH_setlength:dn \@tempdima{\z@}%
10441 }{
10442 \MH_setlength:dn \@tempdima{\dp\z@+\shadowsize}%
10443 }
10444 \raisebox{\@tempdima}{%
10445 \if@RTL\makebox[\z@][r]{%
10446 \kern\shadowsize \textcolor{shadowcolor}{%
10447 \rule[-\dp\z@-\shadowsize]{\wd\z@}{\shadowsize}}}%
10448 }%
10449 \else\makebox[\z@][l]{%
10450 \kern\shadowsize \textcolor{shadowcolor}{%
10451 \rule[-\dp\z@-\shadowsize]{\wd\z@}{\shadowsize}}}%
10452 }\fi%
10453 \usebox\z@\textcolor{shadowcolor}{%
10454 \rule[-\dp\z@-\shadowsize]{\shadowsize}{\ht\z@+\dp\z@}}}%
10455 }{}}%
10456 }
10457 \MHInternalSyntaxOff

```

## 75 File extarticle-xetex-bidi.def

```

10458 \ProvidesFile{extarticle-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for extarticle cla
10459 \renewcommand*\l@section[2]{%
10460 \ifnum \c@tocdepth >\z@
10461 \addpenalty\@secpenalty
10462 \addvspace{1.0em \@plus\p@}%
10463 \setlength\@tempdima{1.5em}%
10464 \begin{group}
10465 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
10466 \parfillskip -\@pnumwidth
10467 \leavevmode \bfseries
10468 \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
10469 \hskip -\if@RTL\rightskip\else\leftskip\fi
10470 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par

```



```

10471 \endgroup
10472 \fi}
10473 \renewcommand*\l@part[2]{%
10474 \ifnum \c@tocdepth >-2\relax
10475 \addpenalty\@secpenalty
10476 \addvspace{2.25em \@plus\p@}%
10477 \begingroup
10478 \setlength\@tempdima{3em}%
10479 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
10480 \parfillskip -\@pnumwidth
10481 {\leavevmode
10482 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
10483 \nobreak
10484 \endgroup
10485 \fi}
10486 \def\@part[#1]#2{%
10487 \ifnum \c@secnumdepth >\m@ne
10488 \refstepcounter{part}%
10489 \addcontentsline{toc}{part}{\thepart\hspace{1em}#1}%
10490 \else
10491 \addcontentsline{toc}{part}{#1}%
10492 \fi
10493 {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
10494 \interlinepenalty \@M
10495 \normalfont
10496 \ifnum \c@secnumdepth >\m@ne
10497 \Large\bfseries \partname~\thepart
10498 \par\nobreak
10499 \fi
10500 \huge \bfseries #2%
10501 \markboth{}{}\par}%
10502 \nobreak
10503 \vskip 3ex
10504 \@afterheading}
10505 \def\@spart#1{%
10506 {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
10507 \interlinepenalty \@M
10508 \normalfont
10509 \huge \bfseries #1\par}%
10510 \nobreak
10511 \vskip 3ex
10512 \@afterheading}
10513 \renewenvironment{thebibliography}[1]
10514 {\section*{\refname
10515 \mkboth{\MakeUppercase\refname}{\MakeUppercase\refname}}%
10516 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
10517 \bidi@thebibliography@font@hook%
10518 \list{\@biblabel{\@arabic\c@enumiv}}%
10519 {\settowidth\labelwidth{\@biblabel{#1}}%
10520 \leftmargin\labelwidth
10521 \advance\leftmargin\labelsep
10522 \@openbib@code
10523 \usecounter{enumiv}%
10524 \let\p@enumiv\@empty

```



```

10525         \renewcommand\theenumiv{\@arabic\c@enumiv}}}%
10526         \sloppy\clubpenalty4000\widowpenalty4000%
10527         \sfcode`\.\@m}
10528     {\def\@noitemerr
10529         {\@latex@warning{Empty `thebibliography' environment}}}%
10530     \endlist}
10531 \renewcommand\left@footnoterule{%
10532     \kern-3\p@
10533     \hrule\@width.4\columnwidth
10534     \kern2.6\p@}
10535 \renewcommand\right@footnoterule{%
10536     \kern-3\p@
10537     \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
10538     \kern2.6\p@}
10539     \if@titlepage
10540 \renewcommand\maketitle{\begin{titlepage}%
10541     \let\footnotesize\small
10542     \let\right@footnoterule\relax
10543     \let\left@footnoterule\relax
10544     \let\textwidth\footnoterule\relax
10545     \let \footnote \thanks
10546     \null\vfil
10547     \vskip 60\p@
10548     \begin{center}%
10549         {\LARGE \@title \par}%
10550         \vskip 3em%
10551         {\large
10552             \lineskip .75em%
10553             \begin{tabular}[t]{c}%
10554                 \@author
10555             \end{tabular}\par}%
10556             \vskip 1.5em%
10557             {\large \@date \par}%           % Set date in \large size.
10558     \end{center}\par
10559     \@thanks
10560     \vfil\null
10561     \end{titlepage}%
10562     \setcounter{footnote}{0}%
10563     \global\let\thanks\relax
10564     \global\let\maketitle\relax
10565     \global\let\@thanks\@empty
10566     \global\let\@author\@empty
10567     \global\let\@date\@empty
10568     \global\let\@title\@empty
10569     \global\let\title\relax
10570     \global\let\author\relax
10571     \global\let\date\relax
10572     \global\let\and\relax
10573 }
10574 \else
10575 \renewcommand\maketitle{\par
10576     \begingroup
10577         \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
10578         \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%

```



```

10579 \long\def\@makefntext##1{\parindent 1em\noindent
10580 \hb@xt@1.8em{%
10581 \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
10582 \if@twocolumn
10583 \ifnum \col@number=\@ne
10584 \@maketitle
10585 \else
10586 \twocolumn[\@maketitle]%
10587 \fi
10588 \else
10589 \newpage
10590 \global\@topnum\z@ % Prevents figures from going at top of page.
10591 \@maketitle
10592 \fi
10593 \thispagestyle{plain}\@thanks
10594 \endgroup
10595 \setcounter{footnote}{0}%
10596 \global\let\thanks\relax
10597 \global\let\maketitle\relax
10598 \global\let\@maketitle\relax
10599 \global\let\@thanks\@empty
10600 \global\let\@author\@empty
10601 \global\let\@date\@empty
10602 \global\let\@title\@empty
10603 \global\let\title\relax
10604 \global\let\author\relax
10605 \global\let\date\relax
10606 \global\let\and\relax
10607 }
10608 \def\@maketitle{%
10609 \newpage
10610 \null
10611 \vskip 2em%
10612 \begin{center}%
10613 \let \footnote \thanks
10614 {\LARGE \@title \par}%
10615 \vskip 1.5em%
10616 {\large
10617 \lineskip .5em%
10618 \begin{tabular}[t]{c}%
10619 \@author
10620 \end{tabular}\par}%
10621 \vskip 1em%
10622 {\large \@date}%
10623 \end{center}%
10624 \par
10625 \vskip 1.5em}
10626 \fi
10627 \renewcommand\thesubsection {\thesection\@SepMark\@arabic\c@subsection}
10628 \renewcommand\thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
10629 \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
10630 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}%%

```



## 76 File extbook-xetex-bidi.def

```

10631 \ProvidesFile{extbook-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for extbook class for
10632 \if@titlepage
10633 \renewcommand\maketitle{\begin{titlepage}%
10634 \let\footnotesize\small
10635 \let\right@footnoterule\relax
10636 \let\left@footnoterule\relax
10637 \let\textwidth@footnoterule\relax
10638 \let \footnote \thanks
10639 \let \LTRfootnote \LTRthanks
10640 \let \RTLfootnote \RTLthanks
10641 \null\vfil
10642 \vskip 60\p@
10643 \begin{center}%
10644 {\LARGE \@title \par}%
10645 \vskip 3em%
10646 {\large
10647 \lineskip .75em%
10648 \begin{tabular}[t]{c}%
10649 \@author
10650 \end{tabular}\par}%
10651 \vskip 1.5em%
10652 {\large \@date \par}% % Set date in \large size.
10653 \end{center}\par
10654 \@thanks
10655 \vfil\null
10656 \end{titlepage}%
10657 \setcounter{footnote}{0}%
10658 \global\let\thanks\relax
10659 \global\let\LTRthanks\relax
10660 \global\let\RTLthanks\relax
10661 \global\let\maketitle\relax
10662 \global\let\@thanks\@empty
10663 \global\let\@author\@empty
10664 \global\let\@date\@empty
10665 \global\let\@title\@empty
10666 \global\let\title\relax
10667 \global\let\author\relax
10668 \global\let\date\relax
10669 \global\let\and\relax
10670 }
10671 \else
10672 \renewcommand\maketitle{\par
10673 \begingroup
10674 \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
10675 \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
10676 \long\def\@makefntext##1{\parindent 1em\noindent
10677 \hb@xt@1.8em{%
10678 \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
10679 \if@twocolumn
10680 \ifnum \col@number=\@one
10681 \@maketitle
10682 \else

```



```

10683         \twocolumn[\@maketitle]%
10684     \fi
10685     \else
10686         \newpage
10687         \global\@topnum\z@    % Prevents figures from going at top of page.
10688         \@maketitle
10689     \fi
10690     \thispagestyle{plain}\@thanks
10691 \endgroup
10692 \setcounter{footnote}{0}%
10693 \global\let\thanks\relax
10694 \global\let\LTRthanks\relax
10695 \global\let\RTLthanks\relax
10696 \global\let\maketitle\relax
10697 \global\let\@maketitle\relax
10698 \global\let\@thanks\@empty
10699 \global\let\@author\@empty
10700 \global\let\@date\@empty
10701 \global\let\@title\@empty
10702 \global\let\title\relax
10703 \global\let\author\relax
10704 \global\let\date\relax
10705 \global\let\and\relax
10706 }
10707 \def\@maketitle{%
10708     \newpage
10709     \null
10710     \vskip 2em%
10711     \begin{center}%
10712         \let \footnote \thanks
10713         \let \LTRfootnote \LTRthanks
10714         \let \RTLfootnote \RTLthanks
10715         {\LARGE \@title \par}%
10716         \vskip 1.5em%
10717         {\large
10718             \lineskip .5em%
10719             \begin{tabular}[t]{c}%
10720                 \@author
10721             \end{tabular}\par}%
10722         \vskip 1em%
10723         {\large \@date}%
10724     \end{center}%
10725     \par
10726     \vskip 1.5em}
10727 \fi
10728 \renewcommand*\l@part[2]{%
10729     \ifnum \c@tocdepth >-2\relax
10730         \addpenalty{-\@highpenalty}%
10731         \addvspace{2.25em \@plus\p}%
10732         \begingroup
10733             \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
10734             \parfillskip -\@pnumwidth
10735             {\leavevmode
10736                 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par

```



```

10737         \nobreak
10738         \global\@nobreaktrue
10739         \everypar{\global\@nobreakfalse\everypar{}}%
10740     \endgroup
10741 \fi}
10742 \renewcommand\theequation
10743     {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
10744 \renewcommand \thefigure
10745     {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
10746 \renewcommand \thetable
10747     {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
10748 \renewcommand \thechapter {\@arabic\c@chapter}
10749 \renewcommand \thesection {\thechapter\@SepMark\@arabic\c@section}
10750 \renewcommand \thesubsection {\thesection\@SepMark\@arabic\c@subsection}
10751 \renewcommand \thesubsubsection {\thesubsection \@SepMark\@arabic\c@subsubsection}
10752 \renewcommand \theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
10753 \renewcommand \thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
10754 \def\@makechapterhead#1{%
10755     \vspace*{50\p@}%
10756     {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont
10757         \ifnum \c@secnumdepth >\m@ne
10758             \if@mainmatter
10759                 \huge\bfseries \@chapapp\space \thechapter
10760                 \par\nobreak
10761                 \vskip 20\p@
10762             \fi
10763         \fi
10764         \interlinepenalty\@M
10765         \Huge \bfseries #1\par\nobreak
10766         \vskip 40\p@
10767     }}
10768
10769 \def\@makeschapterhead#1{%
10770     \vspace*{50\p@}%
10771     {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
10772         \normalfont
10773         \interlinepenalty\@M
10774         \Huge \bfseries #1\par\nobreak
10775         \vskip 40\p@
10776     }}
10777 \renewcommand\backmatter{%
10778     \if@openright
10779         \cleardoublepage
10780     \else
10781         \clearpage
10782     \fi
10783     \@mainmatterfalse}
10784 \renewenvironment{thebibliography}[1]
10785     {\chapter*{\bibname
10786         \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}}%
10787     \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
10788     \bidi@thebibliography@font@hook%
10789     \list{\@biblabel{\@arabic\c@enumiv}}%
10790     {\settowidth\labelwidth{\@biblabel{#1}}%

```





```

10791         \leftmargin\labelwidth
10792         \advance\leftmargin\labelsep
10793         \@openbib@code
10794         \usecounter{enumiv}%
10795         \let\p@enumiv\@empty
10796         \renewcommand\theenumiv{\@arabic\c@enumiv}}%
10797     \sloppy
10798     \clubpenalty4000
10799     \@clubpenalty \clubpenalty
10800     \widowpenalty4000%
10801     \sfcode`.\@m}
10802     {\def\@noitemerr
10803      {\@latex@warning{Empty `thebibliography' environment}}}%
10804     \endlist}

```

## 77 File extletter-xetex-bidi.def

```

10805 \ProvidesFile{extletter-xetex-bidi.def}[2015/11/14 v0.2 bidi adaptations for extletter class]
10806 \renewcommand*{\opening}[1]{\ifx\@empty\fromaddress
10807   \thispagestyle{firstpage}%
10808   {\if@RTL\raggedright\else\raggedleft\fi\@date\par}%
10809   \else % home address
10810     \thispagestyle{empty}%
10811     {\if@RTL\raggedright\begin{tabular}{r@{}}\else\raggedleft\begin{tabular}{l@{}}\fi\ignore
10812     \fromaddress \*[2\parskip]%
10813     \@date \end{tabular}\par}%
10814   \fi
10815   \vspace{2\parskip}%
10816   {\if@RTL\raggedleft\else\raggedright\fi \toname \[ \toaddress \par}%
10817   \vspace{2\parskip}%
10818   #1\par\nobreak}
10819 \renewcommand{\closing}[1]{\par\nobreak\vspace{\parskip}%
10820 \stopbreaks
10821 \noindent
10822 \ifx\@empty\fromaddress\else
10823 \hspace*{\longindentation}\fi
10824 \parbox{\indentedwidth}{\if@RTL\raggedleft\else\raggedright\fi
10825   \ignorespaces #1\[[6\medskipamount]%
10826   \ifx\@empty\fromsig
10827     \fromname
10828   \else \fromsig \fi\strut}%
10829 \par}
10830 \renewcommand\left@footnoterule{%
10831   \kern-\p@
10832   \hrule \@width .4\columnwidth
10833   \kern .6\p@}
10834 \renewcommand\right@footnoterule{%
10835   \kern-\p@
10836   \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
10837   \kern .6\p@}

```

## 78 File extrafootnotefeatures-xetex-bidi.def

```

10838 \ProvidesFile{extrafootnotefeatures-xetex-bidi.def}[2018/10/11 v1.7 bidi extra footnote feat

```



```

10839 \newif\if@bidi@void@footins
10840 \newif\if@bidi@void@mpfootins
10841 \newcommand*{\@bidi@before@Hy@hyperfootnotes}{%
10842 \if@bidi@csundef\ifHy@hyperfootnotes}{}%
10843 \if@bidi@csundef{HLTR@@LTrfootnotetext}{}%
10844 \ifHy@hyperfootnotes
10845 \let\@H@@footnotetext\@footnotetext
10846 \let\@HLTR@@LTrfootnotetext\@LTrfootnotetext
10847 \let\@HRTL@@RTLfootnotetext\@RTLfootnotetext
10848 \let\@H@@mpfootnotetext\@mpfootnotetext
10849 \let\@HLTR@@mpLTrfootnotetext\@mpLTrfootnotetext
10850 \let\@HRTL@@mpRTLfootnotetext\@mpRTLfootnotetext
10851 \fi
10852 }%
10853 }%
10854 }
10855 \newcommand*{\@bidi@after@Hy@hyperfootnotes}{%
10856 \if@bidi@csundef\ifHy@hyperfootnotes}{}%
10857 \if@bidi@csundef{HLTR@@LTrfootnotetext}{}%
10858 \ifHy@hyperfootnotes
10859 \let\H@@footnotetext\@footnotetext
10860 \let\@footnotetext\@H@@footnotetext
10861 \let\HLTR@@LTrfootnotetext\@LTrfootnotetext
10862 \let\@LTrfootnotetext\@HLTR@@LTrfootnotetext
10863 \let\HRTL@@RTLfootnotetext\@RTLfootnotetext
10864 \let\@RTLfootnotetext\@HRTL@@RTLfootnotetext
10865 \let\H@@mpfootnotetext\@mpfootnotetext
10866 \let\@mpfootnotetext\@H@@mpfootnotetext
10867 \let\HLTR@@mpLTrfootnotetext\@mpLTrfootnotetext
10868 \let\@mpLTrfootnotetext\@HLTR@@mpLTrfootnotetext
10869 \let\HRTL@@mpRTLfootnotetext\@mpRTLfootnotetext
10870 \let\@mpRTLfootnotetext\@HRTL@@mpRTLfootnotetext
10871 \fi
10872 }%
10873 }%
10874 }
10875 \let\autofooterule\relax
10876 \let\rightfootnoterule\relax
10877 \let\leftfootnoterule\relax
10878 \let\textwidthfootnoterule\relax
10879 \let\LRfootnoterule\relax
10880 \def\footnoterule{\kern-3\p@
10881 \hrule \@width \columnwidth \kern 2.6\p@}
10882 \newcommand{\@preamnormalfmt}{%
10883 \parindent 1em%
10884 \noindent
10885 }
10886 \newcommand{\@normalfootfmt}[1]{%
10887 \@preamnormalfmt
10888 \footfootmark
10889 \rule{z@}{\footnotesep}\ignorespaces{\foottextfont #1}%
10890 \@finalstrut\strutbox
10891 }
10892 \newcommand{\@normalRTLfootfmt}[1]{%

```



```

10893 \@preamnormalfmt
10894 \RTLfootfootmark
10895 \rule\z@\footnotesep\ignorespaces{\RTLfoottextfont #1}%
10896 \@finalstrut\strutbox
10897 }
10898 \newcommand{\@normalLTRfootfmt}[1]{%
10899 \@preamnormalfmt
10900 \LTRfootfootmark
10901 \rule\z@\footnotesep\ignorespaces{\LTRfoottextfont #1}%
10902 \@finalstrut\strutbox
10903 }
10904 \renewcommand{\@footnotetext}[1]{%
10905 \insert\footins{%
10906 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
10907 \def\baselinestretch{\m@m@footnote@spacing}%
10908 \reset@font
10909 \foottextfont
10910 \@preamfntext
10911 \hsize\columnwidth
10912 \protected@edef\@currentlabel{%
10913 \csname p@footnote\endcsname\@thefnmark}%
10914 \color@begingroup
10915 \@normalfootfmt{#1}%
10916 \color@endgroup}%
10917 \m@mmf@prepare}
10918 \renewcommand{\@RTLfootnotetext}[1]{%
10919 \insert\footins{%
10920 \@RTLtrue%
10921 \def\baselinestretch{\m@m@footnote@spacing}%
10922 \reset@font
10923 \RTLfoottextfont
10924 \@preamfntext
10925 \hsize\columnwidth
10926 \protected@edef\@currentlabel{%
10927 \csname p@footnote\endcsname\@thefnmark}%
10928 \color@begingroup
10929 \@normalRTLfootfmt{#1}%
10930 \color@endgroup}%
10931 \m@mmf@prepare}
10932 \renewcommand{\@LTRfootnotetext}[1]{%
10933 \insert\footins{%
10934 \@RTLfalse%
10935 \def\baselinestretch{\m@m@footnote@spacing}%
10936 \reset@font
10937 \LTRfoottextfont
10938 \@preamfntext
10939 \hsize\columnwidth
10940 \protected@edef\@currentlabel{%
10941 \csname p@footnote\endcsname\@thefnmark}%
10942 \color@begingroup
10943 \@normalLTRfootfmt{#1}%
10944 \color@endgroup}%
10945 \m@mmf@prepare}
10946 \renewcommand{\@mpfootnotetext}[1]{%

```



```

10947 \global\setbox\@mpfootins\vbox{\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
10948 \unvbox\@mpfootins
10949 \def\baselinestretch{\m@m@footnote@spacing}%
10950 \reset@font%
10951 \foottextfont \hsize\columnwidth \@parboxrestore
10952 \protected@edef\@currentlabel{%
10953 \csname p@mpfootnote\endcsname\@thefnmark}%
10954 \color@begingroup
10955 \@normalfootfmt{#1}%
10956 \color@endgroup}}
10957 \renewcommand{\@mpLTRfootnotetext}[1]{%
10958 \global\setbox\@mpfootins\vbox{\@RTLfalse%
10959 \unvbox\@mpfootins
10960 \def\baselinestretch{\m@m@footnote@spacing}%
10961 \reset@font%
10962 \LTRfoottextfont \hsize\columnwidth \@parboxrestore
10963 \protected@edef\@currentlabel{%
10964 \csname p@mpfootnote\endcsname\@thefnmark}%
10965 \color@begingroup
10966 \@normalLTRfootfmt{#1}%
10967 \color@endgroup}}
10968 \renewcommand{\@mpRTLfootnotetext}[1]{%
10969 \global\setbox\@mpfootins\vbox{\@RTLtrue%
10970 \unvbox\@mpfootins
10971 \def\baselinestretch{\m@m@footnote@spacing}%
10972 \reset@font%
10973 \RTLfoottextfont \hsize\columnwidth \@parboxrestore
10974 \protected@edef\@currentlabel{%
10975 \csname p@mpfootnote\endcsname\@thefnmark}%
10976 \color@begingroup
10977 \@normalRTLfootfmt{#1}%
10978 \color@endgroup}}
10979 \let\m@mold@footnotetext\@footnotetext
10980 \let\m@mold@LTRfootnotetext\@LTRfootnotetext
10981 \let\m@mold@RTLfootnotetext\@RTLfootnotetext
10982 \let\m@mold@mpfootnotetext\@mpfootnotetext
10983 \let\m@mold@mpLTRfootnotetext\@mpLTRfootnotetext
10984 \let\m@mold@mpRTLfootnotetext\@mpRTLfootnotetext
10985 \bidi@ensure@newcommand{\normalfootnotes}{%
10986 \@bidi@before@Hy@hyperfootnotes
10987 \let\@footnotetext\m@mold@footnotetext
10988 \let\@LTRfootnotetext\m@mold@LTRfootnotetext
10989 \let\@RTLfootnotetext\m@mold@RTLfootnotetext
10990 \let\@mpfootnotetext\m@mold@mpfootnotetext
10991 \let\@mpLTRfootnotetext\m@mold@mpLTRfootnotetext
10992 \let\@mpRTLfootnotetext\m@mold@mpRTLfootnotetext
10993 \@bidi@after@Hy@hyperfootnotes
10994 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
10995 }
10996 \@ifclassloaded{memoir}{\let\plainfootnotes\normalfootnotes}{%
10997 \bidi@ensure@newcommand*\@RTLcolumnfootnotes{\@RTLcolumnfootnotesttrue}
10998 \bidi@ensure@newcommand*\@LTRcolumnfootnotes{\@RTLcolumnfootnotestfalse}
10999 \bidi@ensure@newcommand*\@setSingleSpace}[1]{%
11000 \def\m@m@singlespace{#1}%

```



```

11001 \def\m@m@footnote@spacing{#1}%
11002 \def\m@m@float@spacing{#1} %
11003 }
11004 \setSingleSpace{1}
11005 \bidi@ensure@newcommand*{\multiplefootnotemarker}{3sp}
11006 \bidi@ensure@newcommand*{\m@m@mmf@prepare}{%
11007   \kern-\multiplefootnotemarker
11008   \kern\multiplefootnotemarker\relax}
11009 \bidi@ensure@newlength{\footmarkwidth}
11010 \bidi@ensure@newcommand*{\footmarkstyle}[1]{\def\footscript##1{#1}}
11011 \bidi@ensure@newcommand*{\LTRfootmarkstyle}[1]{\def\LTRfootscript##1{#1}}
11012 \bidi@ensure@newcommand*{\RTLfootmarkstyle}[1]{\def\RTLfootscript##1{#1}}
11013 \bidi@ensure@newcommand{\footfootmark}{%
11014   \ifdim\footmarkwidth < \z@
11015     \llap{\hb@xt@ -\footmarkwidth{%
11016       \hss\normalfont\footscript{\@thefnmark}}}%
11017     \hspace*{-\footmarkwidth}}%
11018   \else
11019     \ifdim\footmarkwidth = \z@
11020       {\normalfont\footscript{\@thefnmark}}%
11021     \else
11022       \hb@xt@\footmarkwidth{\hss\normalfont\footscript{\@thefnmark}}%
11023     \fi
11024   \fi}
11025 \bidi@ensure@newcommand{\LTRfootfootmark}{%
11026   \ifdim\footmarkwidth < \z@
11027     \llap{\hb@xt@ -\footmarkwidth{%
11028       \hss\normalfont\LTRfootscript{\@thefnmark}}}%
11029     \hspace*{-\footmarkwidth}}%
11030   \else
11031     \ifdim\footmarkwidth = \z@
11032       {\normalfont\LTRfootscript{\@thefnmark}}%
11033     \else
11034       \hb@xt@\footmarkwidth{\hss\normalfont\LTRfootscript{\@thefnmark}}%
11035     \fi
11036   \fi}
11037 \bidi@ensure@newcommand{\RTLfootfootmark}{%
11038   \ifdim\footmarkwidth < \z@
11039     \llap{\hb@xt@ -\footmarkwidth{%
11040       \hss\normalfont\RTLfootscript{\@thefnmark}}}%
11041     \hspace*{-\footmarkwidth}}%
11042   \else
11043     \ifdim\footmarkwidth = \z@
11044       {\normalfont\RTLfootscript{\@thefnmark}}%
11045     \else
11046       \hb@xt@\footmarkwidth{\hss\normalfont\RTLfootscript{\@thefnmark}}%
11047     \fi
11048   \fi}
11049 \footmarkstyle{\textsuperscript{#1}}
11050 \LTRfootmarkstyle{\textsuperscript{#1}}
11051 \RTLfootmarkstyle{\textsuperscript{#1}}
11052 \newcommand*{\bidi@normal@footmarkwidth}{%
11053   \setlength{\footmarkwidth}{1em plus.4em minus.4em}%
11054 }

```



```

11055 \newcommand*{\bidi@star@footmarkwidth}{\%
11056   \setlength{\footmarkwidth}{0em plus.4em minus.4em}%
11057 }
11058 \bidi@normal@footmarkwidth
11059 \bidi@ensure@newcommand{\m@mdoextrafeet}{\extrafeetins}
11060 \bidi@ensure@newcommand*{\extrafeetins}{\%
11061   \setbox\@outputbox \vbox{\%
11062     \boxmaxdepth \@maxdepth
11063     \unvbox\@outputbox
11064     \ifvoid\footinsv@r
11065       \ifvoid\footinsv@l
11066       \else
11067         \@footstartv@l
11068         \@LTRfootgroupv@l
11069       \fi
11070     \else
11071       \@footstartv@r
11072       \@footgroupv@r
11073       \ifvoid\footinsv@l
11074       \else
11075         \@footstart@v@l
11076         \@LTRfootgroupv@l
11077       \fi
11078     \fi
11079     \ifvoid\@bidi@copyins@
11080     \else
11081       \vskip \skip\@bidi@copyins@
11082       \color@begingroup
11083       \normalcolor
11084       \unvbox \@bidi@copyins@
11085       \color@endgroup
11086     \fi
11087     \extrafeetinshook}}
11088 \bidi@ensure@newcommand{\extrafeetinshook}{\%
11089 \bidi@ensure@newcommand{\foottextfont}{\footnotesize}
11090 \bidi@ensure@newcommand{\LTRfoottextfont}{\footnotesize}
11091 \bidi@ensure@newcommand{\RTLfoottextfont}{\footnotesize}
11092 \bidi@ensure@newlength{\footinsdim}
11093 \setlength{\footinsdim}{8in} % standard for \dimen\footins
11094 \bidi@ensure@newcommand{\@preamfntext}{\%
11095   \interlinepenalty\interfootnotelinepenalty
11096   \floatingpenalty \@MM
11097   \splittopskip=\footnotesep
11098   \splitmaxdepth=\dp\strutbox
11099   \@parboxrestore}
11100 \bidi@ensure@newcommand{\m@mdoextrafeetmini}{\%
11101   \extrafeetminihook}
11102 \bidi@ensure@newcommand{\extrafeetendmini}{\%
11103   \ifvoid\@mpfootinsv@r
11104   \ifvoid\@mpfootinsv@l
11105   \else
11106     \vskip\skip\@mpfootins
11107     \normalcolor
11108     \if@bidi@void@\@mpfootins

```



```

11109         \footnoterule
11110     \fi
11111     \mp@LTRfootgroupv@l
11112 \fi
11113 \else
11114     \vskip\skip\@mpfootins
11115     \normalcolor
11116     \if@bidi@void\@mpfootins
11117         \footnoterule
11118     \fi
11119     \mp@footgroupv@r
11120     \ifvoid\@mpfootinsv@l
11121     \else
11122         \vskip\skip\@mpfootins
11123         \normalcolor\mp@LTRfootgroupv@l
11124     \fi
11125 \fi
11126 \extrafeetendminihook}
11127 \bidi@ensure@newcommand{\extrafeetendminihook}{}
11128 \bidi@ensure@newcommand{\m@mndoextrafeetendmini}{\extrafeetendmini}
11129 \def\endminipage{%
11130 \par
11131 \unskip
11132 \ifvoid\@mpfootins
11133     \global\@bidi@void\@mpfootinstrue
11134 \else
11135     \global\@bidi@void\@mpfootinsfalse
11136     \vskip\skip\@mpfootins
11137     \normalcolor
11138     \footnoterule
11139     \unvbox\@mpfootins
11140 \fi
11141 \m@mndoextrafeetendmini
11142 \@minipagefalse
11143 \color@endgroup
11144 \egroup
11145 \expandafter\@iiiparbox\@mpargs{\unvbox\@tempboxa}}
11146 \bidi@ensure@newcommand{\m@make@footstart}[1]{%
11147 \@namedef{\@footstart#1}{%
11148 \bidi@mopfn@bottom
11149 \leftskip=\z@
11150 \rightskip=\z@
11151 \parindent=\z@
11152 \vskip\skip\footins
11153 \footnoterule}}
11154 \newinsert\footinsv@r
11155 \skip\footinsv@r\bigskipamount
11156 \count\footinsv@r=1000 % no magnification
11157 \dimen\footinsv@r=\footinsdim
11158 \m@make@footstart{v@r}
11159 \newinsert\footinsv@l
11160 \skip\footinsv@l\bigskipamount
11161 \bidi@ensure@newcommand{\@footgroupv@r}{}
11162 \newinsert\@mpfootinsv@r

```



```

11163 \newinsert\@mpfootinsv@l
11164 \bidi@ensure@newcommand{\mp@footgroupv@r}{%
11165 \newcount\m@m@k \newdimen\m@m@h
11166 \@ifpackageloaded{multicol}{%
11167 \bidi@ensure@newcommand*{\m@mrigidbalance}[3]{\setbox0=\box#1 \m@m@k=#2 \m@m@h=#3
11168 \hsize\textwidth
11169 \@@line{\if@RTLcolumnfootnotes\beginR\fi\splittopskip=\m@m@h \vbadness=\@M \hfilneg
11170 \valign{##\vfill\cr\m@mdosplits}\if@RTLcolumnfootnotes\endR\fi}}
11171 }{%
11172 \bidi@ensure@newcommand*{\m@mrigidbalance}[3]{\setbox0=\box#1 \m@m@k=#2 \m@m@h=#3
11173 \@@line{\if@RTLcolumnfootnotes\beginR\fi\splittopskip=\m@m@h \vbadness=\@M \hfilneg
11174 \valign{##\vfill\cr\m@mdosplits}\if@RTLcolumnfootnotes\endR\fi}}
11175 \bidi@ensure@newcommand*{\m@mdosplits}{\ifnum\m@m@k>0 \noalign{\hfil}\m@msplitoff
11176 \global\advance\m@m@k-1\cr\m@mdosplits\fi}
11177 \bidi@ensure@newcommand*{\m@msplitoff}{\dimen0=\ht0
11178 \divide\dimen0 by\m@m@k \advance\dimen0 by\m@m@h
11179 \setbox2 \vsplit0 to \dimen0
11180 \unvbox2 }
11181 \bidi@ensure@newcommand{\twocolumnfootnotes}{%
11182 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
11183 \@bidi@before@Hy@hyperfootnotes
11184 \let\@footnotetext\@twocolfootnotetext
11185 \let\@LTRfootnotetext\@twocolLTRfootnotetext
11186 \let\@RTLfootnotetext\@twocolRTLfootnotetext
11187 \dimen\footinsv@r=2\footinsdim
11188 \count\footinsv@r=500\relax
11189 \m@make@twocol@footgroup{v@r}%
11190 \let\@footgroupv@r\@twocol@footgroupv@r
11191 \let\@mpfootnotetext\@mptwocolfootnotetext
11192 \let\@mpLTRfootnotetext\@mptwocolLTRfootnotetext
11193 \let\@mpRTLfootnotetext\@mptwocolRTLfootnotetext
11194 \@bidi@after@Hy@hyperfootnotes
11195 \m@make@mptwocol@footgroup{v@r}%
11196 \let\mp@footgroupv@r\@mptwocol@footgroupv@r
11197 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
11198 }
11199 \bidi@ensure@newcommand{\@twocolfootnotetext}[1]{\insert\footinsv@r{\if@RTL@footnote\@RTLtru
11200 \def\baselinestretch{\m@m@footnote@spacing}%
11201 \reset@font\foottextfont
11202 \@preamfntext
11203 \protected@edef\@currentlabel{%
11204 \csname p@footnote\endcsname\@thefnmark}%
11205 \color@begingroup
11206 \@twocolfootfmt{#1}%
11207 \color@endgroup}%
11208 \m@m@mf@prepare}
11209 \bidi@ensure@newcommand{\@twocolLTRfootnotetext}[1]{\insert\footinsv@r{\if@RTLcolumnfootnote
11210 \def\baselinestretch{\m@m@footnote@spacing}%
11211 \reset@font\LTRfoottextfont
11212 \@preamfntext
11213 \protected@edef\@currentlabel{%
11214 \csname p@footnote\endcsname\@thefnmark}%
11215 \color@begingroup
11216 \@twocolLTRfootfmt{#1}%

```





```

11217 \color@endgroup}%
11218 \m@mmf@prepare}
11219 \bidi@ensure@newcommand{\@twocolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
11220 \def\baselinestretch{\m@m@footnote@spacing}%
11221 \reset@font\RTLfoottextfont
11222 \@preamfntext
11223 \protected@edef\@currentlabel{%
11224 \csname p@footnote\endcsname\@thefnmark}%
11225 \color@begingroup
11226 \@twocolRTLfootfmt{#1}%
11227 \color@endgroup}%
11228 \m@mmf@prepare}
11229 \bidi@ensure@newcommand{\@preamtwofmt}{%
11230 \hspace{.45\hsize}
11231 \parindent=\z@
11232 \tolerance=5000\relax
11233 \leavevmode}
11234 \bidi@ensure@newcommand{\@twocolfootfmt}[1]{%
11235 \@preamtwofmt
11236 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
11237 \bidi@ensure@newcommand{\@twocolLTRfootfmt}[1]{%
11238 \@preamtwofmt
11239 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
11240 \bidi@ensure@newcommand{\@twocolRTLfootfmt}[1]{%
11241 \@preamtwofmt
11242 {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
11243 \bidi@ensure@newcommand{\@mptwocolfootnotetext}[1]{%
11244 \global\setbox\@mpfootinsv@r\vbox{\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
11245 \unvbox\@mpfootinsv@r
11246 \def\baselinestretch{\m@m@footnote@spacing}%
11247 \reset@font\foottextfont
11248 \hspace\columnwidth \@parboxrestore
11249 \protected@edef\@currentlabel{%
11250 \csname p@mpfootnote\endcsname\@thefnmark}%
11251 \color@begingroup
11252 \@twocolfootfmt{#1}%
11253 \color@endgroup}%
11254 \m@mmf@prepare}
11255 \bidi@ensure@newcommand{\@mptwocolLTRfootnotetext}[1]{%
11256 \global\setbox\@mpfootinsv@r\vbox{\@RTLfalse%
11257 \unvbox\@mpfootinsv@r
11258 \def\baselinestretch{\m@m@footnote@spacing}%
11259 \reset@font\LTRfoottextfont
11260 \hspace\columnwidth \@parboxrestore
11261 \if@RTLcolumnfootnotes\beginL\fi
11262 \protected@edef\@currentlabel{%
11263 \csname p@mpfootnote\endcsname\@thefnmark}%
11264 \color@begingroup
11265 \@twocolLTRfootfmt{#1}%
11266 \color@endgroup}%
11267 \m@mmf@prepare}
11268 \bidi@ensure@newcommand{\@mptwocolRTLfootnotetext}[1]{%
11269 \global\setbox\@mpfootinsv@r\vbox{\@RTLtrue%
11270 \unvbox\@mpfootinsv@r

```



```

11271 \def\baselinestretch{\m@m@footnote@spacing}%
11272 \reset@font\RTLfoottextfont
11273 \hsize\columnwidth \@parboxrestore
11274 \protected@edef\@currentlabel{%
11275 \csname p@mpfootnote\endcsname\@thefnmark}%
11276 \color@begingroup
11277 \@twocolRTLfootfmt{#1}%
11278 \color@endgroup}%
11279 \m@mmf@prepare}
11280 \bidi@ensure@newcommand{\m@make@twocol@footgroup}[1]{%
11281 \@namedef{@twocol@footgroup#1}{%
11282 \def\baselinestretch{\m@m@footnote@spacing}%
11283 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
11284 \m@mrigidbalance{\@nameuse{footins#1}}{\tw@}{\splittopskip}}}%
11285 \bidi@ensure@newcommand{\m@make@emptwocol@footgroup}[1]{%
11286 \@namedef{@emptwocol@footgroup#1}{%
11287 \def\baselinestretch{\m@m@footnote@spacing}%
11288 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
11289 \m@mrigidbalance{\@nameuse{mpfootins#1}}{\tw@}{\splittopskip}}}%
11290 \bidi@ensure@newcommand{\threecolumnfootnotes}{%
11291 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
11292 \@bidi@before@Hy@hyperfootnotes
11293 \let\@footnotetext\@threecolfootnotetext
11294 \let\@LTRfootnotetext\@threecolLTRfootnotetext
11295 \let\@RTLfootnotetext\@threecolRTLfootnotetext
11296 \dimen\footinsv@r=3\footinsdim
11297 \count\footinsv@r=333\relax
11298 \m@make@threecol@footgroup{v@r}%
11299 \let\@footgroupv@r\@threecol@footgroupv@r
11300 \let\@mpfootnotetext\@mpthreecolfootnotetext
11301 \let\@mpLTRfootnotetext\@mpthreecolLTRfootnotetext
11302 \let\@mpRTLfootnotetext\@mpthreecolRTLfootnotetext
11303 \@bidi@after@Hy@hyperfootnotes
11304 \m@make@mpthreecol@footgroup{v@r}%
11305 \let\mp@footgroupv@r\@mpthreecol@footgroupv@r
11306 \ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
11307 }
11308 \bidi@ensure@newcommand{\@threecolfootnotetext}[1]{\insert\footinsv@r{\if@RTL@footnote\@RTL
11309 \def\baselinestretch{\m@m@footnote@spacing}%
11310 \reset@font\foottextfont
11311 \@preamfntext
11312 \protected@edef\@currentlabel{%
11313 \csname p@footnote\endcsname\@thefnmark}%
11314 \color@begingroup
11315 \@threecolfootfmt{#1}%
11316 \color@endgroup}\m@mmf@prepare}
11317 \bidi@ensure@newcommand{\@threecolLTRfootnotetext}[1]{\insert\footinsv@r{\if@RTLcolumnfootno
11318 \def\baselinestretch{\m@m@footnote@spacing}%
11319 \reset@font\LTRfoottextfont
11320 \@preamfntext
11321 \protected@edef\@currentlabel{%
11322 \csname p@footnote\endcsname\@thefnmark}%
11323 \color@begingroup
11324 \@threecolLTRfootfmt{#1}%

```



```

11325 \color@endgroup}\m@mmf@prepare}
11326 \bidi@ensure@newcommand{\@threecolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
11327 \def\baselinestretch{\m@m@footnote@spacing}%
11328 \reset@font\RTLfoottextfont
11329 \@preamfntext
11330 \protected@edef\@currentlabel{%
11331 \csname p@footnote\endcsname\@thefnmark}%
11332 \color@begingroup
11333 \@threecolRTLfootfmt{#1}%
11334 \color@endgroup}\m@mmf@prepare}
11335 \bidi@ensure@newcommand{\@preamthreelfmt}{%
11336 \hspace{.3\hspace}
11337 \parindent=\z@
11338 \tolerance=5000\relax
11339 \leavevmode}
11340 \bidi@ensure@newcommand{\@threecolfootfmt}[1]{%
11341 \@preamthreelfmt
11342 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
11343 \bidi@ensure@newcommand{\@threecolLTRfootfmt}[1]{%
11344 \@preamthreelfmt
11345 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
11346 \bidi@ensure@newcommand{\@threecolRTLfootfmt}[1]{%
11347 \@preamthreelfmt
11348 {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
11349 \bidi@ensure@newcommand{\@mpthreecolfootnotetext}[1]{%
11350 \global\setbox\@mpfootinsv@r\vbox{\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
11351 \unvbox\@mpfootinsv@r
11352 \def\baselinestretch{\m@m@footnote@spacing}%
11353 \reset@font\foottextfont
11354 \hspace\columnwidth \@parboxrestore
11355 \protected@edef\@currentlabel{%
11356 \csname p@mpfootnote\endcsname\@thefnmark}%
11357 \color@begingroup
11358 \@threecolfootfmt{#1}%
11359 \color@endgroup}\m@mmf@prepare}
11360 \bidi@ensure@newcommand{\@mpthreecolLTRfootnotetext}[1]{%
11361 \global\setbox\@mpfootinsv@r\vbox{\@RTLfalse%
11362 \unvbox\@mpfootinsv@r
11363 \def\baselinestretch{\m@m@footnote@spacing}%
11364 \reset@font\LTRfoottextfont
11365 \hspace\columnwidth \@parboxrestore
11366 \if@RTLcolumnfootnotes\beginL\fi
11367 \protected@edef\@currentlabel{%
11368 \csname p@mpfootnote\endcsname\@thefnmark}%
11369 \color@begingroup
11370 \@threecolLTRfootfmt{#1}%
11371 \color@endgroup}\m@mmf@prepare}
11372 \bidi@ensure@newcommand{\@mpthreecolRTLfootnotetext}[1]{%
11373 \global\setbox\@mpfootinsv@r\vbox{\@RTLtrue%
11374 \unvbox\@mpfootinsv@r
11375 \def\baselinestretch{\m@m@footnote@spacing}%
11376 \reset@font\RTLfoottextfont
11377 \hspace\columnwidth \@parboxrestore
11378 \protected@edef\@currentlabel{%

```



```

11379 \csname p@mpfootnote\endcsname\@thefnmark}%
11380 \color@begingroup
11381 \@threecolRTLfootfmt{#1}%
11382 \color@endgroup}\m@mmf@prepare}
11383 \bidi@ensure@newcommand{\m@make@threecol@footgroup}[1]{%
11384 \@namedef{@threecol@footgroup#1}{%
11385 \def\baselinestretch{\m@footnote@spacing}%
11386 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
11387 \m@mrighdbalance{\@nameuse{footins#1}}{\thr@@}{\splittopskip}}}%
11388 \bidi@ensure@newcommand{\m@make@mpthreecol@footgroup}[1]{%
11389 \@namedef{@mpthreecol@footgroup#1}{%
11390 \def\baselinestretch{\m@footnote@spacing}%
11391 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
11392 \m@mrighdbalance{\@nameuse{mpfootins#1}}{\thr@@}{\splittopskip}}}%
11393 \bidi@ensure@newcommand{\fourcolumnfootnotes}{%
11394 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
11395 \@bidi@before@Hy@hyperfootnotes
11396 \let\@footnotetext\@fourcolfootnotetext
11397 \let\@LTRfootnotetext\@fourcolLTRfootnotetext
11398 \let\@RTLfootnotetext\@fourcolRTLfootnotetext
11399 \dimen\footinsv@r=4\footinsdim
11400 \count\footinsv@r=250\relax
11401 \m@make@fourcol@footgroup{v@r}%
11402 \let\@footgroupv@r\@fourcol@footgroupv@r
11403 \let\@mpfootnotetext\@mpfourcolfootnotetext
11404 \let\@mpLTRfootnotetext\@mpfourcolLTRfootnotetext
11405 \let\@mpRTLfootnotetext\@mpfourcolRTLfootnotetext
11406 \@bidi@after@Hy@hyperfootnotes
11407 \m@make@mpfourcol@footgroup{v@r}%
11408 \let\mp@footgroupv@r\@mpfourcol@footgroupv@r
11409 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
11410 }
11411 \bidi@ensure@newcommand{\@fourcolfootnotetext}[1]{\insert\footinsv@r{\if@RTL@footnote\@RTLtr
11412 \def\baselinestretch{\m@footnote@spacing}%
11413 \reset@font\foottextfont
11414 \@preamfntext
11415 \protected@edef\@currentlabel{%
11416 \csname p@footnote\endcsname\@thefnmark}%
11417 \color@begingroup
11418 \@fourcolfootfmt{#1}%
11419 \color@endgroup}%
11420 \m@mmf@prepare}
11421 \bidi@ensure@newcommand{\@fourcolLTRfootnotetext}[1]{\insert\footinsv@r{\if@RTLcolumnfootnot
11422 \def\baselinestretch{\m@footnote@spacing}%
11423 \reset@font\LTRfoottextfont
11424 \@preamfntext
11425 \protected@edef\@currentlabel{%
11426 \csname p@footnote\endcsname\@thefnmark}%
11427 \color@begingroup
11428 \@fourcolLTRfootfmt{#1}%
11429 \color@endgroup}%
11430 \m@mmf@prepare}
11431 \bidi@ensure@newcommand{\@fourcolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
11432 \def\baselinestretch{\m@footnote@spacing}%

```



```

11433 \reset@font\RTLfoottextfont
11434 \@preamfntext
11435 \protected@edef\@currentlabel{%
11436     \csname p@footnote\endcsname\@thefnmark}%
11437 \color@begingroup
11438     \@fourcolRTLfootfmt{#1}%
11439 \color@endgroup}%
11440 \m@mmlf@prepare}
11441 \bidi@ensure@newcommand{\@preamfourfmt}{%
11442     \hspace{.25\hspace}
11443     \parindent=\z@
11444     \tolerance=5000\relax
11445     \leavevmode}
11446 \bidi@ensure@newcommand{\@fourcolfootfmt}[1]{%
11447     \@preamfourfmt
11448     {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
11449 \bidi@ensure@newcommand{\@fourcolLTRfootfmt}[1]{%
11450     \@preamfourfmt
11451     {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
11452 \bidi@ensure@newcommand{\@fourcolRTLfootfmt}[1]{%
11453     \@preamfourfmt
11454     {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
11455 \bidi@ensure@newcommand{\@mpfourcolfootnotetext}[1]{%
11456     \global\setbox\@mpfootins\vbox{\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
11457         \unvbox\@mpfootins\v@r
11458         \def\baselinestretch{\m@m@footnote@spacing}%
11459         \reset@font\foottextfont
11460         \hspace\columnwidth \@parboxrestore
11461         \protected@edef\@currentlabel{%
11462             \csname p@mpfootnote\endcsname\@thefnmark}%
11463         \color@begingroup
11464             \@fourcolfootfmt{#1}%
11465         \color@endgroup}%
11466     \m@mmlf@prepare}
11467 \bidi@ensure@newcommand{\@mpfourcolLTRfootnotetext}[1]{%
11468     \global\setbox\@mpfootins\vbox{\@RTLfalse%
11469         \unvbox\@mpfootins\v@r
11470         \def\baselinestretch{\m@m@footnote@spacing}%
11471         \reset@font\LTRfoottextfont
11472         \hspace\columnwidth \@parboxrestore
11473         \if@RTLcolumnfootnotes\beginLfi
11474         \protected@edef\@currentlabel{%
11475             \csname p@mpfootnote\endcsname\@thefnmark}%
11476         \color@begingroup
11477             \@fourcolLTRfootfmt{#1}%
11478         \color@endgroup}%
11479     \m@mmlf@prepare}
11480 \bidi@ensure@newcommand{\@mpfourcolRTLfootnotetext}[1]{%
11481     \global\setbox\@mpfootins\vbox{\@RTLtrue%
11482         \unvbox\@mpfootins\v@r
11483         \def\baselinestretch{\m@m@footnote@spacing}%
11484         \reset@font\RTLfoottextfont
11485         \hspace\columnwidth \@parboxrestore
11486         \protected@edef\@currentlabel{%

```



```

11487 \csname p@mpfootnote\endcsname\@thefnmark}%
11488 \color@begingroup
11489 \@fourcolRTLfootfmt{#1}%
11490 \color@endgroup}%
11491 \m@mmf@prepare}
11492 \bidi@ensure@newcommand{\m@make@fourcol@footgroup}[1]{%
11493 \@namedef{\@fourcol@footgroup#1}{%
11494 \def\baselinestretch{\m@m@footnote@spacing}%
11495 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
11496 \m@mrigidbalance{\@nameuse{footins#1}}{4}{\splittopskip}}}}
11497 \bidi@ensure@newcommand{\m@make@mpfourcol@footgroup}[1]{%
11498 \@namedef{\@mpfourcol@footgroup#1}{%
11499 \def\baselinestretch{\m@m@footnote@spacing}%
11500 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
11501 \m@mrigidbalance{\@nameuse{\@mpfootins#1}}{4}{\splittopskip}}}}
11502 \bidi@ensure@newcommand{\fivecolumnfootnotes}{%
11503 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
11504 \@bidi@before@Hy@hyperfootnotes
11505 \let\@footnotetext\@fivecolfootnotetext
11506 \let\@LTRfootnotetext\@fivecolLTRfootnotetext
11507 \let\@RTLfootnotetext\@fivecolRTLfootnotetext
11508 \dimen\footinsv@r=5\footinsdim
11509 \count\footinsv@r=200\relax
11510 \m@make@fivecol@footgroup{v@r}%
11511 \let\@footgroupv@r\@fivecol@footgroupv@r
11512 \let\@mpfootnotetext\@mpfivecolfootnotetext
11513 \let\@mpLTRfootnotetext\@mpfivecolLTRfootnotetext
11514 \let\@mpRTLfootnotetext\@mpfivecolRTLfootnotetext
11515 \@bidi@after@Hy@hyperfootnotes
11516 \m@make@mpfivecol@footgroup{v@r}%
11517 \let\mp@footgroupv@r\@mpfivecol@footgroupv@r
11518 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
11519 }
11520 \bidi@ensure@newcommand{\@fivecolfootnotetext}[1]{\insert\footinsv@r{\if@RTL@footnote\@RTLtr
11521 \def\baselinestretch{\m@m@footnote@spacing}%
11522 \reset@font\foottextfont
11523 \@preamfntext
11524 \protected@edef\@currentlabel{%
11525 \csname p@footnote\endcsname\@thefnmark}%
11526 \color@begingroup
11527 \@fivecolfootfmt{#1}%
11528 \color@endgroup}%
11529 \m@mmf@prepare}
11530 \bidi@ensure@newcommand{\@fivecolLTRfootnotetext}[1]{\insert\footinsv@r{\if@RTLcolumnfootnot
11531 \def\baselinestretch{\m@m@footnote@spacing}%
11532 \reset@font\LTRfoottextfont
11533 \@preamfntext
11534 \protected@edef\@currentlabel{%
11535 \csname p@footnote\endcsname\@thefnmark}%
11536 \color@begingroup
11537 \@fivecolLTRfootfmt{#1}%
11538 \color@endgroup}%
11539 \m@mmf@prepare}
11540 \bidi@ensure@newcommand{\@fivecolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%

```



```

11541 \def\baselinestretch{\m@m@footnote@spacing}%
11542 \reset@font\RTLfoottextfont
11543 \@preamfntext
11544 \protected@edef\@currentlabel{%
11545   \csname p@footnote\endcsname\@thefnmark}%
11546 \color@begingroup
11547   \@fivecolRTLfootfmt{#1}%
11548 \color@endgroup}%
11549 \m@m@mmf@prepare}
11550 \bidi@ensure@newcommand{\@preamfivefmt}{%
11551   \hspace{.2\hspace}
11552   \parindent=\z@
11553   \tolerance=5000\relax
11554   \leavevmode}
11555 \bidi@ensure@newcommand{\@fivecolfootfmt}[1]{%
11556   \@preamfivefmt
11557   {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
11558 \bidi@ensure@newcommand{\@fivecolLTRfootfmt}[1]{%
11559   \@preamfivefmt
11560   {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
11561 \bidi@ensure@newcommand{\@fivecolRTLfootfmt}[1]{%
11562   \@preamfivefmt
11563   {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
11564 \bidi@ensure@newcommand{\@mpfivecolfootnotetext}[1]{%
11565   \global\setbox\@mpfootinsv@r\vbox{\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
11566     \unvbox\@mpfootinsv@r
11567     \def\baselinestretch{\m@m@footnote@spacing}%
11568     \reset@font\foottextfont
11569     \hspace\columnwidth \@parboxrestore
11570     \protected@edef\@currentlabel{%
11571       \csname p@mpfootnote\endcsname\@thefnmark}%
11572     \color@begingroup
11573       \@fivecolfootfmt{#1}%
11574     \color@endgroup}%
11575     \m@m@mmf@prepare}
11576 \bidi@ensure@newcommand{\@mpfivecolLTRfootnotetext}[1]{%
11577   \global\setbox\@mpfootinsv@r\vbox{\@RTLfalse%
11578     \unvbox\@mpfootinsv@r
11579     \def\baselinestretch{\m@m@footnote@spacing}%
11580     \reset@font\LTRfoottextfont
11581     \hspace\columnwidth \@parboxrestore
11582     \if@RTLcolumnfootnotes\beginL\fi
11583     \protected@edef\@currentlabel{%
11584       \csname p@mpfootnote\endcsname\@thefnmark}%
11585     \color@begingroup
11586       \@fivecolLTRfootfmt{#1}%
11587     \color@endgroup}%
11588     \m@m@mmf@prepare}
11589 \bidi@ensure@newcommand{\@mpfivecolRTLfootnotetext}[1]{%
11590   \global\setbox\@mpfootinsv@r\vbox{\@RTLtrue%
11591     \unvbox\@mpfootinsv@r
11592     \def\baselinestretch{\m@m@footnote@spacing}%
11593     \reset@font\RTLfoottextfont
11594     \hspace\columnwidth \@parboxrestore

```





```

11595 \protected@edef\@currentlabel{%
11596 \csname p@mpfootnote\endcsname\@thefnmark}%
11597 \color@begingroup
11598 \@fivecolRTLfootfmt{#1}%
11599 \color@endgroup}%
11600 \m@mmf@prepare}
11601 \bidi@ensure@newcommand{\m@make@fivecol@footgroup}[1]{%
11602 \@namedef{@fivecol@footgroup#1}{%
11603 \def\baselinestretch{\m@make@footnote@spacing}%
11604 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
11605 \m@mrigidbalance{\@nameuse{footins#1}}{5}{\splittopskip}}}}
11606 \bidi@ensure@newcommand{\m@make@mpfivecol@footgroup}[1]{%
11607 \@namedef{@mpfivecol@footgroup#1}{%
11608 \def\baselinestretch{\m@make@footnote@spacing}%
11609 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
11610 \m@mrigidbalance{\@nameuse{mpfootins#1}}{5}{\splittopskip}}}}
11611 \bidi@ensure@newcommand{\sixcolumnfootnotes}{%
11612 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
11613 \@bidi@before@Hy@hyperfootnotes
11614 \let\@footnotetext\@sixcolfootnotetext
11615 \let\@LTRfootnotetext\@sixcolLTRfootnotetext
11616 \let\@RTLfootnotetext\@sixcolRTLfootnotetext
11617 \dimen\footinsv@r=6\footinsdim
11618 \count\footinsv@r=166\relax
11619 \m@make@sixcol@footgroup{v@r}%
11620 \let\@footgroupv@r\@sixcol@footgroupv@r
11621 \let\@mpfootnotetext\@mpsixcolfootnotetext
11622 \let\@mpLTRfootnotetext\@mpsixcolLTRfootnotetext
11623 \let\@mpRTLfootnotetext\@mpsixcolRTLfootnotetext
11624 \@bidi@after@Hy@hyperfootnotes
11625 \m@make@mpsixcol@footgroup{v@r}%
11626 \let\mp@footgroupv@r\@mpsixcol@footgroupv@r
11627 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
11628 }
11629 \bidi@ensure@newcommand{\@sixcolfootnotetext}[1]{\insert\footinsv@r{\if@RTL@footnote\@RTLtru
11630 \def\baselinestretch{\m@make@footnote@spacing}%
11631 \reset@font\foottextfont
11632 \@preamfntext
11633 \protected@edef\@currentlabel{%
11634 \csname p@footnote\endcsname\@thefnmark}%
11635 \color@begingroup
11636 \@sixcolfootfmt{#1}%
11637 \color@endgroup}%
11638 \m@mmf@prepare}
11639 \bidi@ensure@newcommand{\@sixcolLTRfootnotetext}[1]{\insert\footinsv@r{\if@RTL@columnfootnote
11640 \def\baselinestretch{\m@make@footnote@spacing}%
11641 \reset@font\LTRfoottextfont
11642 \@preamfntext
11643 \protected@edef\@currentlabel{%
11644 \csname p@footnote\endcsname\@thefnmark}%
11645 \color@begingroup
11646 \@sixcolLTRfootfmt{#1}%
11647 \color@endgroup}%
11648 \m@mmf@prepare}

```





```

11649 \bidi@ensure@newcommand{\@sixcolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
11650 \def\baselinestretch{\m@m@footnote@spacing}%
11651 \reset@font\RTLfoottextfont
11652 \@preamfntext
11653 \protected@edef\@currentlabel{%
11654 \csname p@footnote\endcsname\@thefnmark}%
11655 \color@begingroup
11656 \@sixcolRTLfootfmt{#1}%
11657 \color@endgroup}%
11658 \m@m@m@prepare}
11659 \bidi@ensure@newcommand{\@preamsixfmt}{%
11660 \hspace{.16\hspace}
11661 \parindent=\z@
11662 \tolerance=5000\relax
11663 \leavevmode}
11664 \bidi@ensure@newcommand{\@sixcolfootfmt}[1]{%
11665 \@preamsixfmt
11666 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
11667 \bidi@ensure@newcommand{\@sixcolLTRfootfmt}[1]{%
11668 \@preamsixfmt
11669 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
11670 \bidi@ensure@newcommand{\@sixcolRTLfootfmt}[1]{%
11671 \@preamsixfmt
11672 {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
11673 \bidi@ensure@newcommand{\@mpsixcolfootnotetext}[1]{\if@RTL@footnote\@RTLtrue\else\@RTLfalse%
11674 \global\setbox\@mpfootinsv@r\vbox{%
11675 \unvbox\@mpfootinsv@r
11676 \def\baselinestretch{\m@m@footnote@spacing}%
11677 \reset@font\foottextfont
11678 \hspace\columnwidth \@parboxrestore
11679 \protected@edef\@currentlabel{%
11680 \csname p@mpfootnote\endcsname\@thefnmark}%
11681 \color@begingroup
11682 \@sixcolfootfmt{#1}%
11683 \color@endgroup}%
11684 \m@m@m@prepare}
11685 \bidi@ensure@newcommand{\@mpsixcolLTRfootnotetext}[1]{\@RTLfalse%
11686 \global\setbox\@mpfootinsv@r\vbox{%
11687 \unvbox\@mpfootinsv@r
11688 \def\baselinestretch{\m@m@footnote@spacing}%
11689 \reset@font\LTRfoottextfont
11690 \hspace\columnwidth \@parboxrestore
11691 \if@RTLcolumnfootnotes\beginL\fi
11692 \protected@edef\@currentlabel{%
11693 \csname p@mpfootnote\endcsname\@thefnmark}%
11694 \color@begingroup
11695 \@sixcolLTRfootfmt{#1}%
11696 \color@endgroup}%
11697 \m@m@m@prepare}
11698 \bidi@ensure@newcommand{\@mpsixcolRTLfootnotetext}[1]{\@RTLtrue%
11699 \global\setbox\@mpfootinsv@r\vbox{%
11700 \unvbox\@mpfootinsv@r
11701 \def\baselinestretch{\m@m@footnote@spacing}%
11702 \reset@font\RTLfoottextfont

```



```

11703 \hsize\columnwidth \@parboxrestore
11704 \protected@edef\@currentlabel{%
11705 \csname p@mpfootnote\endcsname\@thefnmark}%
11706 \color@begingroup
11707 \@sixcolRTLfootfmt{#1}%
11708 \color@endgroup}%
11709 \m@mmf@prepare}
11710 \bidi@ensure@newcommand{\m@make@sixcol@footgroup}[1]{%
11711 \@namedef{\@sixcol@footgroup#1}{%
11712 \def\baselinestretch{\m@m@footnote@spacing}%
11713 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
11714 \m@mrigidbalance{\@nameuse{footins#1}}{6}{\splittopskip}}}%
11715 \bidi@ensure@newcommand{\m@make@mpsixcol@footgroup}[1]{%
11716 \@namedef{\@mpsixcol@footgroup#1}{%
11717 \def\baselinestretch{\m@m@footnote@spacing}%
11718 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
11719 \m@mrigidbalance{\@nameuse{\mpfootins#1}}{6}{\splittopskip}}}%
11720 \bidi@ensure@newcommand{\sevendcolumnfootnotes}{%
11721 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
11722 \@bidi@before@Hy@hyperfootnotes
11723 \let\@footnotetext\@sevendcolfootnotetext
11724 \let\@LTRfootnotetext\@sevendcolLTRfootnotetext
11725 \let\@RTLfootnotetext\@sevendcolRTLfootnotetext
11726 \dimen\footinsv@r=7\footinsdim
11727 \count\footinsv@r=142\relax
11728 \m@make@sevendcol@footgroup{v@r}%
11729 \let\@footgroupv@r\@sevendcol@footgroupv@r
11730 \let\@mpfootnotetext\@mpsevendcolfootnotetext
11731 \let\@mpLTRfootnotetext\@mpsevendcolLTRfootnotetext
11732 \let\@mpRTLfootnotetext\@mpsevendcolRTLfootnotetext
11733 \@bidi@after@Hy@hyperfootnotes
11734 \m@make@mpsevendcol@footgroup{v@r}%
11735 \let\mp@footgroupv@r\@mpsevendcol@footgroupv@r
11736 \ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
11737 }
11738 \bidi@ensure@newcommand{\@sevendcolfootnotetext}[1]{\insert\footinsv@r{\if@RTL@footnote\@RTL
11739 \def\baselinestretch{\m@m@footnote@spacing}%
11740 \reset@font\foottextfont
11741 \@preamfntext
11742 \protected@edef\@currentlabel{%
11743 \csname p@footnote\endcsname\@thefnmark}%
11744 \color@begingroup
11745 \@sevendcolfootfmt{#1}%
11746 \color@endgroup}%
11747 \m@mmf@prepare}
11748 \bidi@ensure@newcommand{\@sevendcolLTRfootnotetext}[1]{\insert\footinsv@r{\if@RTLcolumnfootno
11749 \def\baselinestretch{\m@m@footnote@spacing}%
11750 \reset@font\LTRfoottextfont
11751 \@preamfntext
11752 \protected@edef\@currentlabel{%
11753 \csname p@footnote\endcsname\@thefnmark}%
11754 \color@begingroup
11755 \@sevendcolLTRfootfmt{#1}%
11756 \color@endgroup}%

```



```

11757 \m@mmf@prepare}
11758 \bidi@ensure@newcommand{\@sevendcolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
11759 \def\baselinestretch{\m@m@footnote@spacing}%
11760 \reset@font\RTLfoottextfont
11761 \@preamfntext
11762 \protected@edef\@currentlabel{%
11763 \csname p@footnote\endcsname\@thefnmark}%
11764 \color@begingroup
11765 \@sevendcolRTLfootfmt{#1}%
11766 \color@endgroup}%
11767 \m@mmf@prepare}
11768 \bidi@ensure@newcommand{\@preamsevenfmt}{%
11769 \hspace{.142\hspace}
11770 \parindent=\z@
11771 \tolerance=5000\relax
11772 \leavevmode}
11773 \bidi@ensure@newcommand{\@sevendcolfootfmt}[1]{%
11774 \@preamsevenfmt
11775 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
11776 \bidi@ensure@newcommand{\@sevendcolLTRfootfmt}[1]{%
11777 \@preamsevenfmt
11778 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
11779 \bidi@ensure@newcommand{\@sevendcolRTLfootfmt}[1]{%
11780 \@preamsevenfmt
11781 {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
11782 \bidi@ensure@newcommand{\@mpsevendcolfootnotetext}[1]{\if@RTL@footnote\@RTLtrue\else\@RTLfalse%
11783 \global\setbox\@mpfootinsv@r\vbox{%
11784 \unvbox\@mpfootinsv@r
11785 \def\baselinestretch{\m@m@footnote@spacing}%
11786 \reset@font\foottextfont
11787 \hspace\columnwidth \@parboxrestore
11788 \protected@edef\@currentlabel{%
11789 \csname p@mpfootnote\endcsname\@thefnmark}%
11790 \color@begingroup
11791 \@sevendcolfootfmt{#1}%
11792 \color@endgroup}%
11793 \m@mmf@prepare}
11794 \bidi@ensure@newcommand{\@mpsevendcolLTRfootnotetext}[1]{\@RTLfalse%
11795 \global\setbox\@mpfootinsv@r\vbox{%
11796 \unvbox\@mpfootinsv@r
11797 \def\baselinestretch{\m@m@footnote@spacing}%
11798 \reset@font\LTRfoottextfont
11799 \hspace\columnwidth \@parboxrestore
11800 \if@RTLcolumnfootnotes\beginL\fi
11801 \protected@edef\@currentlabel{%
11802 \csname p@mpfootnote\endcsname\@thefnmark}%
11803 \color@begingroup
11804 \@sevendcolLTRfootfmt{#1}%
11805 \color@endgroup}%
11806 \m@mmf@prepare}
11807 \bidi@ensure@newcommand{\@mpsevendcolRTLfootnotetext}[1]{\@RTLtrue%
11808 \global\setbox\@mpfootinsv@r\vbox{%
11809 \unvbox\@mpfootinsv@r
11810 \def\baselinestretch{\m@m@footnote@spacing}%

```



```

11811 \reset@font\RTLfoottextfont
11812 \hsize\columnwidth \@parboxrestore
11813 \protected@edef\@currentlabel{%
11814 \csname p@mpfootnote\endcsname\@thefnmark}%
11815 \color@begingroup
11816 \@sevenscolRTLfootfmt{#1}%
11817 \color@endgroup}%
11818 \m@mmlf@prepare}
11819 \bidi@ensure@newcommand{\m@make@sevenscol@footgroup}[1]{%
11820 \namedef{\@sevenscol@footgroup#1}{%
11821 \def\baselinestretch{\m@m@footnote@spacing}%
11822 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
11823 \m@mrigidbalance{\@nameuse{footins#1}}{7}{\splittopskip}}}}
11824 \bidi@ensure@newcommand{\m@make@mpsevenscol@footgroup}[1]{%
11825 \namedef{\@mpsevenscol@footgroup#1}{%
11826 \def\baselinestretch{\m@m@footnote@spacing}%
11827 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
11828 \m@mrigidbalance{\@nameuse{\@mpfootins#1}}{7}{\splittopskip}}}}
11829 \bidi@ensure@newcommand{\eightcolumnfootnotes}{%
11830 \namedef{\foottextfontv@r}{\foottextfont}% \quad [RS]
11831 \@bidi@before@Hy@hyperfootnotes
11832 \let\@footnotetext\@eightcolfootnotetext
11833 \let\@LTRfootnotetext\@eightcolLTRfootnotetext
11834 \let\@RTLfootnotetext\@eightcolRTLfootnotetext
11835 \dimen\footinsv@r=8\footinsdim
11836 \count\footinsv@r=125\relax
11837 \m@make@eightcol@footgroup{v@r}%
11838 \let\@footgroupv@r\@eightcol@footgroupv@r
11839 \let\@mpfootnotetext\@mpeightcolfootnotetext
11840 \let\@mpLTRfootnotetext\@mpeightcolLTRfootnotetext
11841 \let\@mpRTLfootnotetext\@mpeightcolRTLfootnotetext
11842 \@bidi@after@Hy@hyperfootnotes
11843 \m@make@mpeightcol@footgroup{v@r}%
11844 \let\mp@footgroupv@r\@mpeightcol@footgroupv@r
11845 \ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
11846 }
11847 \bidi@ensure@newcommand{\@eightcolfootnotetext}[1]{\insert\footinsv@r{\if@RTL@footnote\@RTL
11848 \def\baselinestretch{\m@m@footnote@spacing}%
11849 \reset@font\foottextfont
11850 \@preamfntext
11851 \protected@edef\@currentlabel{%
11852 \csname p@footnote\endcsname\@thefnmark}%
11853 \color@begingroup
11854 \@eightcolfootfmt{#1}%
11855 \color@endgroup}%
11856 \m@mmlf@prepare}
11857 \bidi@ensure@newcommand{\@eightcolLTRfootnotetext}[1]{\insert\footinsv@r{\if@RTLcolumnfootno
11858 \def\baselinestretch{\m@m@footnote@spacing}%
11859 \reset@font\LTRfoottextfont
11860 \@preamfntext
11861 \protected@edef\@currentlabel{%
11862 \csname p@footnote\endcsname\@thefnmark}%
11863 \color@begingroup
11864 \@eightcolLTRfootfmt{#1}%

```



```

11865 \color@endgroup}%
11866 \m@mmf@prepare}
11867 \bidi@ensure@newcommand{\@eightcolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
11868 \def\baselinestretch{\m@m@footnote@spacing}%
11869 \reset@font\RTLfoottextfont
11870 \@preamfntext
11871 \protected@edef\@currentlabel{%
11872 \csname p@footnote\endcsname\@thefnmark}%
11873 \color@begingroup
11874 \@eightcolRTLfootfmt{#1}%
11875 \color@endgroup}%
11876 \m@mmf@prepare}
11877 \bidi@ensure@newcommand{\@preameightfmt}{%
11878 \hspace{.125\hspace}
11879 \parindent=\z@
11880 \tolerance=5000\relax
11881 \leavevmode}
11882 \bidi@ensure@newcommand{\@eightcolfootfmt}[1]{%
11883 \@preameightfmt
11884 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
11885 \bidi@ensure@newcommand{\@eightcolLTRfootfmt}[1]{%
11886 \@preameightfmt
11887 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
11888 \bidi@ensure@newcommand{\@eightcolRTLfootfmt}[1]{%
11889 \@preameightfmt
11890 {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
11891 \bidi@ensure@newcommand{\@mpeightcolfootnotetext}[1]{%
11892 \global\setbox\@mpfootinsv@r\vbox{\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
11893 \unvbox\@mpfootinsv@r
11894 \def\baselinestretch{\m@m@footnote@spacing}%
11895 \reset@font\foottextfont
11896 \hspace\columnwidth \@parboxrestore
11897 \protected@edef\@currentlabel{%
11898 \csname p@mpfootnote\endcsname\@thefnmark}%
11899 \color@begingroup
11900 \@eightcolfootfmt{#1}%
11901 \color@endgroup}%
11902 \m@mmf@prepare}
11903 \bidi@ensure@newcommand{\@mpeightcolLTRfootnotetext}[1]{%
11904 \global\setbox\@mpfootinsv@r\vbox{\@RTLfalse%
11905 \unvbox\@mpfootinsv@r
11906 \def\baselinestretch{\m@m@footnote@spacing}%
11907 \reset@font\LTRfoottextfont
11908 \hspace\columnwidth \@parboxrestore
11909 \if@RTLcolumnfootnotes\beginL\fi
11910 \protected@edef\@currentlabel{%
11911 \csname p@mpfootnote\endcsname\@thefnmark}%
11912 \color@begingroup
11913 \@eightcolLTRfootfmt{#1}%
11914 \color@endgroup}%
11915 \m@mmf@prepare}
11916 \bidi@ensure@newcommand{\@mpeightcolRTLfootnotetext}[1]{%
11917 \global\setbox\@mpfootinsv@r\vbox{\@RTLtrue%
11918 \unvbox\@mpfootinsv@r

```



```

11919 \def\baselinestretch{\m@m@footnote@spacing}%
11920 \reset@font\RTLfoottextfont
11921 \hsize\columnwidth \@parboxrestore
11922 \protected@edef\@currentlabel{%
11923 \csname p@mpfootnote\endcsname\@thefnmark}%
11924 \color@begingroup
11925 \eightcolRTLfootfmt{#1}%
11926 \color@endgroup}%
11927 \m@m@prepare}
11928 \bidi@ensure@newcommand{\m@make@eightcol@footgroup}[1]{%
11929 \namedef{\eightcol@footgroup#1}{%
11930 \def\baselinestretch{\m@m@footnote@spacing}%
11931 \nameuse{foottextfont#1} \splittopskip=\ht\strutbox
11932 \m@m@rigidbalance{\nameuse{footins#1}}{8}{\splittopskip}}}%
11933 \bidi@ensure@newcommand{\m@make@mpeightcol@footgroup}[1]{%
11934 \namedef{\mpeightcol@footgroup#1}{%
11935 \def\baselinestretch{\m@m@footnote@spacing}%
11936 \nameuse{foottextfont#1} \splittopskip=\ht\strutbox
11937 \m@m@rigidbalance{\nameuse{mpfootins#1}}{8}{\splittopskip}}}%
11938 \bidi@ensure@newcommand{\ninelcolumnfootnotes}{%
11939 \namedef{foottextfontv@r}{\foottextfont}% % [RS]
11940 \@bidi@before@Hy@hyperfootnotes
11941 \let\@footnotetext\@ninelcolfootnotetext
11942 \let\@LTRfootnotetext\@ninelcolLTRfootnotetext
11943 \let\@RTLfootnotetext\@ninelcolRTLfootnotetext
11944 \dimen\footinsv@r=9\footinsdim
11945 \count\footinsv@r=111\relax
11946 \m@make@ninelcol@footgroup{v@r}%
11947 \let\@footgroupv@r\@ninelcol@footgroupv@r
11948 \let\@mpfootnotetext\@mpninelcolfootnotetext
11949 \let\@mpLTRfootnotetext\@mpninelcolLTRfootnotetext
11950 \let\@mpRTLfootnotetext\@mpninelcolRTLfootnotetext
11951 \@bidi@after@Hy@hyperfootnotes
11952 \m@make@mpninelcol@footgroup{v@r}%
11953 \let\mp@footgroupv@r\@mpninelcol@footgroupv@r
11954 \ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
11955 }
11956 \bidi@ensure@newcommand{\@ninelcolfootnotetext}[1]{\insert\footinsv@r{\if@RTL@footnote\@RTLtr
11957 \def\baselinestretch{\m@m@footnote@spacing}%
11958 \reset@font\foottextfont
11959 \@preamfntext
11960 \protected@edef\@currentlabel{%
11961 \csname p@footnote\endcsname\@thefnmark}%
11962 \color@begingroup
11963 \ninelcolfootfmt{#1}%
11964 \color@endgroup}%
11965 \m@m@prepare}
11966 \bidi@ensure@newcommand{\@ninelcolLTRfootnotetext}[1]{\insert\footinsv@r{\if@RTLcolumnfootnot
11967 \def\baselinestretch{\m@m@footnote@spacing}%
11968 \reset@font\LTRfoottextfont
11969 \@preamfntext
11970 \protected@edef\@currentlabel{%
11971 \csname p@footnote\endcsname\@thefnmark}%
11972 \color@begingroup

```



```

11973 \@ninecolLTRfootfmt{#1}%
11974 \color@endgroup}%
11975 \m@mmf@prepare}
11976 \bidi@ensure@newcommand{\@ninecolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
11977 \def\baselinestretch{\m@m@footnote@spacing}%
11978 \reset@font\RTLfoottextfont
11979 \@preamfntext
11980 \protected@edef\@currentlabel{%
11981 \csname p@footnote\endcsname\@thefnmark}%
11982 \color@begingroup
11983 \@ninecolRTLfootfmt{#1}%
11984 \color@endgroup}%
11985 \m@mmf@prepare}
11986 \bidi@ensure@newcommand{\@preamninefmt}{%
11987 \hsize .1\hsize
11988 \parindent=\z@
11989 \tolerance=5000\relax
11990 \leavevmode}
11991 \bidi@ensure@newcommand{\@ninecolfootfmt}[1]{%
11992 \@preamninefmt
11993 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
11994 \bidi@ensure@newcommand{\@ninecolLTRfootfmt}[1]{%
11995 \@preamninefmt
11996 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
11997 \bidi@ensure@newcommand{\@ninecolRTLfootfmt}[1]{%
11998 \@preamninefmt
11999 {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
12000 \bidi@ensure@newcommand{\@mpninecolfootnotetext}[1]{%
12001 \global\setbox\@mpfootinsv@r\vbox{\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
12002 \unvbox\@mpfootinsv@r
12003 \def\baselinestretch{\m@m@footnote@spacing}%
12004 \reset@font\foottextfont
12005 \hsize\columnwidth \@parboxrestore
12006 \protected@edef\@currentlabel{%
12007 \csname p@mpfootnote\endcsname\@thefnmark}%
12008 \color@begingroup
12009 \@ninecolfootfmt{#1}%
12010 \color@endgroup}%
12011 \m@mmf@prepare}
12012 \bidi@ensure@newcommand{\@mpninecolLTRfootnotetext}[1]{%
12013 \global\setbox\@mpfootinsv@r\vbox{\@RTLfalse%
12014 \unvbox\@mpfootinsv@r
12015 \def\baselinestretch{\m@m@footnote@spacing}%
12016 \reset@font\LTRfoottextfont
12017 \hsize\columnwidth \@parboxrestore
12018 \if@RTLcolumnfootnotes\beginL\fi
12019 \protected@edef\@currentlabel{%
12020 \csname p@mpfootnote\endcsname\@thefnmark}%
12021 \color@begingroup
12022 \@ninecolLTRfootfmt{#1}%
12023 \color@endgroup}%
12024 \m@mmf@prepare}
12025 \bidi@ensure@newcommand{\@mpninecolRTLfootnotetext}[1]{%
12026 \global\setbox\@mpfootinsv@r\vbox{\@RTLtrue%

```





```

12027 \unvbox\@mpfootinsv@r
12028 \def\baselinestretch{\m@m@footnote@spacing}%
12029 \reset@font\RTLfoottextfont
12030 \hsize\columnwidth \@parboxrestore
12031 \protected@edef\@currentlabel{%
12032 \csname p@mpfootnote\endcsname\@thefnmark}%
12033 \color@begingroup
12034 \@ninecolRTLfootfmt{#1}%
12035 \color@endgroup}%
12036 \m@mmf@prepare}
12037 \bidi@ensure@newcommand{\m@make@ninecol@footgroup}[1]{%
12038 \namedef{\@ninecol@footgroup#1}{%
12039 \def\baselinestretch{\m@m@footnote@spacing}%
12040 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12041 \m@mrigidbalance{\@nameuse{footins#1}}{9}{\splittopskip}}}%
12042 \bidi@ensure@newcommand{\m@make@mpninecol@footgroup}[1]{%
12043 \namedef{\@mpninecol@footgroup#1}{%
12044 \def\baselinestretch{\m@m@footnote@spacing}%
12045 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12046 \m@mrigidbalance{\@nameuse{\@mpfootins#1}}{9}{\splittopskip}}}%
12047 \bidi@ensure@newcommand{\tencolumnfootnotes}{%
12048 \namedef{foottextfontv@r}{\foottextfont}% % [RS]
12049 \@bidi@before@Hy@hyperfootnotes
12050 \let\@footnotetext\@tencolfootnotetext
12051 \let\@LTRfootnotetext\@tencolLTRfootnotetext
12052 \let\@RTLfootnotetext\@tencolRTLfootnotetext
12053 \dimen\footinsv@r=10\footinsdim
12054 \count\footinsv@r=100\relax
12055 \m@make@tencol@footgroup{v@r}%
12056 \let\@footgroupv@r\@tencol@footgroupv@r
12057 \let\@mpfootnotetext\@mptencolfootnotetext
12058 \let\@mpLTRfootnotetext\@mptencolLTRfootnotetext
12059 \let\@mpRTLfootnotetext\@mptencolRTLfootnotetext
12060 \@bidi@after@Hy@hyperfootnotes
12061 \m@make@mptencol@footgroup{v@r}%
12062 \let\mp@footgroupv@r\@mptencol@footgroupv@r
12063 \ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
12064 }
12065 \bidi@ensure@newcommand{\@tencolfootnotetext}[1]{\insert\footinsv@r{\if@RTL@footnote\@RTLtru
12066 \def\baselinestretch{\m@m@footnote@spacing}%
12067 \reset@font\foottextfont
12068 \@preamfntext
12069 \protected@edef\@currentlabel{%
12070 \csname p@footnote\endcsname\@thefnmark}%
12071 \color@begingroup
12072 \@tencolfootfmt{#1}%
12073 \color@endgroup}%
12074 \m@mmf@prepare}
12075 \bidi@ensure@newcommand{\@tencolLTRfootnotetext}[1]{\insert\footinsv@r{\if@RTLcolumnfootnote
12076 \def\baselinestretch{\m@m@footnote@spacing}%
12077 \reset@font\LTRfoottextfont
12078 \@preamfntext
12079 \protected@edef\@currentlabel{%
12080 \csname p@footnote\endcsname\@thefnmark}%

```





```

12081 \color@begingroup
12082 \tencolLTRfootfmt{#1}%
12083 \color@endgroup}%
12084 \m@mmf@prepare}
12085 \bidi@ensure@newcommand{\tencolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
12086 \def\baselinestretch{\m@m@footnote@spacing}%
12087 \reset@font\RTLfoottextfont
12088 \@preamfntext
12089 \protected@edef\@currentlabel{%
12090 \csname p@footnote\endcsname\@thefnmark}%
12091 \color@begingroup
12092 \tencolRTLfootfmt{#1}%
12093 \color@endgroup}%
12094 \m@mmf@prepare}
12095 \bidi@ensure@newcommand{\@preamtenfmt}{%
12096 \hspace .1\hspace
12097 \parindent=\z@
12098 \tolerance=5000\relax
12099 \leavevmode}
12100 \bidi@ensure@newcommand{\tencolfootfmt}[1]{%
12101 \@preamtenfmt
12102 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
12103 \bidi@ensure@newcommand{\tencolLTRfootfmt}[1]{%
12104 \@preamtenfmt
12105 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
12106 \bidi@ensure@newcommand{\tencolRTLfootfmt}[1]{%
12107 \@preamtenfmt
12108 {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
12109 \bidi@ensure@newcommand{\@mptencolfootnotetext}[1]{%
12110 \global\setbox\@mpfootinsv@r\vbox{\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
12111 \unvbox\@mpfootinsv@r
12112 \def\baselinestretch{\m@m@footnote@spacing}%
12113 \reset@font\foottextfont
12114 \hspace\columnwidth \@parboxrestore
12115 \protected@edef\@currentlabel{%
12116 \csname p@mpfootnote\endcsname\@thefnmark}%
12117 \color@begingroup
12118 \tencolfootfmt{#1}%
12119 \color@endgroup}%
12120 \m@mmf@prepare}
12121 \bidi@ensure@newcommand{\@mptencolLTRfootnotetext}[1]{%
12122 \global\setbox\@mpfootinsv@r\vbox{\@RTLfalse%
12123 \unvbox\@mpfootinsv@r
12124 \def\baselinestretch{\m@m@footnote@spacing}%
12125 \reset@font\LTRfoottextfont
12126 \hspace\columnwidth \@parboxrestore
12127 \if@RTLcolumnfootnotes\beginL\fi
12128 \protected@edef\@currentlabel{%
12129 \csname p@mpfootnote\endcsname\@thefnmark}%
12130 \color@begingroup
12131 \tencolLTRfootfmt{#1}%
12132 \color@endgroup}%
12133 \m@mmf@prepare}
12134 \bidi@ensure@newcommand{\@mptencolRTLfootnotetext}[1]{%

```



```

12135 \global\setbox\@mpfootinsv@r\vbox{\@RTLtrue%
12136 \unvbox\@mpfootinsv@r
12137 \def\baselinestretch{\m@m@footnote@spacing}%
12138 \reset@font\RTLfoottextfont
12139 \hsize\columnwidth \@parboxrestore
12140 \protected@edef\@currentlabel{%
12141 \csname p@mpfootnote\endcsname\@thefnmark}%
12142 \color@begingroup
12143 \tencolRTLfootfmt{#1}%
12144 \color@endgroup}%
12145 \m@mmf@prepare}
12146 \bidi@ensure@newcommand{\m@make@tencol@footgroup}[1]{%
12147 \@namedef{\tencol@footgroup#1}{%
12148 \def\baselinestretch{\m@m@footnote@spacing}%
12149 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12150 \m@mrigidbalance{\@nameuse{footins#1}}{10}{\splittopskip}}}%
12151 \bidi@ensure@newcommand{\m@make@mptencol@footgroup}[1]{%
12152 \@namedef{\mptencol@footgroup#1}{%
12153 \def\baselinestretch{\m@m@footnote@spacing}%
12154 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12155 \m@mrigidbalance{\@nameuse{mpfootins#1}}{10}{\splittopskip}}}%
12156 \bidi@ensure@newcommand{\m@munvxh}[1]{%
12157 \setbox0=\vbox{\unvbox#1}
12158 \global\setbox1=\lastbox}%
12159 \unhbox1
12160 \unskip
12161 \unskip
12162 \unpenalty
12163 \hskip\m@mipn@skip}
12164 \bidi@ensure@newcommand{\m@mungebox}{%
12165 \setbox0=\hbox{\m@munvxh0}%
12166 \dp0=\z@
12167 \ht0=\footfudgefactor\wd0
12168 \box0
12169 \penalty0}
12170 \newskip\m@mipn@skip
12171 \bidi@ensure@newcommand*{\m@minterparanoteglu}[1]{%
12172 {\foottextfont\global\m@mipn@skip=#1\relax}}
12173 \m@minterparanoteglu{1em plus.4em minus.4em}
12174 \@ifpackageloaded{multicol}{%
12175 \bidi@ensure@newcommand*{\m@mmakehboxofhboxes}{%
12176 \hsize\textwidth%
12177 \setbox0=\hbox{}%
12178 \loop
12179 \unpenalty
12180 \setbox2=\lastbox
12181 \ifhbox2
12182 \setbox0=\hbox{\box2\unhbox0}
12183 \repeat}%
12184 }%
12185 \bidi@ensure@newcommand*{\m@mmakehboxofhboxes}{%
12186 \setbox0=\hbox{}%
12187 \loop
12188 \unpenalty

```



```

12189 \setbox2=\lastbox
12190 \ifhbox2
12191 \setbox0=\hbox{\box2\unhbox0}
12192 \repeat}}
12193 \bidi@ensure@newcommand*{\m@mremovehboxes}{\setbox0=\lastbox
12194 \ifhbox0{\m@mremovehboxes}\unhbox0 \fi}
12195 \newcommand*{\AddExtraParaSkip[1]}{%
12196 \if@bidi@csdef{footfudgefactor}{%
12197 \PackageError{bidi}{%
12198 The control sequence `string\AddExtraParaSkip`
12199 must be used before the control sequence
12200 `string\paragraphfootnotes' in the preamble%
12201 }\@ehc
12202 }{%
12203 \def\bidi@xparaskip{\advance\@tempdima#1\relax}%
12204 }%
12205 }
12206 \bidi@ensure@newcommand{\paragraphfootnotes}{%
12207 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
12208 \@bidi@before@Hy@hyperfootnotes
12209 \let\@footnotetext\@parafootnotetext
12210 \let\@LTRfootnotetext\@paraLTRfootnotetext
12211 \let\@RTLfootnotetext\@paraRTLfootnotetext
12212 \dimen\footinsv@r=\footinsdim
12213 \count\footinsv@r=1000\relax
12214 \m@make@para@footgroup{v@r}%
12215 \m@make@para@footstart{v@r}%
12216 \let\@footgroupv@r\@para@footgroupv@r
12217 \let\@footstartv@r\@para@footstartv@r
12218 \dimen\footinsv@l=\footinsdim
12219 \count\footinsv@l=1000\relax
12220 \bidi@make@para@LTRfootgroup{v@l}%
12221 \m@make@para@footstart{v@l}%
12222 \bidi@make@para@footstart@@{v@l}%
12223 \let\@LTRfootgroupv@l\@para@LTRfootgroupv@l
12224 \let\@footstartv@l\@para@footstartv@l
12225 \let\@@footstart@@v@l\@para@footstart@@v@l
12226 \let\@mpfootnotetext\@mpparafootnotetext
12227 \let\@mpLTRfootnotetext\@mpparaLTRfootnotetext
12228 \let\@mpRTLfootnotetext\@mpparaRTLfootnotetext
12229 \@bidi@after@Hy@hyperfootnotes
12230 \m@make@mppara@footgroup{v@r}%
12231 \bidi@make@mppara@LTRfootgroup{v@l}%
12232 \let\mp@footgroupv@r\@mppara@footgroupv@r
12233 \let\mp@LTRfootgroupv@l\@mppara@LTRfootgroupv@l
12234 \begingroup
12235 \def\baselinestretch{\m@m@footnote@spacing}%
12236 \foottextfont
12237 \@tempdima\footnotesep
12238 \advance\@tempdima -\ht\strutbox
12239 \ifdim\@tempdima<\z@ \@tempdima\z@ \fi
12240 \advance\@tempdima.5\normalbaselineskip
12241 \bidi@xparaskip
12242 \xdef\bidi@paraskip{\the\@tempdima\relax}%

```



```

12243 \ifdim\skip\footinsv@r>\bigskipamount
12244 \else
12245 \global\advance\skip\footinsv@r\bid@paraskip
12246 \fi
12247 \ifdim\skip\footinsv@l>\bigskipamount
12248 \else
12249 \global\advance\skip\footinsv@l\bid@paraskip
12250 \fi
12251 \@tempdima\normalbaselineskip
12252 \multiply \@tempdima \@cclvi
12253 \@tempdimb \columnwidth
12254 \divide \@tempdimb \@cclvi
12255 \divide \@tempdima \@tempdimb
12256 \xdef\footfudgefactor{\strip@pt\@tempdima}%
12257 \endgroup
12258 \@ifstar\bid@star@footmarkwidth\bid@normal@footmarkwidth
12259 }
12260 \newcommand{\normalRTLparaLTRfootnotes}{%
12261 \namedef{\foottextfontv@r}{\foottextfont}%
12262 \bid@before@Hy@hyperfootnotes
12263 \ifRTL@footnote
12264 \let\@footnotetext\m@mold@footnotetext
12265 \else
12266 \let\@footnotetext\@parafootnotetext
12267 \fi
12268 \let\@LTRfootnotetext\@paraLTRfootnotetext
12269 \let\@RTLfootnotetext\m@mold@RTLfootnotetext
12270 \dimen\footinsv@r=\footinsdim
12271 \count\footinsv@r=1000\relax
12272 \m@make@para@footgroup{v@r}%
12273 \m@make@para@footstart{v@r}%
12274 \let\@footgroupv@r\@para@footgroupv@r
12275 \let\@footstartv@r\@para@footstartv@r
12276 \dimen\footinsv@l=\footinsdim
12277 \count\footinsv@l=1000\relax
12278 \bid@make@para@LTRfootgroup{v@l}%
12279 \m@make@para@footstart{v@l}%
12280 \bid@make@para@footstart@@{v@l}%
12281 \let\@LTRfootgroupv@l\@para@LTRfootgroupv@l
12282 \let\@footstartv@l\@para@footstartv@l
12283 \let\@@footstart@@v@l\@para@footstart@@v@l
12284 \ifRTL@footnote
12285 \let\@mpfootnotetext\m@mold@mpfootnotetext
12286 \else
12287 \let\@mpfootnotetext\@mpparafootnotetext
12288 \fi
12289 \let\@mpLTRfootnotetext\@mpparaLTRfootnotetext
12290 \let\@mpRTLfootnotetext\m@mold@mpRTLfootnotetext
12291 \bid@after@Hy@hyperfootnotes
12292 \m@make@mppara@footgroup{v@r}%
12293 \bid@make@mppara@LTRfootgroup{v@l}%
12294 \let\mp@footgroupv@r\@mppara@footgroupv@r
12295 \let\mp@LTRfootgroupv@l\@mppara@LTRfootgroupv@l
12296 \begingroup

```



```

12297 \def\baselinestretch{\m@m@footnote@spacing}%
12298 \foottextfont
12299 \@tempdima\footnotesep
12300 \advance\@tempdima -\ht\strutbox
12301 \ifdim\@tempdima<\z@ \@tempdima\z@ \fi
12302 \advance\@tempdima.5\normalbaselineskip
12303 \bidi@xparaskip
12304 \xdef\bidi@paraskip{\the\@tempdima\relax}%
12305 \ifdim\skip\footinsv@r>\bigskipamount
12306 \else
12307 \global\advance\skip\footinsv@r\bidi@paraskip
12308 \fi
12309 \ifdim\skip\footinsv@l>\bigskipamount
12310 \else
12311 \global\advance\skip\footinsv@l\bidi@paraskip
12312 \fi
12313 \@tempdima\normalbaselineskip
12314 \multiply \@tempdima \@cclvi
12315 \@tempdimb \columnwidth
12316 \divide \@tempdimb \@cclvi
12317 \divide \@tempdima \@tempdimb
12318 \xdef\footfudgefactor{\strip@pt\@tempdima}%
12319 \endgroup
12320 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
12321 }
12322 \let\bidi@xparaskip\relax
12323 \@onlypreamble\AddExtraParaSkip
12324 \bidi@ensure@newcommand{\@parafootnotetext}[1]{\insert
12325 \if@RTL@footnote
12326 \footinsv@r
12327 \else
12328 \footinsv@l
12329 \fi
12330 {%
12331 \let\bidi@RTL@everypar\@empty%
12332 \def\baselinestretch{\m@m@footnote@spacing}%
12333 \reset@font\foottextfont
12334 \@preamfntext
12335 \protected@edef\@currentlabel{%
12336 \csname p@footnote\endcsname\@thefnmark}%
12337 \setbox0=\vbox{\hsize=\maxdimen
12338 \color@begingroup
12339 \noindent \@parafootfmt{#1}%
12340 \color@endgroup}%
12341 \m@ungebox}\m@mmf@prepare}
12342 \bidi@ensure@newcommand{\@paraLTRfootnotetext}[1]{\insert\footinsv@l{%
12343 \let\bidi@RTL@everypar\@empty%
12344 \def\baselinestretch{\m@m@footnote@spacing}%
12345 \reset@font\LTRfoottextfont
12346 \@preamfntext
12347 \protected@edef\@currentlabel{%
12348 \csname p@footnote\endcsname\@thefnmark}%
12349 \setbox0=\vbox{\hsize=\maxdimen
12350 \color@begingroup

```



```

12351      \noindent \@paraLTRfootfmt{#1}%
12352      \color@endgroup}%
12353      \m@mmungebox}\m@mmf@prepare}
12354 \bidi@ensure@newcommand{\@paraRTLfootnotetext}[1]{\insert\footinsv@r{%
12355   \let\bidi@RTL@everypar\@empty%
12356   \def\baselinestretch{\m@m@footnote@spacing}%
12357   \reset@font\RTLfoottextfont
12358   \@preamfntext
12359   \protected@edef\@currentlabel{%
12360     \csname p@footnote\endcsname\@thefnmark}%
12361   \setbox0=\vbox{\hsize=\maxdimen
12362     \color@begingroup
12363     \noindent \@paraRTLfootfmt{#1}%
12364     \color@endgroup}%
12365   \m@mmungebox}\m@mmf@prepare}
12366 \bidi@ensure@newcommand{\@parafootfmt}[1]{%
12367   \parindent=\z@
12368   \parfillskip=0pt \@plus 1fil
12369   {\footfootmark\strut {\foottextfont #1}\penalty-10}}
12370 \bidi@ensure@newcommand{\@paraLTRfootfmt}[1]{%
12371   \parindent=\z@
12372   \parfillskip=0pt \@plus 1fil
12373   {\LTRfootfootmark\strut {\LTRfoottextfont #1}\penalty-10}}
12374 \bidi@ensure@newcommand{\@paraRTLfootfmt}[1]{%
12375   \parindent=\z@
12376   \parfillskip=0pt \@plus 1fil
12377   {\RTLfootfootmark\strut {\RTLfoottextfont #1}\penalty-10}}
12378 \bidi@ensure@newcommand{\@mpparafootnotetext}[1]{%
12379   \global\setbox
12380   \if@RTL@footnote
12381     \@mpfootinsv@r
12382   \else
12383     \@mpfootinsv@l
12384   \fi
12385   \vbox{%
12386     \let\bidi@RTL@everypar\@empty%
12387     \def\baselinestretch{\m@m@footnote@spacing}%
12388     \unvbox
12389     \if@RTL@footnote
12390       \@mpfootinsv@r
12391     \else
12392       \@mpfootinsv@l
12393     \fi
12394     \reset@font\foottextfont
12395     \hsize\columnwidth \@parboxrestore
12396     \protected@edef\@currentlabel{%
12397       \csname p@mpfootnote\endcsname\@thefnmark}%
12398     \setbox0=\vbox{\hsize=\maxdimen
12399       \color@begingroup
12400       \noindent \@parafootfmt{#1}%
12401       \color@endgroup}%
12402     \m@mmungebox}\m@mmf@prepare}
12403 \bidi@ensure@newcommand{\@mpparaLTRfootnotetext}[1]{%
12404   \global\setbox\@mpfootinsv@l\vbox{%

```



```

12405 \let\bidirTL@everypar\@empty%
12406 \def\baselinestretch{\m@m@footnote@spacing}%
12407 \unvbox\@mpfootinsv@l
12408 \reset@font\LTRfoottextfont
12409 \hsize\columnwidth \@parboxrestore
12410 \protected@edef\@currentlabel{%
12411 \csname p@mpfootnote\endcsname\@thefnmark}%
12412 \setbox0=\vbox{\hsize=\maxdimen
12413 \color@begingroup
12414 \noindent \@paraLTRfootfmt{#1}%
12415 \color@endgroup}%
12416 \m@mungebox}\m@mmf@prepare}
12417 \bidi@ensure@newcommand{\@mpparaRTLfootnotetext}[1]{%
12418 \global\setbox\@mpfootinsv@r\vbox{%
12419 \let\bidirTL@everypar\@empty%
12420 \def\baselinestretch{\m@m@footnote@spacing}%
12421 \unvbox\@mpfootinsv@r
12422 \reset@font\RTLfoottextfont
12423 \hsize\columnwidth \@parboxrestore
12424 \protected@edef\@currentlabel{%
12425 \csname p@mpfootnote\endcsname\@thefnmark}%
12426 \setbox0=\vbox{\hsize=\maxdimen
12427 \color@begingroup
12428 \noindent \@paraRTLfootfmt{#1}%
12429 \color@endgroup}%
12430 \m@mungebox}\m@mmf@prepare}
12431 \bidi@ensure@newcommand{\m@make@para@footgroup}[1]{%
12432 \@namedef{\@para@footgroup#1}{%
12433 \unvbox\@nameuse{footins#1}
12434 \@RTLtrue
12435 \m@mmakehboxofhboxes
12436 \setbox0=\hbox{\unhbox0 \m@mremovehboxes}%
12437 \@parboxrestore%
12438 \def\baselinestretch{\m@m@footnote@spacing}%
12439 \@nameuse{foottextfont#1}%
12440 \noindent\unhbox0\par}}
12441 \bidi@ensure@newcommand{\bidi@make@para@LTRfootgroup}[1]{%
12442 \@namedef{\@para@LTRfootgroup#1}{%
12443 \unvbox\@nameuse{footins#1}
12444 \@RTLfalse
12445 \m@mmakehboxofhboxes
12446 \setbox0=\hbox{\unhbox0 \m@mremovehboxes}%
12447 \@parboxrestore%
12448 \def\baselinestretch{\m@m@footnote@spacing}%
12449 \@nameuse{foottextfont#1}%
12450 \noindent\unhbox0\par}}
12451 \bidi@ensure@newcommand{\m@make@mppara@footgroup}[1]{%
12452 \@namedef{\@mppara@footgroup#1}{%
12453 \unvbox\@nameuse{\@mpfootins#1}
12454 \@RTLtrue
12455 \m@mmakehboxofhboxes
12456 \setbox0=\hbox{\unhbox0 \m@mremovehboxes}%
12457 \def\baselinestretch{\m@m@footnote@spacing}%
12458 \@nameuse{foottextfont#1}%

```



```

12459 \noindent\unhbox0\par}}
12460 \bidi@ensure@newcommand{\bidi@make@mppara@LTRfootgroup}[1]{%
12461 \@namedef{@mppara@LTRfootgroup#1}{%
12462 \unvbox\@nameuse{@mpfootins#1}
12463 \@RTLfalse
12464 \m@mmakehboxofhboxes
12465 \setbox0=\hbox{\unhbox0 \m@mremovehboxes}%
12466 \def\baselinestretch{\m@m@footnote@spacing}%
12467 \@nameuse{foottextfont#1}%
12468 \noindent\unhbox0\par}}
12469 \bidi@ensure@newcommand{\m@make@para@footstart}[1]{%
12470 \@namedef{@para@footstart#1}{%
12471 \if@bidi@void@footins
12472 \bidi@mopfn@bottom
12473 \fi
12474 \leftskip=\z@
12475 \rightskip=\z@
12476 \parindent=\z@
12477 \vskip\skip\footins
12478 \if@bidi@void@footins
12479 \footnoterule
12480 \fi}}
12481 \bidi@ensure@newcommand{\bidi@make@para@footstart@@}[1]{%
12482 \@namedef{@@para@footstart@@#1}{%
12483 \leftskip=\z@
12484 \rightskip=\z@
12485 \parindent=\z@
12486 \vskip\skip\footins}}
12487 \bidi@ensure@newcommand*\m@m@makecolfloats}{%
12488 \xdef\@freelist{\@freelist\@midlist}%
12489 \global\let\@midlist\@empty
12490 \@combinefloats}
12491 \bidi@ensure@newcommand*\m@m@makecoltext}{%
12492 \ifvbox\@kludgeins
12493 \@makespecialcolbox
12494 \else
12495 \setbox\@outputbox \vbox to\@colht{%
12496 \@texttop
12497 \dimen@ \dp\@outputbox
12498 \unvbox \@outputbox
12499 \vskip -\dimen@
12500 \@textbottom}%
12501 \fi}
12502 \bidi@ensure@newcommand*\m@m@makecolintro}{%
12503 \bidi@ensure@newcommand*\m@mopfootnote}{\setbox\@outputbox \vbox{%
12504 \boxmaxdepth\@maxdepth
12505 \@tempdima\dp\@cclv
12506 \unvbox\@cclv
12507 \vskip-\@tempdima
12508 \bidi@mopfn@bottom
12509 \vskip \skip\footins
12510 \color@begingroup
12511 \normalcolor
12512 \footnoterule

```





```

12513 \unvbox \footins
12514 \color@endgroup
12515 }%
12516 }
12517 \newcommand*{\bidi@mopfootnotebf}{%
12518 \setbox\@outputbox \vbox{%
12519 \boxmaxdepth\@maxdepth
12520 \unvbox\@outputbox
12521 \bidi@mopfn@bottom
12522 \vskip\skip\footins
12523 \color@begingroup
12524 \normalcolor
12525 \footnoterule
12526 \unvbox \footins
12527 \color@endgroup
12528 }%
12529 }
12530 \gdef\mem@makecol{%
12531 \m@m@makecolintro
12532 \ifvoid\footins
12533 \global\@bidi@void@footinstrue
12534 \setbox\@outputbox \box\@cclv
12535 \else
12536 \global\@bidi@void@footinsfalse
12537 \m@mopfootnote
12538 \fi
12539 \m@mdoextrafeet
12540 \m@m@makecolfloats
12541 \m@m@makecoltext
12542 \global \maxdepth \@maxdepth}
12543 \gdef\bidi@makecolbf{%
12544 \m@m@makecolintro
12545 \setbox\@outputbox \box\@cclv
12546 \m@m@makecolfloats
12547 \ifvoid\footins
12548 \global\@bidi@void@footinstrue
12549 \else
12550 \global\@bidi@void@footinsfalse
12551 \bidi@mopfootnotebf
12552 \fi
12553 \m@mdoextrafeet
12554 \m@m@makecoltext
12555 \global \maxdepth \@maxdepth}
12556 \newcommand{\FeetAboveFloat}{\gdef\@makecol{\mem@makecol}}
12557 \newcommand{\FeetBelowFloat}{\gdef\@makecol{\bidi@makecolbf}}
12558 \newcommand\FeetAtBottom{\def\bidi@mopfn@bottom{\vfill\relax}}
12559 \newcommand\FeetBelowRagged{\let\bidi@mopfn@bottom\relax}
12560 \FeetAboveFloat
12561 \FeetBelowRagged

```

## 79 File extreport-xetex-bidi.def

```

12562 \ProvidesFile{extreport-xetex-bidi.def}[2017/06/09 v0.3 bidi adaptations for extreport class]
12563 \renewcommand*\l@part[2]{%

```



```

12564 \ifnum \c@tocdepth >-2\relax
12565   \addpenalty{-\@highpenalty}%
12566   \addvspace{2.25em \@plus\p@}%
12567   \begingroup
12568     \setlength\@tempdima{3em}%
12569     \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
12570     \parfillskip -\@pnumwidth
12571     {\leavevmode
12572       \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
12573     \nobreak
12574     \global\@nobreaktrue
12575     \everypar{\global\@nobreakfalse\everypar{}}%
12576   \endgroup
12577 \fi}
12578 \renewcommand*\l@chapter[2]{%
12579   \ifnum \c@tocdepth >\m@ne
12580     \addpenalty{-\@highpenalty}%
12581     \vskip 1.0em \@plus\p@
12582     \setlength\@tempdima{1.5em}%
12583     \begingroup
12584       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
12585       \parfillskip -\@pnumwidth
12586       \leavevmode \bfseries
12587       \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
12588       \hskip -\if@RTL\rightskip\else\leftskip\fi
12589       #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
12590       \penalty\@highpenalty
12591     \endgroup
12592   \fi}
12593 \def\@makechapterhead#1{%
12594   \vspace*{50\p@}%
12595   {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont
12596     \ifnum \c@secnumdepth >\m@ne
12597       \huge\bfseries \@chapapp\space \thechapter
12598       \par\nobreak
12599       \vskip 20\p@
12600     \fi
12601     \interlinepenalty\@M
12602     \Huge \bfseries #1\par\nobreak
12603     \vskip 40\p@
12604   }}
12605 \def\@makeschapterhead#1{%
12606   \vspace*{50\p@}%
12607   {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
12608     \normalfont
12609     \interlinepenalty\@M
12610     \Huge \bfseries #1\par\nobreak
12611     \vskip 40\p@
12612   }}
12613 \renewcommand\left@footnoterule{%
12614   \kern-3\p@
12615   \hrule\@width.4\columnwidth
12616   \kern2.6\p@}
12617 \renewcommand\right@footnoterule{%

```



```

12618 \kern-3\p@
12619 \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
12620 \kern2.6\p@}
12621 \renewenvironment{thebibliography}[1]
12622     {\chapter*{\bibname
12623       \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}}%
12624       \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
12625       \bidi@thebibliography@font@hook%
12626       \list{\@biblabel{\@arabic\c@enumiv}}%
12627         {\settowidth\labelwidth{\@biblabel{#1}}%
12628          \leftmargin\labelwidth
12629          \advance\leftmargin\labelsep
12630          \@openbib@code
12631          \usecounter{enumiv}}%
12632          \let\p@enumiv\@empty
12633          \renewcommand\theenumiv{\@arabic\c@enumiv}}%
12634       \sloppy\clubpenalty4000\widowpenalty4000%
12635       \sfcode`.\@m}
12636     {\def\@noitemerr
12637       {\@latex@warning{Empty `thebibliography' environment}}%
12638       \endlist}
12639 \if@titlepage
12640 \renewcommand\maketitle{\begin{titlepage}%
12641 \let\footnotesize\small
12642 \let\right@footnoterule\relax
12643 \let\left@footnoterule\relax
12644 \let\textwidth\footnoterule\relax
12645 \let \footnote \thanks
12646 \null\vfil
12647 \vskip 60\p@
12648 \begin{center}%
12649   {\LARGE \@title \par}%
12650   \vskip 3em%
12651   {\large
12652     \lineskip .75em%
12653     \begin{tabular}[t]{c}%
12654       \@author
12655       \end{tabular}\par}%
12656     \vskip 1.5em%
12657     {\large \@date \par}%           % Set date in \large size.
12658 \end{center}\par
12659 \@thanks
12660 \vfil\null
12661 \end{titlepage}%
12662 \setcounter{footnote}{0}%
12663 \global\let\thanks\relax
12664 \global\let\maketitle\relax
12665 \global\let\@thanks\@empty
12666 \global\let\@author\@empty
12667 \global\let\@date\@empty
12668 \global\let\@title\@empty
12669 \global\let\title\relax
12670 \global\let\author\relax
12671 \global\let\date\relax

```



```

12672 \global\let\and\relax
12673 }
12674 \else
12675 \renewcommand\maketitle{\par
12676 \begin{group}
12677 \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
12678 \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
12679 \long\def\@makefntext##1{\parindent 1em\noindent
12680 \hb@xt@1.8em{%
12681 \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
12682 \if@twocolumn
12683 \ifnum \col@number=\@ne
12684 \maketitle
12685 \else
12686 \twocolumn[\maketitle]%
12687 \fi
12688 \else
12689 \newpage
12690 \global\@topnum\z@ % Prevents figures from going at top of page.
12691 \maketitle
12692 \fi
12693 \thispagestyle{plain}\@thanks
12694 \endgroup
12695 \setcounter{footnote}{0}%
12696 \global\let\thanks\relax
12697 \global\let\maketitle\relax
12698 \global\let\@maketitle\relax
12699 \global\let\@thanks\@empty
12700 \global\let\@author\@empty
12701 \global\let\@date\@empty
12702 \global\let\@title\@empty
12703 \global\let\title\relax
12704 \global\let\author\relax
12705 \global\let\date\relax
12706 \global\let\and\relax
12707 }
12708 \def\@maketitle{%
12709 \newpage
12710 \null
12711 \vskip 2em%
12712 \begin{center}%
12713 \let \footnote \thanks
12714 {\LARGE \@title \par}%
12715 \vskip 1.5em%
12716 {\large
12717 \lineskip .5em%
12718 \begin{tabular}[t]{c}%
12719 \@author
12720 \end{tabular}\par}%
12721 \vskip 1em%
12722 {\large \@date}%
12723 \end{center}%
12724 \par
12725 \vskip 1.5em}

```



```

12726 \fi
12727 \renewcommand\thesection      {\thechapter\@SepMark\@arabic\c@section}
12728 \renewcommand\thesubsection   {\thesection\@SepMark\@arabic\c@subsection}
12729 \renewcommand\thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
12730 \renewcommand\theparagraph     {\thesubsubsection\@SepMark\@arabic\c@paragraph}
12731 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
12732 \renewcommand\theequation{%
12733   \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@equation}
12734 \renewcommand\thefigure{%
12735   \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
12736 \renewcommand\thetable{%
12737   \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@table}

```

## 80 File fancybox-xetex-bidi.def

```

12738 \ProvidesFile{fancybox-xetex-bidi.def}[2013/05/01 v0.1 bidi adaptations for fancybox package]
12739 \def\fancy@oval#1#2#3{%
12740   \boxmaxdepth \maxdimen
12741   \@ovttrue \@ovbtrue \@ovltrue \@ovrtrue
12742   \@tfor\@tempa :=#3\do{\csname @ov\@tempa false\endcsname}%
12743   \@ovxx#1\relax
12744   \advance\@ovxx-\@wholewidth
12745   \@ovyy#2\relax
12746   \advance\@ovyy-\@wholewidth
12747   \@tempdimb \ifdim \@ovyy >\@ovxx \@ovxx\else \@ovyy \fi
12748   \advance\@tempdimb-2\p@
12749   \ifdim\@tempdimb>\the@cornersize\relax
12750     \@tempdimb=\the@cornersize
12751   \fi
12752   \@getcirc\@tempdimb
12753   \@ovro\ht\@tempboxa \@ovri\dp\@tempboxa
12754   \@ovdx\@ovxx \advance\@ovdx-\@tempdima \divide\@ovdx \tw@
12755   \@ovdy\@ovyy \advance\@ovdy-\@tempdima \divide\@ovdy \tw@
12756   \@circlefnt
12757   \setbox\@tempboxa\hbox{\beginL%
12758     \if@ovr \@ovvert32\kern -\@tempdima \fi
12759     \if@ovl \kern \@ovxx \@ovvert01\kern -\@tempdima \kern -\@ovxx \fi
12760     \if@ovt \@ovhorz \kern -\@ovxx \fi
12761     \if@ovb \raise \@ovyy \@ovhorz \fi\endL}%
12762   \advance\@ovdx\@ovro
12763   \advance\@ovdy\@ovro
12764   \advance\@ovxx\@wholewidth
12765   \wd\@tempboxa=\@ovxx
12766   \dp\@tempboxa=\z@}

```

## 81 File fancyhdr-xetex-bidi.def

```

12767 \ProvidesFile{fancyhdr-xetex-bidi.def}[2018/02/15 v0.7 bidi adaptations for fancyhdr package]
12768
12769 \let\f@nch@everypar\everypar
12770
12771 \def\f@nch@head#1#2#3#4#5{#1\hbox to\headwidth{\f@nch@reset
12772   \f@nch@vbox\headheight{\hbox
12773     {\rlap{\parbox[b]{\headwidth}{\bidi@raggedright#2}}\hfill

```



```

12774      \parbox[b]{\headwidth}{\centering#3}\hfill
12775      \llap{\parbox[b]{\headwidth}{\bidi@raggedleft#4}}\headrule}}#5}
12776
12777 \def\f@nch@foot#1#2#3#4#5{#1\hbox to\headwidth{\f@nch@reset
12778   \f@nch@vbox\footskip{\footrule
12779   \hbox{\rlap{\parbox[t]{\headwidth}{\bidi@raggedright#2}}\hfill
12780   \parbox[t]{\headwidth}{\centering#3}\hfill
12781   \llap{\parbox[t]{\headwidth}{\bidi@raggedleft#4}}}}#5}
12782

```

## 82 File fix2col-xetex-bidi.def

```

12783 \ProvidesFile{fix2col-xetex-bidi.def}[2017/05/06 v0.4 bidi adaptations for fix2col package f
12784 \def\RTL@outputdblcol{%
12785   \if@firstcolumn
12786     \global\@firstcolumnfalse
12787     \global\setbox\@leftcolumn\copy\@outputbox
12788     \splitmaxdepth\maxdimen
12789     \vbadness\maxdimen
12790     \setbox\@outputbox\vsplit\@outputbox to\maxdimen
12791     \toks@\expandafter{\topmark}%
12792     \xdef\@firstcoltopmark{\the\toks@}%
12793     \toks@\expandafter{\splitfirstmark}%
12794     \xdef\@firstcolfirstmark{\the\toks@}%
12795     \ifx\@firstcolfirstmark\empty
12796       \global\let\@setmarks\relax
12797     \else
12798       \gdef\@setmarks{%
12799         \let\firstmark\@firstcolfirstmark
12800         \let\topmark\@firstcoltopmark}%
12801     \fi
12802 \else \global\@firstcolumntrue
12803 \setbox\@outputbox \vbox {\hbox to\textwidth {%
12804 \hskip \columnwidth
12805 \hfil \vrule width\columnseprule \hfil
12806 \hbox to\columnwidth {%
12807 \bidi@firstcolumn@status@write%
12808 \box\@leftcolumn \hss}%
12809 \hskip -\textwidth
12810 \hbox to\columnwidth{%
12811 \bidi@lastcolumn@status@write%
12812 \box\@outputbox \hss}%
12813 \hskip \columnsep
12814 \hskip \columnwidth }}%
12815 \@combinedblfloats \@setmarks \@outputpage
12816 \begingroup \@dblfloatplacement \@startdblcolumn
12817 \@whiles\if@fcolmade \fi
12818 {\@outputpage \@startdblcolumn }\endgroup
12819 \fi}
12820 \def\LTR@outputdblcol{%
12821   \if@firstcolumn
12822     \global\@firstcolumnfalse
12823     \global\setbox\@leftcolumn\copy\@outputbox
12824     \splitmaxdepth\maxdimen

```



```

12825 \vbadness\maxdimen
12826 \setbox\@outputbox\vsplit\@outputbox to\maxdimen
12827 \toks@\expandafter{\topmark}%
12828 \xdef\@firstcoltopmark{\the\toks@}%
12829 \toks@\expandafter{\splitfirstmark}%
12830 \xdef\@firstcolfirstmark{\the\toks@}%
12831 \ifx\@firstcolfirstmark\@empty
12832 \global\let\@setmarks\relax
12833 \else
12834 \gdef\@setmarks{%
12835 \let\firstmark\@firstcolfirstmark
12836 \let\topmark\@firstcoltopmark}%
12837 \fi
12838 \else
12839 \global\@firstcolumntrue
12840 \setbox\@outputbox\vbox{%
12841 \hb@xt@\textwidth{%
12842 \hb@xt@\columnwidth{%
12843 \bidi@firstcolumn@status@write%
12844 \box\@leftcolumn \hss}%
12845 \hfil
12846 \vrule \@width\columnseprule
12847 \hfil
12848 \hb@xt@\columnwidth{%
12849 \bidi@lastcolumn@status@write%
12850 \box\@outputbox \hss}}}%
12851 \@combinedblfloats
12852 \@setmarks
12853 \@outputpage
12854 \begingroup
12855 \@dblfloatplacement
12856 \@startdblcolumn
12857 \@whilesw\if@colmade \fi{\@outputpage\@startdblcolumn}%
12858 \endgroup
12859 \fi}

```

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

```

12860 \ProvidesFile{fleqn-xetex-bidi.def}[2010/03/01 v0.1 bidi adaptations for fleqn tag for XeTeX]
12861 \renewcommand\{\relax
12862 \ifmmode\@badmath
12863 \else
12864 \begin{trivlist}%
12865 \beginparpenalty\predisplaypenalty
12866 \endparpenalty\postdisplaypenalty
12867 \item[]\leavevmode
12868 \hb@xt@\linewidth\group \beginL$\m@th\displaystyle %$
12869 \hskip\mathindent\group
12870 \fi}
12871 \renewcommand\{\relax
12872 \ifmmode
12873 \egroup $\hfil% $
12874 \endL\egroup
12875 \end{trivlist}%

```



```

12876             \else \@badmath
12877             \fi}
12878 \renewenvironment{equation}%
12879   {\@beginparpenalty\predisplaypenalty
12880   \@endparpenalty\postdisplaypenalty
12881   \refstepcounter{equation}%
12882   \trivlist \item[]\leavevmode
12883   \hb@xt@\linewidth\bgroup\beginL $\m@th% $
12884   \displaystyle
12885   \hskip\mathindent}%
12886   {\hfil % $
12887   \displaywidth\linewidth\hbox{\@eqnnum}%
12888   \endL\egroup
12889   \endtrivlist}

```

## 84 File float-xetex-bidi.def

```

12890 \ProvidesFile{float-xetex-bidi.def}[2013/04/04 v0.2 bidi adaptations for float package for Xe
12891 \renewcommand\floatc@plain[2]{\setbox\@tempboxa\hbox{\@fs@font #1:} #2}%
12892 \ifdim\wd\@tempboxa>\hsize {\@fs@font #1:} #2\par
12893 \else\hbox to\hsize{\if@RTL\beginR\fi\hfil\box\@tempboxa\hfil\if@RTL\endR\fi}\fi}
12894 \def\float@newx#1[#2]{\ifundefined{c@#1}{\newcounter{#1}[#2]%
12895 \expandafter\edef\csname the#1\endcsname{%
12896 \expandafter\noexpand\csname
12897 the#2\endcsname\@SepMark\noexpand\arabic{#1}}}%
12898 {\PackageWarning{float}{Can't redefine counter variable for #1.}}}

```

## 85 File floatrow-xetex-bidi.def

```

12899 \ProvidesFile{floatrow-xetex-bidi.def}[2013/04/08 v0.1 bidi adaptations for floatrow package
12900 \renewcommand\flnew@within[1]{\@addtoreset{FB@captype}{#1}%
12901 \expandafter\edef\csname theFB@captype\endcsname{%
12902 \expandafter\noexpand\csname
12903 the#1\endcsname\@SepMark\noexpand\arabic{FB@captype}}}

```

## 86 File flowfram-xetex-bidi.def

```

12904 \ProvidesFile{flowfram-xetex-bidi.def}[2018/09/29 v0.5 bidi adaptations for flowfram package
12905 \def\@outputdblcol{%
12906 \@nxtcol=\c@thisframe
12907 \c@curpg=\c@page
12908 \@g@tnextcol{\@nxtcol}%
12909 \if@ff@nwpg % next flow frame starts on new page
12910 \global\@firstcolumntrue
12911 \@setcolbox\c@thisframe
12912 \if@specialpage
12913 \global\@specialpagefalse
12914 \nameuse{ps@\@specialstyle}\relax
12915 \fi
12916 \if@twoside
12917 \ifodd\count\z@
12918 \let\@thehead\@oddhead
12919 \let\@thefoot\@oddfoot
12920 \else

```





```

12921     \let\@thehead\@evenhead
12922     \let\@thefoot\@evenfoot
12923     \fi
12924   \else
12925     \let\@thehead\@oddhead
12926     \let\@thefoot\@oddfoot
12927   \fi
12928   \@begindvi
12929   \@dodynamicthehead\@dodynamicthefoot
12930   \vbadness=\@M
12931   \setbox\@outputbox\vbox{\hbox to \textwidth{\@ff@do@allframes}}}%
12932   \@combinedblfloats
12933   \@outputpage
12934   \advance\c@curpg by -\c@page\relax
12935   \whiledo{\c@curpg>0}{\advance\c@curpg by -1\relax
12936     \setbox\@outputbox\vbox{\hbox to \textwidth{\@ff@do@allframes}}}%
12937   \@outputpage}
12938   \begingroup
12939     \dblfloatplacement
12940     \startdblcolumn
12941     \@whilesw \if@colmade \fi
12942     {\@outputpage \@startdblcolumn }\endgroup
12943   \@resetst@tics
12944   \@resetdyn@mics
12945 \else % still on same page, save contents of box255
12946   \global\@firstcolumnfalse
12947   \setcolbox\c@thisframe
12948 \fi
12949 \global\c@thisframe=\@nxtcol
12950 \@setcol{\c@thisframe}\relax
12951 \global\@colht\vsiz
12952 }
12953 \def\@outputpage{%
12954 \begingroup
12955   \let\protect\noexpand
12956   \@resetactivechars
12957   \global\let\@if@newlist@if@newlist
12958   \global\@newlistfalse\@parboxrestore
12959   \global\let\@bidi@BeforeOutputPageShipOut\@firstofone
12960   \bidi@beforeoutputpageshipouthook
12961   \shipout\vbox{\set@typeset@protect
12962     \aftergroup
12963     \endgroup
12964     \aftergroup
12965     \set@typeset@protect
12966     \reset@font\normalsize
12967     \bidi@font\@outputpage
12968     \normalsfcodes
12969     \let\label\@gobble
12970     \let\index\@gobble
12971     \let\glossary\@gobble
12972     \baselineskip\z@skip
12973     \lineskip\z@skip
12974     \lineskiplimit\z@

```



```

12975 \vskip\topmargin\moveright\@themargin
12976 \vbox{%
12977 \global\let\bidibeforeheader\@firstofone
12978 \bidibeforeheaderhook
12979 \vskip\headheight
12980 \vskip\headsep
12981 \global\let\bidibeforeoutputboxoutputpage\@firstofone
12982 \bidibeforeoutputboxoutputpagehook
12983 \box\@outputbox
12984 \global\let\bidiafteroutputboxoutputpage\@firstofone
12985 \bidiafteroutputboxoutputpagehook
12986 }%
12987 \global\let\bidiafteroutputpageshipout\@firstofone
12988 \bidiafteroutputpageshipouthook
12989 \global\let\ifnewlist\@ifnewlist
12990 \stepcounter{page}%
12991 \setcounter{displayedframe}{0}%
12992 \let\firstmark\botmark
12993 \global\let\bidiatendoutputpage\@firstofone
12994 \bidiatendoutputpagehook
12995 }
12996
12997
12998 \newcommand*\bidis@tfftextcol{\ifthenelse{\equal{\ff@txtcol}{}}{\%
12999 \expandafter\bidicolor\ff@txtcol}}
13000
13001 \newcommand{\bidiff@box}[3]{\@ffbackground{\vbox to#2
13002 {\hbext@ #1{\hss{\bidis@tfftextcol #3}\hss}\vss\kern\z@}}}%
13003
13004
13005 \renewcommand*\@docolbox}[1]{%
13006 \edef\ff@frametype{%
13007 \csname @ff@frametype@\romannumeral#1\endcsname}%
13008 \edef\ff@col{\csname @ff@col@\romannumeral#1\endcsname}%
13009 \edef\ff@txtcol{\csname @ff@txtcol@\romannumeral#1\endcsname}%
13010 \edef\ff@backcol{\csname @ff@backcol@\romannumeral#1\endcsname}%
13011 \@ff@setoffset{#1}%
13012 \rotateframe{\csname @ff@angle@\romannumeral#1\endcsname}{%
13013 \ifthenelse{\boolean{columnframe\romannumeral#1}}{\%
13014 \@ff@fbox{\csname colwidth\romannumeral#1\endcsname}%
13015 {\csname colheight\romannumeral#1\endcsname}{%
13016 \expandafter\box\csname column\romannumeral#1\endcsname}{%
13017 \csname\ff@frametype\endcsname}%
13018 }{\%
13019 \bidiff@box{\csname colwidth\romannumeral#1\endcsname}%
13020 {\csname colheight\romannumeral#1\endcsname}{%
13021 \expandafter\box\csname column\romannumeral#1\endcsname}%
13022 }}}
13023 \@ifclassloaded{book}{%
13024 \renewcommand\theequation
13025 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
13026 \renewcommand \thefigure
13027 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
13028 \renewcommand \thetable

```



```

13029      {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
13030 \renewcommand \thechapter {\@arabic\c@chapter}
13031 \renewcommand \thesection {\thechapter\@SepMark\@arabic\c@section}
13032 \renewcommand \thesubsection {\thesection\@SepMark\@arabic\c@subsection}
13033 \renewcommand \thesubsubsection {\thesubsection \@SepMark\@arabic\c@subsubsection}
13034 \renewcommand \theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
13035 \renewcommand \thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}}{}
13036 \@ifclassloaded{report}{%
13037 \renewcommand \theequation
13038   {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
13039 \renewcommand \thefigure
13040   {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
13041 \renewcommand \thetable
13042   {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
13043 \renewcommand \thechapter {\@arabic\c@chapter}
13044 \renewcommand \thesection {\thechapter\@SepMark\@arabic\c@section}
13045 \renewcommand \thesubsection {\thesection\@SepMark\@arabic\c@subsection}
13046 \renewcommand \thesubsubsection {\thesubsection \@SepMark\@arabic\c@subsubsection}
13047 \renewcommand \theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
13048 \renewcommand \thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}}{}
13049 \renewcommand {\rotateframe}[2]{\if@ttb@rotate
13050 \rotatebox{#1}{\if@RTL\beginL\fi#2\if@RTL\endL\fi}%
13051 \else
13052 #2\relax
13053 \fi}

```

## 87 File footnote-xetex-bidi.def

```

13054 \ProvidesFile{footnote-xetex-bidi.def}[2017/08/09 v1.1 bidi footnote macros for XeTeX engine]
13055 \if@RTLmain\@RTL@footnotetrue\else\@RTL@footnotefalse\fi
13056 \newif\ifbidi@autofooterule
13057 \def\bidi@mpfootnoterule{\footnoterule}
13058 \newcounter{footdir@label}
13059 \renewcommand*{\thefootdir@label}{\footdir@the\value{footdir@label}}
13060 \newcommand*{\footdir@write}{%
13061   \stepcounter{footdir@label}%
13062   \zref@labelbyprops{\thefootdir@label}{abspage}%
13063 }
13064 \newif\iffootdir@debug
13065 \newcommand*{\debugfootnotedirection}{\footdir@debugtrue}
13066 \newtoks\footdir@toks
13067 \newcommand*{\footdir@debug}[1]{%
13068   \iffootdir@debug
13069     \typeout{[footdir] #1}%
13070   \fi
13071 }
13072 %\@ifpackagelater{zref-abspage}{2012/10/27}{%
13073 %  \newcommand*{\footdir@LeftRightElse}{%
13074 %    \ltx@ifundefined{footdir@the\value{zabspage}}{%
13075 %      \footdir@debug{abspage \the\value{zabspage}: else}%
13076 %      \ltx@thirdofthree
13077 %    }{%
13078 %      \if\csname footdir@the\value{zabspage}\endcsname L%
13079 %        \footdir@debug{abspage \the\value{zabspage}: left}%

```



```

13080 %      \expandafter\ltx@firstofthree
13081 %      \else
13082 %      \footdir@debug{abspage \the\value{zabspage}: right}%
13083 %      \expandafter\ltx@secondofthree
13084 %      \fi
13085 %    }%
13086 %  }%
13087 %}%
13088 \providecommand*\c@zabspage{\c@abspage}%
13089 \newcommand*\footdir@LeftRightElse{%
13090   \footdir@write
13091   \zifrefundefined{\thefootdir@label}{%
13092     \footdir@debug{abspage ??: else}%
13093     \ltx@thirdofthree
13094   }{%
13095     \edef\footdir@abspage{%
13096       \zref@extractdefault{\thefootdir@label}{abspage}{0}%
13097     }%
13098     \ltx@ifundefined{footdir@\footdir@abspage}{%
13099       \footdir@debug{\footdir@abspage: else}%
13100       \ltx@thirdofthree
13101     }{%
13102       \if\csname footdir@\footdir@abspage\endcsname L%
13103         \footdir@debug{\footdir@abspage: left}%
13104         \expandafter\ltx@firstofthree
13105       \else
13106         \footdir@debug{\footdir@abspage: right}%
13107         \expandafter\ltx@secondofthree
13108       \fi
13109     }%
13110   }%
13111 }%
13112 %}
13113 \newcommand*\footdir@fntext}[1]{%
13114   \zifrefundefined{\thefootdir@label}{%
13115     }{%
13116       \edef\footdir@name{%
13117         footdir@\zref@extractdefault{\thefootdir@label}{abspage}{0}%
13118       }%
13119       \@ifundefined{footdir@name}{%
13120         \expandafter\gdef\csname\footdir@name\endcsname{#1}%
13121       }{}%
13122     }%
13123 }
13124
13125 \newcommand*\footdir@temp}[3]{%
13126   \@ifdefinable{#1}{%
13127     \let#1#2%
13128     \renewcommand{#2}[1]{%
13129       \footdir@write
13130       \footdir@fntext{#3}%
13131       \stepcounter{footdir@label}%
13132       \footdir@fntext{#3}%
13133       \footdir@toks{##1}%

```



```

13134 \footdir@toks\expandafter{%
13135 \the\expandafter\footdir@toks
13136 \expandafter
13137 \zref@labelbyprops\expandafter{\the\footdir@label}{abspage}%
13138 }%
13139 \expandafter#1\expandafter{\the\footdir@toks}%
13140 }%
13141 }%
13142 }
13143
13144 \def\right@footnoterule{%
13145 \kern-3\p@
13146 \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
13147 \kern2.6\p@}
13148 \def\left@footnoterule{\kern-3\p@
13149 \hrule \@width .4\columnwidth \kern 2.6\p@}
13150 \def\textwidth@footnoterule{\kern-3\p@
13151 \hrule \@width \columnwidth \kern 2.6\p@}
13152 \def\leftfootnoterule{%
13153 \bidi@autofootnoterulefalse%
13154 \def\footnoterule{\left@footnoterule}}
13155 \let\LRfootnoterule=\leftfootnoterule
13156 \def\rightfootnoterule{%
13157 \bidi@autofootnoterulefalse%
13158 \def\footnoterule{\right@footnoterule}}
13159 \def\textwidthfootnoterule{%
13160 \bidi@autofootnoterulefalse%
13161 \def\footnoterule{\textwidth@footnoterule}}
13162
13163
13164
13165 \def\auto@footnoterule{%
13166 \footdir@LeftRightElse%
13167 \left@footnoterule%
13168 \right@footnoterule%
13169 \left@footnoterule%
13170 }
13171
13172
13173
13174 \def\autofootnoterule{%
13175 \bidi@autofootnoteruletrue%
13176 \def\footnoterule{\auto@footnoterule}%
13177 }
13178
13179 \newcommand*{\SplitFootnoteRule}{%
13180 \gdef\split@prev{0}
13181 \let\pagefootnoterule\footnoterule
13182 \let\mpfootnoterule\footnoterule
13183 \def\splitfootnoterule{\kern-3\p@ \hrule \kern2.6\p@}
13184 \def\footnoterule{\relax
13185 \ifx \@listdepth\@mplistdepth
13186 \mpfootnoterule
13187 \else

```



```

13188     \ifnum\split@prev=\z@
13189     \pagefootnoterule
13190     \else
13191     \splitfootnoterule
13192     \fi
13193     \xdef\split@prev{\the\insertpenalties}%
13194 \fi
13195 }%
13196 }
13197
13198
13199
13200
13201 \def\RTLfootnote{\@ifnextchar[\@xRTLfootnote{\stepcounter\@mpfn
13202     \protected@xdef\@thefnmark{\thempfn}%
13203     \@footnotemark\@RTLfootnotetext}}
13204 \def\@xRTLfootnote[#1]{%
13205     \begingroup
13206     \csname c@\@mpfn\endcsname #1\relax
13207     \unrestored@protected@xdef\@thefnmark{\thempfn}%
13208     \endgroup
13209     \@footnotemark\@RTLfootnotetext}
13210 \def\LTRfootnote{\@ifnextchar[\@xLTRfootnote{\stepcounter\@mpfn
13211     \protected@xdef\@thefnmark{\thempfn}%
13212     \@footnotemark\@LTRfootnotetext}}
13213 \def\@xLTRfootnote[#1]{%
13214     \begingroup
13215     \csname c@\@mpfn\endcsname #1\relax
13216     \unrestored@protected@xdef\@thefnmark{\thempfn}%
13217     \endgroup
13218     \@footnotemark\@LTRfootnotetext}
13219
13220
13221 \def\setfootnoteRL{\@RTL@footnotetrue}
13222 \def\unsetfootnoteRL{\@RTL@footnotefalse}
13223 \def\setfootnoteLR{\unsetfootnoteRL}
13224
13225 \newcommand*{\bidi@footnotetext@font}{\footnotesize}
13226 \newcommand*{\bidi@LTRfootnotetext@font}{\footnotesize}
13227 \newcommand*{\bidi@RTLfootnotetext@font}{\footnotesize}
13228
13229 \long\def\@footnotetext#1{\insert\footins{%
13230     \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
13231     \reset@font%
13232     \bidi@footnotetext@font% \reset@font\footnotesize
13233     \interlinepenalty\interfootnotelinepenalty
13234     \splittopskip\footnotesep
13235     \splitmaxdepth \dp\strutbox \floatingpenalty \@MM
13236     \hsize\columnwidth \@parboxrestore
13237     \protected@edef\@currentlabel{%
13238         \csname p@footnote\endcsname\@thefnmark
13239     }%
13240     \color@begingroup
13241     \@makefnintext{%

```



```

13242      \rule{z@}{\footnotesep\ignorespaces#1}{\finalstrut\strutbox}}%
13243      \color@endgroup}}%
13244
13245
13246 \long\def\@RTLfootnotetext#1{\insert\footins{%
13247   \RTLtrue%
13248   \reset@font%
13249   \bidi@RTLfootnotetext@font% \reset@font\footnotesize
13250   \interlinepenalty\interfootnotelinepenalty
13251   \splittopskip\footnotesep
13252   \splitmaxdepth \dp\strutbox \floatingpenalty \MM
13253   \hsize\columnwidth \@parboxrestore
13254   \protected@edef\@currentlabel{%
13255     \csname p@footnote\endcsname\@thefnmark
13256   }%
13257   \color@begingroup
13258   \@makefntext{%
13259     \rule{z@}{\footnotesep\ignorespaces#1}{\finalstrut\strutbox}}%
13260   \color@endgroup}}%
13261
13262 \long\def\@LTRfootnotetext#1{\insert\footins{%
13263   \RTLfalse%
13264   \reset@font%
13265   \bidi@LTRfootnotetext@font% \reset@font\footnotesize
13266   \interlinepenalty\interfootnotelinepenalty
13267   \splittopskip\footnotesep
13268   \splitmaxdepth \dp\strutbox \floatingpenalty \MM
13269   \hsize\columnwidth \@parboxrestore
13270   \protected@edef\@currentlabel{%
13271     \csname p@footnote\endcsname\@thefnmark
13272   }%
13273   \color@begingroup
13274   \@makefntext{%
13275     \rule{z@}{\footnotesep\ignorespaces#1}{\finalstrut\strutbox}}%
13276   \color@endgroup}}%
13277
13278 \AtBeginDocument{%
13279 \if@RTL@footnote
13280   \newcommand*{\bidi@footdir@footnote}{R}
13281 \else
13282   \newcommand*{\bidi@footdir@footnote}{L}
13283 \fi%
13284 }
13285
13286 \footdir@temp\footdir@ORG@bidi@footnotetext\@footnotetext{\bidi@footdir@footnote}%
13287 \footdir@temp\footdir@ORG@bidi@RTLfootnotetext\@RTLfootnotetext{R}%
13288 \footdir@temp\footdir@ORG@bidi@LTRfootnotetext\@LTRfootnotetext{L}%
13289
13290 \long\def\@mpRTLfootnotetext#1{%
13291   \ifbidi@autofooterule\ifnum\c@mpfootnote=\@ne\global\let\bidi@mpfootnoterule\right@foot
13292   \global\setbox\@mpfootins\vbox{\RTLtrue%
13293     \unvbox\@mpfootins
13294     \reset@font%
13295     \bidi@RTLfootnotetext@font% \reset@font\footnotesize

```



```

13296 \hsize\columnwidth
13297 \@parboxrestore
13298 \protected@edef\@currentlabel
13299 {\csname p@mpfootnote\endcsname\@thefnmark}%
13300 \color@begingroup
13301 \makefnintext{%
13302 \rule{z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}%
13303 \color@endgroup}}
13304 \long\def\@mpLTRfootnotetext#1{%
13305 \ifbidi@autofootnoterule\ifnum\c@mpfootnote=\@ne\global\let\@bidi@mpfootnoterule\left@footnoterule
13306 \global\setbox\@mpfootins\vbox{\@RTLfalse%
13307 \unvbox\@mpfootins
13308 \reset@font%
13309 \bidi@@LTRfootnotetext@font% \reset@font\footnotesize
13310 \hsize\columnwidth
13311 \@parboxrestore
13312 \protected@edef\@currentlabel
13313 {\csname p@mpfootnote\endcsname\@thefnmark}%
13314 \color@begingroup
13315 \makefnintext{%
13316 \rule{z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}%
13317 \color@endgroup}}
13318 \long\def\@mpfootnotetext#1{%
13319 \ifbidi@autofootnoterule\ifnum\c@mpfootnote=\@ne\if@RTL@footnote\global\let\@bidi@mpfootnoterule\left@footnoterule
13320 \global\setbox\@mpfootins\vbox{\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
13321 \unvbox\@mpfootins
13322 \reset@font%
13323 \bidi@@footnotetext@font% \reset@font\footnotesize
13324 \hsize\columnwidth
13325 \@parboxrestore
13326 \protected@edef\@currentlabel
13327 {\csname p@mpfootnote\endcsname\@thefnmark}%
13328 \color@begingroup
13329 \makefnintext{%
13330 \rule{z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}%
13331 \color@endgroup}}
13332 \def\@iiminipage#1#2[#3]#4{%
13333 \leavevmode
13334 \@pboxswfalse
13335 \if@hboxRconstruct\@bidi@list@minipage@parbox@not@nobtrue\fi
13336 \if@RTL\if#1t\@bidi@list@minipage@parboxtrue\else\if#1b\@bidi@list@minipage@parboxtrue\fi%
13337 \setlength\@tempdima{#4}%
13338 \def\@mpargs{{#1}{#2}{#3}{#4}}%
13339 \setbox\@tempboxa\vbox\bgroup
13340 \color@begingroup
13341 \hsize\@tempdima
13342 \textwidth\hsize \columnwidth\hsize
13343 \@parboxrestore
13344 \def\@mpfn{mpfootnote}\def\@thempfn{\thempfootnote}\c@mpfootnote\z@
13345 \let\@footnotetext\@mpfootnotetext
13346 \let\@LTRfootnotetext\@mpLTRfootnotetext
13347 \let\@RTLfootnotetext\@mpRTLfootnotetext
13348 \let\@listdepth\@mplistdepth \@mplistdepth\z@
13349 \@minipagerestore

```





```

13350      \@setminipage}
13351 \def\endminipage{%
13352     \par
13353     \unskip
13354     \ifvoid\@mpfootins\else
13355       \vskip\skip\@mpfootins
13356       \normalcolor
13357       \bidi@mpfootnoterule
13358       \unvbox\@mpfootins
13359     \fi
13360     \@minipagefalse    %% added 24 May 89
13361 \color@endgroup
13362 \egroup
13363 \expandafter\@iiiparbox\@mpargs{\unvbox\@tempboxa}}
13364 \def\LTRthanks#1{\footnotemark
13365   \protected@xdef\@thanks{\@thanks
13366     \protect\LTRfootnotetext[\the\c@footnote]{#1}}%
13367 }
13368 \def\LTRfootnotetext{%
13369   \@ifnextchar [\@xLTRfootnotenext
13370     {\protected@xdef\@thefnmark{\thempfn}%
13371     \@LTRfootnotetext}}
13372 \def\@xLTRfootnotenext[#1]{%
13373   \begingroup
13374     \csname c@\@mpfn\endcsname #1\relax
13375     \unrestored@protected@xdef\@thefnmark{\thempfn}%
13376   \endgroup
13377   \@LTRfootnotetext}
13378 \def\RTLthanks#1{\footnotemark
13379   \protected@xdef\@thanks{\@thanks
13380     \protect\RTLfootnotetext[\the\c@footnote]{#1}}%
13381 }
13382 \let\@thanks\@empty
13383 \def\RTLfootnotetext{%
13384   \@ifnextchar [\@xRTLfootnotenext
13385     {\protected@xdef\@thefnmark{\thempfn}%
13386     \@RTLfootnotetext}}
13387 \def\@xRTLfootnotenext[#1]{%
13388   \begingroup
13389     \csname c@\@mpfn\endcsname #1\relax
13390     \unrestored@protected@xdef\@thefnmark{\thempfn}%
13391   \endgroup
13392   \@RTLfootnotetext}
13393 \leftfootnoterule

```

## 88 File footnotebackref-xetex-bidi.def

```

13394 \ProvidesFile{footnotebackref-xetex-bidi.def}[2022/02/18 v0.1 bidi adaptations for footnote]
13395 \LetLtxMacro{\BHFN@OldLTRFootnote}{\LTRfootnote}
13396 \LetLtxMacro{\BHFN@OldRTLFootnote}{\RTLfootnote}
13397
13398 \renewcommand*\LTRfootnote{%
13399   \refstepcounter{BackrefHyperFootnoteCounter}%
13400   \edef\BackrefFootnoteTag{bhfn:\theBackrefHyperFootnoteCounter}%

```



```

13401 \label{\BackrefFootnoteTag}%
13402 \@ifnextchar [\Backref@OptLTRHyperFootnote\Backref@HyperLTRFootnote}
13403
13404 \renewcommand*\RTLfootnote{%
13405 \refstepcounter{BackrefHyperFootnoteCounter}%
13406 \edef\BackrefFootnoteTag{bhfn:\theBackrefHyperFootnoteCounter}%
13407 \label{\BackrefFootnoteTag}%
13408 \@ifnextchar [\Backref@OptRTLHyperFootnote\Backref@HyperRTLFootnote}
13409 \newcommand\Backref@HyperLTRFootnote[1]{%
13410 \BHFN@OldLTRFootnote{\Backref@HyperSymbol#1}}
13411
13412 \newcommand\Backref@HyperRTLFootnote[1]{%
13413 \BHFN@OldRTLFootnote{\Backref@HyperSymbol#1}}
13414
13415 \newcommand\Backref@OptHyperLTRFootnote[2][\empty]{%
13416 \BHFN@OldLTRFootnote[#1]{\Backref@HyperSymbol#2}}
13417
13418 \newcommand\Backref@OptHyperRTLFootnote[2][\empty]{%
13419 \BHFN@OldRTLFootnote[#1]{\Backref@HyperSymbol#2}}
13420
13421 \bidi@AfterFile{extrafootnotefeatures-xetex-bidi.def}{%
13422 \ifFootnoteBackref@numberlinked
13423 \renewcommand{\footfootmark}{%
13424 \ifdim\footmarkwidth < \z@
13425 \llap{\hb@xt@ -\footmarkwidth{%
13426 \hss\normalfont\footscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}%
13427 \hspace*{-\footmarkwidth}}}%
13428 \else
13429 \ifdim\footmarkwidth = \z@
13430 {\normalfont\footscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}%
13431 \else
13432 \hb@xt@\footmarkwidth{\hss\normalfont\footscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}
13433 \fi
13434 \fi}
13435 \renewcommand{\LTRfootfootmark}{%
13436 \ifdim\footmarkwidth < \z@
13437 \llap{\hb@xt@ -\footmarkwidth{%
13438 \hss\normalfont\LTRfootscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}%
13439 \hspace*{-\footmarkwidth}}}%
13440 \else
13441 \ifdim\footmarkwidth = \z@
13442 {\normalfont\LTRfootscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}%
13443 \else
13444 \hb@xt@\footmarkwidth{\hss\normalfont\LTRfootscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}
13445 \fi
13446 \fi}
13447 \renewcommand{\RTLfootfootmark}{%
13448 \ifdim\footmarkwidth < \z@
13449 \llap{\hb@xt@ -\footmarkwidth{%
13450 \hss\normalfont\RTLfootscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}%
13451 \hspace*{-\footmarkwidth}}}%
13452 \else
13453 \ifdim\footmarkwidth = \z@
13454 {\normalfont\RTLfootscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}%

```



```

13455     \else
13456         \hb@xt@\footmarkwidth{\hss\normalfont\RTLfootscript{\hyperref[\BackrefFootnoteTag]{\@
13457     \fi
13458 \fi}
13459 \fi
13460 }

```

## 89 File framed-xetex-bidi.def

```

13461 \ProvidesFile{framed-xetex-bidi.def}[2012/06/05 v0.3 bidi adaptations for framed package for
13462 \renewcommand\TitleBarFrame[3][]{\begingroup
13463 \ifx\delimiter#1\delimiter
13464 \let\TF@conlab\@empty
13465 \else
13466 \def\TF@conlab{% continuation label
13467 \nointerlineskip
13468 \smash{\rlap{\kern\wd\@tempboxa\kern\fb@rule\kern\fb@sep #1}}}%
13469 \fi
13470 %\let\TF@savecolor\current@color
13471 \textcolor{TF@FrameColor}{%
13472 \CustomFBox
13473 {\TF@Title{#2}}{\TF@conlab}%
13474 \fb@rule\fb@rule\fb@rule\fb@rule
13475 %{\let\current@color\TF@savecolor\set@color #3}%
13476 {\normalcolor #3}%
13477 }\endgroup
13478 }
13479 \renewenvironment{titled-frame}[1]{%
13480 \def\FrameCommand{\fb@sep8pt\fb@rule2pt
13481 \TitleBarFrame{\textbf{#1}}}%
13482 \def\FirstFrameCommand{\fb@sep8pt\fb@rule2pt
13483 \TitleBarFrame[{\if@RTL\blacktriangleleft\else\blacktriangleright\fi}]{\textbf{#1}}}%
13484 \def\MidFrameCommand{\fb@sep8pt\fb@rule2pt
13485 \TitleBarFrame[{\if@RTL\blacktriangleleft\else\blacktriangleright\fi}]{\textbf{#1} (con
13486 \def\LastFrameCommand{\fb@sep8pt\fb@rule2pt
13487 \TitleBarFrame{\textbf{#1} (cont)}}}%
13488 \MakeFramed{\advance\hsize-20pt \FrameRestore}}%
13489 % note: 8 + 2 + 8 + 2 = 20. Don't use \width because the frame title
13490 % could interfere with the width measurement.
13491 {\endMakeFramed}
13492 \chardef\FrameRestore=\catcode`\| % for debug
13493 \catcode`\|=\catcode`\% % (debug: insert space after backslash)
13494 \def\fb@put@frame#1#2{\relax
13495 \ifdim\pagegoal=\maxdimen \pagegoal\vspace \fi
13496 | \message{===== Entering putframe =====}^J
13497 | \pagegoal=\the\pagegoal, \pagetotal=\the\pagetotal.}%
13498 \ifinner
13499 \fb@putboxa#1%
13500 \fb@afterframe
13501 \else
13502 \dimen@\pagegoal \advance\dimen@-\pagetotal % natural space left on page
13503 \ifdim\dimen@<2\baselineskip % Too little room on page
13504 | \message{Page has only \the\dimen@space room left; eject.}%
13505 \eject \fb@adjheight \fb@put@frame#1#2%

```



```

13506 \else % there's appreciable room left on the page
13507 \fb@sizeofframe#1%
13508 | \message{\string\pagetotal=\the\pagetotal,
13509 | \string\pagegoal=\the\pagegoal,
13510 | \string\pagestretch=\the\pagestretch,
13511 | \string\pageshrink=\the\pageshrink,
13512 | \string\fb@frh=\the\fb@frh. \space}
13513 | \message{^^JBox of size \the\ht\@tempboxa\space}%
13514 \begingroup % temporarily set \dimen@ to be...
13515 \advance\dimen@.8\pageshrink % maximum space available on page
13516 \advance\dimen@-\fb@frh\relax % max space available for frame's contents
13517 %%% LOOKS SUBTRACTED AND ADDED, SO DOUBLE ACCOUNTING!
13518 \expandafter\endgroup
13519 % expand \ifdim, then restore \dimen@ to real room left on page
13520 \ifdim\dimen@>\ht\@tempboxa % whole box does fit
13521 | \message{fits in \the\dimen@. }%
13522 % ToDo: Change this to use vsplit anyway to capture the marks
13523 % MERGE THIS WITH THE else CLAUSE!!!
13524 \fb@putboxa#1%
13525 \fb@afterframe
13526 \else % box must be split
13527 | \message{must be split to fit in \the\dimen@. }%
13528 % update frame measurement to use \FirstFrameCommand or \MidFrameCommand
13529 \fb@sizeofframe#2%
13530 \setbox\@tempboxa\vbox{% simulate frame and flexibility of the page:
13531 | \vskip \fb@frh \@plus\pagestretch \@minus.8\pageshrink
13532 | \kern137sp\kern-137sp\penalty-30
13533 | \unvbox\@tempboxa}%
13534 \edef\fb@resto@set{\boxmaxdepth\the\boxmaxdepth
13535 | \splittopskip\the\splittopskip}%
13536 \boxmaxdepth\z@ \splittopskip\z@
13537 | \message{^^JPadded box of size \the\ht\@tempboxa\space split to \the\dimen@}%
13538 % Split box here
13539 \setbox\tw@vsplit\@tempboxa to\dimen@
13540 | \toks99\expandafter{\splitfirstmark}%
13541 | \toks98\expandafter{\splitbotmark}%
13542 | \message{Marks are: \the\toks99, \the\toks98. }%
13543 \setbox\tw@\vbox{\unvbox\tw@}% natural-sized
13544 | \message{Natural height of split box is \the\ht\tw@, leaving
13545 | \the\ht\@tempboxa\space remainder. }%
13546 % If the split-to size > (\vsize-\topskip), then set box to full size.
13547 \begingroup
13548 \advance\dimen@\topskip
13549 \expandafter\endgroup
13550 \ifdim\dimen@>\pagegoal
13551 | \message{Frame is big -- Use up the full column. }%
13552 \dimen@ii\pagegoal
13553 \advance\dimen@ii -\topskip
13554 \advance\dimen@ii \FrameHeightAdjust\relax
13555 \else % suspect this is implemented incorrectly:
13556 % If the split-to size > feasible room_on_page, rebox it smaller.
13557 \advance\dimen@.8\pageshrink
13558 \ifdim\ht\tw@>\dimen@
13559 | \message{Box too tall; rebox it to \the\dimen@. }%

```



```

13560         \dimen@ii\dimen@
13561         \else % use natural size
13562             \dimen@ii\ht\tw@
13563         \fi
13564     \fi
13565     % Re-box contents to desired size \dimen@ii
13566     \advance\dimen@ii -\fb@frh
13567     \setbox\tw@\vbox to\dimen@ii \bgroup
13568     % remove simulated frame and page flexibility:
13569     \vskip -\fb@frh \@plus-\pagestretch \@minus-.8\pageshrink
13570     \unvbox\tw@ \unpenalty\unpenalty
13571     \ifdim\lastkern=-137sp % whole box went to next page
13572 |         \message{box split at beginning! }%
13573         % need work here???
13574         \egroup \fb@resto@set \eject % (\vskip for frame size was discarded)
13575         \fb@adjheight
13576         \fb@put@frame#1#2% INSERTED ???
13577     \else % Got material split off at the head
13578         \egroup \fb@resto@set
13579         \ifvoid\@tempboxa % it all fit after all
13580 |         \message{box split at end! }%
13581         \setbox\@tempboxa\box\tw@
13582         \fb@putboxa#1%
13583         \fb@afterframe
13584     \else % it really did split
13585 |         \message{box split as expected. Its reboxed height is \the\ht\tw@. }%
13586         \ifdim\wd\tw@>\z@
13587             \wd\tw@\wd\@tempboxa
13588             \centerline{#2{\hboxL{\box\tw@}}}% ??? \centerline bad idea
13589         \else
13590 |         \message{Zero width means likely blank. Don't frame it (guess)}%
13591         \box\tw@
13592         \fi
13593         \hrule \@height\z@ \@width\hsize
13594         \eject
13595         \fb@adjheight
13596         \fb@put@frame\LastFrameCommand\MidFrameCommand
13597     \fi\fi\fi\fi\fi
13598 }
13599 \def\fb@putboxa#1{%
13600     \ifvoid\@tempboxa
13601         \PackageWarning{framed}{Boxa is void -- discard it. }%
13602     \else
13603 |         \message{Frame and place boxa. }%
13604 |         %{\showoutput\showbox\@tempboxa}%
13605         \centerline{#1{\hboxL{\box\@tempboxa}}}%
13606     \fi
13607 }
13608 \catcode`\|=\FrameRestore
13609 \def\FrameRestore{%
13610     \let\if@nobreak\iffalse
13611     \let\if@noskipsec\iffalse
13612     \let\-\@dischph
13613     \let'\@acci\let\` \@accii\let\=\@acciii

```



```

13614 % \message{FrameRestore:
13615 % \totalleftmargin=\the \totalleftmargin,
13616 % \rightmargin=\the\rightmargin,
13617 % \listdepth=\the\listdepth. }%
13618 % Test if we are in a list (or list-like paragraph)
13619 \ifnum \ifdim\totalleftmargin>\z@ 1\fi
13620 \ifdim\rightmargin>\z@ 1\fi
13621 \ifnum\listdepth>\z@ 1\fi 0>\z@
13622 % \message{In a list: \linewidth=\the\linewidth, \totalleftmargin=\the\totalleftmargin,
13623 % \parshape=\the\parshape, \columnwidth=\the\columnwidth, \hsize=\the\hsize,
13624 % \labelwidth=\the\labelwidth. }%
13625 \setminipage % snug fit around the item
13626 % Now try to propagate changes of width from \hsize to list parameters.
13627 % This is deficient, but a more advanced way to indicate modification to text
13628 % dimensions is not (yet) provided; in particular, no separate left/right
13629 % adjustment.
13630 \advance\linewidth-\columnwidth \advance\linewidth\hsize
13631 \parshape\@ne \totalleftmargin \linewidth
13632 \else % Not in list
13633 \linewidth=\hsize
13634 %\message{No list, set \string\linewidth=\the\hsize. }%
13635 \fi
13636 \sloppy
13637 }

```

## 90 File ftnright-xetex-bidi.def

```

13638 \ProvidesFile{ftnright-xetex-bidi.def}[2018/09/29 v0.6 bidi adaptations for ftnright package]
13639
13640 \def\prepare@bidi@copyins{%
13641 \global\bidi@rcol@copyinsskip\skip\@bidi@copyins@
13642 \global\skip\@bidi@copyins@\z@
13643 \global\count\@bidi@copyins@\z@
13644 \global\dimen\@bidi@copyins@\textheight}
13645
13646 \newskip\bidi@rcol@copyinsskip
13647
13648 \def\LTR@outputdblcol{%
13649 \if@firstcolumn
13650 \global\@firstcolumnfalse
13651 \global\setbox\@leftcolumn\copy\@outputbox
13652 \global\count\footins\@m
13653 \global\skip\footins\rcol@footinsskip
13654 \global\count\@bidi@copyins@\@m
13655 \global\skip\@bidi@copyins@\bidi@rcol@copyinsskip
13656 \splitmaxdepth\maxdimen
13657 \vbadness\maxdimen
13658 \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
13659 \setbox\@outputbox\vsplit\@outputbox to\maxdimen
13660 \toks@ \expandafter{\topmark}%
13661 \xdef\@firstcoltopmark{\the\toks@}%
13662 \toks@ \expandafter{\splitfirstmark}%
13663 \xdef\@firstcolfirstmark{\the\toks@}%
13664 \ifx\@firstcolfirstmark\@empty

```



```

13665     \global\let\@setmarks\relax
13666   \else
13667     \gdef\@setmarks{%
13668       \let\firstmark\@firstcolfirstmark
13669       \let\topmark\@firstcoltopmark}%
13670   \fi
13671 \else
13672   \preparefootins
13673   \prepare@bidi@copyins
13674   \global\@firstcolumntrue
13675   \setbox\@outputbox\vbox{%
13676     \hb@xt@\textwidth{%
13677       \hb@xt@\columnwidth{%
13678         \bidi@firstcolumn@status@write%
13679         \box\@leftcolumn \hss}%
13680       \hfil
13681       {\normalcolor\vrule \@width\columnseprule}%
13682       \hfil
13683       \hb@xt@\columnwidth{%
13684         \bidi@lastcolumn@status@write%
13685         \box\@outputbox \hss}}}%
13686   \@combinedblfloats
13687   \@setmarks
13688   \@outputpage
13689   \begingroup
13690     \@dblfloatplacement
13691     \@startdblcolumn
13692     \@whilesw@if@fcolmade \fi{\@outputpage
13693       \@startdblcolumn}%
13694   \endgroup
13695 \fi}%
13696
13697 \def\RTL@outputdblcol{%
13698   \if@firstcolumn
13699     \global\@firstcolumnfalse
13700     \global\setbox\@leftcolumn\copy\@outputbox
13701     \global\count\footins\@m
13702     \global\skip\footins\rcol@footinsskip
13703     \global\count\@bidi@copyins\@m
13704     \global\skip\@bidi@copyins\@bidi@rcol@copyinsskip
13705     \splitmaxdepth\maxdimen
13706     \vbadness\maxdimen
13707     \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
13708     \setbox\@outputbox\vsplit\@outputbox to\maxdimen
13709     \toks@\expandafter{\topmark}%
13710     \xdef\@firstcoltopmark{\the\toks@}%
13711     \toks@\expandafter{\splitfirstmark}%
13712     \xdef\@firstcolfirstmark{\the\toks@}%
13713     \ifx\@firstcolfirstmark\@empty
13714       \global\let\@setmarks\relax
13715     \else
13716       \gdef\@setmarks{%
13717         \let\firstmark\@firstcolfirstmark
13718         \let\topmark\@firstcoltopmark}%

```



```

13719 \fi
13720 \else
13721 \preparefootins
13722 \prepare@bidi@copyins
13723 \global\@firstcolumntrue
13724 \setbox\@outputbox\vbox{%
13725 \hb@xt@\textwidth{%
13726 \hskip \columnwidth
13727 \hfil
13728 {\normalcolor\vrule \@width\columnseprule}%
13729 \hfil
13730 \hb@xt@\columnwidth{%
13731 \bidi@firstcolumn@status@write%
13732 \box\@leftcolumn \hss}%
13733 \hskip -\textwidth
13734 \hb@xt@\columnwidth{%
13735 \bidi@lastcolumn@status@write%
13736 \box\@outputbox \hss}%
13737 \hskip \columnsep
13738 \hskip \columnwidth }}%
13739 \@combinedblfloats
13740 \@setmarks
13741 \@outputpage
13742 \begingroup
13743 \@dblfloatplacement
13744 \@startdblcolumn
13745 \@whiles\if@colmade \fi{\@outputpage
13746 \@startdblcolumn}}%
13747 \endgroup
13748 \fi}%
13749
13750 \def\@startcolumn{%
13751 \ifx\@deferlist\@empty
13752 \global\@fcolmadefalse
13753 \global\@colroom\@colht
13754 \else
13755 \ifvoid\footins\else
13756 \ftn@amount\ht\footins
13757 \advance\ftn@amount\dp\footins
13758 \advance\ftn@amount\skip\footins
13759 \fi
13760 \ifvoid\@bidi@copyins\else
13761 \bidi@copyins@amount\ht\@bidi@copyins@
13762 \advance\bidi@copyins@amount\dp\@bidi@copyins@
13763 \advance\bidi@copyins@amount\skip\@bidi@copyins@
13764 \fi
13765 \global\advance\@colht-\ftn@amount
13766 \global\advance\@colht-\bidi@copyins@amount
13767 \global\@colroom\@colht
13768 \xstartcol
13769 \global\advance\@colht\ftn@amount
13770 \global\advance\@colroom\ftn@amount
13771 \global\advance\@colht\bidi@copyins@amount
13772 \global\advance\@colroom\bidi@copyins@amount

```





```

13773 \fi
13774 \if@fcolmade
13775 \setbox\@cclv\box\@outputbox
13776 \@makecol
13777 \else
13778 \ifvoid\footins\else
13779 \insert\footins{\unvbox\footins}\fi
13780 \ifvoid\@bidi@copyins@\else
13781 \insert\@bidi@copyins@{\unvbox\@bidi@copyins@}\fi
13782 \fi}
13783
13784 \newdimen\@bidi@copyins@amount
13785
13786 \def\@makecol{\if@firstcolumn
13787 \setbox\@outputbox\box\@cclv
13788 \if@twocolumn \else
13789 \ifvoid\footins \else
13790 \@latexerr{ftnright package
13791 used in one-column mode}%
13792 {The ftnright package was designed to
13793 work with LaTeX's standard^^Jtwocolumn
13794 option. It does *not* work with the
13795 multicol package.^^JSo please specify
13796 `twocolumn' in the
13797 \noexpand\documentclass command.}%
13798 \shipout\box\footins \fi
13799 \ifvoid\@bidi@copyins@ \else
13800 \@latexerr{ftnright package
13801 used in one-column mode}%
13802 {The ftnright package was designed to
13803 work with LaTeX's standard^^Jtwocolumn
13804 option. It does *not* work with the
13805 multicol package.^^JSo please specify
13806 `twocolumn' in the
13807 \noexpand\documentclass command.}%
13808 \shipout\box\@bidi@copyins@ \fi\fi
13809 \ifnum\insertpenalties>\z@
13810 \@latexerr{ftnright package
13811 scrambled footnotes}%
13812 {There is too much footnote material in
13813 the first column and ftnright^^Jis
13814 unable to cope with this.^^JYou need
13815 to reduce the amount to get a properly
13816 formatted page.}%
13817 \fi
13818 \else
13819 \ifvoid\footins
13820 \ifvoid\@bidi@copyins@
13821 \setbox\@outputbox\box\@cclv
13822 \else
13823 \setbox\@outputbox\vbox
13824 {\ifvoid\@cclv \else
13825 \unvbox\@cclv
13826 \vskip \skip\@bidi@copyins@

```



```

13827         \fi
13828         \color@begingroup
13829         \normalcolor
13830         \unvbox \@bidi@copyins@
13831         \color@endgroup}%
13832     \fi
13833 \else
13834     \setbox\@outputbox\vbox
13835     {\ifvoid\@cclv \else
13836       \unvbox\@cclv
13837       \vskip\skip\footins\fi
13838       \color@begingroup
13839       \normalcolor
13840       \footnoterule\unvbox\footins
13841       \color@endgroup
13842       \ifvoid\@bidi@copyins@
13843       \else
13844         \vskip \skip\@bidi@copyins@
13845         \color@begingroup
13846         \normalcolor
13847         \unvbox \@bidi@copyins@
13848         \color@endgroup
13849       \fi
13850     }%
13851 \fi
13852 \fi
13853 \xdef\@freelist{\@freelist\@midlist}%
13854 \global \let \@midlist \@empty
13855 \@combinefloats
13856 \ifvbox\@kludgeins
13857   \@makespecialcolbox
13858 \else
13859   \setbox\@outputbox\vbox to\@colht
13860   {\boxmaxdepth\maxdepth
13861    \@texttop
13862    \@tempdima\dp\@outputbox
13863    \unvbox\@outputbox
13864    \vskip-\@tempdima
13865    \@textbottom}%
13866 \fi
13867 \global\maxdepth\@maxdepth}
13868
13869 \let\leftfootnoterule\@empty
13870 \let\rightfootnoterule\@empty
13871 \let\textwidthfootnoterule\@empty
13872 \let\autofootnoterule\@empty
13873 \let\footnoterule\@empty
13874 \long\def\@makefntext#1{\parindent 1em
13875   \noindent\hbox to 2em{}%
13876   \llap{\@thefnmark\hbox{.}\,\,\,}#1}
13877
13878 \setlength{\skip\@bidi@copyins@}
13879   {10pt plus 5pt minus 3pt}
13880 \AtBeginDocument{\prepare@bidi@copyins}

```



## 91 File graphicx-xetex-bidi.def

```

13881 \ProvidesFile{graphicx-xetex-bidi.def}[2017/06/17 v0.5 bidi adaptations for graphicx package]
13882 \def\Grot@box@std#1#2{\ifmmode\else\ifRTL\beginL\fi\fi%
13883   \Grot@setangle{#1}%
13884   \setbox\z@\hbox{\ifmmode\ifRTL\beginR\fi#2\ifRTL\endR\fi\else\ifRTL\beginR\fi#2\ifRTL
13885   \Grot@x\z@
13886   \Grot@y\z@
13887   \Grot@box\ifmmode\else\ifRTL\endL\fi\fi}
13888 \long\def\Grot@box@kv[#1]#2#3{\ifmmode\else\ifRTL\beginL\fi\fi%
13889   \@begin@tempboxa\hbox{\ifmmode\ifRTL\beginR\fi#3\ifRTL\endR\fi\else\ifRTL\beginR\fi#3\i
13890   \Grot@x\width \divide\Grot@x\tw@
13891   \Grot@y\height \advance\Grot@y-\depth \divide\Grot@y\tw@
13892   \setkeys{Grot}{#1}%
13893   \setbox\z@\box\@tempboxa
13894   \Grot@setangle{#2}%
13895   \Grot@box\ifmmode\else\ifRTL\endL\fi\fi
13896   \@end@tempboxa}
13897 \long\def\Gscale@box#1[#2]#3{\ifmmode\else\ifRTL\beginL\fi\fi%
13898   \leavevmode
13899   \def\Gscale@x{#1}\def\Gscale@y{#2}%
13900   \setbox\z@\hbox{\{#3\}}%
13901   \setbox\tw@\hbox{\Gscale@start\rlap{\copy\z@}\Gscale@end}%
13902   \ifdim#2\p@<\z@
13903     \ht\tw@-#2\dp\z@
13904     \dp\tw@-#2\ht\z@
13905   \else
13906     \ht\tw@#2\ht\z@
13907     \dp\tw@#2\dp\z@
13908   \fi
13909   \ifdim#1\p@<\z@
13910     \hb@xt@-#1\wd\z@{\kern-#1\wd\z@\box\tw@\hss}%
13911   \else
13912     \wd\tw@#1\wd\z@
13913     \box\tw@
13914   \fi\ifmmode\else\ifRTL\endL\fi\fi}
13915 \def\Gin@iii[#1,#2][#3,#4]#5{%
13916   \begingroup
13917   \ifmmode\else\ifRTL\beginL\fi\fi
13918   \Gin@bboxtrue
13919   \Gin@defaultbp\Gin@llx{#1}%
13920   \Gin@defaultbp\Gin@lly{#2}%
13921   \Gin@defaultbp\Gin@urx{#3}%
13922   \Gin@defaultbp\Gin@ury{#4}%
13923   \Gin@include@graphics{#5}%
13924   \ifmmode\else\ifRTL\endL\fi\fi
13925   \endgroup}
13926 \def\Gin@ii[#1]#2{%
13927   \def\@tempa{[]}\def\@tempb{#2}%
13928   \ifx\@tempa\@tempb
13929     \def\@tempa{\Gin@iii[#1] []}%
13930     \expandafter\@tempa
13931   \else
13932     \begingroup

```



```

13933     \ifmmode\else\if@RTL\beginL\fi\fi
13934     \@tempswafalse
13935     \toks@{\Ginclude@graphics{#2}}%
13936     \setkeys{Gin}{#1}%
13937     \Gin@esetsize
13938     \the\toks@
13939     \ifmmode\else\if@RTL\endL\fi\fi
13940     \endgroup
13941     \fi}
13942 \def\reflectbox{\bidiGscale@box-1[1]}
13943 \long\def\bidiGscale@box#1[#2]#3{\ifmmode\else\if@RTL\beginL\fi\fi%
13944   \leavevmode
13945   \def\Gscale@x{#1}\def\Gscale@y{#2}%
13946   \setbox\z@\hbox{\ifmmode\if@RTL\beginR\fi#3\if@RTL\endR\fi\else\if@RTL\beginR\fi#3\if@RTL
13947   \setbox\tw@\hbox{\Gscale@start\rlap{\copy\z@}\Gscale@end}%
13948   \ifdim#2\p@<\z@
13949     \ht\tw@-#2\dp\z@
13950     \dp\tw@-#2\ht\z@
13951   \else
13952     \ht\tw@#2\ht\z@
13953     \dp\tw@#2\dp\z@
13954   \fi
13955   \ifdim#1\p@<\z@
13956     \hb@xt@-#1\wd\z@{\kern-#1\wd\z@\box\tw@\hss}%
13957   \else
13958     \wd\tw@#1\wd\z@
13959     \box\tw@
13960   \fi\ifmmode\else\if@RTL\endL\fi\fi}
13961 \def\scalebox#1{%
13962   \@ifnextchar[{\bidiGscale@box{#1}}{\bidiGscale@box{#1}[#1]}%
13963 \def\resizebox{%
13964   \leavevmode
13965   \@ifstar{\bidiGscale@@box\totalheight}{\bidiGscale@@box\height}}
13966 \def\bidiGscale@@box#1#2#3{%
13967   \let\@tempa\Gin@exclamation
13968   \expandafter\def\expandafter\@tempb\expandafter{\string#2}%
13969   \expandafter\def\expandafter\@tempc\expandafter{\string#3}%
13970   \ifx\@tempb\@tempa
13971     \ifx\@tempc\@tempa
13972       \toks@{\mbox}%
13973     \else
13974       \toks@{\bidiGscale@box@dd{#3}#1}%
13975     \fi
13976   \else
13977     \ifx\@tempc\@tempa
13978       \toks@{\bidiGscale@box@dd{#2}\width}%
13979     \else
13980       \toks@{\bidiGscale@box@dddd{#2}\width{#3}#1}%
13981     \fi
13982   \fi
13983   \the\toks@}
13984 \long\def\bidiGscale@box@dd#1#2#3{%
13985   \@begin@tempboxa\hbox{\ifmmode\if@RTL\beginR\fi#3\if@RTL\endR\fi\else\if@RTL\beginR\fi#3\if@RTL
13986   \setlength\@tempdima{#1}%

```



```

13987 \setlength\@tempdimb{#2}%
13988 \Gscale@div\@tempa\@tempdima\@tempdimb
13989 \Gscale@box\@tempa[\@tempa]{\box\@tempboxa}%
13990 \@end@tempboxa}
13991 \long\def\ bidiGscale@box@dddd#1#2#3#4#5{%
13992 \@begin@tempboxa\hbox{\ifmmode\if@RTL\beginR\fi#5\if@RTL\endR\fi\else\if@RTL\beginR\fi#5\fi
13993 \setlength\@tempdima{#1}%
13994 \setlength\@tempdimb{#2}%
13995 \Gscale@div\@tempa\@tempdima\@tempdimb
13996 \setlength\@tempdima{#3}%
13997 \setlength\@tempdimb{#4}%
13998 \Gscale@div\@tempb\@tempdima\@tempdimb
13999 \ifGin@iso
14000 \ifdim\@tempa\p>\@tempb\p@
14001 \let\@tempa\@tempb
14002 \else
14003 \let\@tempb\@tempa
14004 \fi
14005 \fi
14006 \Gscale@box\@tempa[\@tempb]{\box\@tempboxa}%
14007 \@end@tempboxa}

```

## 92 File geometry-xetex-bidi.def

```

14008 \ProvidesFile{geometry-xetex-bidi.def}[2017/01/14 v0.2 bidi adaptations for geometry package]
14009 \renewcommand*{\Gm@vrules@mpi}{%
14010 \if@RTLmain%
14011 \hb@xt@\@tempdima{\hskip-\marginparwidth\hskip-\marginparsep
14012 \llap{\Gm@vrule}\ignorespaces
14013 \hskip \marginparwidth\rlap{\Gm@vrule}\hskip \marginparsep
14014 \llap{\Gm@vrule}\hskip\textwidth\rlap{\Gm@vrule}\hss}%
14015 \else%
14016 \hb@xt@\@tempdima{\llap{\Gm@vrule}\ignorespaces
14017 \hskip \textwidth\Gm@vrule\hskip \marginparsep
14018 \llap{\Gm@vrule}\hfil\Gm@vrule\fi}%
14019 \renewcommand*{\Gm@vrules@mpii}{%
14020 \if@RTLmain%
14021 \hb@xt@\@tempdima{\llap{\Gm@vrule}\ignorespaces
14022 \hskip \textwidth\Gm@vrule\hskip \marginparsep
14023 \llap{\Gm@vrule}\hfil\Gm@vrule}%
14024 \else%
14025 \hb@xt@\@tempdima{\hskip-\marginparwidth\hskip-\marginparsep
14026 \llap{\Gm@vrule}\ignorespaces
14027 \hskip \marginparwidth\rlap{\Gm@vrule}\hskip \marginparsep
14028 \llap{\Gm@vrule}\hskip\textwidth\rlap{\Gm@vrule}\hss}\fi}%
14029 \bidi@patchcmd{\Gm@pageframes}{%
14030 \ifodd\count\z@
14031 \let\@themargin\oddsidemargin
14032 \else
14033 \let\@themargin\evensidemargin
14034 \fi
14035 }{%
14036 \ifodd\count\z@
14037 \if@RTLmain

```



```

14038         \let\@themargin\evensidemargin
14039     \else
14040         \let\@themargin\oddsidemargin
14041     \fi
14042 \else
14043     \if@RTLmain
14044         \let\@themargin\oddsidemargin
14045     \else
14046         \let\@themargin\evensidemargin
14047     \fi
14048 \fi
14049 }{}{}

```

### 93 File hvfloat-xetex-bidi.def

```

14050 \ProvidesFile{hvfloat-xetex-bidi.def}[2012/04/18 v0.2 bidi adaptations for hvfloat package f
14051 \def\do@hvFloat[#1]#2#3{%
14052 \def\hv@shortCap{#1}
14053 \def\hv@longCap{#2}
14054 \def\hv@label{#3}
14055 %\newcommand*{\hvFloat}[5][]{%
14056 % [#1]: keyvalues
14057 % #2: type figure | table | ...
14058 % #3: float contents
14059 % [#4]: short caption
14060 % #5: caption
14061 % #6: label
14062 % \setDefault%
14063 % \def\@tempa{#1}%
14064 % \ifx\@tempa\empty\else\setkeys{hvSet}{#1}\fi% set options, only when not empty
14065 \def\@tempa{90}%
14066 \ifx\hvSet@rotAngle\@tempa \setlength{\hvMaxCapWidth}{\textheight}
14067 \else \setlength{\hvMaxCapWidth}{\linewidth}
14068 \fi
14069 %
14070 % First we save the object in \hvObjectBox
14071 %
14072 \ifx\hvSet@objectAngle\hv@Zero % rotate the object?
14073 \savebox{\hvObjectBox}{\ifhv@useOBox\usebox{\hvOBox}\else\hv@floatObject\fi}
14074 \else
14075 \savebox{\hvObjectBox}{%
14076 \rotatebox{\hvSet@objectAngle}{%
14077 \ifhv@useOBox\usebox{\hvOBox}\else\hv@floatObject\fi}}
14078 \fi
14079 \setlength{\hvObjectWidth}{\wd\hvObjectBox}
14080 %
14081 % Now we save the caption with its defined \hvCapWidth
14082 %
14083 \ifx\hvSet@capWidth\hv@Width\setlength{\hvCapWidth}{\hvObjectWidth}
14084 \else
14085 \ifx\hvSet@capWidth\hv@Height\setlength{\hvCapWidth}{\ht\hvObjectBox}
14086 \else
14087 \setlength{\hvCapWidth}{\hvObjectWidth}
14088 \ifx\hvSet@capPos\hv@Left\addtolength{\hvMaxCapWidth}{-\hvObjectWidth}\fi

```



```

14089     \ifx\hvSet@capPos\hv@Right\addtolength{\hvMaxCapWidth}{-\hvObjectWidth}\fi
14090     \ifdim\hvSet@capWidth\columnwidth<\hvMaxCapWidth
14091 \setlength{\hvCapWidth}{\hvSet@capWidth\columnwidth}
14092     \else
14093 \setlength{\hvCapWidth}{\hvMaxCapWidth}
14094     \fi
14095 \fi
14096 \fi
14097 %
14098 % now we have the object and the caption with the right
14099 % rotated angles saved in boxes
14100 %
14101 \def\fps@figure{\hvSet@floatPos}
14102 \ifhv@nonFloat\begin{group}% Start the nonfloat part
14103 \else \begin{\hv@floatType}% Start the floating environment
14104 \fi%
14105 \saveCaptionSkip% we put this space ourselves
14106 \ifx\hvSet@capAngle\hv@Width % need rotation?
14107 \sbox{\hvCaptionBox}{%
14108 \begin{minipage}[b]{\hvCapWidth}% minipage, to get hyphenation
14109 \ifhv@nonFloat%
14110 \ifhv@onlyText#2%
14111 \else%
14112 \ifx\hv@floatType\hv@figure
14113 \ifx\relax#1\relax \figcaption{#2}\else\figcaption{#1}{#2}\fi
14114 \else
14115 \ifx\relax#1\relax \tabcaption{#2}\else\tabcaption{#1}{#2}\fi%
14116 \fi
14117 \fi
14118 \else\ifx\relax\hv@shortCap\relax\caption{#2}\else\caption{#1}{#2}\fi%
14119 \fi%
14120 \label{#3}%
14121 \end{minipage}%
14122 }%
14123 \else%
14124 \sbox{\hvCaptionBox}{%
14125 \rotatebox{\hvSet@capAngle}{%
14126 \begin{minipage}[b]{\hvCapWidth}% minipage, to get hyphenation
14127 \ifhv@nonFloat%
14128 \ifhv@onlyText#2%
14129 \else%
14130 \ifx\hv@floatType\hv@figure
14131 \ifx\relax#1\relax \figcaption{#2}\else\figcaption{#1}{#2}\fi
14132 \else
14133 \ifx\relax#1\relax \tabcaption{#2}\else\tabcaption{#1}{#2}\fi%
14134 \fi
14135 \fi
14136 \else\ifx\relax\hv@shortCap\relax\caption{#2}\else\caption{#1}{#2}\fi%
14137 \fi%
14138 \label{#3}%
14139 \end{minipage}%
14140 }%
14141 }%
14142 \fi%

```



```

14143 %%
14144 \restoreCaptionSkip% save old values
14145 \ifx\hvSet@objectPos\hv@Right\@bidi@raggedleft%
14146 \else%
14147 \ifx\hvSet@objectPos\hv@Center
14148 \ifhv@nonFloat\hspace*{\fill}\else\centering\fi%
14149 \fi%
14150 \fi%
14151 %
14152 % to rotate object and caption together, we save all in another box
14153 % the caption comes first, if its on the left or the top
14154 %
14155 \savebox{\@tempboxa}{%
14156 \ifx\hvSet@capPos\hv@Left % caption on left side
14157 \if@RTL%
14158 \ifx\hvSet@capVPos\hv@Center%
14159 \ifhv@fbox
14160 \fbox{\parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}}
14161 \else
14162 \parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}
14163 \fi%
14164 \hspace{\hvSet@floatCapSep pt}%
14165 \ifhv@fbox
14166 \fbox{\parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}}%
14167 \else
14168 \parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}
14169 \fi%
14170 \else%
14171 \ifx\hvSet@capVPos\hv@Top
14172 \ifhv@fbox
14173 \fbox{\raisebox{-\height}{\usebox{\hvObjectBox}}}%
14174 \else
14175 \raisebox{-\height}{\usebox{\hvObjectBox}}%
14176 \fi%
14177 \hspace{\hvSet@floatCapSep pt}%
14178 \ifhv@fbox
14179 \fbox{\raisebox{-\height}{\usebox{\hvCaptionBox}}}%
14180 \else
14181 \raisebox{-\height}{\usebox{\hvCaptionBox}}%
14182 \fi
14183 \else
14184 \ifhv@fbox
14185 \fbox{\usebox{\hvObjectBox}}%
14186 \else
14187 \usebox{\hvObjectBox}%
14188 \fi
14189 \hspace{\hvSet@floatCapSep pt}%
14190 \ifhv@fbox
14191 \fbox{\usebox{\hvCaptionBox}}%
14192 \else
14193 \usebox{\hvCaptionBox}%
14194 \fi%
14195 \fi%
14196 \fi%

```





```

14197 \else% not RTL
14198   \ifx\hvSet@capVPos\hv@Center%
14199     \ifhv@fbox\fbbox{\parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}}%
14200     \else      \parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}%
14201     \fi%
14202     \hspace{\hvSet@floatCapSep pt}% capfloatsep
14203     \ifhv@fbox\fbbox{\parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}}%
14204     \else      \parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}
14205     \fi%
14206 \else%
14207   \ifx\hvSet@capVPos\hv@Top % caption at top
14208     \ifhv@fbox\fbbox{\raisebox{-\height}{\usebox{\hvCaptionBox}}}%
14209     \else      \raisebox{-\height}{\usebox{\hvCaptionBox}}%
14210     \fi
14211     \hspace{\hvSet@floatCapSep pt}% capfloatsep
14212     \ifhv@fbox\fbbox{\raisebox{-\height}{\usebox{\hvObjectBox}}}%
14213     \else      \raisebox{-\height}{\usebox{\hvObjectBox}}%
14214     \fi%
14215 \else% caption on bottom
14216   \ifhv@fbox\fbbox{\usebox{\hvCaptionBox}}
14217   \else\usebox{\hvCaptionBox}
14218   \fi%
14219   \hspace{\hvSet@floatCapSep pt}%
14220   \ifhv@fbox\fbbox{\usebox{\hvObjectBox}}
14221   \else      \usebox{\hvObjectBox}
14222   \fi%
14223 \fi%
14224 \fi% end of RTL
14225 \fi%
14226 \else
14227 \ifx\hvSet@capPos\hv@Top
14228 \ifdim\wd\hvCaptionBox>\wd\hvObjectBox
14229 \begin{minipage}{\wd\hvCaptionBox}
14230 \else
14231 \begin{minipage}{\wd\hvObjectBox}
14232 \fi
14233 \centering
14234 \ifhv@fbox
14235 \fbbox{\usebox{\hvCaptionBox}}\[\hvBelowCaptionSkip]
14236 \fbbox{\usebox{\hvObjectBox}}
14237 \else
14238 \usebox{\hvCaptionBox}\[\hvBelowCaptionSkip]
14239 \usebox{\hvObjectBox}
14240 \fi%
14241 \end{minipage}
14242 \else
14243 \ifx\hvSet@capPos\hv@Bottom
14244 \ifdim\wd\hvCaptionBox>\wd\hvObjectBox
14245 \begin{minipage}{\wd\hvCaptionBox}
14246 \else
14247 \begin{minipage}{\wd\hvObjectBox}
14248 \fi
14249 \centering
14250 \ifhv@fbox

```



```

14251 \fbox{\usebox{\hvObjectBox}}\[\hvAboveCaptionSkip]
14252 \fbox{\usebox{\hvCaptionBox}}
14253 \else
14254 \usebox{\hvObjectBox}\[\hvAboveCaptionSkip]
14255 \usebox{\hvCaptionBox}
14256 \fi%
14257 \end{minipage}
14258 \else% the last option: put the caption on the right
14259 \if@RTL%
14260     \ifx\hvSet@capVPos\hv@Center%
14261         \ifhv@fbox\fbbox{\parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}}%
14262         \else \parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}%
14263         \fi%
14264         \hspace{\hvSet@floatCapSep pt}% capfloatsep
14265         \ifhv@fbox\fbbox{\parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}}%
14266         \else \parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}%
14267         \fi%
14268     \else%
14269         \ifx\hvSet@capVPos\hv@Top % caption at top
14270             \ifhv@fbox\fbbox{\raisebox{-\height}{\usebox{\hvCaptionBox}}}%
14271             \else \raisebox{-\height}{\usebox{\hvCaptionBox}}%
14272             \fi
14273             \hspace{\hvSet@floatCapSep pt}% capfloatsep
14274             \ifhv@fbox\fbbox{\raisebox{-\height}{\usebox{\hvObjectBox}}}%
14275             \else \raisebox{-\height}{\usebox{\hvObjectBox}}%
14276             \fi%
14277         \else% caption on bottom
14278             \ifhv@fbox\fbbox{\usebox{\hvCaptionBox}}
14279             \else\usebox{\hvCaptionBox}
14280             \fi%
14281             \hspace{\hvSet@floatCapSep pt}%
14282             \ifhv@fbox\fbbox{\usebox{\hvObjectBox}}
14283             \else \usebox{\hvObjectBox}
14284             \fi%
14285         \fi%
14286     \fi%
14287 \else% not RTL
14288 \ifx\hvSet@capVPos\hv@Center%
14289 \ifhv@fbox
14290 \fbbox{\parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}}
14291 \else
14292 \parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}
14293 \fi%
14294 \hspace{\hvSet@floatCapSep pt}%
14295 \ifhv@fbox
14296 \fbbox{\parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}}%
14297 \else
14298 \parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}
14299 \fi%
14300 \else%
14301 \ifx\hvSet@capVPos\hv@Top
14302 \ifhv@fbox
14303 \fbbox{\raisebox{-\height}{\usebox{\hvObjectBox}}}%
14304 \else

```



```

14305 \raisebox{-\height}{\usebox{\hvObjectBox}}%
14306 \fi%
14307 \hspace{\hvSet@floatCapSep pt}%
14308 \ifhv@fbox
14309 \fbox{\raisebox{-\height}{\usebox{\hvCaptionBox}}}%
14310 \else
14311 \raisebox{-\height}{\usebox{\hvCaptionBox}}%
14312 \fi
14313 \else
14314 \ifhv@fbox
14315 \fbox{\usebox{\hvObjectBox}}%
14316 \else
14317 \usebox{\hvObjectBox}%
14318 \fi
14319 \hspace{\hvSet@floatCapSep pt}%
14320 \ifhv@fbox
14321 \fbox{\usebox{\hvCaptionBox}}%
14322 \else
14323 \usebox{\hvCaptionBox}%
14324 \fi%
14325 \fi%
14326 \fi
14327 \fi% end of RTL
14328 \fi
14329 \fi
14330 \fi
14331 }% End savebox Object and caption
14332 %
14333 % now we rotate the object and caption, if needed
14334 %
14335 \ifx\hvSet@rotAngle\hv@Zero
14336 \usebox{\@tempboxa}
14337 \else
14338 \rotatebox{\hvSet@rotAngle}{\usebox{\@tempboxa}}
14339 \fi
14340 \ifhv@nonFloat
14341 \ifx\hvSet@objectPos\hv@Center
14342 \ifhv@nonFloat
14343 \hspace{\filll}
14344 \fi
14345 \fi
14346 \endgroup% End the nonfloat part
14347 \else
14348 \end{\hv@floatType}% End the floating environment
14349 \fi
14350 }

```

## 94 File hyperref-xetex-bidi.def

```

14351 \ProvidesFile{hyperref-xetex-bidi.def}[2018/11/11 v1.1 bidi adaptations for hyperref package]
14352 \AtBeginDocument{%
14353 \def\contentsline#1#2#3#4{%
14354   \ifx\#4\%
14355     \csname l@#1\endcsname{#2}{#3}%

```



```

14356 \else
14357 \ifcase\Hy@linktoc % none
14358 \csname l@#1\endcsname{#2}{#3}%
14359 \or % section
14360 \csname l@#1\endcsname{%
14361 \hyper@linkstart{link}{#4}{\if@RTL\beginR\fi#2\if@RTL\endR\fi}\hyper@linkend
14362 }{#3}%
14363 \or % page
14364 \csname l@#1\endcsname{#2}{#3}%
14365 \hyper@linkstart{link}{#4}{#3}\hyper@linkend
14366 }%
14367 \else % all
14368 \csname l@#1\endcsname{%
14369 \hyper@linkstart{link}{#4}{\if@RTL\beginR\fi#2\if@RTL\endR\fi}\hyper@linkend
14370 }{#3}%
14371 \hyper@linkstart{link}{#4}{#3}\hyper@linkend
14372 }%
14373 \fi
14374 \fi
14375 }
14376 \ifHy@hyperfootnotes
14377 \let\H@@footnotetext\@footnotetext
14378 \let\HRTL@RTLfootnotetext\@RTLfootnotetext
14379 \let\HLTR@LTRfootnotetext\@LTRfootnotetext
14380 \def\xfootnotenext[#1]{%
14381 \begingroup
14382 \csname c@\@mpfn\endcsname #1\relax
14383 \unrestored@protected@xdef\@thefnmark{\thempfn}%
14384 \endgroup
14385 \ifx\@footnotetext\@mpfootnotetext
14386 \expandafter\H@@mpfootnotetext
14387 \else
14388 \expandafter\H@@footnotetext
14389 \fi
14390 }%
14391 \def\xRTLfootnotenext[#1]{%
14392 \begingroup
14393 \csname c@\@mpfn\endcsname #1\relax
14394 \unrestored@protected@xdef\@thefnmark{\thempfn}%
14395 \endgroup
14396 \ifx\@RTLfootnotetext\@mpRTLfootnotetext
14397 \expandafter\HRTL@mpRTLfootnotetext
14398 \else
14399 \expandafter\HRTL@RTLfootnotetext
14400 \fi
14401 }%
14402 \def\xLTRfootnotenext[#1]{%
14403 \begingroup
14404 \csname c@\@mpfn\endcsname #1\relax
14405 \unrestored@protected@xdef\@thefnmark{\thempfn}%
14406 \endgroup
14407 \ifx\@LTRfootnotetext\@mpLTRfootnotetext
14408 \expandafter\HLTR@mpLTRfootnotetext
14409 \else

```



```

14410     \expandafter\HLTR@@LTRfootnotetext
14411     \fi
14412 }%
14413 \def\xfootnotemark[#1]{%
14414 \begingroup
14415   \c@footnote #1\relax
14416   \unrestored@protected@xdef\@thefnmark{\thefootnote}%
14417 \endgroup
14418 \H@@footnotemark
14419 }%
14420 \let\H@@mpfootnotetext\@mpfootnotetext
14421 \let\HRTL@@mpRTLfootnotetext\@mpRTLfootnotetext
14422 \let\HLTR@@mpLTRfootnotetext\@mpLTRfootnotetext
14423 \long\def\@mpfootnotetext#1{%
14424   \H@@mpfootnotetext{%
14425     \ifHy@nesting
14426       \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
14427     \else
14428       \Hy@raisedlink{%
14429         \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
14430       }#1%
14431     \fi
14432   }%
14433 }%
14434 \long\def\@mpRTLfootnotetext#1{%
14435   \HRTL@@mpRTLfootnotetext{%
14436     \ifHy@nesting
14437       \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
14438     \else
14439       \Hy@raisedlink{%
14440         \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
14441       }#1%
14442     \fi
14443   }%
14444 }%
14445 \long\def\@mpLTRfootnotetext#1{%
14446   \HLTR@@mpLTRfootnotetext{%
14447     \ifHy@nesting
14448       \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
14449     \else
14450       \Hy@raisedlink{%
14451         \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
14452       }#1%
14453     \fi
14454   }%
14455 }%
14456 \long\def\@footnotetext#1{%
14457   \H@@footnotetext{%
14458     \ifHy@nesting
14459       \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
14460     \else
14461       \Hy@raisedlink{%
14462         \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
14463       }%

```



```

14464         \let\@currentHlabel\Hy@footnote@currentHlabel
14465         \let\@currentHref\Hy@footnote@currentHref
14466         \let\@currentlabelname\@empty
14467         #1%
14468     \fi
14469 }%
14470 }%
14471 \long\def\@RTLfootnotetext#1{%
14472 \HRTL@@RTLfootnotetext{%
14473     \ifHy@nesting
14474         \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
14475     \else
14476         \Hy@raisedlink{%
14477             \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
14478         }%
14479         \let\@currentHlabel\Hy@footnote@currentHlabel
14480         \let\@currentHref\Hy@footnote@currentHref
14481         \let\@currentlabelname\@empty
14482         #1%
14483     \fi
14484 }%
14485 }%
14486 \long\def\@LTRfootnotetext#1{%
14487 \HLTR@@LTRfootnotetext{%
14488     \ifHy@nesting
14489         \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
14490     \else
14491         \Hy@raisedlink{%
14492             \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
14493         }%
14494         \let\@currentHlabel\Hy@footnote@currentHlabel
14495         \let\@currentHref\Hy@footnote@currentHref
14496         \let\@currentlabelname\@empty
14497         #1%
14498     \fi
14499 }%
14500 }%
14501 \@ifpackageloaded{tabularx}{%
14502 \let\HyOrg@TX@endtabularx\TX@endtabularx
14503 \def\Hy@tabularx@hook{%
14504     \let\@footnotetext\H@@footnotetext
14505     \let\@LTRfootnotetext\HLTR@@LTRfootnotetext
14506     \let\@RTLfootnotetext\HRTL@@RTLfootnotetext
14507     \let\@footnotemark\H@@footnotemark
14508     \let\@mpfootnotetext\H@@mpfootnotetext
14509     \let\@mpLTRfootnotetext\HLTR@@mpLTRfootnotetext
14510     \let\@mpRTLfootnotetext\HRTL@@mpRTLfootnotetext
14511 }%
14512 \begingroup
14513 \toks@%expandafter{\TX@endtabularx}%
14514 \xdef\Hy@gtemp{%
14515     \noexpand\Hy@tabularx@hook
14516     \the\toks@
14517 }%

```



```

14518 \endgroup
14519 \let\TX@endtabularx\Hy@gtemp
14520 }-}%
14521 \@ifpackageloaded{longtable}{%
14522 \CheckCommand*{\LT@p@LTRfnttext}[1]{%
14523 \edef\@tempa{%
14524 \the\LT@p@ftn
14525 \noexpand\LTRfootnotetext[\the\c@footnote]%
14526 }%
14527 \global\LT@p@ftn\expandafter{\@tempa{#1}}%
14528 }%
14529 \long\def\LT@p@LTRfnttext#1{%
14530 \edef\@tempa{%
14531 \the\LT@p@ftn
14532 \begingroup
14533 \noexpand\c@footnote=\the\c@footnote\relax
14534 \noexpand\protected@xdef\noexpand\@thefnmark{%
14535 \noexpand\thempfn
14536 }%
14537 \noexpand\Hy@LT@LTRfootnotetext{%
14538 \Hy@footnote@currentHref
14539 }%
14540 }%
14541 \global\LT@p@ftn\expandafter{%
14542 \@tempa{#1}%
14543 \endgroup
14544 }%
14545 }%
14546 \long\def\Hy@LT@LTRfootnotetext#1#2{%
14547 \HLTR@LTRfootnotetext{%
14548 \ifHy@nesting
14549 \hyper@@anchor{#1}{#2}%
14550 \else
14551 \Hy@raisedlink{%
14552 \hyper@@anchor{#1}{\relax}%
14553 }%
14554 \def\@currentHref{#1}%
14555 \let\@currentlabelname\@empty
14556 #2%
14557 \fi
14558 }%
14559 }%
14560 \CheckCommand*{\LT@p@RTLfnttext}[1]{%
14561 \edef\@tempa{%
14562 \the\LT@p@ftn
14563 \noexpand\RTLfootnotetext[\the\c@footnote]%
14564 }%
14565 \global\LT@p@ftn\expandafter{\@tempa{#1}}%
14566 }%
14567 \long\def\LT@p@RTLfnttext#1{%
14568 \edef\@tempa{%
14569 \the\LT@p@ftn
14570 \begingroup
14571 \noexpand\c@footnote=\the\c@footnote\relax

```



```

14572         \noexpand\protected@xdef\noexpand\@thefnmark{%
14573             \noexpand\thempfn
14574         }%
14575         \noexpand\Hy@LT@RTLfootnotetext{%
14576             \Hy@footnote@currentHref
14577         }%
14578     }%
14579     \global\LT@p@ftn\expandafter{%
14580         \@tempa{#1}%
14581     \endgroup
14582 }%
14583 }%
14584 \long\def\Hy@LT@RTLfootnotetext#1#2{%
14585     \HRTL@RTLfootnotetext{%
14586         \ifHy@nesting
14587             \hyper@@anchor{#1}{#2}%
14588         \else
14589             \Hy@raisedlink{%
14590                 \hyper@@anchor{#1}{\relax}%
14591             }%
14592             \def\@currentHref{#1}%
14593             \let\@currentlabelname\@empty
14594             #2%
14595         \fi
14596     }%
14597 }%
14598 }{}%
14599 \@ifpackageloaded{bidipoem}{%
14600 \long\def\bidipoem@p@ftntext#1{%
14601     \edef\@tempx{%
14602         \the\bidipoem@p@ftn
14603     \beginingroup
14604         \noexpand\csname c@\@mpfn\endcsname=\the\csname c@\@mpfn\endcsname\relax
14605         \noexpand\protected@xdef\noexpand\@thefnmark{%
14606             \noexpand\thempfn
14607         }%
14608         \noexpand\Hy@bidipoem@footnotetext{%
14609             \Hy@footnote@currentHref
14610         }%
14611     }%
14612     \global\bidipoem@p@ftn\expandafter{%
14613         \@tempx{#1}%
14614     \endgroup
14615 }%
14616 }%
14617 \long\def\Hy@bidipoem@footnotetext#1#2{%
14618     \H@@footnotetext{%
14619         \ifHy@nesting
14620             \hyper@@anchor{#1}{#2}%
14621         \else
14622             \Hy@raisedlink{%
14623                 \hyper@@anchor{#1}{\relax}%
14624             }%
14625             \def\@currentHref{#1}%

```





```

14626         \let\@currentlabelname\@empty
14627         #2%
14628     \fi
14629 }%
14630 }%
14631     \long\def\bidipoem@p@LTRftntext#1{%
14632 \edef\@tempxi{%
14633     \the\bidipoem@p@ftn
14634     \begingroup
14635         \noexpand\csname c@\@mpfn\endcsname=\the\csname c@\@mpfn\endcsname\relax
14636         \noexpand\protected@xdef\noexpand\@thefnmark{%
14637             \noexpand\thempfn
14638         }%
14639         \noexpand\Hy@bidipoem@LTRfootnotetext{%
14640             \Hy@footnote@currentHref
14641         }%
14642     }%
14643     \global\bidipoem@p@ftn\expandafter{%
14644         \@tempxi{#1}%
14645     \endgroup
14646 }%
14647 }%
14648 \long\def\Hy@bidipoem@LTRfootnotetext#1#2{%
14649     \HLTR@LTRfootnotetext{%
14650         \ifHy@nesting
14651             \hyper@@anchor{#1}{#2}%
14652         \else
14653             \Hy@raisedlink{%
14654                 \hyper@@anchor{#1}{\relax}%
14655             }%
14656             \def\@currentHref{#1}%
14657             \let\@currentlabelname\@empty
14658             #2%
14659         \fi
14660     }%
14661 }%
14662     \long\def\bidipoem@p@RTLftntext#1{%
14663 \edef\@tempxii{%
14664     \the\bidipoem@p@ftn
14665     \begingroup
14666         \noexpand\csname c@\@mpfn\endcsname=\the\csname c@\@mpfn\endcsname\relax
14667         \noexpand\protected@xdef\noexpand\@thefnmark{%
14668             \noexpand\thempfn
14669         }%
14670         \noexpand\Hy@bidipoem@RTLfootnotetext{%
14671             \Hy@footnote@currentHref
14672         }%
14673     }%
14674     \global\bidipoem@p@ftn\expandafter{%
14675         \@tempxii{#1}%
14676     \endgroup
14677 }%
14678 }%
14679 \long\def\Hy@bidipoem@RTLfootnotetext#1#2{%

```



```

14680 \HRTL@@RTLfootnotetext{%
14681 \ifHy@nesting
14682 \hyper@@anchor{#1}{#2}%
14683 \else
14684 \Hy@raisedlink{%
14685 \hyper@@anchor{#1}{\relax}%
14686 }%
14687 \def\@currentHref{#1}%
14688 \let\@currentlabelname\@empty
14689 #2%
14690 \fi
14691 }%
14692 }%
14693 }-}%
14694 \let\HyOrg@maketitle\maketitle
14695 \def\maketitle{%
14696 \let\Hy@saved@footnotemark\@footnotemark
14697 \let\Hy@saved@footnotetext\@footnotetext
14698 \let\HyRTL@saved@RTLfootnotetext\@RTLfootnotetext
14699 \let\HyLTR@saved@LTRfootnotetext\@LTRfootnotetext
14700 \let\@footnotemark\H@@footnotemark
14701 \let\@footnotetext\H@@footnotetext
14702 \let\@RTLfootnotetext\HRTL@@RTLfootnotetext
14703 \let\@LTRfootnotetext\HLTR@@LTRfootnotetext
14704 \@ifnextchar[\Hy@maketitle@optarg{% ]
14705 \HyOrg@maketitle
14706 \Hy@maketitle@end
14707 }%
14708 }%
14709 \def\Hy@maketitle@optarg[#1]{%
14710 \HyOrg@maketitle[#{#1}]%
14711 \Hy@maketitle@end
14712 }%
14713 \def\Hy@maketitle@end{%
14714 \ifx\@footnotemark\H@@footnotemark
14715 \let\@footnotemark\Hy@saved@footnotemark
14716 \fi
14717 \ifx\@footnotetext\H@@footnotetext
14718 \let\@footnotetext\Hy@saved@footnotetext
14719 \fi
14720 \ifx\@RTLfootnotetext\HRTL@@RTLfootnotetext
14721 \let\@RTLfootnotetext\HyRTL@saved@RTLfootnotetext
14722 \fi
14723 \ifx\@LTRfootnotetext\HLTR@@LTRfootnotetext
14724 \let\@LTRfootnotetext\HyLTR@saved@LTRfootnotetext
14725 \fi
14726 }%
14727 \def\realfootnote{%
14728 \@ifnextchar[\@xfootnote{%
14729 \stepcounter{\@mpfn}%
14730 \protected@xdef\@thefnmark{\thempfn}%
14731 \H@@@footnotemark\H@@footnotetext
14732 }%
14733 }%

```



```

14734 \fi
14735 \def\Hy@BeginAnnot#1{%
14736   \ifmmode\else\beginL\fi%
14737   \global\advance\c@Hy@AnnotLevel\@ne
14738   \ifnum\c@Hy@AnnotLevel=\@ne
14739     #1%
14740   \fi
14741 }
14742 \def\Hy@endAnnot{%
14743   \ifnum\c@Hy@AnnotLevel=\@ne
14744     \Hy@endcolorlink
14745     \@pdfm@mark{eann}%
14746   \fi
14747   \global\advance\c@Hy@AnnotLevel\m@ne
14748   \ifmmode\else\endL\fi%
14749 }
14750 \def\hyper@link#1#2#3{%
14751   \hyper@linkstart{#1}{#2}\ifmmode\else\if@RTL\beginR\fi\fi#3\ifmmode\else\if@RTL\endR\fi\fi
14752 }
14753 \def\hyper@linkfile#1#2#3{%
14754   \leavevmode
14755   \Hy@BeginAnnot{%
14756     \def\Hy@pstringF{#2}%
14757     \Hy@CleanupFile\Hy@pstringF
14758     \Hy@pstringdef\Hy@pstringF\Hy@pstringF
14759     \Hy@pstringdef\Hy@pstringD{#3}%
14760     \Hy@MakeRemoteAction
14761     \@pdfm@mark{%
14762       bann<<%
14763       /Type/Annot%
14764       /Subtype/Link%
14765       \ifHy@pdfa /F 4\fi
14766       \Hy@setpdfborder
14767       \ifx\@filebordercolor\relax
14768       \else
14769         /C[\@filebordercolor]%
14770       \fi
14771       /A<<%
14772       /S/GoToR%
14773       /F(\Hy@pstringF)%
14774       /D%
14775       \ifx\@#3\%
14776         [\Hy@href@page\@pdfremotestartview]%
14777       \else
14778         (\Hy@pstringD)%
14779       \fi
14780       \Hy@SetNewWindow
14781       \Hy@href@nextactionraw
14782       >>%
14783     >>%
14784   }%
14785   \Hy@colorlink\@filecolor
14786 }%
14787 \ifmmode\else\if@RTL\beginR\fi\fi#1\ifmmode\else\if@RTL\endR\fi\fi\Hy@xspace@end

```



```

14788 \Hy@EndAnnot
14789 }
14790 \def\@hyper@launch run:#1\#2#3{% filename, anchor text linkname
14791 \leavevmode
14792 \Hy@BeginAnnot{%
14793 \Hy@pstringdef\Hy@pstringF{#1}%
14794 \Hy@pstringdef\Hy@pstringP{#3}%
14795 \@pdfm@mark{%
14796 bann<<%
14797 /Type/Annot%
14798 /Subtype/Link%
14799 \ifHy@pdfa /F 4\fi
14800 \Hy@setpdfborder
14801 \ifx\@runbordercolor\relax
14802 \else
14803 /C[\@runbordercolor]%
14804 \fi
14805 /A<<%
14806 /F(\Hy@pstringF)%
14807 /S/Launch%
14808 \Hy@SetNewWindow
14809 \ifx\#3\%
14810 \else
14811 /Win<</P(\Hy@pstringP)/F(\Hy@pstringF)>>%
14812 \fi
14813 \Hy@href@nextactionraw
14814 >>%
14815 >>%
14816 }%
14817 \Hy@colorlink\@runcolor
14818 }%
14819 \ifmmode\else\if@RTL\beginR\fi\fi#2\ifmmode\else\if@RTL\endR\fi\fi\Hy@xspace@end
14820 \Hy@EndAnnot
14821 }
14822 \def\hyper@linkurl#1#2{%
14823 \leavevmode
14824 \Hy@BeginAnnot{%
14825 \Hy@pstringdef\Hy@pstringURI{#2}%
14826 \@pdfm@mark{%
14827 bann<<%
14828 /Type/Annot%
14829 /Subtype/Link%
14830 \ifHy@pdfa /F 4\fi
14831 \Hy@setpdfborder
14832 \ifx\@urlbordercolor\relax
14833 \else
14834 /C[\@urlbordercolor]%
14835 \fi
14836 /A<<%
14837 /S/URI%
14838 /URI(\Hy@pstringURI)%
14839 \ifHy@href@ismap
14840 /IsMap true%
14841 \fi

```



```

14842         \Hy@href@nextactionraw
14843         >>%
14844         >>%
14845     }%
14846     \Hy@colorlink \@urlcolor
14847 }%
14848 \ifmmode\else\if@RTL\beginR\fi\fi#1\ifmmode\else\if@RTL\endR\fi\fi\Hy@xspace@end
14849 \Hy@EndAnnot
14850 }
14851 \def\Acrobatmenu#1#2{%
14852     \Hy@Acrobatmenu{#1}{#2}{%
14853         \Hy@BeginAnnot{%
14854             \EdefEscapeName\Hy@temp@menu{#1}%
14855             \@pdfm@mark{%
14856                 bann<<%
14857                 /Type/Annot%
14858                 /Subtype/Link%
14859                 \ifHy@pdfa /F 4\fi
14860                 \Hy@setpdfborder
14861                 \ifx\@menubordercolor\relax
14862                     \else
14863                         /C[\@menubordercolor]%
14864                     \fi
14865                 /A<<%
14866                 /S/Named%
14867                 /N/\Hy@temp@menu
14868                 \Hy@href@nextactionraw
14869                 >>%
14870                 >>%
14871             }%
14872             \Hy@colorlink \@menucolor
14873         }%
14874         \ifmmode\else\if@RTL\beginR\fi\fi#2\ifmmode\else\if@RTL\endR\fi\fi\Hy@xspace@end
14875     \Hy@EndAnnot
14876 }%
14877 }
14878 \def\hyper@natlinkstart#1{%
14879     \Hy@backout{#1}%
14880     \hyper@linkstart{cite}{cite.#1}\if@RTL\beginR\fi%
14881     \def\hyper@nat@current{#1}%
14882 }
14883 \def\hyper@natlinkend{%
14884     \if@RTL\endR\fi\hyper@linkend
14885 }
14886 \def\hyper@natlinkbreak#1#2{%
14887     \if@RTL\endR\fi\hyper@linkend#1\hyper@linkstart{cite}{cite.#2}\if@RTL\beginR\fi%
14888 }%
14889 }
14890 \pdfstringdefDisableCommands{%
14891     \let\LRE\@firstofone
14892     \let\LR\@firstofone
14893     \let\RLE\@firstofone
14894     \let\RL\@firstofone
14895 \def\XeTeX{XeTeX}%

```



```

14896 \def\XeLaTeX{Xe\LaTeX}%
14897 }
14898 \@ifpackageloaded{longtable}{%
14899   \begingroup
14900     \def\y{\LT@array}%
14901     \@ifundefined{scr@LT@array}{%
14902       \@ifundefined{adl@LT@array}{\def\y{\adl@LT@array}}%
14903     }{\def\y{\scr@LT@array}}%
14904     \long\def\x\refstepcounter#1#2\@sharp#3#4\@nil{%
14905       \expandafter\endgroup
14906       \expandafter\def\y[##1]##2{%
14907         \H@refstepcounter{#1}%
14908         \hyper@makecurrent{table}%
14909         \let\Hy@LT@currentHref\@currentHref
14910         #2\@sharp####4%
14911       }%
14912     }%
14913     \expandafter\expandafter\expandafter\x\y[#{1}]{#2}\@nil
14914   \begingroup
14915     \def\x#1\ifvoid\LT@foot#2\fi#3\@nil{%
14916       \endgroup
14917       \def\LT@start{%
14918         #1%
14919         \ifvoid\LT@foot#2\fi
14920         \let\@currentHref\Hy@LT@currentHref
14921         \Hy@raisedlink{%
14922           \hyper@anchorstart{\@currentHref}\hyper@anchorend
14923         }%
14924         #3%
14925       }%
14926     }%
14927     \expandafter\x\LT@start\@nil
14928   }{}
14929   \bidi@patchcmd\@TextField{%
14930     \@pdfm@mark
14931   }{%
14932     \if@RTL
14933       \hskip\Fld@width
14934     \fi
14935     \@pdfm@mark
14936   }{}{}
14937   \bidi@patchcmd\@TextField{%
14938     \unhbox
14939   }{%
14940     \if@RTL
14941       \hskip-\Fld@width
14942     \fi
14943     \unhbox
14944   }{}{}
14945   \bidi@patchcmd\@@Radio{%
14946     \@pdfm@mark
14947   }{%
14948     \if@RTL
14949       \hskip\Fld@width

```



```

14950 \fi
14951 \@pdfm@mark
14952 }{}{}
14953 \bidi@patchcmd\@@Radio{%
14954 \unhcopy
14955 }{%
14956 \if@RTL
14957 \hskip-\Fld@width
14958 \fi
14959 \unhcopy
14960 }{}{}
14961 \bidi@patchcmd\@Submit{%
14962 \@pdfm@mark
14963 }{%
14964 \if@RTL
14965 \null
14966 \hskip\wd\pdfm@box
14967 \fi
14968 \@pdfm@mark
14969 }{}{}
14970 \bidi@patchcmd\@Submit{%
14971 \unhbox
14972 }{%
14973 \if@RTL
14974 \hskip-\wd\pdfm@box
14975 \fi
14976 \unhbox
14977 }{}{}
14978 \bidi@patchcmd\@Reset{%
14979 \@pdfm@mark
14980 }{%
14981 \if@RTL
14982 \null
14983 \hskip\wd\pdfm@box
14984 \fi
14985 \@pdfm@mark
14986 }{}{}
14987 \bidi@patchcmd\@Reset{%
14988 \unhbox
14989 }{%
14990 \if@RTL
14991 \hskip-\wd\pdfm@box
14992 \fi
14993 \unhbox
14994 }{}{}

```

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

```

14995 \ProvidesFile{imsproc-xetex-bidi.def}[2017/06/09 v0.1 bidi adaptations for imsproc class for
14996 \newenvironment{thebibliography}[1]{}
14997 \@bibtitlestyle
14998 \normalfont\bibliofont\labelsep .5em\relax
14999 \renewcommand\theenumiv{\arabic{enumiv}}\let\p@enumiv\@empty
15000 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi

```



```

15001 \bidi@thebibliography@font@hook
15002 \list{\@biblabel{\theenumiv}}{\settowidth\labelwidth{\@biblabel{#1}}%
15003 \leftmargin\labelwidth \advance\leftmargin\labelsep
15004 \usecounter{enumiv}}%
15005 \sloppy \clubpenalty\@M \widowpenalty\clubpenalty
15006 \sfcode`\.=\@m
15007 }{%
15008 \def\@noitemerr{\@latex@warning{Empty `thebibliography' environment}}%
15009 \endlist
15010 }
15011
15012 \def\theindex{\@restonecoltrue\if@twocolumn\@restonecolfalse\fi
15013 \columnseprule\z@ \columnsep 35\p@
15014 \@indextitlestyle
15015 \thispagestyle{plain}%
15016 \let\item\@idxitem
15017 \parindent\z@ \parskip\z@\@plus.3\p@\relax
15018 \if@RTL\raggedleft\else\raggedright\fi
15019 \hyphenpenalty\@M
15020 \footnotesize}
15021 \def\@idxitem{\par\hangindent \if@RTL-\fi2em}
15022 \def\subitem{\par\hangindent \if@RTL-\fi2em\hspace*{1em}}
15023 \def\subsubitem{\par\hangindent \if@RTL-\fi3em\hspace*{2em}}
15024
15025 \def\right@footnoterule{%
15026 \kern-.4\p@
15027 \hbox to \columnwidth{\hskip \dimexpr\columnwidth-5pc\relax \hrulefill }
15028 \kern11\p@\kern-\footnotesep}
15029 \def\left@footnoterule{\kern-.4\p@
15030 \hrule\@width 5pc\kern11\p@\kern-\footnotesep}
15031 \def\@makefnmark{%
15032 \leavevmode
15033 \raise.9ex\hbox{\fontsize\sf@size\z@\normalfont\@thefnmark}%
15034 }
15035
15036 \def\part{\@startsection{part}{0}%
15037 \z@\linespacing\@plus\linespacing}{.5\linespacing}%
15038 {\normalfont\bfseries\if@RTL\raggedleft\else\raggedright\fi}}
15039 \def\@tocline#1#2#3#4#5#6#7{\relax
15040 \ifnum #1>\c@tocdepth % then omit
15041 \else
15042 \par \addpenalty\@secpenalty\addvspace{#2}%
15043 \begingroup \hyphenpenalty\@M
15044 \@ifempty{#4}{%
15045 \@tempdima\csname r@tocindent\number#1\endcsname\relax
15046 }{%
15047 \@tempdima#4\relax
15048 }%
15049 \parindent\z@ \if@RTL\righskip\else\leftskip\fi#3\relax \advance\if@RTL\righskip\else\
15050 \if@RTL\leftskip\else\righskip\fi\@pnumwidth plus4em \parfillskip-\@pnumwidth
15051 #5\leavevmode\hskip-\@tempdima #6\nobreak\relax
15052 \hfil\hbox to\@pnumwidth{\@tocpagenum{#7}}\par
15053 \nobreak
15054 \endgroup

```





```

15055 \fi}
15056 \renewcommand\thesubsection {\thesection\@SepMark\arabic{subsection}}
15057 \renewcommand\thesubsubsection {\thesubsection \@SepMark\arabic{subsubsection}}
15058 \renewcommand\theparagraph {\thesubsubsection\@SepMark\arabic{paragraph}}
15059 \renewcommand\thesubparagraph {\theparagraph\@SepMark\arabic{subparagraph}}
15060 \def\maketitle{\par
15061 \@topnum\z@ % this prevents figures from falling at the top of page 1
15062 \setcopyright
15063 \thispagestyle{firstpage}% this sets first page specifications
15064 \uppercase\nonmath\shorttitle
15065 \ifx\@empty\shortauthors \let\shortauthors\shorttitle
15066 \else \andify\shortauthors
15067 \fi
15068 \@maketitle@hook
15069 \begingroup
15070 \@maketitle
15071 \toks@{\@xp{\shortauthors}\@temptokena\@xp{\shorttitle}}%
15072 \toks4{\def\{\ \ignorespaces}}% defend against questionable usage
15073 \edef\@tempa{%
15074 \ \nx\markboth{\the\toks4
15075 \ \nx\MakeUppercase{\the\toks@}}{\the\@temptokena}}%
15076 \@tempa
15077 \endgroup
15078 \c@footnote\z@
15079 \cleartopmattertags
15080 }

```

## 96 File leqno-xetex-bidi.def

```

15081 \ProvidesFile{leqno-xetex-bidi.def}[2018/01/07 v0.2 bidi adaptations for leqno tag for XeTeX]
15082 \renewcommand\@eqnnum{\hbxt@.01\p@{}}%
15083 \rlap{\hskip -\displaywidth
15084 {\normalfont\normalcolor\if@RTL\beginR\fi(\theequation)\if@RTL\endR}}

```

## 97 File letter-xetex-bidi.def

```

15085 \ProvidesFile{letter-xetex-bidi.def}[2015/11/14 v0.3 bidi adaptations for standard letter class]
15086 \renewcommand*{\opening}[1]{\ifx\@empty\fromaddress
15087 \thispagestyle{firstpage}%
15088 {\if@RTL\raggedright\else\raggedleft\fi\@date\par}%
15089 \else % home address
15090 \thispagestyle{empty}%
15091 {\if@RTL\raggedright\else\raggedleft\fi\if@RTL\begin{tabular}{r@{}}\else\begin{tabular}{l@{}}
15092 \fromaddress \*[2\parskip]%
15093 \@date \end{tabular}\par}%
15094 \fi
15095 \vspace{2\parskip}%
15096 {\if@RTL\raggedleft\else\raggedright\fi \toname \ \ toaddress \par}%
15097 \vspace{2\parskip}%
15098 #1\par\nobreak}
15099 \renewcommand\left@footnoterule{%
15100 \kern-\p@
15101 \hrule \@width .4\columnwidth
15102 \kern .6\p@}

```



```

15103 \renewcommand\right@footnoterule{%
15104   \kern-\p@
15105   \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
15106   \kern .6\p@}

```

## 98 File lettrine-xetex-bidi.def

```

15107 \ProvidesFile{lettrine-xetex-bidi.def}[2019/05/01 v0.7 bidi adaptations for lettrine package]
15108 \def\@lettrine[#1]#2#3{%
15109   \def\l@initial{#2}\let\l@refstring\l@initial
15110   \setcounter{L@lines}{\value{DefaultLines}}%
15111   \setcounter{L@depth}{\value{DefaultDepth}}%
15112   \renewcommand*{\L@hang}{\DefaultLhang}%
15113   \renewcommand*{\L@oversize}{\DefaultLoversize}%
15114   \renewcommand*{\L@raise}{\DefaultLraise}%
15115   \renewcommand*{\L@ante}{}%
15116   \setlength{\L@Findent}{\DefaultFindent}%
15117   \setlength{\L@Nindent}{\DefaultNindent}%
15118   \setlength{\L@slope}{\DefaultSlope}%
15119   \setlength{\L@novskip}{\DiscardVskip}%
15120   \ifLettrineImage\L@imagetrue\else\L@imagefalse\fi
15121   \ifLettrineOnGrid\L@gridtrue\else\L@gridfalse\fi
15122   \ifLettrineRealHeight\L@realhtrue\else\L@realhfalse\fi
15123   \ifLettrineSelfRef\L@selfreftrue\else\L@selfreffalse\fi
15124   \setkeys{L}{#1}%
15125   \sbox{\L@tbox}{\LettrineTextFont{\LettrineSecondString}}%
15126   \ifL@realh
15127     \def\@tempa{#3}%
15128     \ifx\@tempa\@empty
15129       \PackageWarning{lettrine.sty}%
15130         {Empty second argument,\MessageBreak
15131          ignoring option `realheight'};%
15132     \else
15133       \sbox{\L@tbox}{\LettrineTextFont{#3}}%
15134     \fi
15135   \fi
15136   \if\DefaultOptionsFile\relax
15137   \else
15138     \begingroup
15139     \InputIfFileExists{\DefaultOptionsFile}%
15140       {}%
15141     {\PackageWarning{lettrine.sty}%
15142      {File \DefaultOptionsFile\space not found}}%
15143   }%
15144   \def\color##1##{\l@color{##1}}%
15145   \let\l@color\@gobbletwo
15146   \def\textcolor##1##{\l@textcolor{##1}}%
15147   \def\l@textcolor##1##2##3{##3}%
15148   \expandafter\ifx\csname l@#2-keys\endcsname\relax
15149     \gdef\l@LOKeys{%
15150   \else
15151     \xdef\l@LOKeys{\csname l@#2-keys\endcsname}%
15152   \fi
15153   \endgroup

```



```

15154 \def\KV@prefix{KV@L@}%
15155 \let\@tempc\relax
15156 \expandafter\KV@do\l@LOKeys,\relax,
15157 \setupL@lbox
15158 \setlength{\LettrineWidth}{\wd\L@lbox}%
15159 \def\KV@prefix{KV@L@}%
15160 \let\@tempc\relax
15161 \expandafter\KV@do\l@LOKeys,\relax,
15162 \setkeys{L}{#1}%
15163 \fi
15164 \setupL@lbox
15165 \setlength{\LettrineWidth}{\wd\L@lbox}%
15166 \setlength{\LettrineHeight}{\ht\L@lbox}%
15167 \setlength{\LettrineDepth}{\dp\L@lbox}%
15168 \begingroup
15169 \def\IeC##1{##1}%
15170 \@tempdima=\L@oversize pt\relax
15171 \PackageInfo{lettrine.sty}%
15172 {Targeted height = \the\L@target@tht\MessageBreak
15173 (no accent, loversize=0),\MessageBreak
15174 Lettrine height = \the\LettrineHeight\space (#2)%
15175 \ifdim\@tempdima=z@\else\space loversize=\L@oversize\fi;%
15176 \MessageBreak reported}%
15177 \endgroup
15178 \sbox{\L@tbox}{\LettrineTextFont{#3}}%
15179 \setlength{\L@first}{\LettrineHeight}%
15180 \setlength{\L@lraise}{\L@raise\L@target@tht}%
15181 \addtolength{\L@first}{\L@lraise}%
15182 \ifnum\value{L@lines}=1
15183 \addtolength{\L@first}{-\ht\L@tbox}%
15184 \else
15185 \addtolength{\L@first}{-\L@target@tht}%
15186 \addtolength{\L@lraise}{-\L@target@dp}%
15187 \fi
15188 \par
15189 \ifdim\L@first>\L@novskip
15190 \ifL@grid
15191 \@tempdima=\baselineskip
15192 \@tempdimb=\@tempdima
15193 \advance\@tempdimb by \L@novskip
15194 \@tempcnta=1
15195 \loop\ifdim\L@first>\@tempdimb
15196 \advance\@tempcnta by 1
15197 \advance\L@first by -\@tempdima
15198 \repeat
15199 \L@first=\@tempcnta\baselineskip
15200 \fi
15201 \vskip\L@first
15202 \fi
15203 \setlength{\L@Pindent}{\wd\L@lbox}%
15204 \addtolength{\L@Pindent}{-\L@hang\wd\L@lbox}%
15205 \settowidth{\L@first}{\L@ante}%
15206 \addtolength{\L@Pindent}{\L@first}%
15207 \addtolength{\L@Pindent}{\L@Findent}%

```



```

15208 \setlength{\L@first}{\linewidth}%
15209 \addtolength{\L@first}{-\L@Pindent}%
15210 \addtolength{\L@Nindent}{\L@Pindent}%
15211 \setlength{\L@next}{\linewidth}%
15212 \addtolength{\L@next}{-\L@Nindent}%
15213 \addtolength{\L@Pindent}{\@totalleftmargin}%
15214 \addtolength{\L@Nindent}{\@totalleftmargin}%
15215 \addtocounter{L@lines}{1}%
15216 \addtocounter{L@lines}{\value{L@depth}}%
15217 \if@RTL
15218   \def\L@parshape{\c@L@lines \z@ \the\L@first}%
15219 \else
15220   \def\L@parshape{\c@L@lines \the\L@Pindent \the\L@first}%
15221 \fi
15222 \@tempcnta=\tw@
15223 \@whilenum \@tempcnta<\c@L@lines\do{%
15224   \if@RTL
15225     \edef\L@parshape{\L@parshape \z@ \the\L@next}%
15226   \else
15227     \edef\L@parshape{\L@parshape \the\L@Nindent \the\L@next}%
15228   \fi
15229   \addtolength{\L@Nindent}{\L@slope}%
15230   \addtolength{\L@next}{-\L@slope}%
15231   \advance\@tempcnta\@ne}%
15232 \if@RTL
15233   \edef\L@parshape{\L@parshape \z@ \the\linewidth}%
15234 \else
15235   \edef\L@parshape{\L@parshape \@totalleftmargin \the\linewidth}%
15236 \fi
15237 \noindent
15238 \parshape=\L@parshape\relax
15239 \smash{\llap{\mbox{\L@ante}\raisebox{\L@lraise}{\usebox{\L@lbox}}}%
15240   \hskip \the\L@Findent}}%
15241 \usebox{\L@tbox}%
15242 \ifnum\@listdepth>0 \Lreset@listparshape \fi
15243 }

```

## 99 File lineno-xetex-bidi.def

```

15244 \ProvidesFile{lineno-xetex-bidi.def}[2018/01/28 v0.2 bidi adaptations for lineno package for
15245 \bidi@patchcmd{\MakeLineNo}{%
15246   \hb@xt@\z@{\makeLineNumber}%
15247 }{%
15248   \hboxL to \z@{\makeLineNumber}%
15249 }{}{}
15250
15251 \bidi@patchcmd{\makeLineNumberLeft}{\LineNumber}{%
15252   \if@RTL
15253     \hb@xt@\linenumberwidth{\LineNumber\hss}%
15254   \else
15255     \LineNumber
15256   \fi
15257 }{}{}
15258

```



```

15259 \bidi@patchcmd{\makeLineNumberRight}{\%
15260   \hb@xt@\linewidthwidth{\hss\LineNumber}\%
15261 }{\%
15262   \if@RTL
15263     \LineNumber
15264   \else
15265     \hb@xt@\linewidthwidth{\hss\LineNumber}\%
15266   \fi
15267 }{}{}
15268
15269 \bidi@AfterPreamble{\%
15270   \if@RTLmain
15271     \rightlinenumbers*
15272   \else
15273     \leftlinenumbers*
15274   \fi
15275   \@ifpackagewith{lineno}{left}{\%
15276     \leftlinenumbers*
15277   }{}
15278   \@ifpackagewith{lineno}{right}{\%
15279     \rightlinenumbers*
15280   }{}
15281 }
15282

```

## 100 File listings-xetex-bidi.def

```

15283 \ProvidesFile{listings-xetex-bidi.def}[2018/09/15 v1.5 bidi adaptations for listings package]
15284 \lst@Key{captiondirection}{\textdirection}{\%
15285   \lstKV@SwitchCases{#1}\%
15286   {textdirection:\\%
15287     RTL:\chardef\bidi@lst@caption@direction\@ne\\%
15288     LTR:\chardef\bidi@lst@caption@direction\z@%
15289   }{\PackageError{Listings}{direction #1 unknown}\@ehc}}
15290
15291 \lst@Key{captionscript}{\textscript}{\%
15292   \lstKV@SwitchCases{#1}\%
15293   {textscript:\\%
15294     latin:\chardef\bidi@lst@caption@script\@ne\\%
15295     nonlatin:\chardef\bidi@lst@caption@script\z@%
15296   }{\PackageError{Listings}{direction #1 unknown}\@ehc}}
15297
15298 \newcommand*{\bidi@lst@ensure@caption@direction}[2]{\%
15299   \@ifundefined{bidi@lst@caption@direction}{}{\%
15300     \ifnum\bidi@lst@caption@direction=\z@%
15301       #1%
15302     \else%
15303       \ifnum\bidi@lst@caption@direction=\@ne%
15304         #2%
15305       \fi%
15306     \fi%
15307   }}
15308
15309 \newcommand*{\bidi@lst@ensure@caption@script}[2]{\%

```



```

15310 \ifundefined{bidi@lst@caption@script}{-}{%
15311 \ifnum\bidi@lst@caption@script=\z@%
15312     #1%
15313 \else%
15314     \ifnum\bidi@lst@caption@script=\@ne%
15315         #2%
15316     \fi%
15317 \fi%
15318 }}
15319
15320 \long\def\@bidi@lst@makecaption#1#2{%
15321 \bidi@lst@ensure@caption@script{\@nonlatintrue}{\@nonlatinfalse}%
15322 \vskip\abovecaptionskip
15323 \bidi@lst@ensure@caption@direction{\@RTLfalse}{\@RTLtrue}%
15324 \sbox\@tempboxa{%
15325 \bidi@lst@ensure@caption@direction{\beginL}{\beginR}%
15326 #1: #2%
15327 \bidi@lst@ensure@caption@direction{\endL}{\endR}%
15328 }%
15329 \ifdim \wd\@tempboxa >\hsize
15330     #1: #2\par
15331 \else
15332     \global \@minipagefalse
15333     \hb@xt@\hsize{\hfil\box\@tempboxa\hfil}%
15334 \fi
15335 \vskip\belowcaptionskip}%
15336 \def\lst@makecaption{\@bidi@lst@makecaption}
15337 \def\lst@maketitle{\@bidi@lst@makecaption\lst@title@dropdelim}
15338 \bidi@AtEndPreamble{%
15339 \bidi@patchcmd{\lst@MakeCaption}{%
15340     \ifx #1t%
15341         \ifx\lst@@caption\@empty\expandafter\lst@HRefStepCounter \else
15342             \expandafter\refstepcounter
15343         \fi {lstlisting}%
15344 }{%
15345     \ifx #1t%
15346         \bidi@lst@ensure@caption@direction{\@RTLfalse}{\@RTLtrue}%
15347         \ifx\lst@@caption\@empty\expandafter\lst@HRefStepCounter \else
15348             \expandafter\refstepcounter
15349         \fi {lstlisting}%
15350         \bidi@lst@ensure@caption@direction{\@RTLfalse}{\@RTLfalse}%
15351 }-}{-}%
15352 \bidi@patchcmd{\lst@MakeCaption}{%
15353     \addcontentsline{lol}{lstlisting}%
15354     {\protect\numberline{\thelstlisting}\lst@@caption}%
15355 }{%
15356 \begingroup%
15357     \bidi@lst@ensure@caption@direction{\@RTLfalse}{\@RTLtrue}%
15358     \addcontentsline{lol}{lstlisting}%
15359     {\protect\numberline{\thelstlisting}\lst@@caption}%
15360 \endgroup%
15361 }-}{-}%
15362 }
15363 \ifpackageloaded{caption}{%

```



```

15364 \AtBeginCaption{%
15365 \bidi@lst@ensure@caption@script{\@nonlatintrue}{\@nonlatinfalse}%
15366 \bidi@lst@ensure@caption@direction{\@RTLfalse}{\@RTLtrue}%
15367 }
15368 \let\bidi@lst@makecaption\caption@makecaption%
15369 \def\lst@makecaption{\caption@starfalse\bidi@lst@makecaption}%
15370 \def\lst@maketitle{\caption@startrue\bidi@lst@makecaption\empty}%
15371 }{%
15372 \AtBeginDocument{%
15373 \ifundefined{captionlabelfalse}{}%
15374 \def\lst@maketitle{\captionlabelfalse\bidi@lst@makecaption\empty}}%
15375 \ifundefined{caption@startrue}{}%
15376 \def\lst@maketitle{\caption@startrue\bidi@lst@makecaption\empty}}%
15377 }%
15378 }
15379 \AtBeginDocument{
15380 \ifundefined{thechapter}{\let\lst@ifnumberbychapter\iffalse}{%
15381 \lst@ifnumberbychapter
15382 \gdef\thelstlisting%
15383 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@lstlisting}
15384 \else
15385 \gdef\thelstlisting{\@arabic\c@lstlisting}
15386 \fi}

```

## 101 File loadingorder-xetex-bidi.def

```

15387 \ProvidesFile{loadingorder-xetex-bidi.def}[2017/12/29 v0.97 making sure that bidi is the las
15388 \bidi@isloaded{amsmath}
15389 \bidi@isloaded{amstext}
15390 \bidi@isloaded{amsthm}
15391 \bidi@isloaded{animate}
15392 \bidi@isloaded{breqn}
15393 \bidi@isloaded{cals}
15394 \bidi@isloaded{caption}
15395 \bidi@isloaded{crop}
15396 \bidi@isloaded{cuted}
15397 \bidi@isloaded{cutwin}
15398 \bidi@isloaded{color}
15399 \bidi@isloaded{dblfnote}
15400 \bidi@isloaded{diagbox}
15401 \bidi@isloaded{xcolor}
15402 \bidi@isloaded{colortbl}
15403 \bidi@isloaded{float}
15404 \bidi@isloaded{floatrow}
15405 \bidi@isloaded{flowfram}
15406 \bidi@isloaded{framed}
15407 \bidi@isloaded{ftnright}
15408 \bidi@isloaded{xltextra}
15409 \bidi@isloaded{xunicode}
15410 \bidi@isloaded{wrapfig}
15411 \bidi@isloaded{graphicx}
15412 \bidi@isloaded{geometry}
15413 \bidi@isloaded{hvfloat}
15414 \bidi@isloaded{mdframed}

```



```

15415 \bidi@isloaded{midfloat}
15416 \bidi@isloaded{ntheorem}
15417 \bidi@isloaded{ntheorem-hyper}
15418 \bidi@isloaded{hyperref}
15419 \bidi@isloaded{fancybox}
15420 \bidi@isloaded{fancyhdr}
15421 \bidi@isloaded{fix2col}
15422 \bidi@isloaded{draftwatermark}
15423 \bidi@isloaded{empheq}
15424 \bidi@isloaded{overpic}
15425 \bidi@isloaded{pdfpages}
15426 \bidi@isloaded{listings}
15427 \bidi@isloaded{lettrine}
15428 \bidi@isloaded{lineno}
15429 \bidi@isloaded{media9}
15430 \bidi@isloaded{pstricks}
15431 \bidi@isloaded{pgf}
15432 \bidi@isloaded{picinpar}
15433 \bidi@isloaded{quotchap}
15434 \bidi@isloaded{tikz}
15435 \bidi@isloaded{titlesec}
15436 \bidi@isloaded{titletoc}
15437 \bidi@isloaded{array}
15438 \bidi@isloaded{soul}
15439 \bidi@isloaded{stabular}
15440 \bidi@isloaded{subfig}
15441 \bidi@isloaded{subfigure}
15442 \bidi@isloaded{supertabular}
15443 \bidi@isloaded{xtab}
15444 \bidi@isloaded{longtable}
15445 \bidi@isloaded{arydshln}
15446 \bidi@isloaded{multicol}
15447 \bidi@isloaded{multienum}
15448 \bidi@isloaded{minitoc}
15449 \bidi@isloaded{natbib}
15450 \bidi@isloaded{newfloat}
15451 \bidi@isloaded{ragged2e}
15452 \bidi@isloaded{rotating}
15453 \bidi@isloaded{tbls}
15454 \bidi@isloaded{tabulary}
15455 \bidi@isloaded{tocbasic}
15456 \bidi@isloaded{tocstyle}
15457 \bidi@isloaded{tocbibind}
15458 \bidi@isloaded{fontspec}
15459 \bidi@isloaded{arabxetex}
15460 \bidi@isloaded{polyglossia}
15461 \bidi@isloaded{fancyvrb}
15462 \AtBeginDocument{
15463   \if@bidi@amsmathloaded@else
15464     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package amsmath after bidi pack
15465   \fi%
15466   \if@bidi@amstextloaded@else
15467     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package amstext after bidi pack
15468   \fi%

```





```

15469 \if@bidi@amsthmloaded@else
15470   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package amsthm after bidi packa
15471 \fi%
15472 \if@bidi@animateloaded@else
15473   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package animate after bidi packa
15474 \fi%
15475 \if@bidi@breqnloaded@else
15476   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package breqn after bidi packag
15477 \fi%
15478 \if@bidi@calsloaded@else
15479   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package cals after bidi package
15480 \fi%
15481 \if@bidi@captionloaded@else
15482   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package caption after bidi pack
15483 \fi%
15484 \if@bidi@croplloaded@else
15485   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package crop after bidi package
15486 \fi%
15487 \if@bidi@colorloaded@else
15488   \ifpackageloaded{hyperref}{}{}%
15489   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package color after bidi packag
15490 \fi%
15491 \if@bidi@cutwinloaded@else
15492   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package cutwin after bidi packa
15493 \fi%
15494   \if@bidi@cutedloaded@else
15495     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package cuted after bidi packag
15496 \fi%
15497 \if@bidi@dblfnoteloaded@else
15498   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package dblfnote after bidi pac
15499 \fi%
15500 \if@bidi@diagboxloaded@else
15501   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package diagbox after bidi pack
15502 \fi%
15503 \if@bidi@xcolorloaded@else
15504   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package xcolor after bidi packa
15505 \fi%
15506 \if@bidi@colortblloaded@else
15507   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package colortbl after bidi pac
15508 \fi%
15509 \if@bidi@floatloaded@else
15510   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package float after bidi packag
15511 \fi%
15512   \if@bidi@floatrowloaded@else
15513     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package floatrow after bidi pac
15514 \fi%
15515 \if@bidi@flowframloaded@else
15516   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package flowfram after bidi pac
15517 \fi%
15518 \if@bidi@framedloaded@else
15519   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package framed after bidi packa
15520 \fi%
15521   \if@bidi@ftnrightloaded@else
15522     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package ftnright after bidi pac

```



```

15523 \fi%
15524 \if@bidi@xltxtraloaded@else
15525     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package xltxtra after bidi pack
15526 \fi%
15527 \if@bidi@xunicodeloaded@else
15528     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package xunicode after bidi pack
15529 \fi%
15530 \if@bidi@wrapfigloaded@else
15531     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package wrapfig after bidi pack
15532 \fi%
15533 \if@bidi@graphicxloaded@else
15534     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package graphicx after bidi pack
15535 \fi%
15536     \if@bidi@geometryloaded@else
15537         \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package geometry after bidi pack
15538 \fi%
15539 \if@bidi@hvfloatloaded@else
15540     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package hvfloat after bidi pack
15541 \fi%
15542     \if@bidi@mdframedloaded@else
15543         \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package mdframed after bidi pack
15544 \fi%
15545         \if@bidi@midfloatloaded@else
15546             \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package midfloat after bidi pack
15547 \fi%
15548         \if@bidi@nththeoremloaded@else
15549             \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package nththeorem after bidi pack
15550 \fi%
15551 \if@bidi@hyperrefloaded@else
15552     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package hyperref after bidi pack
15553 \fi%
15554     \if@bidi@fancyboxloaded@else
15555         \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package fancybox after bidi pack
15556 \fi%
15557 \if@bidi@fancyhdrloaded@else
15558     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package fancyhdr after bidi pack
15559 \fi%
15560 \if@bidi@draftwatermarkloaded@else
15561     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package draftwatermark after bi
15562 \fi%
15563 \if@bidi@empheqloaded@else
15564     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package empheq after bidi packa
15565 \fi%
15566     \if@bidi@overpicloaded@else
15567         \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package overpic after bidi pack
15568 \fi%
15569 \if@bidi@pdfpagesloaded@else
15570     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package pdfpages after bidi pack
15571 \fi%
15572 \if@bidi@lettrineloaded@else
15573     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package lettrine after bidi pack
15574 \fi%
15575 \if@bidi@linenoloaded@else
15576     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package lineno after bidi packa

```



```

15577 \fi%
15578 \if@bidi@listingsloaded@else
15579     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package listings after bidi pac
15580 \fi%
15581 \csname if@bidi@media9loaded@endcsname\else
15582     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package media9 after bidi packa
15583 \fi%
15584 \if@bidi@pstricksloaded@else
15585     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package pstricks after bidi pac
15586 \fi%
15587 \if@bidi@pgfloaded@else
15588     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package pgf after bidi package.
15589 \fi%
15590 \if@bidi@picinparloaded@else
15591     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package picinpar after bidi pac
15592 \fi%
15593 \if@bidi@quotchaploaded@else
15594     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package quotchap after bidi pac
15595 \fi%
15596 \if@bidi@tikzloaded@else
15597     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package tikz after bidi package
15598 \fi%
15599 \if@bidi@titlesecloaded@else
15600     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package titlesec after bidi pac
15601 \fi%
15602 \if@bidi@titletocloaded@else
15603     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package titletoc after bidi pac
15604 \fi%
15605 \if@bidi@arrayloaded@else
15606     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package array after bidi packag
15607 \fi%
15608 \if@bidi@stabularloaded@else
15609     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package stabular after bidi pac
15610 \fi%
15611 \if@bidi@soulloaded@else
15612     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package soul after bidi package
15613 \fi%
15614 \if@bidi@subfigloaded@else
15615     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package subfig after bidi packa
15616 \fi%
15617 \if@bidi@subfigureloaded@else
15618     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package subfigure after bidi pa
15619 \fi%
15620 \if@bidi@supertabularloaded@else
15621     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package supertabular after bidi
15622 \fi%
15623 \if@bidi@xtableloaded@else
15624     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package xtab after bidi package
15625 \fi%
15626 \if@bidi@longtableloaded@else
15627     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package longtable after bidi pa
15628 \fi%
15629 \if@bidi@arydshlnloaded@else
15630     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package arydshln after bidi pac

```



```

15631 \fi%
15632 \if@bidi@multicolloaded@else
15633   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package multicol after bidi pac
15634 \fi%
15635 \if@bidi@multienumloaded@else
15636   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package multienum after bidi pa
15637 \fi%
15638 \if@bidi@minitocloaded@else
15639   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package minitoc after bidi pack
15640 \fi%
15641 \if@bidi@natbibloaded@else
15642   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package natbib after bidi packa
15643 \fi%
15644   \if@bidi@newfloatloaded@else
15645     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package newfloat after bidi pac
15646 \fi%
15647 \csname if@bidi@ragged2loaded@endcsname\else
15648   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package ragged2e after bidi pac
15649 \fi%
15650   \if@bidi@rotatingloaded@else
15651     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package rotating after bidi pac
15652 \fi%
15653 \if@bidi@tblsloaded@else
15654   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package tbls after bidi packag
15655 \fi%
15656 \if@bidi@tabularyloaded@else
15657   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package tabulary after bidi pac
15658 \fi%
15659 \if@bidi@tocbasicloaded@else
15660   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package tocbasic after bidi pac
15661 \fi%
15662 \if@bidi@tocstyleloaded@else
15663   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package tocstyle after bidi pac
15664 \fi%
15665 \if@bidi@tocbibindloaded@else
15666   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package tocbibind after bidi pa
15667 \fi%
15668 \if@bidi@fontspecloaded@else
15669   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package fontspec after bidi pac
15670 \fi%
15671 \if@bidi@arabxetexloaded@else
15672   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package arabxetex after bidi pa
15673 \fi%
15674 \if@bidi@polyglossialloaded@else
15675   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package polyglossia after bidi
15676 \fi%
15677 \if@bidi@fancyvrbloaded@else
15678   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package fancyvrb after bidi pac
15679 \fi%
15680 }

```

## 102 File longtable-xetex-bidi.def

```

15681 \ProvidesFile{longtable-xetex-bidi.def}[2022/05/20 v0.6 bidi adaptations for longtable packa

```



```

15682 \def\LT@array[#1]#2{%
15683   \refstepcounter{table}\stepcounter{LT@tables}%
15684   \if l#1%
15685     \if@RTLtab\LTleft\fill \LTright\z@\else\LTleft\z@ \LTright\fill\fi
15686   \else\if r#1%
15687     \if@RTLtab\LTleft\z@ \LTright\fill\else\LTleft\fill \LTright\z@\fi
15688   \else\if c#1%
15689     \LTleft\fill \LTright\fill
15690   \fi\fi\fi
15691   \let\LT@mcol\multicolumn
15692   \let\LT@@tabarray\@tabarray
15693   \let\LT@@hl\hline
15694   \def\@tabarray{%
15695     \let\hline\LT@@hl
15696     \LT@@tabarray}%
15697   \let\\LT@tabularcr\let\tabularnewline\\
15698   \def\newpage{\noalign{\break}}%
15699   \def\pagebreak{\noalign{\ifnum`}=0\fi\@testopt{\LT@no@pgbk-}4}%
15700   \def\nopagebreak{\noalign{\ifnum`}=0\fi\@testopt{\LT@no@pgbk4}}%
15701   \let\hline\LT@hline \let\kill\LT@kill\let\caption\LT@caption
15702   \@tempdima\ht\strutbox
15703   \let\@endpbox\LT@endpbox
15704   \ifx\extrarowheight\@undefined
15705     \let\@acol\@tabacol
15706     \let\@classz\@tabclassz \let\@classiv\@tabclassiv
15707     \def\@startpbox{\vtop\LT@startpbox}%
15708     \let\@@startpbox\@startpbox
15709     \let\@@endpbox\@endpbox
15710     \let\LT@LL@FM@cr\@tabularcr
15711   \else
15712     \advance\@tempdima\extrarowheight
15713     \col@sep\tabcolsep
15714     \let\@startpbox\LT@startpbox\let\LT@LL@FM@cr\@arraycr
15715   \fi
15716   \setbox\@arstrutbox\hbox{\vrule
15717     \@height \arraystretch \@tempdima
15718     \@depth \arraystretch \dp \strutbox
15719     \@width \z@}%
15720   \let\@sharp#\let\protect\relax
15721   \begingroup
15722     \@mkpream{#2}%
15723     \xdef\LT@bchunk{%
15724       \global\advance\c@LT@chunks\@ne
15725       \global\LT@rows\z@\setbox\z@\vbox\bgroup
15726       \LT@setprevdepth
15727       \tabskip\LTleft \noexpand\halign to\hsize\bgroup
15728       \tabskip\z@ \@arstrut \@preamble \tabskip\LTright \cr}%
15729   \endgroup
15730   \expandafter\LT@nofcols\LT@bchunk&\LT@nofcols
15731   \LT@make@row
15732   \m@th\let\par\@empty
15733   \everycr{}\lineskip\z@\baselineskip\z@
15734   \LT@bchunk}
15735 \def\LT@makecaption#1#2#3{%

```



```

15736 \LT@mc@col\LT@cols c{\hbox to\z@{\hss\parbox[t]\LTcapwidth{%
15737 \sbox\@tempboxa{\if@RTL\beginR\fi#1{#2: }#3\if@RTL\endR\fi}%
15738 \ifdim\wd\@tempboxa>\hsize
15739 #1{#2: }#3%
15740 \else
15741 \hbox to\hsize{\hfil\box\@tempboxa\hfil}%
15742 \fi
15743 \endgraf\vskip\baselineskip}%
15744 \hss}}
15745 \ifpackageloaded{caption}{%
15746 \renewcommand\LT@makecaption[3]{%
15747 \caption@LT@make{%
15748 \caption@LT@settype\LTcaptype
15749 \caption@LT@setup
15750 \caption@setautoposition{\ifcase\LT@rows t\else b\fi}%
15751 \caption@startrue#1\caption@starfalse
15752 \caption@prepare@stepcounter\LTcaptype
15753 \caption@begin\LTcaptype
15754 \caption@normalsize
15755 \vskip-\ht\strutbox
15756 \caption@ifdefined\FBifcapttop{%
15757 \let\caption@belowskip\@empty}{}%
15758 \caption@make@above
15759 \caption@@make{#2}{#3}\endgraf
15760 \caption@make@below
15761 \caption@end}}}%
15762 }{}
15763 \def\LT@startpbox#1{%
15764 \bgroup\color@begingroup
15765 \let\@footnotetext\LT@p@ftntext
15766 \let\@LTRfootnotetext\LT@p@LTRftntext
15767 \let\@RTLfootnotetext\LT@p@RTLftntext
15768 \setlength\hsize{#1}%
15769 \@arrayparboxrestore
15770 \vrule \@height \ht\@arstrutbox \@width \z@}
15771 \def\LT@p@LTRftntext#1{%
15772 \edef\@tempa{\the\LT@p@ftn\noexpand\LTRfootnotetext[\the\c@footnote]}}%
15773 \global\LT@p@ftn\expandafter{\@tempa{#1}}}%
15774 \def\LT@p@RTLftntext#1{%
15775 \edef\@tempa{\the\LT@p@ftn\noexpand\RTLfootnotetext[\the\c@footnote]}}%
15776 \global\LT@p@ftn\expandafter{\@tempa{#1}}}%
15777
15778
15779 \def\LT@output{%
15780 \ifnum\outputpenalty <-\@Mi
15781 \ifnum\outputpenalty > -\LT@end@pen
15782 \LT@err{floats and marginpars not allowed in a longtable}\@ehc
15783 \else
15784 \setbox\z@\vbox{\unvbox\@cc@lv}%
15785 \ifdim \ht\LT@lastfoot>\ht\LT@foot
15786 \dimen@ \pagegoal
15787 \advance\dimen@-\ht\LT@lastfoot
15788 \ifdim\dimen@<\ht\z@
15789 \setbox\@cc@lv\vbox{\unvbox\z@\copy\LT@foot\vss}%

```



```

15790         \@makecol
15791         \@outputpage
15792         \setbox\z@\vbox{\box\LT@head}%
15793         \fi
15794     \fi
15795     \global\@colroom\@colht
15796     \global\vsizel\@colht
15797     \vbox
15798     {\if@RTLtab\hbox\bgroup\beginR\vbox\bgroup\fi\unvbox\z@\box\ifvoid\LT@lastfoot\LT@fo
15799     \fi
15800 \else
15801     \setbox\@cclv\vbox{\if@RTLtab\hbox\bgroup\beginR\vbox\bgroup\fi\unvbox\@cclv\copy\LT@fo
15802     \@makecol
15803     \@outputpage
15804     \global\vsizel\@colroom
15805     \copy\LT@head\nobreak
15806 \fi}

```

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

```

15807 \ProvidesFile{lscope-xetex-bidi.def}[2022/02/18 v0.1 bidi adaptations for lscope package for
15808 \bidi@patchcmd{\LS@rot}{\rotatebox{90}{\box\@outputbox}}{%
15809 \if@RTL
15810     \rotatebox[origin=br]{-90}{\box\@outputbox}%
15811 \else
15812     \rotatebox{90}{\box\@outputbox}%
15813 \fi
15814 }{}{}
15815 \g@addto@macro{\landscape}{%
15816 \let\bidi@left@footnoterule\left@footnoterule
15817 \let\bidi@right@footnoterule\right@footnoterule
15818 \def\left@footnoterule{%
15819 \if@RTL
15820     \bidi@right@footnoterule
15821 \else
15822     \bidi@left@footnoterule
15823 \fi
15824 }%
15825 \def\right@footnoterule{%
15826 \if@RTL
15827     \bidi@left@footnoterule
15828 \else
15829     \bidi@right@footnoterule
15830 \fi
15831 }%
15832 }

```

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

```

15833 \ProvidesFile{mathtools-xetex-bidi.def}[2018/01/07 v0.1 bidi adaptations for mathtools packa
15834 \MHInternalSyntaxOn
15835 \def\MT_define_tagform:nwnn #1[#2]#3#4{
15836     \@namedef{MT_tagform_#1:n}##1
15837     {\maketag@@@{\if@nonlatin\beginR\fi#3\kern\z@\ignorespaces#2{##1}\unskip\@italiccorr#4}

```



```

15838 }
15839 \renewtagform{default}{({}{})}
15840 \MHInternalSyntaxOff

```

## 105 File mdframed-xetex-bidi.def

```

15841 \ProvidesFile{mdframed-xetex-bidi.def}[2013/09/22 v0.4 bidi adaptations for mdframed package]
15842 \newif\if@bidi@mdf@RTL
15843 \def\mdf@lrbox#1{%
15844   \mdf@patchamsthm%patch amsthm
15845   \if@RTL\@bidi@mdf@RTLtrue\fi%
15846   \@RTLfalse%
15847   \setbox#1\vbox\bgroup%
15848   \color@begingroup%
15849   \if@bidi@mdf@RTL\@RTLtrue\fi%
15850   \mdf@horizontalmargin@equation%
15851   \columnwidth=\hsize%
15852   \textwidth=\hsize%
15853   \let\if@nobreak\iffalse%
15854   \let\if@noskipsec\iffalse%
15855   \let\par\@par%
15856   \let\-\@dischph%
15857   \let'\@acci\let`\@accii\let\=\@acciii%
15858   \parindent\z@ \parskip\z@skip%
15859   \linewidth\hsize%
15860   \@totalleftmargin\z@%
15861   \leftskip\z@skip \rightskip\z@skip \@rightskip\z@skip%
15862   \parfillskip\@flushglue \lineskip\normallineskip%
15863   \baselineskip\normalbaselineskip%
15864 %% \sloppy%
15865   \let\\\@normalcr%
15866   \mdf@par@local%New feature to restore parskip/parindent local in save box
15867   \ifbool{mdf@suppressfirstparskip}{\vspace*{-\parskip}}{}%
15868   \@afterindentfalse%
15869   %\@afterheading%
15870 }
15871 \renewrobustcmd\mdfframedtitleenv[1]{%
15872   \mdf@lrbox{\mdf@frametitlebox}%
15873   \mdf@frametitlealignment%
15874   \leavevmode{\color{\mdf@frametitlefontcolor}%
15875     \normalfont\mdf@frametitlefont{#1}
15876     \ifbool{mdf@ignorelastdescenders}%
15877       {%
15878         \par\strut\par
15879         \unskip\unskip\setbox0=\lastbox
15880         \vspace*{\dimexpr\ht\strutbox-\baselineskip\relax}%
15881       }{}%
15882     \par\unskip\ifvmode\nointerlineskip\hrule \@height\z@ \@width\hsize\fi%
15883   \endmdf@lrbox\relax%
15884   \mdf@ignorevbadness%
15885   \setbox\mdf@frametitlebox=\vbox{\unvbox\mdf@frametitlebox}%
15886   \mdfframetitleboxwidth=\wd\mdf@frametitlebox\relax%
15887   \mdfframetitleboxheight=\ht\mdf@frametitlebox\relax%
15888   \mdfframetitleboxdepth=\dp\mdf@frametitlebox\relax%

```





```

15889 \mdfframetitleboxtotalheight=\dimexpr
15890 \ht\mdf@frametitlebox
15891 +\dp\mdf@frametitlebox%
15892 +\mdf@frametitleaboveskip@length
15893 +\mdf@frametitlebelowskip@length
15894 \relax%
15895 }
15896
15897 \renewrobustcmd*\mdf@footnoteoutput{%
15898 \ifvoid\@mpfootins\else%
15899 \nobreak%
15900 \vskip\mdf@footnotedistance@length%
15901 \normalcolor%
15902 \bidi@mpfootnoterule%
15903 \unvbox\@mpfootins%
15904 \fi%
15905 }
15906
15907
15908 \renewrobustcmd*\mdf@footnoteinput{%
15909 \def\@mpfn{mpfootnote}%
15910 \def\thempfn{\thempfootnote}%
15911 \c@mpfootnote\z@%
15912 \let\@footnotetext\@mpfootnotetext%
15913 \let\@LTRfootnotetext\@mpLTRfootnotetext%
15914 \let\@RTLfootnotetext\@mpRTLfootnotetext%
15915 }

```

## 106 File bidi-media9.sty

```

15916 \ProvidesExplPackage{bidi-media9}{2022/02/18}{0.4}
15917 {bidi fixes for media9 package for the XeTeX engine}
15918
15919 \keys_define:nn{media9/mbtn}{
15920 draft .code:n = {},
15921 final .code:n = {},
15922
15923 tooltip .tl_gset_x:N = \g_mix_tooltip_tl,
15924 tooltip .value_required:n = {true},
15925
15926 overface .code:n = {
15927 \sbox\l_mix_poster_box{
15928 \bool_if:NTF\g_pbs_lscape_bool{\rotatebox{90}{#1}}{\if@RTL\beginR\fi#1\if@RTL\endR\fi}
15929 \mix_pdfxform:n{\l_mix_poster_box}
15930 \tl_gset:Nx\g_mix_overbtn_tl{\mix_pdflastxform:}
15931 },
15932 overface .value_required:n = {true},
15933
15934 downface .code:n = {
15935 \sbox\l_mix_poster_box{
15936 \bool_if:NTF\g_pbs_lscape_bool{\rotatebox{90}{#1}}{\if@RTL\beginR\fi#1\if@RTL\endR\fi}
15937 \mix_pdfxform:n{\l_mix_poster_box}
15938 \tl_gset:Nx\g_mix_downbtn_tl{\mix_pdflastxform:}
15939 },

```



```

15940 downface .value_required:n = {true},
15941
15942 3Dgotoview .code:n = {
15943   \tl_set:Nx\l_tmpa_tl{#1} %extract ref
15944   \regex_replace_once:nnN{([~:~]+):??.*}{\1}\l_tmpa_tl
15945   \tl_trim_spaces:N\l_tmpa_tl
15946   \tl_if_exist:cTF{ann@\l_tmpa_tl}{
15947     \str_if_eq:eeF{\tl_use:c{ann@\l_tmpa_tl}}{draft}{
15948       \tl_set:Nx\l_tmpb_tl{#1} %extract idx
15949       \regex_replace_once:nnN{[~:~]+:~?}{\1}\l_tmpb_tl
15950       \tl_trim_spaces:N\l_tmpb_tl
15951       \tl_if_blank:VF\l_tmpb_tl{
15952         \regex_match:nVTF{^[DFLNP]$}\l_tmpb_tl{
15953           \tl_set:Nx\l_mix_vidx_tl{/\l_tmpb_tl}
15954         }{
15955           \regex_match:nVTF{^~d+$}\l_tmpb_tl{
15956             \tl_set:Nx\l_mix_vidx_tl{~\l_tmpb_tl}
15957           }{
15958             \regex_replace_once:nnN{^~(\s*)}{\1}\l_tmpb_tl
15959             \regex_replace_once:nnN{(\s*)$}{\1}\l_tmpb_tl
15960             \tl_set:Nx\l_mix_vidx_tl{~(\l_tmpb_tl)}
15961           }
15962         }
15963       }
15964       \mix_pdfobj:nnn{}{dict}{
15965         /S/JavaScript/JS~(
15966           if(typeof(annotRM)=='undefined'){annotRM=new~Array();}
15967           if(typeof(annotRM['\l_tmpa_tl'])=='undefined'){
15968             annotRM['\l_tmpa_tl']=
15969             this.getAnnotRichMedia(\tl_use:c{page@\l_tmpa_tl},'\l_tmpa_tl');
15970           }
15971           annotRM['\l_tmpa_tl'].activated=true;
15972         )
15973         \tl_if_blank:VF\l_tmpb_tl{
15974           /Next~<<
15975           /S/GoTo3DView
15976           /TA~\tl_use:c{ann@\l_tmpa_tl}
15977           /V\l_mix_vidx_tl
15978           >>
15979         }
15980       }
15981       \tl_gput_right:Nx\g_mix_btnactions_tl{~\mix_pdflastobj:}
15982     }
15983   }{
15984     \msg_warning:nnx{media9}{undefined~reference}{\l_tmpa_tl}
15985     \cs_if_exist:NF\g_mix_refundefwarned_tl{
15986       \tl_new:N\g_mix_refundefwarned_tl
15987       \AtEndDocument{\msg_warning:nn{media9}{undefined~references}}
15988     }
15989   }
15990 },
15991 3Dgotoview .value_required:n = {true},
15992
15993 mediacommand .code:n = {

```



```

15994 \tl_set:Nx\l_tmpa_tl{#1}
15995 \regex_replace_once:nnN{([~:~]+):??.*}{\1}\l_tmpa_tl %extract ref
15996 \tl_trim_spaces:N\l_tmpa_tl
15997 \tl_if_exist:cTF{ann@\l_tmpa_tl}{
15998   \str_if_eq:eeF{\tl_use:c{ann@\l_tmpa_tl}}{draft}{
15999     \tl_set:Nx\l_tmpb_tl{#1}
16000     \regex_replace_once:nnN{([~:~]+):??.*}{\1}\l_tmpb_tl
16001     \tl_trim_spaces:N\l_tmpb_tl
16002     \regex_replace_all:nnN{^(\|\\$)}{\1}\l_tmpb_tl
16003     \tl_set:Nx\l_mix_cmd_tl{
16004       \exp_after:wN\mix_separate_cmd_from_actn:w\l_tmpb_tl[]\q_stop}
16005     \tl_trim_spaces:N\l_mix_cmd_tl
16006     \tl_set:Nx\l_mix_arg_tl{
16007       \exp_after:wN\mix_separate_arg_from_actn:w\l_tmpb_tl[]\q_stop}
16008     \tl_trim_spaces:N\l_mix_arg_tl
16009     \mix_pdfobj:nnn{}{dict}{
16010       /S/JavaScript/JS~(
16011         if(typeof(annotRM)=='undefined'){annotRM=new~Array();}
16012         if(typeof(annotRM['\l_tmpa_tl'])=='undefined'){
16013           annotRM['\l_tmpa_tl']=
16014             this.getAnnotRichMedia(\tl_use:c{page@\l_tmpa_tl},'\l_tmpa_tl');
16015         }
16016         annotRM['\l_tmpa_tl'].activated=true;
16017       )
16018       \tl_if_blank:VF\l_mix_cmd_tl{
16019         /Next~<<
16020         /S/RichMediaExecute
16021         /TA~\tl_use:c{ann@\l_tmpa_tl}
16022         /TI~\tl_use:c{main@\l_tmpa_tl}
16023         /CMD~<<
16024         /C~(\l_mix_cmd_tl)
16025         \tl_if_blank:VF\l_mix_arg_tl{
16026           /A~[\l_mix_arg_tl]
16027         }
16028         >>
16029       }
16030     }
16031   }
16032   \tl_gput_right:Nx\g_mix_btnactions_tl{~\mix_pdflastobj:}
16033 }
16034 }{
16035   \msg_warning:nnx{media9}{undefined~reference}{\l_tmpa_tl}
16036   \cs_if_exist:NF\g_mix_refundefwarned_tl{
16037     \tl_new:N\g_mix_refundefwarned_tl
16038     \AtEndDocument{\msg_warning:nn{media9}{undefined~references}}
16039   }
16040 }
16041 },
16042 mediacommand .value_required:n = {true},
16043
16044 jsaction .code:n = {
16045   \tl_set:Nx\l_tmpa_tl{#1}
16046   \regex_match:nVTF{^[~:~]+:.*$}\l_tmpa_tl{
16047     \regex_replace_once:nnN{([~:~]+):??.*}{\1}\l_tmpa_tl %extract ref

```



```

16048     \tl_trim_spaces:N\l_tmpa_tl
16049   }{\tl_clear:N\l_tmpa_tl}
16050   \tl_set:Nx\l_tmpb_tl{#1}
16051   \tl_if_blank:VF\l_tmpa_tl{
16052     \tl_if_exist:cF{ann@\l_tmpa_tl}{
16053       \msg_warning:nnx{media9}{undefined-reference}{\l_tmpa_tl}
16054       \cs_if_exist:NF\g_mix_refundefwarned_tl{
16055         \tl_new:N\g_mix_refundefwarned_tl
16056         \AtEndDocument{\msg_warning:nn{media9}{undefined-references}}
16057       }
16058     }
16059     \regex_replace_once:nnN{[^:]+\:}{\l_tmpb_tl
16060   }
16061   \tl_set:Nx\l_tmpb_tl{\exp_after:wN\use:n\l_tmpb_tl}
16062   \tl_trim_spaces:N\l_tmpb_tl
16063   \tl_if_blank:VF\l_tmpb_tl{
16064     \mix_pdfobj:nnn{}{dict}{
16065       /S/JavaScript/JS~(
16066         try{\l_tmpb_tl}catch(e){console.show();console.println(e)}))}
16067   \bool_lazy_and:nnT{
16068     \tl_if_exist_p:c{ann@\l_tmpa_tl}
16069   }{
16070     !\str_if_eq_p:ee{\tl_use:c{ann@\l_tmpa_tl}}{draft}
16071   }{
16072     \mix_pdfobj:nnn{}{dict}{
16073       /S/JavaScript/JS~(
16074         if(typeof(annotRM)=='undefined'){annotRM=new~Array();}
16075         if(typeof(annotRM['\l_tmpa_tl'])=='undefined'){
16076           annotRM['\l_tmpa_tl']=
16077             this.getAnnotRichMedia(\tl_use:c{page@\l_tmpa_tl},'\l_tmpa_tl');
16078         }
16079         annotRM['\l_tmpa_tl'].activated=true;
16080       )
16081       \tl_if_blank:VF\l_tmpb_tl{/Next~\mix_pdflastobj:}
16082     }
16083   }
16084   \bool_if:nT{
16085     \bool_lazy_and_p:nn{
16086       \tl_if_exist_p:c{ann@\l_tmpa_tl}
16087     }{
16088       !\str_if_eq_p:ee{\tl_use:c{ann@\l_tmpa_tl}}{draft}
16089     }
16090     || !\tl_if_blank_p:V\l_tmpb_tl
16091   }{
16092     \tl_gput_right:Nx\g_mix_btnactions_tl{~\mix_pdflastobj:}
16093   }
16094 },
16095 jsaction .value_required:n = {true},
16096
16097 unknown .code:n = {
16098   \msg_error:nnx{media9}{unknown-option}{\l_keys_key_tl}
16099 }
16100 }
16101

```



```

16102 \RenewDocumentCommand\includemedia{0{mm}}{%#1 options, #2 text/image #3 media file
16103   \mix_uriend:
16104   \group_begin:
16105   \mix_beginLTR:
16106   \mode_leave_vertical:
16107   %empty stream as appearance dummy
16108   \cs_if_exist:NF\g_mix_appearance_tl{
16109     \hbox_set:Nn\l_mix_poster_box{\phantom{\rule{1pt}{1pt}}}
16110     \mix_pdfxform:n{\l_mix_poster_box}
16111     \tl_gset:Nx\g_mix_appearance_tl{\mix_pdflastxform:}
16112   }
16113   \mix_reset:
16114   \mix_uribegin: %treat URI characters correctly
16115   \keys_set:nn{media9/user}{#1}
16116   \mix_uriend:
16117   \tl_greplace_all:Nnn\g_mix_flashvars_tl{~&}{&}
16118   \tl_greplace_all:Nnn\g_mix_flashvars_tl{&~}{&}
16119   \tl_greplace_all:Nnn\g_mix_flashvars_tl{~=}{=}
16120   \tl_greplace_all:Nnn\g_mix_flashvars_tl{=}{=}
16121   \tl_gtrim_spaces:N\g_mix_flashvars_tl
16122
16123   \cs_if_exist:NT\Ginput@path{\cs_set_eq:NN\input@path\Ginput@path}
16124
16125   %\hbox_set:Nn\l_mix_poster_box{\group_begin:#2\group_end:}
16126   %\hbox_set:Nn\l_mix_poster_box{#2}
16127   \sbox\l_mix_poster_box{\if@RTL\beginR\fi#2\if@RTL\endR\fi}
16128   \mix_scale:n{\l_mix_poster_box}
16129   \bool_if:nT{
16130     \dim_compare_p:n{\g_mix_tt_tl=\c_zero_dim}||
16131     \dim_compare_p:n{\g_mix_wd_tl=\c_zero_dim}
16132   }{
16133     \tl_gset:Nn\g_mix_usrpbtn_tl{none}
16134   }
16135   \bool_if:NTF\g_mix_usrdraft_bool{
16136     \tl_if_empty:NF\g_mix_usrlabel_tl{
16137       \mix_keytoaux_now:nn{ann@\g_mix_usrlabel_tl}{draft}
16138     }
16139     \tl_if_blank:oTF{#2}{
16140       \mix_uribegin: %treat URI characters correctly
16141       \mix_draftbox:n{\tl_to_str:n{#3}}
16142       \mix_uriend:
16143     }{
16144       \hbox_to_wd:nn{\g_mix_wd_tl}{
16145         \vrule~width~\c_zero_dim~height~\g_mix_ht_tl~depth~\g_mix_dp_tl
16146         \box_use:N\l_mix_poster_box\hss
16147       }
16148     }
16149   }{
16150     \bool_if:nF{\str_if_eq_p:Vn\g_mix_usrpbtn_tl{none}}{
16151       %attach script that switches off play button overlay upon activation
16152       \mix_pdfobj:nnn{}{stream}{
16153         {}{
16154           var~ocgs=host.getOCGs(host.pageNum);
16155           for(var~i=0;i<ocgs.length;i++){

```



```

16156         if(ocgs[i].name=='MediaPlayButton\int_use:N\g_mix_rmcnt_int'){
16157             ocgs[i].state=false;
16158         }
16159     }
16160 }
16161 }
16162 \mix_pdfobj:nnn{}{dict}{
16163     /Type/Filespec/EF~<</F~\mix_pdflastobj:>>/F~(btnoff)%/UF~(btnoff)
16164 }
16165 \tl_gset:Nx\g_mix_assets_tl{(btnoff)~\mix_pdflastobj:}
16166 \tl_set:Nx\l_mix_scripts_tl{~\mix_pdflastobj:~}
16167 %enforce plain playbutton overlay for XeTeX
16168 \sys_if_engine_xetex:T{\tl_gset:Nn\g_mix_usrpbtn_tl{plain}}
16169 }
16170 %embed main asset
16171 \mix_uribegin:
16172 \mix_embedasset:n{#3}
16173 \bool_if:nTF{
16174     \str_if_eq_p:Vn\l_mix_ext_tl{prc}||\str_if_eq_p:Vn\l_mix_ext_tl{u3d}
16175 }{
16176     \bool_gset_true:N\g_mix_iiid_bool
16177     \tl_gset:Nn\g_mix_mainassetsub_tl{3D}
16178 }{
16179     \str_case_e:nnF{\l_mix_base_tl}{
16180         {APlayer}{\tl_gset:Nn\g_mix_mainassetsub_tl{Sound}}
16181         {AudioPlayer}{\tl_gset:Nn\g_mix_mainassetsub_tl{Sound}}
16182         {VPlayer}{\tl_gset:Nn\g_mix_mainassetsub_tl{Video}}
16183         {VideoPlayer}{\tl_gset:Nn\g_mix_mainassetsub_tl{Video}}
16184         {StrobeMediaPlayback}{\tl_gset:Nn\g_mix_mainassetsub_tl{Video}}
16185     }{\tl_gset:Nn\g_mix_mainassetsub_tl{Flash}}
16186 }
16187 \tl_gset:Nx\g_mix_mainasset_tl{~\g_mix_lastasset_tl}
16188 \mix_uriend:
16189 %secondary assets (added by addresource)
16190 \seq_map_function:NN\g_mix_res_seq\mix_embedasset:n
16191 \seq_map_inline:Nn\g_mix_script_seq{
16192     \mix_embedasset:n{##1}
16193     \tl_put_right:Nx\l_mix_scripts_tl{~\g_mix_lastasset_tl}
16194 }
16195 %attach 3D calculation script
16196 \bool_if:nT{\g_mix_iiid_bool && \g_mix_iiidcalc_bool}{
16197     \mix_embedasset:n{3Dmenu.js}
16198     \tl_put_left:Nx\l_mix_scripts_tl{\g_mix_lastasset_tl~}
16199 }
16200 %create 3D views from file (option 3Dviews)
16201 \bool_if:nT{\g_mix_iiid_bool && !(\tl_if_blank_p:V\g_mix_vfile_tl)}{
16202     \tl_set:Nn\l_mix_level_tl{-1}
16203     \int_zero:N\l_mix_viewcnt_int
16204     \int_zero:N\l_mix_lineno_int
16205
16206     \ior_open:Nn\l_mix_vfile_stream{\g_mix_vfile_tl}
16207     \ior_map_inline:Nn\l_mix_vfile_stream{
16208         \int_incr:N\l_mix_lineno_int
16209         \keys_set:nn{media9/views}{##1} %process input line

```



```

16210     }
16211     \ior_close:N\l_mix_vfile_stream
16212 }
16213 \bool_if:nT{ %create default 3D view if required
16214   \g_mix_iiid_bool &&
16215   (\g_mix_opt_iiidview_bool || \tl_if_blank_p:V\l_mix_iiidviewarray_tl)
16216 }{
16217   \tl_set_eq:NN\l_mix_bg_tl\g_mix_opt_bg_tl
16218   \tl_set_eq:NN\l_mix_ls_tl\g_mix_opt_ls_tl
16219   \tl_set_eq:NN\l_mix_rm_tl\g_mix_opt_rm_tl
16220   \tl_set_eq:NN\l_mix_psob_tl\g_mix_opt_psob_tl
16221   \tl_set_eq:NN\l_mix_coo_tl\g_mix_opt_coo_tl
16222   \tl_set_eq:NN\l_mix_ctoc_tl\g_mix_opt_ctoc_tl
16223   \tl_set_eq:NN\l_mix_ciiw_tl\g_mix_opt_ciiw_tl
16224
16225   \fp_set_eq:NN\l_mix_roo_fp\g_mix_opt_roo_fp
16226   \fp_set_eq:NN\l_mix_aac_fp\g_mix_opt_aac_fp
16227   \fp_set_eq:NN\l_mix_oscale_fp\g_mix_opt_oscale_fp
16228   \fp_set_eq:NN\l_mix_roll_fp\g_mix_opt_roll_fp
16229
16230   \bool_set_eq:NN\l_mix_ciiw_bool\g_mix_opt_ciiw_bool
16231   \bool_set_eq:NN\l_mix_iiidortho_bool\g_mix_opt_iiidortho_bool
16232   \tl_clear:N\l_mix_naarray_tl
16233
16234   \bool_if:NF\l_mix_ciiw_bool{
16235     \tl_set:Nx\l_mix_args_tl{\l_mix_coo_tl\space\l_mix_ctoc_tl\space}
16236     \exp_after:wN\mix_calc_ciiw:w\l_mix_args_tl\q_stop
16237   }
16238
16239   \tl_clear:N\l_mix_naarray_tl
16240   \tl_clear:N\l_mix_saarray_tl
16241   \tl_set_eq:NN\l_mix_nr_tl\g_mix_nrdflt_tl
16242
16243   \mix_view:n{Default}
16244   \tl_set:Nx\l_mix_dfltview_tl{\mix_pdflastobj:}
16245
16246 }
16247 \mix_pdfobj:nnn{}{dict}{
16248   /Type/RichMediaInstance
16249   /Subtype/\g_mix_mainassetsub_tl
16250   /Asset~\g_mix_mainasset_tl
16251   \bool_if:NF\g_mix_iiid_bool{
16252     /Params~<<
16253       /Binding\str_if_eq:VnTF\g_mix_transp_tl{true}{
16254         /Foreground
16255       }{
16256         /Background
16257       }
16258       \tl_if_blank:VF\g_mix_flashvars_tl{
16259         /FlashVars~(\g_mix_flashvars_tl)
16260       }
16261     >>
16262   }
16263 }

```



```

16264 \tl_if_empty:NF\g_mix_usrlabel_tl{
16265   \mix_keytoaux_now:nn{main@\g_mix_usrlabel_tl}{\mix_pdflastobj:}
16266 }
16267 \mix_pdfobj:nnn{}{dict}{
16268   /Type/RichMediaConfiguration
16269   /Subtype/\g_mix_mainassetssub_tl
16270   /Instances~[\mix_pdflastobj:]
16271 }
16272 \mix_pdfobj:nnn{}{dict}{
16273   /Type/RichMediaContent
16274   /Assets~<</Names~[\g_mix_assets_tl]>>
16275   /Configurations~[\mix_pdflastobj:]
16276   \bool_if:nT{
16277     \g_mix_iiid_bool && !(\tl_if_empty_p:V\l_mix_iiidviewarray_tl)
16278   }{
16279     /Views~[\l_mix_iiidviewarray_tl]
16280   }
16281 }
16282 \tl_set:Nx\l_mix_content_tl{\mix_pdflastobj:}
16283 \bool_if:nT{
16284   \g_mix_iiid_bool && \str_if_eq_p:Vn\g_mix_playtpe_tl{Oscillating}
16285 }{
16286   \tl_gset:Nx\g_mix_playcnt_tl{\int_eval:n{\g_mix_playcnt_tl*2}}
16287 }
16288 %determine floating window size
16289 \bool_if:NT\g_mix_opt_windowed_bool{
16290   \exp_after:wN\mix_parse_winsizearg:w\g_mix_winsize_tl\q_stop
16291 }
16292 \mix_pdfobj:nnn{}{dict}{
16293   /Activation~<<
16294   /Condition\g_mix_act_tl
16295   \bool_if:nT{
16296     \g_mix_iiid_bool &&
16297     !(\str_if_eq_p:Vn\g_mix_playtpe_tl{None})
16298   }{seems to work only with 3D content
16299     /Animation~<<
16300     /Subtype/\g_mix_playtpe_tl
16301     /PlayCount~\g_mix_playcnt_tl
16302     /Speed~\g_mix_playspd_tl
16303     >>
16304   }
16305   \bool_if:nT{
16306     \g_mix_iiid_bool && (
16307       \g_mix_opt_iiidview_bool || \tl_if_blank_p:V\l_mix_iiidviewarray_tl
16308     )
16309   }{/View~\l_mix_dfltview_tl}
16310   /Presentation~<<
16311   /Transparent~\g_mix_transp_tl
16312   \bool_if:NTF\g_mix_opt_windowed_bool{
16313     /Style/Windowed
16314     /Window~<<
16315     /Width~<</Default~\tl_mix_fltwd>>
16316     /Height~<</Default~\tl_mix_fltht>>
16317     /Position~<<

```





```

16318         /HOffset~0/VOffset~0
16319         \str_case_e:nnF{\g_mix_winpos_tl}{
16320             {tl}{/VAlign/Near/HAlign/Near}
16321             {cl}{/VAlign/Center/HAlign/Near}
16322             {bl}{/VAlign/Far/HAlign/Near}
16323             {bc}{/VAlign/Far/HAlign/Center}
16324             {br}{/VAlign/Far/HAlign/Far}
16325             {cr}{/VAlign/Center/HAlign/Far}
16326             {tr}{/VAlign/Near/HAlign/Far}
16327             {tc}{/VAlign/Near/HAlign/Center}
16328         }{/HAlign/Center/VAlign/Center}
16329         >>
16330     >>
16331     }{
16332         /Style/Embedded
16333     }
16334     \bool_if:NTF\g_mix_iiid_bool{
16335         /Toolbar~\g_mix_tools_tl
16336         /NavigationPane~\g_mix_nav_tl
16337     }{
16338         /PassContextClick~\g_mix_contextclick_tl
16339     }
16340     >>
16341     \tl_if_blank:VF\l_mix_scripts_tl{/Scripts~[\l_mix_scripts_tl]}
16342     >>
16343     /Deactivation~<</Condition\g_mix_deact_tl>>
16344 }
16345 \tl_set:Nx\l_mix_settings_tl{\mix_pdflastobj:}
16346 \tl_if_empty:NF\g_mix_usrlabel_tl{
16347     \tl_gset_eq:NN\g_mix_label_tl\g_mix_usrlabel_tl
16348 }
16349 % #1:width, #2:height, #3:depth, #4:content (key-value)
16350 \mix_pdfannot:nnnn{\g_mix_wd_tl}{\g_mix_ht_tl}{\g_mix_dp_tl}{
16351     /Subtype/RichMedia
16352     /F~4
16353     /BS~<</W~0/S/S>>
16354     /Contents~(media~embedded~by~media9~[\g_mix_version_tl~(\g_mix_date_tl)])
16355     /NM~(\g_mix_label_tl)
16356     /AP~<</N~\g_mix_appearance_tl>>
16357     /RichMediaSettings~\l_mix_settings_tl
16358     /RichMediaContent~\l_mix_content_tl
16359 }
16360 \tl_if_empty:NF\g_mix_usrlabel_tl{
16361     \mix_keytoaux_now:nn{ann@\g_mix_usrlabel_tl}{\mix_pdflastann:}
16362     \mix_keytoaux_shipout:nn{page@\g_mix_usrlabel_tl}{
16363         \noexpand\the\g@mix@page@int}
16364 }
16365 \mix_pdfobj:nnn{}{dict}{
16366     /S/JavaScript/JS~(
16367         try{
16368             if(typeof(annotRM)=='undefined'){annotRM=new~Array();}
16369             if(typeof(annotRM['\g_mix_label_tl'])=='undefined'){
16370                 annotRM['\g_mix_label_tl']=
16371                 this.getAnnotRichMedia(this.pageNum,'\g_mix_label_tl');

```



```

16372     }
16373     \str_if_eq:eeF{\g_mix_usrpbtn_tl}{none}{
16374         if(typeof(ocgBtn\int_use:N\g_mix_rmcnt_int)=='undefined'){
16375             var~ocgs=this.getOCGs(this.pageNum);
16376             for(var~i=0;i<ocgs.length;i++){
16377                 if(ocgs[i].name=='MediaPlayerButton\int_use:N\g_mix_rmcnt_int'){
16378                     var~ocgBtn\int_use:N\g_mix_rmcnt_int=ocgs[i];
16379                 }
16380             }
16381         }
16382         if(
16383             !annotRM['\g_mix_label_tl'].activated&&(
16384                 app.viewerType=='Reader' ||
16385                 app.viewerType=='Exchange' ||
16386                 app.viewerType=='Exchange-Pro'
16387             )&&app.viewerVersion>=9
16388         ){
16389             ocgBtn\int_use:N\g_mix_rmcnt_int.state=true;
16390         }
16391     }
16392 }catch(e){}
16393 this.dirty=false;
16394 )
16395 }
16396 \mix_pdfannot:nnnn{Opt}{Opt}{Opt}{
16397     /Subtype/Widget
16398     /FT/Btn/Ff~65537/F~2
16399     /BS~<</W~0>>
16400     /T~(fd@\g_mix_label_tl)
16401     /AA~<</PO~\mix_pdflastobj:~/PV~\mix_pdflastobj:>>
16402 }
16403 \mix_appendtofields:n{\mix_pdflastann:}
16404 \hbox_overlap_right:n{\box_use:N\l_mix_poster_box}
16405 \str_if_eq:eeTF{\g_mix_usrpbtn_tl}{none}{
16406     \hbox_to_wd:nn{\g_mix_wd_tl}{
16407         \vrule~width~\c_zero_dim~height~\g_mix_ht_tl~depth~\g_mix_dp_tl\hss
16408     }
16409 }{%insert play button overlay
16410     \mix_insert_btnocg: %create OCG
16411     \cs_gset_eq:Nc\mix_pbtn:NN{g@mix@pbtn@\g_mix_usrpbtn_tl @tl}
16412     \group_begin:
16413     \cs_if_exist:NT\textdir{\textdir TLT}
16414     \sbox\l_mix_pbtn_box{\mix_pbtn:NN\g_mix_wd_tl\g_mix_tt_tl}
16415     \box_move_down:nn{\g_mix_dp_tl}{
16416         \hbox_to_wd:nn{\g_mix_wd_tl}{
16417             \vbox_to_ht:nn{\g_mix_tt_tl}{
16418                 \vss
16419                 \ocgbase_oc_bdc:n{\g_mix_btnocg_tl}
16420                 \box_use:N\l_mix_pbtn_box
16421                 \ocgbase_oc_emc:
16422             }
16423         }
16424     }
16425     \group_end:

```



```

16426     }
16427     \int_gincr:N\g_mix_rmcnt_int
16428   }
16429   \mix_endLTR:
16430   \group_end:
16431 }
16432 \tl_set_eq:NN\l_mix_includemedia_tl\includemedia
16433 \tl_set:Nn\includemedia{\mix_uribegin:\l_mix_includemedia_tl}
16434
16435 \RenewDocumentCommand\mediabutton{0{m}}{%#1 options, #2 normal button text
16436   \mix_urriend:
16437   \group_begin:
16438   \mix_beginLTR:
16439   \mode_leave_vertical:
16440   %reset various variables
16441   \tl_gclear:N\g_mix_overbtn_tl
16442   \tl_gclear:N\g_mix_downbtn_tl
16443   \tl_gclear:N\g_mix_btnactions_tl
16444   \tl_gclear:N\g_mix_tooltip_tl
16445   %process options
16446   \bool_gset_eq:NN\g_mix_btndraft_bool\g_mix_pkgdraft_bool
16447   \mix_uribegin: %treat URI characters correctly
16448   \keys_set:nn{media9/mbtndraft}{#1} %detect draft/final on first pass
16449   \bool_if:NF\g_mix_btndraft_bool{\keys_set:nn{media9/mbtn}{#1}}
16450   \mix_urriend:
16451   %normal button appearance
16452   %\hbox_set:Nn\l_mix_poster_box{#2}
16453   \sbox\l_mix_poster_box{\if@RTL\beginR\fi#2\if@RTL\endR\fi}
16454   \tl_set:Nx\width {\dim_use:N\box_wd:N\l_mix_poster_box}
16455   \tl_set:Nx\height{\dim_use:N\box_ht:N\l_mix_poster_box}
16456   \tl_set:Nx\depth {\dim_use:N\box_dp:N\l_mix_poster_box}
16457   \bool_if:NTF\g_mix_btndraft_bool{\box_use:N\l_mix_poster_box}{
16458     \sbox\l_mix_poster_box{\bool_if:NTF\g_pbs_landscape_bool{\rotatebox{90}{
16459       \box_use:N\l_mix_poster_box}}{\box_use:N\l_mix_poster_box}}
16460     \mix_pdfxform:n{\l_mix_poster_box}
16461     \tl_set:Nx\g_mix_normalbtn_tl{\mix_pdflastxform:}
16462     %insert widget annotation
16463     \mix_pdfannot:nnnn{\width}{\height}{\depth}{
16464       /Subtype/Widget
16465       /T~(mbtn@\int_use:N\g_mix_mbtncnt_int)
16466       \tl_if_empty:NF\g_mix_tooltip_tl{/TU~(\g_mix_tooltip_tl)}
16467       /FT/Btn/Ff~65536
16468       \tl_if_empty:NF\g_mix_downbtn_tl{/H/I}{/H/P}
16469       /AP~<<
16470       /N~\g_mix_normalbtn_tl
16471       \tl_if_empty:NF\g_mix_overbtn_tl{/R~\g_mix_overbtn_tl}
16472       \tl_if_empty:NF\g_mix_downbtn_tl{/D~\g_mix_downbtn_tl}
16473       >>
16474       /MK~<<
16475       /TP~1~/IF~<</S/A/FB~true/A~[0.0~0.0]>>
16476       /I~\g_mix_normalbtn_tl
16477       \tl_if_empty:NF\g_mix_overbtn_tl{/RI~\g_mix_overbtn_tl}
16478       \tl_if_empty:NF\g_mix_downbtn_tl{/IX~\g_mix_downbtn_tl}
16479       >>

```



```

16480 /A~<<
16481 /S/JavaScript/JS~(app.focusRect=false;)
16482 %sequence of actions to perform
16483 \tl_if_empty:NF\g_mix_btnactions_tl{/Next~[\g_mix_btnactions_tl]}
16484 >>
16485 }
16486 \mix_appendtofields:n{\mix_pdflastann:}
16487 \hbox_to_wd:nn{\width}{
16488 \vrule~width~\c_zero_dim~height~\height~depth~\depth\hss
16489 }
16490 \int_gincr:N\g_mix_mbtncnt_int
16491 }
16492 \mix_endLTR:
16493 \group_end:
16494 }
16495 \tl_set_eq:NN\l_mix_mediabutton_tl\mediabutton
16496 \tl_set:Nn\mediabutton{\mix_uribegin:\l_mix_mediabutton_tl}
16497

```

## 107 File memoir-xetex-bidi.def

```

16498 \ProvidesFile{memoir-xetex-bidi.def}[2017/06/09 v0.6 bidi adaptations for memoir class for Xe
16499 \renewcommand{\keepthetitle}{%
16500 \@bsmtitleempty
16501 \global\let\thanks\relax
16502 \global\let\LTRthanks\relax
16503 \global\let\RTLthanks\relax
16504 \global\let\and\relax
16505 \global\let\andnext\relax
16506 \global\let\@thanks\@empty
16507 \global\let\@title\@empty
16508 \global\let\@author\@empty
16509 \global\let\@date\@empty}
16510 \renewcommand{\maketitle}{\par
16511 \begingroup
16512 \@bsmarkseries
16513 \def\@makefnmark{\@textsuperscript{%
16514 \normalfont\@bsthanksheadpre \tamark \@bsthanksheadpost}}%
16515 \long\def\@makefntext##1{\makethanksmark ##1}
16516 \if@twocolumn
16517 \ifnum \col@number=\@one
16518 \@maketitle
16519 \else
16520 \twocolumn[\@maketitle]%
16521 \fi
16522 \else
16523 \ifdim\pagetotal>\z@
16524 \newpage
16525 \fi
16526 \global\@topnum\z@
16527 \@maketitle
16528 \fi
16529 \thispagestyle{title}\@thanks
16530 \endgroup

```



```

16531 \bscontmark % \setcounter{footnote}{0}%
16532 }
16533 \renewcommand*{\memRTLleftskip}{\ifRTL\rightskip\else\leftskip\fi}
16534 \renewcommand*{\memRTLrightskip}{\ifRTL\leftskip\else\rightskip\fi}
16535 \renewcommand*{\memRTLvleftskip}{\ifRTL\vrightskip\else\vleftskip\fi}
16536 \renewcommand*{\memRTLvrightskip}{\ifRTL\vleftskip\else\vrightskip\fi}
16537 \renewcommand*{\memRTLraggedright}{\ifRTL\raggedleft\else\raggedright\fi}
16538 \renewcommand*{\memRTLraggedleft}{\ifRTL\raggedright\else\raggedleft\fi}
16539 \renewcommand*{\thesection}{\thechapter\@SepMark\@arabic\c@section}
16540 \renewcommand*{\thesubsection}{\%
16541 \thesection\@SepMark\@arabic\c@subsection}
16542 \renewcommand*{\thesubsubsection}{\%
16543 \thesubsection\@SepMark\@arabic\c@subsubsection}
16544 \renewcommand*{\theparagraph}{\%
16545 \thesubsubsection\@SepMark\@arabic\c@paragraph}
16546 \renewcommand*{\thesubparagraph}{\%
16547 \theparagraph\@SepMark\@arabic\c@subparagraph}
16548 \renewcommand{\setthesection}{\thechapter\@SepMark\Alph{section}}
16549 \renewcommand{\theequation}{\%
16550 \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
16551 \renewcommand{\thefigure}{\thechapter\@SepMark\@arabic\c@figure}
16552 \renewcommand{\thetable}{\thechapter\@SepMark\@arabic\c@table}
16553 \ifartopt
16554 \chapterstyle{article}
16555 \counterwithout{figure}{chapter}
16556 \counterwithout{table}{chapter}
16557 \counterwithout{footnote}{chapter}
16558 \counterwithout{equation}{chapter}
16559 \renewcommand{\chaptername}{\%
16560 \renewcommand{\maketitlehookb}{\%
16561 \vskip -1.5\topsep\vskip -1.5\partopsep}
16562 \renewcommand{\maketitlehookc}{\%
16563 \vskip -1.5\topsep\vskip -1.5\partopsep}
16564 \fi
16565 \long\def\@makecaption#1#2{\let\@memtempa\relax
16566 \ifdim\prevdepth>-99\p@ \vskip\abovecaptionskip
16567 \else \def\@memtempa{\vbox to\topskip{}}\fi
16568 \let\@contfnote\footnote \renewcommand{\footnote}[2]{}{}
16569 \let\@contfmark\footnotemark \renewcommand{\footnotemark}[1]{}{}
16570 \sbox\@tempboxa{\@contnfont #1\@contdelim \@conttfont #2\@contfinal}
16571 \let\footnote\@contfnote
16572 \let\footnotemark\@contfmark
16573 \ifdim\wd\@tempboxa<\linewidth \centering \fi
16574 \if@contcw
16575 \centering
16576 \parbox{\@contcwidth}{\%
16577 \ifdim\wd\@tempboxa<\@contcwidth \centering \fi
16578 \fi
16579 \ifdim\wd\@tempboxa<\linewidth
16580 \@contpre
16581 {\@contnfont #1\@contdelim}\@memtempa
16582 {\@contcshortstyle \@conttfont #2\@contfinal}\par}
16583 \else
16584 \if@conthang

```



```

16585 \sbox\@tempboxa{\@contnfont #1\@contdelim}
16586 \@contpre%
16587 {\@contcstyle\hangindent=\wd\@tempboxa
16588 \noindent\box\@tempboxa\@memtempa \@conttfont #2\@contfinal\par}
16589 \else
16590 \if@contindent
16591 \@contpre%
16592 {\@contnfont #1\@contdelim}\@memtempa
16593 {\@contcstyle\hangindent=\@contindw
16594 \hangafter=\@one\@conttfont #2\@contfinal\par}% <- v1.4
16595 \else
16596 \@contpre%
16597 {\@contnfont #1\@contdelim}\@memtempa
16598 {\@contcstyle \@conttfont #2\@contfinal\par}
16599 \fi
16600 \fi
16601 \fi
16602 \@contpost
16603 \if@contcw
16604 \par
16605 } % end of the \parbox
16606 \fi
16607 \vskip\belowcaptionskip}
16608 \@ifpackageloaded{caption}{%
16609 \AtBeginPackage{caption}{
16610 \ClassWarningNoLine{memoir}{%
16611 You are using the caption package with the memoir \MessageBreak
16612 class. This may cause unexpected or inconsistent \MessageBreak
16613 results if you use any of memoir's captioning facilities}
16614 }
16615 \long\def\@makecaption##1##2{%
16616 \vskip\abovecaptionskip
16617 \sbox\@tempboxa{\if@RTL\beginR\fi##1: ##2\if@RTL\endR\fi}%
16618 \ifdim \wd\@tempboxa >\hsize
16619 \if@RTL\beginR\fi##1: ##2\if@RTL\endR\fi\par
16620 \else
16621 \global \@minipagefalse
16622 \hb@xt@\hsize{\hfil\box\@tempboxa\hfil}%
16623 \fi
16624 \vskip\belowcaptionskip}
16625
16626 \def\caption{%
16627 \ifx\@cuptype\@undefined
16628 \@latex@error{\noexpand\caption outside float}\@ehd
16629 \expandafter\@gobble
16630 \else
16631 \refstepcounter\@cuptype
16632 \expandafter\@firstofone
16633 \fi
16634 {\@dblarg{\@caption\@cuptype}}}%
16635 }
16636
16637 \long\def\@caption##1[##2]##3{%
16638 \par

```



```

16639 \addcontentsline{\csname ext###1\endcsname}{##1}%
16640 {\protect\numberline{\csname the##1\endcsname}{\ignorespaces ##2}}%
16641 \begingroup
16642 \parboxrestore
16643 \if@minipage
16644 \setminipage
16645 \fi
16646 \normalsize
16647 \makecaption{\csname fnum###1\endcsname}{\ignorespaces ##3}\par
16648 \endgroup}
16649 }{}
16650 \renewenvironment{thebibliography}[1]{%
16651 \bibsection
16652 \ifRTL\ifLTR\bibitems\@RTLfalse\else\fi\else\ifRTL\bibitems\@RTLtrue\else\fi\fi
16653 \bidi@thebibliography@font@hook%
16654 \begin{bibitemlist}{#1}}{\end{bibitemlist}\postbibhook}

```

## 108 File midfloat-xetex-bidi.def

```

16655 \ProvidesFile{midfloat-xetex-bidi.def}[2017/05/06 v0.4 bidi adaptations for midfloat package]
16656 \def\RTL@outputdblcol{%
16657 \if@firstcolumn
16658 \global\@firstcolumnfalse
16659 \global\setbox\@leftcolumn\copy\@outputbox
16660 \splitmaxdepth\maxdimen
16661 \vbadness\maxdimen
16662 \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
16663 \setbox\@outputbox\vsplit\@outputbox to\maxdimen
16664 \toks@\expandafter{\topmark}%
16665 \xdef\@firstcoltopmark{\the\toks@}%
16666 \toks@\expandafter{\splitfirstmark}%
16667 \xdef\@firstcolfirstmark{\the\toks@}%
16668 \ifx\@firstcolfirstmark\@empty
16669 \global\let\@setmarks\relax
16670 \else
16671 \gdef\@setmarks{%
16672 \let\firstmark\@firstcolfirstmark
16673 \let\topmark\@firstcoltopmark}%
16674 \fi
16675 \global\c@colht\@colht\global\c@advvipersep\z@
16676 \ifnum\jua@sk>0
16677 \remove@strip\jua@sar
16678 \global\@colht\the\jua@pr
16679 \ifdim\right@cor>\z@
16680 \global\advance\@colht by\right@cor
16681 \fi
16682 \global\advance\@colht by\cor@height
16683 \global\cor@height=0pt
16684 \fi
16685 \global\setbox\@rightcolumn\vbox{}%
16686 \else
16687 \ifdim\c@colht>\@colht
16688 \tempdima\@colht
16689 \ifdim\@colht>\z@

```



```

16690      \global\setbox\@rightcolumn \vbox{%
16691          \unvbox\@rightcolumn
16692          \vbox to\@tempdima{%
16693              \vskip\c@addvipersep\unvbox\@outputbox}%
16694          \vskip\stripsep
16695          \vrule height\the\jua@ht width 0pt depth 0pt
16696          \vskip\stripsep
16697      }%
16698      \global\c@addvipersep\m@addvipersep
16699      \else
16700      \global\setbox\@rightcolumn \vbox{%
16701          \unvbox\@rightcolumn
16702          \vrule height\the\jua@ht width 0pt depth 0pt
16703          \vskip\stripsep
16704      }%
16705      \fi
16706      \ifnum\jua@sk>0
16707          \remove@strip\jua@sar
16708          \global\@colht\the\jua@pr
16709          \global\advance\@colht by -\ht\@rightcolumn
16710          \global\advance\@colht by\cor@height
16711          \global\cor@height=0pt
16712      \else
16713          \global\advance\c@colht by-\ht\@rightcolumn
16714          \global\@colht\c@colht
16715      \fi
16716      \else
16717      \global\@firstcolumntrue
16718      \global\setbox\@outputbox\vbox to\ht\@leftcolumn{%
16719          \unvbox\@rightcolumn
16720          \vskip\c@addvipersep
16721          \unvbox\@outputbox
16722      }%
16723      \setbox\@outputbox \vbox {%
16724          \hb@xt@\textwidth {%
16725              \hskip \columnwidth
16726              \hfil
16727              \vrule \@width\columnseprule
16728              \hfil
16729              \hb@xt@\columnwidth {%
16730                  \bidi@firstcolumn@status@write%
16731                  \box\@leftcolumn \hss}%
16732              \hskip-\textwidth
16733              \hb@xt@\columnwidth {%
16734                  \bidi@lastcolumn@status@write%
16735                  \box\@outputbox \hss}%
16736              \hskip\columnwidth
16737              \hskip\columnsep}%
16738          }%
16739      \@combinedblfloats
16740      \@setmarks
16741      \@outputpage
16742      \begingroup
16743      \@dblfloatplacement

```





```

16744 \startdblcolumn
16745 \@whiles\if@fcolmade \fi
16746 { \outputpage
16747 \startdblcolumn}%
16748 \endgroup
16749 \global\jua@sk=0\global\jua@sar={}%
16750 \global\cor@height\z@\global\c@addvipersep\z@
16751 \fi
16752 \fi
16753 }
16754
16755
16756 \def\LTR@outputdblcol{%
16757 \if@firstcolumn
16758 \global \@firstcolumnfalse
16759 \global\setbox\@leftcolumn\copy\@outputbox
16760 \splitmaxdepth\maxdimen
16761 \vbadness\maxdimen
16762 \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
16763 \setbox\@outputbox\vsplit\@outputbox to\maxdimen
16764 \toks@\expandafter{\topmark}%
16765 \xdef\@firstcoltopmark{\the\toks@}%
16766 \toks@\expandafter{\splitfirstmark}%
16767 \xdef\@firstcolfirstmark{\the\toks@}%
16768 \ifx\@firstcolfirstmark\@empty
16769 \global\let\@setmarks\relax
16770 \else
16771 \gdef\@setmarks{%
16772 \let\firstmark\@firstcolfirstmark
16773 \let\topmark\@firstcoltopmark}%
16774 \fi
16775 \global\c@colht\@colht\global\c@addvipersep\z@
16776 \ifnum\jua@sk>0
16777 \remove@strip\jua@sar
16778 \global\@colht\the\jua@pr
16779 \ifdim\right@cor>\z@
16780 \global\advance\@colht by\right@cor
16781 \fi
16782 \global\advance\@colht by\cor@height
16783 \global\cor@height=0pt
16784 \fi
16785 \global \setbox\@rightcolumn \vbox{%
16786 \else
16787 \ifdim\c@colht>\@colht
16788 \@tempdima\@colht
16789 \ifdim\@colht>\z@
16790 \global\setbox\@rightcolumn \vbox{%
16791 \unvbox\@rightcolumn
16792 \vbox to\@tempdima{%
16793 \vskip\c@addvipersep\unvbox\@outputbox}%
16794 \vskip\stripsep
16795 \vrule height\the\jua@ht width 0pt depth 0pt
16796 \vskip\stripsep
16797 }%

```



```

16798      \global\c@advipersep\m@advipersep
16799      \else
16800      \global\setbox\@rightcolumn \vbox{%
16801          \unvbox\@rightcolumn
16802          \vrule height\the\jua@ht width 0pt depth 0pt
16803          \vskip\stripsep
16804      }%
16805      \fi
16806      \ifnum\jua@sk>0
16807          \remove@strip\jua@sar
16808          \global\@colht\the\jua@pr
16809          \global\advance\@colht by -\ht\@rightcolumn
16810          \global\advance\@colht by\cor@height
16811          \global\cor@height=0pt
16812      \else
16813          \global\advance\c@colht by-\ht\@rightcolumn
16814          \global\@colht\c@colht
16815      \fi
16816  \else
16817      \global\@firstcolumntrue
16818      \global\setbox\@outputbox\vbox to\ht\@leftcolumn{%
16819          \unvbox\@rightcolumn
16820          \vskip\c@advipersep
16821          \unvbox\@outputbox
16822      }%
16823      \setbox\@outputbox \vbox {%
16824          \hb@xt@\textwidth {%
16825              \hb@xt@\columnwidth {%
16826                  \bidi@firstcolumn@status@write%
16827                  \box\@leftcolumn \hss}%
16828              \hfil
16829              \vrule \@width\columnseprule
16830              \hfil
16831              \hb@xt@\columnwidth {%
16832                  \bidi@lastcolumn@status@write%
16833                  \box\@outputbox \hss}%
16834              }%
16835          }%
16836      \@combinedblfloats
16837      \@setmarks
16838      \@outputpage
16839      \begingroup
16840          \@dblfloatplacement
16841          \@startdblcolumn
16842          \@whiles\if@fcolmade \fi
16843              {\@outputpage
16844               \@startdblcolumn}%
16845      \endgroup
16846      \global\jua@sk=0\global\jua@sar={}
16847      \global\cor@height\z@\global\c@advipersep\z@
16848      \fi
16849  \fi
16850 }
16851

```



```

16852
16853 \def\@strip[#1/#2]{\global\@tempdima=#1\global\@tempdimb=#2%
16854 \global \setbox\@viper\vbox\bgroup\if@RTLmain\moveleft\dimexpr(\columnwidth+\columnsep)\fi
16855 \hspace\textwidth
16856 \@parboxrestore
16857 \col@number \@ne
16858 \vrule height\topskip width0pt depth0pt
16859 }
16860
16861 \def\endstrip{%
16862 \egroup\egroup
16863 \if@firstcolumn
16864 \ifdim\pagetotal>\z@
16865 \vskip\stripsep
16866 \global\ht@strip\pagegoal
16867 \global\advance\ht@strip by-\pagetotal
16868 \global\advance\ht@strip by-\stripsep
16869 \global\advance\ht@strip by-\ht\@viper
16870 \global\advance\ht@strip by-\stripsep
16871 \global\jua@ht=\ht\@viper
16872 \else
16873 \global\ht@strip\z@
16874 \fi
16875 \ifdim\ht@strip>\z@
16876 \unvbox\@viper
16877 \vskip\stripsep
16878 \add@strip{\the\pagetotal}{\the\jua@ht}{\the\@tempdima}{\the\@tempdimb}%
16879 \global\advance\jua@sk by1
16880 \else
16881 \@latex@error{Strip needs more place!}\@ehc
16882 \if@vihproof
16883 \framebox[\columnwidth]{??? Strip ???}%
16884 \fi
16885 \fi
16886 \else
16887 \@latex@error{Strip is used only on left column!}\@ehc
16888 \if@vihproof
16889 \framebox[\columnwidth]{??? Strip ???}%
16890 \fi
16891 \fi
16892 }

```

## 109 File minitoc-xetex-bidi.def

```

16893 \ProvidesFile{minitoc-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for minitoc package f
16894 \def\@undottedtocline#1#2#3#4#5{%
16895 \ifnum #1>\c@tocdepth\relax \else
16896 \vskip \z@ plus.2\p@
16897 {\if@RTL\righskip\else\leftskip\fi #2\relax \if@RTL\leftskip\else\righskip\fi \@tocrmarg
16898 \parindent #2\relax\@afterindenttrue
16899 \interlinepenalty\@M
16900 \leavevmode
16901 \@tempdima #3\relax \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \hbox{}%
16902 \hskip -\if@RTL\righskip\else\leftskip\fi

```



```

16903     #4\nobreak\hfill \nobreak
16904         \null\par}%
16905 \fi}
16906 \def\@Undottedtocline#1#2#3#4#5{%
16907 \ifnum #1>\c@tocdepth\relax \else
16908     \vskip \z@ \@plus.2\p@
16909     {\if@RTL\righskip\else\leftskip\fi #2\relax \if@RTL\leftskip\else\righskip\fi \@tocma
16910     \parindent #2\relax\@afterindenttrue
16911     \interlinepenalty\@M
16912     \leavevmode
16913     \@tempdima #3\relax
16914     \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
16915     {\coffefont #4}\nobreak \nobreak\null
16916     \par}%
16917 \fi}
16918 \def\@Undottedtoclinep#1#2#3#4#5{%
16919 \ifnum #1>\c@tocdepth\relax \else
16920     \vskip \z@ \@plus.2\p@
16921     {\if@RTL\righskip\else\leftskip\fi #2\relax \if@RTL\leftskip\else\righskip\fi \@tocma
16922     \parindent #2\relax\@afterindenttrue
16923     \interlinepenalty\@M
16924     \leavevmode
16925     \@tempdima #3\relax
16926     \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
16927     {#4}\nobreak \hfill \nobreak\null
16928     \hb@xt@\@pnumwidth{\{\hfil\normalfont \normalcolor #5}\}%
16929     \par}%
16930 \fi}

```

## 110 File multicol-xetex-bidi.def

```

16931 \ProvidesFile{multicol-xetex-bidi.def}[2022/02/01 v1.3 bidi adaptations for multicol package]
16932 \def\page@sofar{%
16933     \process@cols\mult@rightbox
16934     {\ifvoid\count@
16935         \setbox\count@\hbox to\hsize{}}%
16936     \else
16937         \wd\count@\hsize
16938     \fi}%
16939 \count@\col@number \advance\count@\m@ne
16940 \mult@info\z@
16941 {Column spec: \the\full@width\space = indent
16942             + columns + sep =\MessageBreak
16943             \the\multicol@leftmargin\space
16944             + \the\col@number\space
16945             x \the\hsize\space
16946             + \the\count@\space
16947             x \the\columnsep
16948             }%
16949 \ifvmode\else\errmessage{Multicol Error}\fi
16950 \nointerlineskip
16951 \setbox\z@\hbox{\global\dimen\tw@\dp\z@
16952 \moveright\multicol@leftmargin
16953 \hbox to\full@width{

```



```

16954      \bidi@multicol@align@columns
16955      \rlap{\phantom p}%
16956    }%
16957    \prevdepth\z@
16958    \kern-\dimen\tw@
16959    \ifdim\dimen\tw@ > \mc@gridwarn
16960      \PackageWarning{multicol}%
16961        {Very deep columns!\MessageBreak
16962          Grid alignment might be broken}%
16963    \fi
16964  }
16965  \def\LTR@column@boxes{%
16966    \process@cols\mult@firstbox{%
16967      \ifdim\dp\count@>\dimen\tw@
16968        \global\dimen\tw@\dp\count@ \fi
16969      \mc@col@status@write
16970      \box\count@
16971      \hss{\columnseprulecolor\vrule
16972        \@width\columnseprule}\hss}%
16973    \ifdim\dp\mult@rightbox>\dimen\tw@
16974      \global\dimen\tw@\dp\mult@rightbox \fi
16975      \mc@lastcol@status@write
16976      \box\mult@rightbox
16977  }
16978
16979  \def\RTL@column@boxes{%
16980    \process@cols\mult@firstbox{%
16981      \hskip\hsize
16982      \hss{\columnseprulecolor\vrule
16983        \@width\columnseprule}\hss
16984    }%
16985    \hskip\hsize
16986    \process@cols\mult@firstbox{%
16987      \ifdim\dp\count@>\dimen\tw@
16988        \global\dimen\tw@\dp\count@ \fi
16989      \hskip-\hsize
16990      \mc@col@status@write
16991      \box\count@
16992      \hskip-\hsize
16993      \hskip-\columnsep
16994    }%
16995    \ifdim\dp\mult@rightbox>\dimen\tw@
16996      \global\dimen\tw@\dp\mult@rightbox \fi
16997      \hskip-\hsize
16998      \mc@lastcol@status@write
16999      \box\mult@rightbox
17000      \hskip-\hsize
17001      \hskip\full@width
17002  }
17003
17004  \newcommand\RTLmulticolcolumns
17005    {\let\bidi@multicol@align@columns
17006     \RTL@column@boxes}
17007  \newcommand\LTRmulticolcolumns

```



```

17008     {\let\bidimulticol@align@columns
17009       \LTR@column@boxes}
17010 \newcommand\bidimulticol@align@columns
17011   {\if@RTLmain\RTL@column@boxes\else\LTR@column@boxes\fi}
17012 \bidimulticol@AtEndPreamble{%
17013   \if@bidimulticol@csdef{footinsv@1}{%
17014     \def\footnoterule{\kern-3\p@
17015       \hrule \@width \textwidth \kern 2.6\p@}%
17016   }-}%
17017 }
17018 \def\multicols#1{\col@number#1\relax
17019   \ifnum\col@number<\tw@
17020     \PackageWarning{multicol}%
17021       {Using `\'number\col@number'
17022         columns doesn't seem a good idea.^^J
17023         I therefore use two columns instead}%
17024     \col@number\tw@ \fi
17025   \ifnum\col@number>20
17026     \PackageError{multicol}%
17027       {Too many columns}%
17028     {Current implementation doesn't
17029       support more than 20 columns.%
17030     \MessageBreak
17031     I therefore use 20 columns instead}%
17032   \col@number20 \fi
17033   \ifx\@footnotetext\mult@footnotetext
17034     \else
17035       \let\orig@footnotetext\@footnotetext
17036       \let\@footnotetext\mult@footnotetext
17037     \fi
17038     \ifx\@LTRfootnotetext\mult@LTRfootnotetext
17039     \else
17040       \let\orig@LTRfootnotetext\@LTRfootnotetext
17041       \let\@LTRfootnotetext\mult@LTRfootnotetext
17042     \fi
17043     \ifx\@RTLfootnotetext\mult@RTLfootnotetext
17044     \else
17045       \let\orig@RTLfootnotetext\@RTLfootnotetext
17046       \let\@RTLfootnotetext\mult@RTLfootnotetext
17047     \fi
17048   \ifnextchar[\mult@cols{\mult@cols[]}}
17049 \long\def\mult@footnotetext#1{\begingroup
17050   \hsize\textwidth
17051   \columnwidth\textwidth
17052   \orig@footnotetext{#1}\endgroup}
17053 \long\def\mult@LTRfootnotetext#1{\begingroup
17054   \hsize\textwidth
17055   \columnwidth\textwidth
17056   \orig@LTRfootnotetext{#1}\endgroup}
17057 \long\def\mult@RTLfootnotetext#1{\begingroup
17058   \hsize\textwidth
17059   \columnwidth\textwidth
17060   \orig@RTLfootnotetext{#1}\endgroup}
17061 \def\right@footnoterule{%

```



```

17062 \kern-3\p@
17063 \hbox to \textwidth{\hskip \dimexpr\textwidth-.4\columnwidth\relax \hrulefill }
17064 \kern2.6\p@}
17065 \def\textwidth@footnoterule{\kern-3\p@
17066 \hrule \@width \textwidth \kern 2.6\p@}
17067 \def\bidileave@mult@copyins{%
17068 \advance\dimen@-\skip\@bidi@copyins@
17069 \advance\dimen@-\ht\@bidi@copyins@
17070 }
17071 \bidi@AtEndPreamble{%
17072 \if@bidi@csdef{footinsv@l}{%
17073 \def\bidileave@mult@footinsv@r{%
17074 \advance\dimen@-\skip\footinsv@r
17075 \advance\dimen@-\ht\footinsv@r
17076 }%
17077 \def\bidileave@mult@footinsv@l{%
17078 \advance\dimen@-\skip\footinsv@l
17079 \advance\dimen@-\ht\footinsv@l
17080 }%
17081 \def\bidii@init@mult@footinsv@r{%
17082 \multiply\count\footinsv@r\col@number
17083 \multiply\skip \footinsv@r\col@number
17084 }%
17085 \def\bidii@init@mult@footinsv@l{%
17086 \multiply\count\footinsv@l\col@number
17087 \multiply\skip \footinsv@l\col@number
17088 }%
17089 \def\bidireinsert@footnotesv@r{\ifvoid\footinsv@r\else
17090 \insert\footinsv@r{}\fi}%
17091 \def\bidireinsert@footnotesv@l{\ifvoid\footinsv@l\else
17092 \insert\footinsv@l{}\fi}%
17093 \bidi@patchcmd{\prepare@multicols}{%
17094 \reinsert@footnotes
17095 }{%
17096 \reinsert@footnotes
17097 \bidi@init@mult@footinsv@r
17098 \bidireinsert@footnotesv@r
17099 \bidi@init@mult@footinsv@l
17100 \bidireinsert@footnotesv@l
17101 }{}{}%
17102 \bidi@patchcmd{\multi@column@out}{%
17103 \ifnum \c@tracingmulticols>\thr@@
17104 }{%
17105 \ifvoid\footinsv@r
17106 \ifvoid\footinsv@l
17107 \else
17108 \PackageWarning{multicol}%
17109 {I moved some lines to
17110 the next page.\MessageBreak
17111 Footnotes on page
17112 \thepage\space might be wrong}%
17113 \fi
17114 \else
17115 \PackageWarning{multicol}%

```



```

17116      {I moved some lines to
17117      the next page.\MessageBreak
17118      Footnotes on page
17119      \thepage\space might be wrong}%
17120      \fi
17121      \ifnum \c@tracingmulticols>\thr@@
17122      }{}{}%
17123      \bidi@patchcmd{\endmulticols}{%
17124      \reinsert@footnotes
17125      }{}{}%
17126      \reinsert@footnotes
17127      \bidi@reinsert@footnotesv@r
17128      \bidi@reinsert@footnotesv@l
17129      }{}{}%
17130      \bidi@patchcmd{\speci@ls}{%
17131      \reinsert@footnotes
17132      }{}{}%
17133      \reinsert@footnotes
17134      \bidi@reinsert@footnotesv@r
17135      \bidi@reinsert@footnotesv@l
17136      }{}{}%
17137      \bidi@patchcmd{\speci@ls}{%
17138      \reinsert@footnotes
17139      }{}{}%
17140      \reinsert@footnotes
17141      \bidi@reinsert@footnotesv@r
17142      \bidi@reinsert@footnotesv@l
17143      }{}{}%
17144      }{}%
17145      \bidi@patchcmd{\multi@column@out}{%
17146      \ifvbox \@kludgeins
17147      }{}{}%
17148      \if@bidi@csdef{footinsv@l}{%
17149      \divide\skip\footinsv@r\col@number
17150      \ifvoid\footinsv@r \else
17151      \bidi@leave@mult@footins@vr
17152      \fi
17153      \divide\skip\footinsv@l\col@number
17154      \ifvoid\footinsv@l \else
17155      \bidi@leave@mult@footins@vl
17156      \fi
17157      }{}{}%
17158      \ifvoid\@bidi@copyins@ \else
17159      \bidi@leave@mult@copyins
17160      \fi
17161      \ifvbox \@kludgeins
17162      }{}{}%
17163      }

```

## 111 File multienum-xetex-bidi.def

```

17164 \ProvidesFile{multienum-xetex-bidi.def}[2011/04/16 v0.1 bidi adaptations for multienum packa
17165 \renewcommand{\itemx}[1]{\parbox[t]{%
17166 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep%

```





```

17167 \parbox[t]{\remainx}{\bidi@raggedright #1}\par}%\smallskip
17168 \renewcommand{\itemxx}[2]{\parbox[t]%
17169 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
17170 \parbox[t]{.5\remainxx}{\bidi@raggedright #1}\hfill\parbox[t]%
17171 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
17172 \parbox[t]{0.5\remainxx}{\bidi@raggedright #2}\smallskip
17173 \renewcommand{\itemxxx}[3]{\parbox[t]%
17174 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep%
17175 \parbox[t]{.3333\remainxxx}{\bidi@raggedright #1}\hfill\parbox[t]%
17176 {\labelwidth}{\hfill {\labelname}}\hskip\labelsep%
17177 \parbox[t]{0.3333\remainxxx}{\bidi@raggedright #2}\hfill\parbox[t]%
17178 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep%
17179 \parbox[t]{0.3333\remainxxx}{\bidi@raggedright #3}\par}%\smallskip
17180 \renewcommand{\itemxxxx}[4]{\parbox[t]%
17181 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
17182 \parbox[t]{.25\remainxxxx}{\bidi@raggedright #1}\hfill\parbox[t]%
17183 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
17184 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #2}\hfill%
17185 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
17186 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #3}\hfill%
17187 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
17188 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #4}\smallskip
17189 \renewcommand{\itemxxxxx}[5]{\parbox[t]%
17190 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
17191 \parbox[t]{0.2\remainxxxxx}{\bidi@raggedright #1}\hfill%
17192 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
17193 \parbox[t]{0.2\remainxxxxx}{\bidi@raggedright #2}\hfill%
17194 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
17195 \parbox[t]{0.2\remainxxxxx}{\bidi@raggedright #3}\hfill%
17196 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
17197 \parbox[t]{0.2\remainxxxxx}{\bidi@raggedright #4}\hfill%
17198 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
17199 \parbox[t]{0.2\remainxxxxx}{\bidi@raggedright #5}\smallskip
17200 \renewcommand{\itemxox}[2]{\parbox[t]%
17201 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
17202 \parbox[t]{\remainxox}{\bidi@raggedright #1}\hfill%
17203 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
17204 \parbox[t]{0.3333\remainxxx}{\bidi@raggedright #2}\smallskip
17205 \renewcommand{\itemxox}[2]{\parbox[t]%
17206 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
17207 \parbox[t]{0.3333\remainxxx}{\bidi@raggedright #1}\hfill%
17208 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
17209 \parbox[t]{\remainxox}{\bidi@raggedright #2}\smallskip
17210 \renewcommand{\itemxox}[3]{\parbox[t]%
17211 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
17212 \parbox[t]{\remainxox}{\bidi@raggedright #1}\hfill%
17213 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
17214 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #2}\hfill%
17215 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
17216 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #3}\smallskip
17217 \renewcommand{\itemxox}[3]{\parbox[t]%
17218 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
17219 \parbox[t]{.25\remainxxxx}{\bidi@raggedright #1}\hfill%
17220 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep

```



```

17221 \parbox[t]{\remainxxx}{\bidi@raggedright #2}\hfill%
17222 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
17223 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #3}\smallskip}
17224 \renewcommand{\itemxxxo}[3]{\parbox[t]{%
17225 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
17226 \parbox[t]{.25\remainxxxx}{\bidi@raggedright #1}\hfill%
17227 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
17228 \parbox[t]{.25\remainxxxx}{\bidi@raggedright #2}\hfill%
17229 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
17230 \parbox[t]{\remainxxx}{\bidi@raggedright #3}\smallskip}

```

## 112 File natbib-xetex-bidi.def

```

17231 \ProvidesFile{natbib-xetex-bidi.def}[2017/06/09 v0.2 bidi adaptations for natbib package for
17232 \renewenvironment{thebibliography}[1]{%
17233 \bibsection
17234 \parindent\z@
17235 \bibpreamble
17236 \bibfont
17237 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
17238 \bidi@@thebibliography@font@hook%
17239 \list{\@biblabel{\the\c@NAT@ctr}}{\@bibsetup{#1}\global\c@NAT@ctr\z@}%
17240 \ifNAT@openbib
17241 \renewcommand\newblock{\par}%
17242 \else
17243 \renewcommand\newblock{\hspace .11em \@plus.33em \@minus.07em}%
17244 \fi
17245 \sloppy\clubpenalty4000\widowpenalty4000
17246 \sfcode`\.\@m
17247 \let\NAT@bibitem@first@sw\@firstoftwo
17248 \let\citeN\cite \let\shortcite\cite
17249 \let\citeasnoun\cite
17250 }{%
17251 \bibitem@fin
17252 \bibpostamble
17253 \def\@noitemerr{%
17254 \PackageWarning{natbib}{Empty `thebibliography' environment}%
17255 }%
17256 \endlist
17257 \bibcleanup
17258 }%

```

## 113 File newfloat-xetex-bidi.def

```

17259 \ProvidesFile{newfloat-xetex-bidi.def}[2013/05/22 v0.1 bidi adaptations for newfloat package
17260 \renewcommand*{newfloat@setwithin}[2]{%
17261 \ifcsname c@chapter\endcsname
17262 \@removefromreset{#1}{chapter}%
17263 \fi
17264 \@removefromreset{#1}{section}%
17265 \edef\@tempa{#2}%
17266 \ifx\@tempa\@empty
17267 \def\@tempa{none}%
17268 \fi

```



```

17269 \def\@tempb{none}%
17270 \ifx\@tempa\@tempb
17271   \ifcsname c@chapter\endcsname
17272     \@chapterlistsgap@off{#1}%
17273   \fi
17274   \newfloat@@setwithin{#1}{}{}%
17275 \else
17276   \def\@tempb{chapter}%
17277   \ifx\@tempa\@tempb
17278     \@addtoreset{#1}{chapter}%
17279     \@chapterlistsgap@on{#1}%
17280     \newfloat@@setwithin{#1}{\ifnum\c@chapter>\z@ \thechapter\@SepMark\fi}{\theHchapter\@S
17281   \else
17282     \def\@tempb{section}%
17283     \ifx\@tempa\@tempb
17284       \@addtoreset{#1}{section}%
17285       \ifcsname c@chapter\endcsname
17286         \@addtoreset{#1}{chapter}%
17287         \@chapterlistsgap@on{#1}%
17288         \newfloat@@setwithin{#1}{\thesection\@SepMark}{\theHsection\@SepMark}%
17289       \else
17290         \newfloat@@setwithin{#1}{\ifnum\c@section>\z@ \thesection\@SepMark\fi}{\theHsection
17291       \fi
17292     \else
17293       \newfloat@Error{Invalid value `#2' for option `within'}%
17294     \fi
17295   \fi
17296 \fi}

```

## 114 File ntheorem-xetex-bidi.def

```

17297 \ProvidesFile{ntheorem-xetex-bidi.def}[2012/05/01 v0.1 bidi adaptations for ntheorem package]
17298 \gdef\@thm#1#2#3{%
17299   \if@thmmarks
17300     \stepcounter{end\InTheoType ctr}%
17301   \fi
17302   \renewcommand{\InTheoType}{#1}%
17303   \if@thmmarks
17304     \stepcounter{curr#1ctr}%
17305     \setcounter{end#1ctr}{0}%
17306   \fi
17307   \refstepcounter{#2}%
17308   \theorem@prework
17309   \thm@topsepadd \theorem@postskipamount % cf. latex.ltx: \@trivlist
17310   \ifvmode \advance\thm@topsepadd\partopsep\fi
17311   \trivlist
17312   \@topsep \theorem@preskipamount
17313   \@topsepadd \thm@topsepadd % used by \@endparenv
17314   \advance\linewidth -\theorem@indent
17315   \advance\@totalleftmargin \theorem@indent
17316   \ifRTL\parshape \@ne 0pt \linewidth\else \parshape \@ne \@totalleftmargin \linewidth\fi
17317   \@ifnextchar[{\@ythm{#1}{#2}{#3}}{\@xthm{#1}{#2}{#3}}

```



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

```

17318 \ProvidesFile{ntheorem-hyper-xetex-bidi.def}[2012/05/01 v0.1 bidi adaptations for ntheorem-h
17319 \gdef\@thm#1#2#3{%
17320   \if@thmmarks
17321     \stepcounter{end\InTheoType ctr}%
17322   \fi
17323   \renewcommand{\InTheoType}{#1}%
17324   \if@thmmarks
17325     \stepcounter{curr#1ctr}%
17326     \setcounter{end#1ctr}{0}%
17327   \fi
17328   \refstepcounter{#2}%
17329   \thm@topsepadd \theorempostskipamount % cf. latex.ltx: \@trivlist
17330   \ifvmode \advance\thm@topsepadd\partopsep\fi
17331   \trivlist
17332   \@topsep \theorempreskipamount
17333   \@topsepadd \thm@topsepadd % used by \@endparenv
17334   \advance\linewidth -\theorem@indent
17335   \advance\@totalleftmargin \theorem@indent
17336   \ifRTL\parshape \@ne 0pt \linewidth\else \parshape \@ne \@totalleftmargin \linewidth\fi
17337   \ifnextchar [\@ythm{#1}{#2}{#3}]{\@xthm{#1}{#2}{#3}}

```

## 116 File overpic-xetex-bidi.def

```

17338 \ProvidesFile{overpic-xetex-bidi.def}[2015/12/07 v0.1 bidi adaptations for overpic package f
17339 \renewenvironment{overpic}[2][{}]{%
17340   \sbox{\z@}{\includegraphics[#1]{#2}}%
17341   \settodepth{\@tempcnta}{\usebox{\z@}}%
17342   \settoheight{\@tempcntb}{\usebox{\z@}}%
17343   \advance\@tempcntb\@tempcnta%
17344   \settowidth{\@tempcnta}{\usebox{\z@}}%
17345   \setlength{\@tempdima}{\unitlength}%
17346   \count@=\z@\Gin@gridfalse\setkeys{Gin}{#1}%
17347   %
17348   \OVP@calc%
17349   %
17350   \begin{picture}(\@tempcnta,\@tempcntb)%
17351     \ifRTL\else\put(0,0){\makebox(0,0)[bl]{\usebox{\z@}}}%
17352     \ifGin@grid%
17353       \put(0,0){\normalfont\fontsize\@viipt\@viipt\selectfont%
17354         \grid(\@tempcnta,\@tempcntb)(\count@,\count@)[0,0]}%
17355     \fi\fi%
17356     % reset the graphics parameter
17357     \let\Gin@outer@scalex\relax
17358     \let\Gin@outer@scaley\relax
17359     \let\Gin@angle\relax
17360     \let\Gin@ewidth\Gin@exclamation
17361     \let\Gin@eheight\Gin@ewidth
17362     \def\Gin@scalex{1}
17363     \let\Gin@scaley\Gin@exclamation
17364   }{%
17365     \ifRTL\ifGin@grid%
17366       \put(0,0){\normalfont\fontsize\@viipt\@viipt\selectfont%

```



```

17367         \grid(\@tempcnta,\@tempcntb)(\count@,\count@)[0,0]}%
17368     \fi%
17369     \put(0,0){\makebox(0,0)[bl]{\usebox{\z@}}}\fi%
17370 \end{picture}%
17371 }%

```

## 117 File pdfbase-xetex-bidi.def

```

17372 \ProvidesFile{pdfbase-xetex-bidi.def}[2022/02/18 v0.4 bidi adaptations for pdfbase package f
17373 \ExplSyntaxOn
17374 \cs_set_eq:Nn\pbs_outputpage_orig:\@outputpage
17375 \cs_set_nopar:Npn\@outputpage{
17376   \int_gincr:N\g_pbs_page_int
17377   \box_if_vertical:cTF{\outputbox}{
17378     \bool_set_true:N\l_pbs_is_vertical_bool
17379   }{
17380     \bool_set_false:N\l_pbs_is_vertical_bool
17381   }
17382   \hbox_set:Nn\@outputbox{
17383     %begin of page
17384     \hbox_overlap_right:n{\seq_map_inline:Nn\g_pbs_bop_seq{##1}}
17385     \box_use_drop:N\@outputbox
17386     %end of page
17387     \hbox_overlap_right:n{\seq_map_inline:Nn\g_pbs_eop_seq{##1}}
17388   }
17389   \bool_if:NT\l_pbs_is_vertical_bool{
17390     \vbox_set:Nn\@outputbox{\box_use_drop:N\@outputbox}
17391   }
17392   \pbs_outputpage_orig:
17393 }
17394 \ExplSyntaxOff

```

## 118 File pdfscape-xetex-bidi.def

```

17395 \ProvidesFile{pdfscape-xetex-bidi.def}[2022/02/18 v0.1 bidi adaptations for pdfscape packa
17396 \bidi@patchcmd{\landscape}{\PLS@Rotate{90}}{%
17397   \ifRTL
17398     \PLS@Rotate{-90}%
17399   \else
17400     \PLS@Rotate{90}%
17401   \fi
17402 }{}{}

```

## 119 File pdfpages-xetex-bidi.def

```

17403 \ProvidesFile{pdfpages-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for pdfpages package
17404 \renewcommand*{\includepdf}[2][{}]{%
17405   \begingroup
17406   \RTLfalse
17407   \let\AM@threadname\relax
17408   \AM@split@options{pdfpages}{#1}%
17409   \edef\AM@temp{\pdfpages}{\the\@temptokena}}%
17410   \expandafter\setkeys\AM@temp
17411   \ifthenelse{\boolean{AM@pkg@draft} \and \boolean{AM@survey}}{%

```



```

17412 \let\AM@currentdocname\relax
17413 \renewcommand\includegraphics[2][]{Survey in draft-mode}%
17414 \def\AM@pagecount{0}%
17415 }{%
17416 \AM@findfile{#2}%
17417 \if\AM@threadname\relax
17418 \def\AM@threadname{\AM@currentdocname}%
17419 \fi
17420 }%
17421 \ifAM@survey
17422 \def\AM@pagestemp{}%
17423 \@tempcnta=0
17424 \def\foo{%
17425 \ifundefined{r@\AM@xrprefix pdfpages@page\the\@tempcnta}%
17426 {\let\foo\relax}
17427 {\expandafter\ifx\expandafter\\AM@pagestemp\\
17428 \edef\AM@pagestemp{%
17429 \AM@pageref{\AM@xrprefix pdfpages@page\the\@tempcnta}}}%
17430 \else
17431 \edef\AM@pagestemp{\AM@pagestemp,%
17432 \AM@pageref{\AM@xrprefix pdfpages@page\the\@tempcnta}}}%
17433 \fi
17434 \advance\@tempcnta 1\relax
17435 }%
17436 \foo
17437 }%
17438 \foo
17439 \expandafter\ifx\expandafter\\AM@pagestemp\\
17440 \def\AM@pagestemp{1}%
17441 \fi
17442 \fi
17443 \ifAM@output
17444 \expandafter\AM@readlist\expandafter{\AM@pagestemp}%
17445 \AM@output{#1}%
17446 \fi
17447 \AM@CheckAtEnd
17448 \endgroup
17449 \AM@ClearShipoutPicture
17450 }

```

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

```

17451 \ProvidesFile{pgfcorescopes.code-xetex-bidi.def}[2015/11/14 v0.1 bidi adaptations for pgf pa
17452 \def\pgfpicture{%
17453 \begingroup%
17454 \ifmmode\else\@RTLfalse\beginL\fi%
17455 \pgfpicturetrue%
17456 \global\advance\pgf@picture@serial@count by1\relax%
17457 \edef\pgfpictureid{pgfid\the\pgf@picture@serial@count}%
17458 \let\pgf@nodecallback=\pgfutil@gobble%
17459 \pgf@picmaxx=-16000pt\relax%
17460 \pgf@picminx=16000pt\relax%
17461 \pgf@picmaxy=-16000pt\relax%
17462 \pgf@picminy=16000pt\relax%

```



```

17463 \pgf@relevantforpicturesizetrue%
17464 \pgf@resetpathsizes%
17465 \pgfutil@ifnextchar\bgroup\pgf@oldpicture\pgf@picture}
17466 \def\endpgfpicture{%
17467 \ifpgfrememberpicturepositiononpage%
17468 \hbox to0pt{\pgfsys@markposition{\pgfpictureid}}}%
17469 \fi%
17470 % ok, now let's position the box
17471 \ifdim\pgf@picmaxx=-16000pt\relax%
17472 % empty picture. make size 0.
17473 \global\pgf@picmaxx=0pt\relax%
17474 \global\pgf@picminx=0pt\relax%
17475 \global\pgf@picmaxy=0pt\relax%
17476 \global\pgf@picminy=0pt\relax%
17477 \fi%
17478 % Shift baseline outside:
17479 \pgf@relevantforpicturesizefalse%
17480 \pgf@process{\pgf@baseline}%
17481 \xdef\pgf@shift@baseline{\the\pgf@y}%
17482 %
17483 \pgf@process{\pgf@trimleft}%
17484 \global\advance\pgf@x by-\pgf@picminx
17485 % prepare \hskip\pgf@trimleft@final.
17486 % note that \pgf@trimleft@final is also queried
17487 % by the pgf image externalization.
17488 \xdef\pgf@trimleft@final{-\the\pgf@x}%
17489 %
17490 \pgf@process{\pgf@trimright}%
17491 \global\advance\pgf@x by-\pgf@picmaxx
17492 % prepare \hskip\pgf@trimright@final.
17493 % note that \pgf@trimright@final is also queried
17494 % by the pgf image externalization.
17495 \xdef\pgf@trimright@final{\the\pgf@x}%
17496 %
17497 \pgf@remember@layerlist@globally
17498 \endgroup%
17499 \hss%
17500 \egroup%
17501 \pgf@restore@layerlist@from@global
17502 \pgf@insertlayers%
17503 \endgroup%
17504 \pgfsys@discardpath%
17505 \endgroup%
17506 \pgfsys@endscope%
17507 \pgfsys@endpicture%
17508 \endgroup%
17509 \hss
17510 \egroup%
17511 \pgfsys@typesetpicturebox\pgfpic%
17512 \ifmmode\else\endL\fi%
17513 \endgroup%
17514 }

```



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

```
17515 \ProvidesFile{pgfsys.code-xetex-bidi.def}[2022/06/01 v0.1 bidi adaptations for pgfsys.code.t
17516 \def\pgfsys@shadingoutsidepgfpicture#1{%
17517   \beginL#1\endL%
17518 }
17519
17520
```

## 122 File picinpar-xetex-bidi.def

```
17521 \ProvidesFile{picinpar-xetex-bidi.def}[2013/04/08 v0.2 bidi adaptations for picinpar package
17522 \long\def\@makewincaption#1#2{%
17523   \setbox\@tempboxa\hbox{\footnotesize{\bf #1:\enspace}{#2}}%
17524   \ifdim\wd\@tempboxa>\picwd
17525     {\footnotesize{\bf #1:\enspace}{#2\par}}
17526   \else
17527     \hbox to\picwd{\if@RTL\beginR\fi\hfil\box\@tempboxa\hfil\if@RTL\endR\fi}
17528   \fi}
17529 \def\endwindow{%
17530   \global\tcd=\tcdsav
17531   \egroup\vskip\parskip\parshape=0 % reset parshape; end \box\rawtext
17532   \vbadness=10000
17533   \splittopskip=0pt
17534 %
17535 % Typeset the lines above the window
17536 %
17537 \ifnum\tcd>0\setbox\holder=\vsplit\rawtext to \tcd\baselineskip
17538 \tcn=\tcd
17539 \loop\advance\tcn -1
17540 \setbox\fslice=\vsplit\holder to\baselineskip
17541 \prune\fslice\linewidth
17542 \topheight=0pt
17543 \ifnum\dp\fslice>\dp\wstrutbox
17544   \advance\topheight-\dp\fslice
17545   \advance\topheight\dp\wstrutbox
17546   \advance\topheight\ilg\fi
17547 \hbox to\linewidth{\box\fslice}
17548 \vskip-\topheight
17549 \ifdim\ht\holder>0pt\repeat
17550 \fi
17551 %
17552 % Now we build the boxes beside the window
17553 %
17554 \global\topheight=\tcl\baselineskip
17555 \ifnum\cumpartcl>0\global\tcl=\cumtcl
17556   \global\topheight=\vpic
17557 \fi
17558 \ifnum\bl>0 \ifnum\br>0 \multiply\topheight by 2\fi\fi
17559 \ifnum\bl>0\setbox\holder=\vsplit\rawtext to\topheight
17560 \else\ifnum\br>0\setbox\holder=\vsplit\rawtext to\topheight\fi\fi
17561 \tcn=\tcl \na=0 \nb=0
17562 \ifnum\bl>0 \ifnum\br>0 \multiply\tcn by 2\fi\fi
17563 \ifnum\bl>0\na=\tcn\ifnum\br>0\divide\na by 2\fi\fi
```





```

17564 \ifnum\br>0\nb=\tcn\ifnum\bl>0\divide\nb by 2\fi\fi
17565 \ifnum\na=0\ifnum\nb=0
17566     \setbox\waslice=\vbox to\vpic{\vss}
17567     \setbox\wbslice=\vbox to\vpic{\vss}
17568     \bl=1\br=1
17569     \vskip\ilg
17570 \fi\fi
17571 %
17572 % both sides
17573 %
17574 \ifnum\na>0 \ifnum\nb>0
17575 \loop\advance\nb -1
17576 \advance\na -1
17577 \if@RTL%
17578 \setbox\bslice=\vsplit\holder to\baselineskip
17579 \prune\bslice\rtside
17580 \setbox\wbslice=\vbox{\unvbox\wbslice\hbox
17581 to\rtside{\box\bslice\hfil}}
17582 \setbox\aslice=\vsplit\holder to\baselineskip
17583 \prune\aslice\lftside
17584 \setbox\waslice=\vbox{\unvbox\waslice\hbox
17585 to\lftside{\box\aslice\hfil}}
17586 \else%
17587 \setbox\aslice=\vsplit\holder to\baselineskip
17588 \prune\aslice\lftside
17589 \setbox\waslice=\vbox{\unvbox\waslice\hbox
17590 to\lftside{\box\aslice\hfil}}
17591 \setbox\bslice=\vsplit\holder to\baselineskip
17592 \prune\bslice\rtside
17593 \setbox\wbslice=\vbox{\unvbox\wbslice\hbox
17594 to\rtside{\box\bslice\hfil}}
17595 \fi%
17596 \ifnum\nb>0\repeat
17597 \fi\fi
17598 %
17599 % only text on the left side
17600 %
17601 \ifnum\na>0
17602     \loop\advance\na -1
17603     \setbox\aslice=\vsplit\holder to\baselineskip
17604     \prune\aslice\lftside
17605     \setbox\waslice=\vbox{\unvbox\waslice\hbox
17606 to\lftside{\box\aslice\hfil}}
17607     \ifdim\ht\holder>0pt\repeat
17608 \fi
17609 %
17610 % only text on the right side
17611 %
17612 \ifnum\nb>0
17613     \loop\advance\nb -1
17614     \setbox\bslice=\vsplit\holder to\baselineskip
17615     \prune\bslice\rtside
17616     \setbox\wbslice=\vbox{\unvbox\wbslice\hbox
17617 to\rtside{\box\bslice\hfil}}

```



```

17618 \ifdim\ht\holder>0pt\repeat
17619 \fi
17620 %
17621 % fixing the dimensions of the window part
17622 %
17623 \ifnum\bl=0\topheight=\ht\wbslice
17624 \else\ifnum\br=0\topheight=\ht\waslice
17625 \else\ifdim\ht\waslice>\ht\wbslice\topheight=\ht\waslice
17626 \else\topheight=\ht\wbslice\fi\fi\fi
17627 %
17628 % ship out the window material to the main vertical list
17629 %
17630 \ifnum\bl>0 \ifnum\br>0 \ifdim\ht\wbslice<\topheight
17631 \setbox\wbslice=\vbox to\topheight{\box\wbslice\vfill}
17632 \fi\fi\fi
17633 \setbox\windowbox=\vbox{\hbox to\linewidth{%
17634 \ifnum\bl>0\box\waslice\hfill\fi%
17635 \vbox to\topheight{\hrule width\picwd height0pt depth0pt\vskip0pt%
17636 \vfill\unvbox\picbox%
17637 \ifnum\picwd>0\vfill\fi%
17638 \vss}\ifnum\br>0\hfill\vbox{\box\wbslice}\fi}}%
17639 \unvbox\windowbox%
17640 \loop
17641 \setbox\bslice=\vsplit\rawtext to\baselineskip
17642 \prune\bslice\linewidth
17643 \setbox\wbslice=\vbox{\hbox to\linewidth{\box\bslice\hfill}}
17644 \unvbox\wbslice
17645 \ifdim\ht\rawtext>0pt
17646 \repeat
17647 }% FINITO

```

## 123 File plain-xetex-bidi.def

```

17648 \def\TeXXeTOn{\TeXXeTstate=1 }
17649 \def\TeXXeTOff{\TeXXeTstate=0 }
17650 \TeXXeTOn
17651 \def\usebox#1{\leavevmode\copy #1\relax}
17652 \def\bidi@RTL@everypar{\setbox\z@ \lastbox\if@RTL\beginR\else\beginL\fi\ifvoid\z@\else\usebox\z@}
17653 \let\bidi@o@everypar=\everypar
17654 \newtoks\bidi@n@everypar
17655 \bidi@n@everypar\expandafter{\the\bidi@o@everypar}
17656 \bidi@o@everypar{\bidi@RTL@everypar\the\bidi@n@everypar}
17657 \let\everypar=\bidi@n@everypar
17658 \def\moreLRE{\bracetext \aftergroup\endL \beginL\@RTLfalse}
17659 \def\moreRLE{\bracetext \aftergroup\endR \beginR\@RTLtrue}
17660 \protected\def\hboxR{\hbox\bgroup
17661 \everyhbox{%
17662 \aftergroup\egroup
17663 \everyhbox}%
17664 \beginR
17665 \@hboxRconstructtrue
17666 \bgroup
17667 \aftergroup\endR
17668 \aftergroup\egroup

```



```

17669 } \hbox}
17670 \protected\def\hboxL{\hbox\bgroup
17671 \everyhbox{%
17672 \aftergroup\egroup
17673 \everyhbox}%
17674 \beginL
17675 \@hboxRconstructfalse
17676 \bgroup
17677 \aftergroup\endL
17678 \aftergroup\egroup
17679 } \hbox}
17680 \protected\def\vboxR{\vbox\bgroup
17681 \everyvbox{%
17682 \aftergroup\egroup
17683 \everyvbox}%
17684 \@RTLtrue
17685 \bgroup
17686 \aftergroup\egroup
17687 } \vbox}
17688 \protected\def\vboxL{\vbox\bgroup
17689 \everyvbox{%
17690 \aftergroup\egroup
17691 \everyvbox}%
17692 \@RTLfalse
17693 \bgroup
17694 \aftergroup\egroup
17695 } \vbox}
17696 \def\LTR{\par\@RTLfalse\@RTL@footnotefalse\hsize\linewidth\parshape\z@}
17697 \def\endLTR{\par}
17698 \def\RTL{\par\@RTLtrue\@RTL@footnotetrue\hsize\linewidth\parshape\z@}
17699 \def\endRTL{\par}
17700 \def\setRTL{\@RTLtrue\@RTL@footnotetrue}
17701 \def\setLTR{\@RTLfalse\@RTL@footnotefalse}
17702 \let\unsetRTL=\setLTR
17703 \let\unsetLTR=\setRTL
17704 \let\LR=\LRE
17705 \let\RL=\RLE
17706 \def\@ensure@RTL#1{\if@RTL#1\else\RLE{#1}\fi}
17707 \def\@ensure@LTR#1{\if@RTL\LRE{#1}\else#1\fi}
17708 \let\@ensure@RL=\@ensure@RTL
17709 \let\@ensure@LR=\@ensure@LTR
17710 \def\@ensure@dir#1{\if@RTL\RLE{#1}\else{#1}\fi}
17711 \let\@ensure@maindir=\@ensure@dir
17712 \def\@RTL{RTL}
17713 \def\@LTR{LTR}
17714 \def\save@dir{\if@RTL\gdef\saved@dir{RTL}\else\gdef\saved@dir{LTR}\fi}
17715 \def\reset@dir{\ifx\saved@dir\@RTL\setRTL\else\ifx\saved@dir\@LTR\setLTR\else\relax\fi}
17716 \let\@TeX\TeX
17717 \def\TeX{\@ensure@LTR{\@TeX}}
17718 \def\pagecontents{\ifvoid\topins\else\unvbox\topins\fi
17719 \dimen@=\dp\@cclv \unvbox\@cclv % open up \box255
17720 \ifvoid\footins\else % footnote info is present
17721 \vskip\skip\footins
17722 \footnoterule

```



```

17723 \unvbox\footins\fi
17724 \ifr@ggedbottom \kern-\dimen@ \vfil \fi
17725 \ifvoid\@bidi@copyins@
17726 \else
17727 \vskip\skip\@bidi@copyins@
17728 \unvbox\@bidi@copyins@
17729 \fi
17730 }
17731 \long\def\bidi@reflect@box#1{%
17732 \leavevmode
17733 \setbox\z@\hbox{#{#1}}%
17734 \setbox\tw@\hbox{\special{x:gsave}\special{x:scale -1 1}\rlap{\copy\z@}\special{x:grestore}}
17735 \hbox to \wd\z@{\kern\wd\z@\box\tw@\hss}%
17736 }
17737 \def\XeTeX{\LR{\leavevmode$\smash{\hbox{X}\lower.5ex
17738 \hbox{\kern-.125em\bidi@reflect@box{E}}\kern-.1667em \TeX}}$}}
17739 \let\setRL=\setRTL
17740 \let\setLR=\setLTR
17741 \let\unsetRL=\setLTR
17742 \let\bidi@saved@eqno=\eqno
17743 \let\bidi@saved@leqno=\leqno
17744 \def\eqno{\ifnum\predisplaydirection<\z@ \bidi@saved@leqno \else \bidi@saved@eqno \fi}
17745 \def\leqno{\ifnum\predisplaydirection<\z@ \bidi@saved@eqno \else \bidi@saved@leqno \fi}
17746 \def\centerline#1{\line{\hss\if@RTL\beginR\fi#1\if@RTL\endR\fi\hss}}
17747 \def\leftline#1{\line{\if@RTL\beginR\fi#1\if@RTL\endR\fi\hss}}
17748 \def\rightline#1{\line{\hss\if@RTL\beginR\fi#1\if@RTL\endR\fi}}

```

## 124 File pstricks-xetex-bidi.def

```

17749 \ProvidesFile{pstricks-xetex-bidi.def}[2015/11/18 v0.5 bidi adaptations for pstricks package]
17750 \def\pspicture{\begingroup\ifmmode\else\@RTLfalse\beginL\fi\pst@ifstar\pst@picture}
17751 \def\endpspicture{%
17752 \ifshowgrid\ifnum\showgridp@s>0
17753 \psgrid[xunit=\sh@wgridXunit,yunit=\sh@wgridYunit,style=gridstyle]\fi\fi%
17754 \pst@killglue
17755 % \global\pst@shift=\pst@shift% in fact of the following endgroup
17756 \endgroup
17757 \egroup
17758 \ifdim\wd\pst@hbox=\z@\else
17759 %\@pstrickserr{Extraneous space in the pspicture environment}%
17760 %\Type \space <return> \space to proceed.}%
17761 \fi
17762 \ht\pst@hbox=\pst@dimd
17763 \dp\pst@hbox=-\pst@dimb
17764 \setbox\pst@hbox=\hbox{%
17765 \kern-\pst@dima
17766 % Orig version -----
17767 %\ifx\pst@tempa\@empty\else
17768 %\advance\pst@dimd-\pst@dimb
17769 %\pst@dimd=\pst@tempa\pst@dimd
17770 %\advance\pst@dimd\pst@dimb
17771 %\lower\pst@dimd
17772 %\fi
17773 %----- end Orig

```



```

17774 \ifPst@shift@star%\typeout{==pstricks== old behaviour of the shift option}% shift=*
17775 \advance\pst@dimd-\pst@dimb
17776 \pst@dimd=0.5\pst@dimd
17777 \else\pst@dimd-\pst@shift\fi
17778 \advance\pst@dimd\pst@dimb
17779 \lower\pst@dimd
17780 \box\pst@hbox
17781 \kern\pst@dimc}%
17782 \ifstar\setbox\pst@hbox=\hbox{\clipbox@@\z@}\fi
17783 \leavevmode\ifdim\overfullrule=\z@\box\pst@hbox\else
17784 \fboxsep=0pt
17785 \fbox{\rule[-\pst@shift]{0pt}{\ht\pst@hbox}\rule{\wd\pst@hbox}{0pt}}\fi
17786 \ifmmode\else\endL\fi
17787 \endgroup%
17788 \psset[pstricks]{shift=0}% reset value
17789 }

```

## 125 File quotchap-xetex-bidi.def

```

17790 \ProvidesFile{quotchap-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for quotchap package]
17791 \renewcommand{\qauthor}[1]{%
17792 \par\smallskip
17793 {\ifRTL\raggedright\else\raggedleft\fi\upshape #1\quad\hbox{}\par}\bigskip}
17794 \renewcommand{\@makechapterhead}[1]{\chapterheadstartvskip%
17795 {\size@chapter{\sectfont\ifRTL\raggedright\else\raggedleft\fi
17796 {\chapnumfont
17797 \ifnum \c@secnumdepth >\m@ne%
17798 \if@mainmatter\thechapter%
17799 \fi\fi
17800 \par\nobreak}%
17801 {\ifRTL\raggedright\else\raggedleft\fi\advance\ifRTL\rightrightmargin\else\leftmargin\fi
17802 \nobreak\chapterheadendvskip}}
17803 \renewcommand*{\@iprintcites}{%
17804 \vbox to\z@{\leavevmode\copy\@quotebox\vss}
17805 \global\let\@printcites\relax}

```

## 126 File ragged2e-xetex-bidi.def

```

17806 \ProvidesFile{ragged2e-xetex-bidi.def}[2018/10/17 v0.3 bidi adaptations for ragged2e package]
17807 \renewcommand{\Centering}{%
17808 \ifx\\ \@raggedtwoe@savedcr
17809 \let\\ \@centercr
17810 \fi
17811 \let\@gnewline\@raggedtwoe@gnewline
17812 \ifRTL\rightrightmargin\else\leftmargin\fi\CenteringLeftskip
17813 \@rightskip\CenteringRightskip
17814 \ifRTL\leftmargin\else\rightmargin\fi\@rightskip
17815 \parfillskip\CenteringParfillskip
17816 \parindent\CenteringParindent
17817 \@raggedtwoe@spaceskiptrue
17818 \@raggedtwoe@everyselectfont
17819 }
17820 \renewcommand{\RaggedLeft}{%
17821 \ifx\\ \@raggedtwoe@savedcr

```



```

17822     \let\\\@centercr
17823   \fi
17824   \let\@gnewline\@raggedtwoe@gnewline
17825   \if@RTL\rightskip\else\leftskip\fi\RaggedLeftLeftskip
17826   \@rightskip\RaggedLeftRightskip
17827   \if@RTL\leftskip\else\rightskip\fi\@rightskip
17828   \parfillskip\RaggedLeftParfillskip
17829   \parindent\RaggedLeftParindent
17830   \@raggedtwoe@spaceskiptrue
17831   \@raggedtwoe@everyselectfont
17832 }
17833 \renewcommand{\RaggedRight}{%
17834   \ifx\\\@raggedtwoe@savedcr
17835     \let\\\@centercr
17836   \fi
17837   \let\@gnewline\@raggedtwoe@gnewline
17838   \if@RTL\rightskip\else\leftskip\fi\RaggedRightLeftskip
17839   \@rightskip\RaggedRightRightskip
17840   \if@RTL\leftskip\else\rightskip\fi\@rightskip
17841   \parfillskip\RaggedRightParfillskip
17842   \parindent\RaggedRightParindent
17843   \@raggedtwoe@spaceskiptrue
17844   \@raggedtwoe@everyselectfont
17845 }
17846 \renewcommand{\justifying}{%
17847   \let\\\@raggedtwoe@savedcr
17848   \let\@gnewline\@raggedtwoe@saved@gnewline
17849   \if@RTL\rightskip\else\leftskip\fi\z@
17850   \@rightskip\z@
17851   \if@RTL\leftskip\else\rightskip\fi\@rightskip
17852   \parfillskip\JustifyingParfillskip
17853   \parindent\JustifyingParindent
17854   \@raggedtwoe@spaceskipfalse
17855   \@raggedtwoe@everyselectfont
17856 }
17857 \def\@raggedtwoe@raggedrightboxes@opt{%
17858   \renewcommand{\@arrayparboxrestore}{%
17859     \let\if@nobreak\iffalse
17860     \let\if@noskipsec\iffalse
17861     \let\par\@par
17862     \let\-\@dischyph
17863     \let'\@acci\let\` \@accii\let\=\@acciii
17864     \parskip\z@skip
17865     \everypar{}%
17866     \linewidth\hsize
17867     \@totalleftmargin\z@
17868     \if@RTL
17869       \RaggedLeft
17870     \else
17871       \RaggedRight
17872     \fi
17873     \lineskip\normallineskip
17874     \baselineskip\normalbaselineskip
17875     \sloppy}%

```



```

17876 \let\@raggedtwoe@raggedrightboxes@opt\relax
17877 }
17878 \def\@raggedtwoe@document@opt{%
17879   \AtBeginDocument{\@raggedtwoe@abdhook}%
17880   \@raggedtwoe@raggedrightboxes@opt
17881   \@raggedtwoe@footmisctrue
17882   \let\@raggedtwoe@document@opt\relax
17883 }
17884 \def\@raggedtwoe@abdhook{%
17885   \PackageInfo{ragged2e}{ABD: executing `string\RaggedLeft' for
17886     right to left documents and `string\RaggedRight' for left
17887     to right documents}%
17888   \ifRTL
17889     \RaggedLeft
17890   \else
17891     \RaggedRight
17892   \fi
17893   \@ifundefined{@tocrmarg}{\edef\@tocrmarg{\@tocrmarg plus 2em}}%
17894   \let\@raggedtwoe@abdhook\relax
17895 }
17896 \@ifpackagewith{ragged2e}{raggedrightboxes}{%
17897   \@raggedtwoe@raggedrightboxes@opt
17898 }{}
17899 \@ifpackagewith{ragged2e}{document}{%
17900   \@raggedtwoe@document@opt
17901 }{}
17902 \let\origin@RaggedLeft=\RaggedLeft
17903 \let\origin@RaggedRight=\RaggedRight
17904 \def\RaggedLeft{\ifRTL\origin@RaggedRight\else\origin@RaggedLeft\fi}
17905 \def\RaggedRight{\ifRTL\origin@RaggedLeft\else\origin@RaggedRight\fi}

```

## 127 File rapport1-xetex-bidi.def

```

17906 \ProvidesFile{rapport1-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for rapport1 class f
17907 \renewenvironment{theindex}{%
17908   \if@twocolumn
17909     \@restonecolfalse
17910   \else
17911     \@restonecoltrue
17912   \fi
17913   \columnseprule \z@
17914   \columnsep 35\p@
17915   \twocolumn[\@makeschapterhead{\indexname}]%
17916   \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
17917   \thispagestyle{plain}\parindent\z@
17918   \parskip\z@ \@plus .3\p@\relax
17919   \let\item\@idxitem
17920 }{%
17921   \if@restonecol\onecolumn\else\clearpage\fi}
17922 \renewcommand*\head@style{%
17923   \interlinepenalty \@M
17924   \hyphenpenalty=\@M \exhyphenpenalty=\@M
17925   \ifRTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
17926 \if@titlepage

```



```

17927 \renewenvironment{abstract}{%
17928     \titlepage
17929     \null\vfil
17930     \section*{\SectFont\abstractname}%
17931     \noindent\ignorespaces}
17932 {\par\vfil\null\endtitlepage}
17933 \else
17934 \renewenvironment{abstract}{%
17935     \if@twocolumn
17936     \section*{\abstractname}%
17937     \else
17938     \bgroup\if@RTL\leftskip\else\rightskip\fi=\unitindent
17939     \section*{\small\SectFont\abstractname}%
17940     \noindent\ignorespaces
17941     \fi}
17942 {\if@twocolumn\else\par\egroup\fi}
17943 \fi
17944 \renewcommand*\@regtocline[3]{%
17945     \ifnum #1>\c@tocdepth
17946     \else
17947     \vskip\z@\@plus.2\p@
17948     {\hangindent\z@ \afterindenttrue \interlinepenalty\@M
17949     \if@RTL\rightskip\else\leftskip\fi\unitindent
17950     \if@RTL\leftskip\else\rightskip\fi\unitindent\@plus 1fil
17951     \parfillskip\z@
17952     \@tempdima\unitindent
17953     \parindent\z@
17954     \leavevmode
17955     \hbox{}\hskip -\if@RTL\rightskip\else\leftskip\fi\relax#2\nobreak
17956     \hskip 1em \nobreak{\slshape #3}\par
17957     }%
17958     \fi}
17959 \if@oldtoc
17960 \renewcommand*\l@part[2]{%
17961     \ifnum \c@tocdepth >-2\relax
17962     \addpenalty{-\@highpenalty}%
17963     \addvspace{2.25em \@plus\p@}%
17964     \begingroup
17965     \setlength\@tempdima{3em}%
17966     \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
17967     \parfillskip -\@pnumwidth
17968     {\leavevmode
17969     \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
17970     \nobreak
17971     \global\@nobreaktrue
17972     \everypar{\global\@nobreakfalse\everypar{}}%
17973     \endgroup
17974     \fi}
17975 \else
17976 \renewcommand*\l@part{%
17977     \ifnum \c@tocdepth >-2\relax
17978     \addpenalty{-\@highpenalty}%
17979     \addvspace{2.25em \@plus \p@}%
17980     \@regtocline{0}%

```





```

17981 \fi}
17982 \fi
17983 \if@oldtoc
17984 \renewcommand*\l@chapter[2]{%
17985 \addpenalty{-\@highpenalty}%
17986 \vskip 1.0em \@plus\p@
17987 \setlength\@tempdima{1.5em}%
17988 \begingroup
17989 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
17990 \parfillskip -\@pnumwidth
17991 \leavevmode \bfseries
17992 \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
17993 \hskip -\if@RTL\rightskip\else\leftskip\fi
17994 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
17995 \penalty\@highpenalty
17996 \endgroup}
17997 \else
17998 \renewcommand*\l@chapter{\@regtocline{0}}
17999 \fi
18000 \renewcommand*\left@footnoterule{%
18001 \kern-3\p@
18002 \kern.5\baselineskip
18003 \hrule\@width\unitindent
18004 \kern.4\baselineskip
18005 }
18006 \renewcommand*\right@footnoterule{%
18007 \kern-3\p@
18008 \kern.5\baselineskip
18009 \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
18010 \kern.4\baselineskip}
18011 \renewenvironment{thebibliography}[1]
18012 {\chapter*{\bibname}%
18013 \mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
18014 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
18015 \bidi@thebibliography@font@hook%
18016 \list{\@biblabel{\@arabic\c@enumiv}}%
18017 {\settowidth\labelwidth{\@biblabel{#1}}%
18018 \leftmargin\labelwidth
18019 \advance\leftmargin\labelsep
18020 \@openbib@code
18021 \usecounter{enumiv}%
18022 \let\p@enumiv\@empty
18023 \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
18024 \sloppy\clubpenalty4000\widowpenalty4000%
18025 \sfcode`\.\@m}
18026 {\def\@noitemerr
18027 {\@latex@warning{Empty `thebibliography' environment}}}%
18028 \endlist}
18029 \renewcommand*\thesection{\thechapter\@SepMark\@arabic\c@section}
18030 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
18031 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
18032 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
18033 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
18034 \renewcommand*\theequation{%

```



```

18035 \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@equation}
18036 \renewcommand*\thefigure{%
18037 \ifnum\c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@figure}
18038 \renewcommand*\thetable{%
18039 \ifnum\c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@table}
18040 \if@titlepage
18041 \renewcommand*\TitleFont{\rmfamily}
18042 \renewcommand*\maketitle{%
18043 \begin{titlepage}%
18044 \let\footnotesize\small
18045 \let\right@footnoterule\relax
18046 \let\left@footnoterule\relax
18047 \let\textwidth\footnoterule\relax
18048 \let \footnote \thanks
18049 \long\def\@makefnmark##1{\parindent\z@
18050 \def\labelitemi{\textendash}\@revlabeltrue
18051 \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
18052 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
18053 \if@compatibility\setcounter{page}{0}\fi
18054 \null\vfil
18055 \vskip 60\p@
18056 \begin{center}%
18057 \TitleFont
18058 {\LARGE \def\{\{\penalty -\@M}
18059 \if@allcaps
18060 \expandafter\uc@nothanks\@title\thanks\relax
18061 \else
18062 \@title
18063 \fi\par}%
18064 \vskip 3em%
18065 {\large
18066 \lineskip .75em \parindent\z@
18067 \begin{tabular}[t]{c}%
18068 \if@allcaps
18069 \expandafter\uc@authornothanks\@author\and\relax
18070 \else
18071 \@author
18072 \fi
18073 \end{tabular}\par}%
18074 \vskip 1.5em%
18075 {\large
18076 \if@allcaps
18077 \uppercase\expandafter{\@date}%
18078 \else
18079 \@date
18080 \fi\par}%
18081 \end{center}\par
18082 \@thanks
18083 \vfil\null
18084 \end{titlepage}%
18085 \setcounter{footnote}{0}%
18086 \global\let\thanks\relax
18087 \global\let\maketitle\relax
18088 \global\let\@thanks\@empty

```



```

18089 \global\let\@author\@empty
18090 \global\let\@title\@empty
18091 \global\let\@date\@empty
18092 \global\let\title\relax
18093 \global\let\author\relax
18094 \global\let\date\relax
18095 \global\let\and\relax
18096 }
18097 \def\uc@nothanks#1\thanks{\uppercase{#1}\futurelet\@tempa\uc@tx}
18098 \def\uc@authornothanks#1\and{\uc@nothanks#1\thanks\relax
18099 \futurelet\@tempa\uc@ax}
18100 \def\uc@ax{%
18101 \ifx\@tempa\relax
18102 \else
18103 \\\andname \\\expandafter\uc@authornothanks
18104 \fi}
18105 \def\uc@tx{\ifx\@tempa\relax
18106 \else \expandafter\uc@ty \fi}
18107 \def\uc@ty#1{\thanks{#1}\uc@nothanks}
18108 \else
18109 \renewcommand*\maketitle{\par
18110 \begingroup
18111 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
18112 \def\@makefnmark{\rlap{%
18113 \textsuperscript{\normalfont\@thefnmark}}}%
18114 \long\def\@makefntext{\@xmakefntext{%
18115 \textsuperscript{\normalfont\@thefnmark}}}%
18116 \if@twocolumn
18117 \ifnum \col@number=\@ne
18118 \@maketitle
18119 \else
18120 \twocolumn[\@maketitle]%
18121 \fi
18122 \else
18123 \newpage
18124 \global\@topnum\z@
18125 \@maketitle
18126 \fi
18127 \thispagestyle{plain}\@thanks
18128 \endgroup
18129 \setcounter{footnote}{0}%
18130 \global\let\thanks\relax
18131 \global\let\maketitle\relax
18132 \global\let\@maketitle\relax
18133 \global\let\@thanks\@empty
18134 \global\let\@author\@empty
18135 \global\let\@title\@empty
18136 \global\let\@date\@empty
18137 \global\let\title\relax
18138 \global\let\author\relax
18139 \global\let\date\relax
18140 \global\let\and\relax
18141 }
18142 \def\@maketitle{%

```



```

18143 \newpage
18144 \null
18145 \vskip 2em%
18146 \begin{center}%
18147   \let \footnote \thanks
18148   {\LARGE \TitleFont \@title \par}%
18149   \vskip 1.5em%
18150   {\large \TitleFont
18151     \lineskip .5em%
18152     \begin{tabular}[t]{c}%
18153       \@author
18154     \end{tabular}\par}%
18155   \vskip 1em%
18156   {\large \TitleFont \@date}%
18157 \end{center}%
18158 \par
18159 \vskip 1.5em}
18160 \fi

```

## 128 File rapport3-xetex-bidi.def

```

18161 \ProvidesFile{rapport3-xetex-bidi.def}[2017/06/09 v0.6 bidi adaptations for rapport3 class f
18162 \renewenvironment{theindex}{%
18163   \if@twocolumn
18164     \@restonecolfalse
18165   \else
18166     \@restonecoltrue
18167   \fi
18168   \columnseprule \z@
18169   \columnsep 35\p@
18170   \twocolumn[\@makeschapterhead{\indexname}]%
18171   \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
18172   \thispagestyle{plain}\parindent\z@
18173   \parskip\z@ \@plus .3\p@\relax
18174   \let\item\@idxitem
18175   }{%
18176   \if@restonecol\onecolumn\else\clearpage\fi}
18177 \if@titlepage
18178 \renewcommand*\TitleFont{\rmfamily}
18179 \renewcommand*\maketitle{%
18180   \begin{titlepage}%
18181     \let\footnotesize\small
18182     \let\right@footnoterule\relax
18183     \let\left@footnoterule\relax
18184     \let\textwidth\footnoterule\relax
18185     \let \footnote \thanks
18186     \let \LTRfootnote \LTRthanks
18187     \let \RTLfootnote \RTLthanks
18188     \long\def\@makefntext##1{\parindent\z@
18189       \def\labelitemi{\textendash}\@revlabeltrue
18190       \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
18191     \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
18192     \if@compatibility\setcounter{page}{0}\fi
18193     \null\vfil

```



```

18194 \vskip 60\p@
18195 \begin{center}%
18196 \TitleFont
18197 {\LARGE \def\\{\penalty -\@M}
18198 \if@allcaps
18199 \expandafter\uc@nothanks\@title\thanks\relax
18200 \else
18201 \@title
18202 \fi\par}%
18203 \vskip 3em%
18204 {\large
18205 \lineskip .75em \parindent\z@
18206 \begin{tabular}[t]{c}%
18207 \if@allcaps
18208 \expandafter\uc@authornothanks\@author\and\relax
18209 \else
18210 \@author
18211 \fi
18212 \end{tabular}\par}%
18213 \vskip 1.5em%
18214 {\large
18215 \if@allcaps
18216 \uppercase\expandafter{\@date}%
18217 \else
18218 \@date
18219 \fi\par}%
18220 \end{center}\par
18221 \@thanks
18222 \vfil\null
18223 \end{titlepage}%
18224 \setcounter{footnote}{0}%
18225 \global\let\thanks\relax
18226 \global\let\LTRthanks\relax
18227 \global\let\RTLthanks\relax
18228 \global\let\maketitle\relax
18229 \global\let\@thanks\@empty
18230 \global\let\@author\@empty
18231 \global\let\@title\@empty
18232 \global\let\@date\@empty
18233 \global\let\title\relax
18234 \global\let\author\relax
18235 \global\let\date\relax
18236 \global\let\and\relax
18237 }
18238 \def\uc@nothanks#1\thanks{\uppercase{#1}\futurelet\@tempa\uc@tx}
18239 \def\uc@authornothanks#1\and{\uc@nothanks#1\thanks\relax
18240 \futurelet\@tempa\uc@ax}
18241 \def\uc@ax{%
18242 \ifx\@tempa\relax
18243 \else
18244 \\\andname\\ \expandafter\uc@authornothanks
18245 \fi}
18246 \def\uc@tx{\ifx\@tempa\relax
18247 \else \expandafter\uc@ty \fi}

```



```

18248 \def\uc@ty#1{\thanks{#1}\uc@nothanks}
18249 \else
18250 \renewcommand*\maketitle{\par
18251   \begingroup
18252     \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
18253     \def\@makefnmark{\rlap{%
18254       \@textsuperscript{\normalfont\@thefnmark}}}%
18255     \long\def\@makefntext{\@xmakefntext{%
18256       \@textsuperscript{\normalfont\@thefnmark}}}%
18257     \if@twocolumn
18258       \ifnum \col@number=\@ne
18259         \@maketitle
18260       \else
18261         \twocolumn[\@maketitle]%
18262       \fi
18263     \else
18264       \newpage
18265       \global\@topnum\z@
18266       \@maketitle
18267     \fi
18268     \thispagestyle{plain}\@thanks
18269   \endgroup
18270   \setcounter{footnote}{0}%
18271   \global\let\thanks\relax
18272   \global\let\LTRthanks\relax
18273   \global\let\RTLthanks\relax
18274   \global\let\maketitle\relax
18275   \global\let\@maketitle\relax
18276   \global\let\@thanks\@empty
18277   \global\let\@author\@empty
18278   \global\let\@title\@empty
18279   \global\let\@date\@empty
18280   \global\let\title\relax
18281   \global\let\author\relax
18282   \global\let\date\relax
18283   \global\let\and\relax
18284 }
18285 \def\@maketitle{%
18286   \newpage
18287   \null
18288   \vskip 2em%
18289   \if@titlecentered
18290     \begin{center}%
18291       \let \footnote \thanks
18292       \let \LTRfootnote \LTRthanks
18293       \let \RTLfootnote \RTLthanks
18294       {\LARGE \TitleFont \@title \par}%
18295       \vskip 1.5em%
18296       {\large \TitleFont
18297         \lineskip .5em%
18298         \begin{tabular}[t]{c}%
18299           \@author
18300         \end{tabular}\par}%
18301       \vskip 1em%

```



```

18302     {\large \TitleFont \@date}%
18303   \end{center}%
18304   \else
18305     {\LARGE \TitleFont \head@style \@title \par} \vskip 1.5em
18306     {\large \TitleFont \lineskip .5em \tabcolsep\z@
18307       \def\and{%% \begin{tabular} has already started
18308         \end{tabular}\hskip 1em plus .17fil
18309         \ifRTL\begin{tabular}[t]{r}\else\begin{tabular}[t]{l}\fi}% \end{tabu
18310         \ifRTL\begin{tabular}[t]{r}\else\begin{tabular}[t]{l}\fi\@author\end{tabular}%
18311       \vskip 1em {\large \TitleFont \@date}
18312   \fi
18313   \par
18314   \vskip 1.5em}
18315 \fi
18316 \renewcommand*\@regtocline[3]{%
18317   \ifnum #1>\c@tocdepth
18318   \else
18319     \vskip\z@\@plus.2\p@
18320     {\hangindent\z@ \afterindenttrue \interlinepenalty\@M
18321       \ifRTL\righskip\else\leftskip\fi\unitindent
18322       \ifRTL\leftskip\else\righskip\fi\unitindent\@plus 1fil
18323       \parfillskip\z@
18324       \@tempdima\unitindent
18325       \parindent\z@
18326       \leavevmode
18327       \hbox{} \hskip -\ifRTL\righskip\else\leftskip\fi\relax#2\nobreak
18328       \hskip 1em \nobreak{\slshape #3}\par
18329     }%
18330   \fi}
18331 \if@oldtoc
18332 \renewcommand*\l@part[2]{%
18333   \ifnum \c@tocdepth >-2\relax
18334     \addpenalty{-\@highpenalty}%
18335     \addvspace{2.25em \@plus\p@}%
18336     \begingroup
18337       \setlength\@tempdima{3em}%
18338       \parindent \z@ \ifRTL\leftskip\else\righskip\fi \@pnumwidth
18339       \parfillskip -\@pnumwidth
18340       {\leavevmode
18341         \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
18342         \nobreak
18343         \global\@nobreaktrue
18344         \everypar{\global\@nobreakfalse\everypar{}}%
18345       \endgroup
18346   \fi}
18347 \else
18348   \renewcommand*\l@part{%
18349     \ifnum \c@tocdepth >-2\relax
18350       \addpenalty{-\@highpenalty}%
18351       \addvspace{2.25em \@plus \p@}%
18352       \@regtocline{0}%
18353     \fi}
18354 \fi
18355 \if@oldtoc

```



```

18356 \renewcommand*\l@chapter[2]{%
18357     \addpenalty{-\@highpenalty}%
18358     \vskip 1.0em \@plus\p@
18359     \setlength\@tempdima{1.5em}%
18360     \begingroup
18361     \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
18362     \parfillskip -\@pnumwidth
18363     \leavevmode \bfseries
18364     \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
18365     \hskip -\if@RTL\rightskip\else\leftskip\fi
18366     #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
18367     \penalty\@highpenalty
18368     \endgroup}
18369 \else
18370     \renewcommand*\l@chapter{\@regtocline{0}}
18371 \fi
18372 \renewcommand*\head@style{%
18373     \interlinepenalty \@M
18374     \hyphenpenalty=\@M \exhyphenpenalty=\@M
18375     \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
18376 \if@titlepage
18377     \renewenvironment{abstract}{%
18378         \titlepage
18379         \null\vfil
18380         \section*{\SectFont\abstractname}%
18381         \noindent\ignorespaces}
18382     {\par\vfil\null\endtitlepage}
18383 \else
18384     \renewenvironment{abstract}{%
18385         \if@twocolumn
18386             \section*{\abstractname}%
18387         \else
18388             \bgroup\if@RTL\leftskip\else\rightskip\fi=\unitindent
18389             \section*{\small\SectFont\abstractname}%
18390             \noindent\ignorespaces
18391         \fi}
18392     {\if@twocolumn\else\par\egroup\fi}
18393 \fi
18394 \renewcommand*\thesection{\thechapter\@SepMark\@arabic\c@section}
18395 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
18396 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
18397 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
18398 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
18399 \renewcommand*\thefigure{%
18400     \ifnum\c@chapter>\z@\thechapter\@SepMark\fi\@arabic\c@figure}
18401 \renewcommand*\thetable{%
18402     \ifnum\c@chapter>\z@\thechapter\@SepMark\fi\@arabic\c@table}
18403 \renewcommand*\theequation{%
18404     \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@equation}
18405 \renewenvironment{thebibliography}[1]
18406     {\chapter*{\bibname}%
18407         \mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
18408         \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
18409         \bidi@thebibliography@font@hook%

```





```

18410 \list{\@biblabel{\@arabic\c@enumiv}}%
18411 {\settowidth\labelwidth{\@biblabel{#1}}%
18412 \leftmargin\labelwidth
18413 \advance\leftmargin\labelsep
18414 \openbib@code
18415 \usecounter{enumiv}%
18416 \let\p@enumiv\@empty
18417 \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
18418 \sloppy\clubpenalty4000\widowpenalty4000%
18419 \sfcode\.\@m}
18420 {\def\@noitemerr
18421 {\@latex@warning{Empty `thebibliography' environment}}}%
18422 \endlist}
18423 \renewcommand*\left@footnoterule{%
18424 \kern-3\p@
18425 \kern.5\baselineskip
18426 \hrule\@width\unitindent
18427 \kern.4\baselineskip
18428 }
18429 \renewcommand*\right@footnoterule{%
18430 \kern-3\p@
18431 \kern.5\baselineskip
18432 \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
18433 \kern.4\baselineskip}
18434 \renewcommand*\head@style{%
18435 \interlinepenalty \@M
18436 \hyphenpenalty=\@M \exhyphenpenalty=\@M
18437 \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}

```

## 129 File refrep-xetex-bidi.def

```

18438 \ProvidesFile{refrep-xetex-bidi.def}[2017/06/09 v0.5 bidi adaptations for refrep class for X
18439 \if@titlepage
18440 \renewcommand\maketitle{\begin{titlepage}%
18441 \let\footnotesize\small
18442 \let\right@footnoterule\relax
18443 \let\left@footnoterule\relax
18444 \let\textwidth\footnoterule\relax
18445 \let\footnote\thanks
18446 \let\LTRfootnote\LTRthanks
18447 \let\RTLfootnote\RTLthanks
18448 \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
18449 \def\@makefnmark%
18450 {\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
18451 \long\def\@makefntext##1{%
18452 \setpar{\@par
18453 \tempdima = \hsize
18454 \advance\tempdima -1em
18455 \parshape \@ne 1em \tempdima}%
18456 \par\parindent 1em \noindent
18457 \hb@xt@\z@{\hss\@textsuperscript{\normalfont\@thefnmark}\,}##1}
18458 \null\vfil
18459 \vskip 60\p@
18460 \begin{center}%

```



```

18461 {\\LARGE \@title \\par}%
18462 \\vskip 3em%
18463 {\\large
18464   \\lineskip .75em%
18465   \\begin{tabular}[t]{c}%
18466     \\@author
18467     \\end{tabular}\\par}%
18468   \\vskip 1.5em%
18469   {\\large \@date \\par}%           % Set date in \\large size.
18470 \\end{center}\\par
18471 \\@thanks
18472 \\vfil\\null
18473 \\end{titlepage}%
18474 \\setcounter{footnote}{0}%
18475 \\global\\let\\thanks\\relax
18476 \\global\\let\\LTRthanks\\relax
18477 \\global\\let\\RTLthanks\\relax
18478 \\global\\let\\maketitle\\relax
18479 \\global\\let\\@thanks\\@empty
18480 \\global\\let\\@author\\@empty
18481 \\global\\let\\@date\\@empty
18482 \\global\\let\\@title\\@empty
18483 \\global\\let\\title\\relax
18484 \\global\\let\\author\\relax
18485 \\global\\let\\date\\relax
18486 \\global\\let\\and\\relax
18487 }
18488 \\else
18489 \\renewcommand\\maketitle{\\par
18490   \\begingroup
18491     \\renewcommand\\thefootnote{\\@fnsymbol\\c@footnote}%
18492     \\def\\@makefnmark%
18493       {\\rlap{\\@textsuperscript{\\normalfont\\@thefnmark}}}%
18494     \\long\\def\\@makefntext##1{%
18495       \\@setpar{\\@par
18496         \\@tempdima = \\hsize
18497         \\advance\\@tempdima -1em
18498         \\parshape \\@ne 1em \\@tempdima}%
18499       \\par\\parindent 1em \\noindent
18500       \\hb@xt@\\z@{\\hss\\@textsuperscript{\\normalfont\\@thefnmark}\\,}##1}
18501     \\if@twocolumn
18502       \\ifnum \\col@number=\\@ne
18503         \\@maketitle
18504       \\else
18505         \\twocolumn[\\@maketitle]%
18506       \\fi
18507     \\else
18508       \\newpage
18509       \\global\\@topnum\\z@   % Prevents figures from going at top of page.
18510       \\@maketitle
18511     \\fi
18512     \\thispagestyle{empty}\\@thanks
18513   \\endgroup
18514   \\setcounter{footnote}{0}%

```



```

18515 \global\let\thanks\relax
18516 \global\let\LTRthanks\relax
18517 \global\let\RTLthanks\relax
18518 \global\let\maketitle\relax
18519 \global\let\@maketitle\relax
18520 \global\let\@thanks\@empty
18521 \global\let\@author\@empty
18522 \global\let\@date\@empty
18523 \global\let\@title\@empty
18524 \global\let\title\relax
18525 \global\let\author\relax
18526 \global\let\date\relax
18527 \global\let\and\relax
18528 }
18529 \def\@maketitle{%
18530   \newpage
18531   \null
18532   \longthickrule\vskip1.5em%
18533   \let \footnote \thanks
18534   \let \LTRfootnote \LTRthanks
18535   \let \RTLfootnote \RTLthanks
18536   {\secshape \parskip\z@ \parindent\z@
18537   \Large\bfseries \@title \par}%
18538   \vskip1.5em\longthickrule\vskip1.5em%
18539   {\normalsize
18540     \lineskip .5em%
18541     \begin{flushright}%
18542       {\slshape\@author\par}
18543       \vskip 1em%
18544       {\@date}%
18545     \end{flushright}\par}%
18546   \vskip 1.5em}
18547 \fi
18548 \renewcommand*\l@part[2]{%
18549   \ifnum \c@tocdepth >-2\relax
18550     \addpenalty{-\@highpenalty}%
18551     \addvspace{2.25em \@plus\p}%
18552     \begingroup
18553       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
18554       \parfillskip -\@pnumwidth
18555       {\leavevmode
18556         \large \bfseries #1\hfil \hbox to\@pnumwidth{\hss #2}}\par
18557       \nobreak
18558       \global\@nobreaktrue
18559       \everypar{\global\@nobreakfalse\everypar{}}%
18560     \endgroup
18561   \fi}
18562 \renewcommand*\l@chapter[2]{%
18563   \ifnum \c@tocdepth >\m@ne
18564     \addpenalty{-\@highpenalty}%
18565     \vskip 1.0em \@plus\p@
18566     \setlength\@tempdima{1.5em}%
18567     \begingroup
18568     \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth

```



```

18569 \parfillskip -\@pnumwidth
18570 \leavevmode \bfseries
18571 \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
18572 \hskip -\if@RTL\rightskip\else\leftskip\fi
18573 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
18574 \penalty\@highpenalty
18575 \endgroup
18576 \fi}
18577 \renewcommand\secshape{\if@RTL\rightskip\else\leftskip\fi=-\leftmarginwidth%
18578 \if@RTL\leftskip\else\rightskip\fi=\@flushglue%
18579 \hyphenpenalty=2000}
18580 \renewcommand\left@footnoterule{%
18581 \kern-3\p@
18582 \hrule\@width.4\columnwidth
18583 \kern 2.6\p@}
18584 \renewcommand\right@footnoterule{%
18585 \kern-3\p@
18586 \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
18587 \kern2.6\p@}
18588 \renewcommand\theequation
18589 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
18590 \renewcommand\thefigure
18591 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
18592 \renewcommand\thetable%
18593 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
18594 \renewcommand\thesection {\thechapter\@SepMark\@arabic\c@section}
18595 \renewcommand\thesubsection {\thesection\@SepMark\@arabic\c@subsection}
18596 \renewcommand\thesubsubsection {\thesubsection \@SepMark\@arabic\c@subsubsection}
18597 \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
18598 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
18599 \renewenvironment{thebibliography}[1]
18600 {\chapter*{\bibname
18601 \mkboth{\bibname}{\bibname}}%
18602 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
18603 \bidi@thebibliography@font@hook%
18604 \list{\@biblabel{\@arabic\c@enumiv}}%
18605 {\settowidth\labelwidth{\@biblabel{#1}}%
18606 \leftmargin\labelwidth
18607 \advance\leftmargin\labelsep
18608 \@openbib@code
18609 \usecounter{enumiv}%
18610 \let\p@enumiv\@empty
18611 \renewcommand\theenumiv{\@arabic\c@enumiv}}%
18612 \sloppy
18613 \clubpenalty4000
18614 \@clubpenalty \clubpenalty
18615 \widowpenalty4000%
18616 \sfcode`\.\=@m}
18617 {\def\@noitemerr
18618 {\@latex@warning{Empty `thebibliography' environment}}}%
18619 \endlist}

```

## 130 File report-xetex-bidi.def



```

18620 \ProvidesFile{report-xetex-bidi.def}[2017/06/09 v0.8 bidi adaptations for standard report cl
18621 \renewenvironment{theindex}
18622     {\if@twocolumn
18623       \@restonecolfalse
18624       \else
18625       \@restonecoltrue
18626       \fi
18627       \columnseprule \z@
18628       \columnsep 35\p@
18629       \twocolumn[\@makeschapterhead{\indexname}]}%
18630       \@mkboth{\MakeUppercase\indexname}%
18631       {\MakeUppercase\indexname}%
18632       \thispagestyle{plain}\parindent\z@
18633       \parskip\z@ \@plus .3\p@\relax
18634       \let\item\@idxitem}
18635     {\if@restonecol\onecolumn\else\clearpage\fi}
18636 \if@titlepage
18637 \renewcommand\maketitle{\begin{titlepage}%
18638 \let\footnotesize\small
18639 \let\right@footnoterule\relax
18640 \let\left@footnoterule\relax
18641 \let\textwidth\footnoterule\relax
18642 \let \footnote \thanks
18643 \let \LTRfootnote \LTRthanks
18644 \let \RTLfootnote \RTLthanks
18645 \null\vfil
18646 \vskip 60\p@
18647 \begin{center}%
18648   {\LARGE \@title \par}%
18649   \vskip 3em%
18650   {\large
18651     \lineskip .75em%
18652     \begin{tabular}[t]{c}%
18653       \@author
18654       \end{tabular}\par}%
18655     \vskip 1.5em%
18656     {\large \@date \par}%           % Set date in \large size.
18657 \end{center}\par
18658 \@thanks
18659 \vfil\null
18660 \end{titlepage}%
18661 \setcounter{footnote}{0}%
18662 \global\let\thanks\relax
18663 \global\let\LTRthanks\relax
18664 \global\let\RTLthanks\relax
18665 \global\let\maketitle\relax
18666 \global\let\@thanks\@empty
18667 \global\let\@author\@empty
18668 \global\let\@date\@empty
18669 \global\let\@title\@empty
18670 \global\let\title\relax
18671 \global\let\author\relax
18672 \global\let\date\relax
18673 \global\let\and\relax

```



```

18674 }
18675 \else
18676 \renewcommand\maketitle{\par
18677   \begin{group}
18678     \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
18679     \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
18680     \long\def\@makefntext##1{\parindent 1em\noindent
18681       \hb@xt@1.8em{%
18682         \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
18683     \if@twocolumn
18684       \ifnum \col@number=\@ne
18685         \@maketitle
18686       \else
18687         \twocolumn[\@maketitle]%
18688       \fi
18689     \else
18690       \newpage
18691       \global\@topnum\z@ % Prevents figures from going at top of page.
18692       \@maketitle
18693     \fi
18694     \thispagestyle{plain}\@thanks
18695   \end{group}
18696   \setcounter{footnote}{0}%
18697   \global\let\thanks\relax
18698   \global\let\LTRthanks\relax
18699   \global\let\RTLthanks\relax
18700   \global\let\maketitle\relax
18701   \global\let\@maketitle\relax
18702   \global\let\@thanks\@empty
18703   \global\let\@author\@empty
18704   \global\let\@date\@empty
18705   \global\let\@title\@empty
18706   \global\let\title\relax
18707   \global\let\author\relax
18708   \global\let\date\relax
18709   \global\let\and\relax
18710 }
18711 \def\@maketitle{%
18712   \newpage
18713   \null
18714   \vskip 2em%
18715   \begin{center}%
18716     \let \footnote \thanks
18717     \let \LTRfootnote \LTRthanks
18718     \let \RTLfootnote \RTLthanks
18719     {\LARGE \@title \par}%
18720     \vskip 1.5em%
18721     {\large
18722       \lineskip .5em%
18723       \begin{tabular}[t]{c}%
18724         \@author
18725       \end{tabular}\par}%
18726     \vskip 1em%
18727     {\large \@date}%

```



```

18728 \end{center}%
18729 \par
18730 \vskip 1.5em}
18731 \fi
18732 \renewcommand*\l@part[2]{%
18733 \ifnum \c@tocdepth >-2\relax
18734 \addpenalty{-\@highpenalty}%
18735 \addvspace{2.25em \@plus\p@}%
18736 \setlength\@tempdima{3em}%
18737 \begingroup
18738 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
18739 \parfillskip -\@pnumwidth
18740 {\leavevmode
18741 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
18742 \nobreak
18743 \global\@nobreaktrue
18744 \everypar{\global\@nobreakfalse\everypar{}}%
18745 \endgroup
18746 \fi}
18747 \renewcommand*\l@chapter[2]{%
18748 \ifnum \c@tocdepth >\m@ne
18749 \addpenalty{-\@highpenalty}%
18750 \vskip 1.0em \@plus\p@
18751 \setlength\@tempdima{1.5em}%
18752 \begingroup
18753 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
18754 \parfillskip -\@pnumwidth
18755 \leavevmode \bfseries
18756 \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
18757 \hskip -\if@RTL\rightskip\else\leftskip\fi
18758 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
18759 \penalty\@highpenalty
18760 \endgroup
18761 \fi}
18762 \renewcommand\left@footnoterule{%
18763 \kern-3\p@
18764 \hrule\@width.4\columnwidth
18765 \kern2.6\p@}
18766 \renewcommand\right@footnoterule{%
18767 \kern-3\p@
18768 \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
18769 \kern2.6\p@}
18770 \renewcommand\theequation
18771 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
18772 \renewcommand \thefigure
18773 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
18774 \renewcommand \thetable
18775 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
18776 \renewcommand \thechapter {\@arabic\c@chapter}
18777 \renewcommand \thesection {\thechapter\@SepMark\@arabic\c@section}
18778 \renewcommand \thesubsection {\thesection\@SepMark\@arabic\c@subsection}
18779 \renewcommand \thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
18780 \renewcommand \theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
18781 \renewcommand \thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}

```



```

18782 \def\@makechapterhead#1{%
18783   \vspace*{50\p@}%
18784   {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont
18785     \ifnum \c@secnumdepth >\m@ne
18786       \huge\bfseries \@chapapp\space \thechapter
18787       \par\nobreak
18788       \vskip 20\p@
18789     \fi
18790     \interlinepenalty\@M
18791     \Huge \bfseries #1\par\nobreak
18792     \vskip 40\p@
18793   }}
18794 \def\@makeschapterhead#1{%
18795   \vspace*{50\p@}%
18796   {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
18797     \normalfont
18798     \interlinepenalty\@M
18799     \Huge \bfseries #1\par\nobreak
18800     \vskip 40\p@
18801   }}
18802 \renewenvironment{thebibliography}[1]
18803   {\chapter*{\bibname}%
18804     \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
18805     \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
18806     \bidi@thebibliography@font@hook%
18807     \list{\@biblabel{\@arabic\c@enumiv}}%
18808       {\settowidth\labelwidth{\@biblabel{#1}}%
18809         \leftmargin\labelwidth
18810         \advance\leftmargin\labelsep
18811         \@openbib@code
18812         \usecounter{enumiv}%
18813         \let\p@enumiv\@empty
18814         \renewcommand\theenumiv{\@arabic\c@enumiv}}%
18815     \sloppy
18816     \clubpenalty4000
18817     \@clubpenalty \clubpenalty
18818     \widowpenalty4000%
18819     \sfcode\.\@m}
18820 {\def\@noitemerr
18821   {\@latex@warning{Empty `thebibliography' environment}}}%
18822 \endlist}

```

## 131 File rotating-xetex-bidi.def

```

18823 \ProvidesFile{rotating-xetex-bidi.def}[2013/05/22 v0.2 bidi adaptations for rotating package]
18824 \def\end@rotfloat{%
18825   \end{minipage}\end{lrbox}%
18826   \stepcounter{r@tfl@t}%
18827   \rot@label{RF\ther@tfl@t}%
18828   \rot@pageref{RF\ther@tfl@t}{\R@page}%
18829   \edef\@tempa{Adding sideways \c@type\space on page \R@page\space}
18830   \rot@mess@toks\expandafter{\@tempa}
18831   \wd\rot@float@box\z@
18832   \ht\rot@float@box\z@

```





```

18833 \dp\rot@float@box\z@
18834 \vboxL to \textheight{%
18835 \setkeys{Grot}{units=360}%
18836 \if@rot@twoside
18837 \else
18838 \let\R@@page\rot@LR
18839 \fi
18840 \ifthenelse{\isodd{\R@@page}}{%
18841 \if@rot@twoside
18842 \rot@mess@toks\expandafter{\the\rot@mess@toks (right hand page)}%
18843 \fi
18844 \vfill
18845 \@@line{%
18846 \hskip\rotFPtop
18847 \rotatebox{90}{\box\rot@float@box}%
18848 \hskip\rotFPbot
18849 }%
18850 }{%
18851 \if@rot@twoside
18852 \rot@mess@toks\expandafter{\the\rot@mess@toks (left hand page)}%
18853 \fi
18854 \@@line{%
18855 \hskip\rotFPbot
18856 \rotatebox{-90}{\box\rot@float@box}%
18857 \hskip\rotFPtop
18858 }%
18859 \vfill
18860 }%
18861 \rot@message{\the\rot@mess@toks}
18862 }%
18863 \end@float
18864 }
18865 \let\endsidewaysfigure\end@rotfloat
18866 \let\endsidewaysstable\end@rotfloat
18867 \def\end@rotdblfloat{%
18868 \end{minipage}\end{lrbox}%
18869 \stepcounter{r@tfl@t}%
18870 \rot@label{RF\ther@tfl@t}%
18871 \rot@pageref{RF\ther@tfl@t}{\R@@page}%
18872 \edef\@tempa{Adding sideways \capttype\space on page \R@@page\space}
18873 \rot@mess@toks\expandafter{\@tempa}
18874 \@tempdima\ht\rot@float@box
18875 \advance\@tempdima by \dp\rot@float@box
18876 \wd\rot@float@box\z@
18877 \ht\rot@float@box\z@
18878 \dp\rot@float@box\z@
18879 \vboxL to \textheight{%
18880 \setkeys{Grot}{units=360}%
18881 \if@rot@twoside
18882 \else
18883 \let\R@@page\rot@LR
18884 \fi
18885 \ifthenelse{\isodd{\R@@page}}{%
18886 \ifrot@messages

```



```

18887         \if@rot@twoside
18888 \rot@mess@toks\expandafter{\the\rot@mess@toks (right hand page)}%
18889 \fi
18890         \fi
18891         \vfill
18892         \@@line{%
18893             \hskip\rotFPtop
18894             \rotatebox{90}{\box\rot@float@box}%
18895             \hskip\rotFPbot
18896         }%
18897     }{%
18898         \ifrot@messages
18899         \if@rot@twoside
18900 \rot@mess@toks\expandafter{\the\rot@mess@toks (left hand page)}%
18901 \fi
18902         \fi%
18903         \@@line{%
18904             \hskip\rotFPbot
18905             \rotatebox{-90}{\box\rot@float@box}%
18906             \hskip\rotFPtop
18907         }%
18908         \vfill
18909     }%
18910     \rot@message{\the\rot@mess@toks}%
18911 }%
18912 \end@dblfloat
18913 }
18914 \def\turn#1{%
18915     \Grot@setangle{#1}%
18916     \setbox\z@\color@hbox\ifmmode\if@RTL\beginR\fi\else\if@RTL\beginR\fi\fi\ignorespaces}
18917 \def\endturn{%
18918     \ifmmode\if@RTL\endR\fi\else\if@RTL\endR\fi\fi
18919     \unskip\color@endbox
18920     \Grot@x\z@
18921     \Grot@y\z@
18922     \ifmmode\else\if@RTL\beginL\fi\fi\Grot@box\ifmmode\else\if@RTL\endL\fi\fi
18923 }
18924 \def\rotate#1{%
18925     \Grot@setangle{#1}%
18926     \setbox\z@\color@hbox\ifmmode\if@RTL\beginR\fi\else\if@RTL\beginR\fi\fi\ignorespaces}
18927 \def\endrotate{%
18928     \ifmmode\if@RTL\endR\fi\else\if@RTL\endR\fi\fi
18929     \unskip\color@endbox
18930     \Grot@x\z@
18931     \Grot@y\z@
18932     \wd0\z@\dp0\z@\ht0\z@
18933     \ifmmode\else\if@RTL\beginL\fi\fi\Grot@box\ifmmode\else\if@RTL\endL\fi\fi
18934 }
18935 \def\turnbox#1#2{%
18936     \Grot@setangle{#1}%
18937     \setbox\z@\hbox{\ifmmode\if@RTL\beginR\fi\else\if@RTL\beginR\fi\fi#2\ifmmode\if@RTL\endR\fi\fi}
18938     \Grot@x\z@\Grot@y\z@
18939     \wd0\z@\dp0\z@\ht0\z@
18940     \ifmmode\else\if@RTL\beginL\fi\fi\Grot@box\ifmmode\else\if@RTL\endL\fi\fi

```



```

18941 }
18942 \def\sideways{%
18943   \Grot@setangle{90}%
18944   \setbox\z@\color@hbox\ifmmode\if@RTL\beginR\fi\else\if@RTL\beginR\fi\fi\ignorespaces}
18945 \def\endsideways{%
18946   \ifmmode\if@RTL\endR\fi\else\if@RTL\endR\fi\fi
18947   \unskip\color@endbox
18948   \Grot@x\z@
18949   \Grot@y\z@
18950   \ifmmode\else\if@RTL\beginL\fi\fi\Grot@box\ifmmode\else\if@RTL\endL\fi\fi
18951 }

```

## 132 File scrartcl-xetex-bidi.def

```

18952 \ProvidesFile{scrartcl-xetex-bidi.def}[2022/05/27 v1.3 bidi adaptations for scrartcl class f
18953 \newcommand{\scr@saved@LTRfootnotetext}{}
18954 \newcommand{\scr@saved@RTLfootnotetext}{}
18955 \let\scr@saved@footnotetext\@footnotetext
18956 \let\scr@saved@LTRfootnotetext\@LTRfootnotetext
18957 \let\scr@saved@RTLfootnotetext\@RTLfootnotetext
18958 \renewcommand{\@footnotetext}[1]{%
18959   \scr@saved@footnotetext{#1}%
18960   \csname FN@mfb@prepare\endcsname
18961 }
18962 \renewcommand{\@LTRfootnotetext}[1]{%
18963   \scr@saved@LTRfootnotetext{#1}%
18964   \csname FN@mfb@prepare\endcsname
18965 }
18966 \renewcommand{\@RTLfootnotetext}[1]{%
18967   \scr@saved@RTLfootnotetext{#1}%
18968   \csname FN@mfb@prepare\endcsname
18969 }
18970 \renewcommand\deffootnote[4][1]{%
18971   \expandafter\ifnum\scr@v@is@ge{3.22}\relax
18972     \long\def\@makefntext##1{%
18973       \ExecuteDoHook{footnote/text/begin}%
18974       \raggedfootnote
18975       \if@RTL
18976         \rightskip
18977       \else
18978         \leftskip
18979       \fi
18980       #2
18981       \l@addto@macro\@trivlist{%
18982         \ifnum\@listdepth=\@ne
18983           \if@RTL
18984             \advance\rightmargin #2\relax
18985           \else
18986             \advance\leftmargin #2\relax
18987           \fi
18988         \fi
18989       }%
18990       \parindent #3\noindent
18991       \IfArgIsEmpty{#1}{}{}%

```



```

18992      \hskip \dimexpr #1-#2\relax
18993    }%
18994    \ftn@font\hbox to \z@{\hss\@makefnmark}##1%
18995    \ExecuteDoHook{footnote/text/end}%
18996  }%
18997  \else
18998    \ClassInfo{\KOMAClassName}{%
18999      Using old \string\@makefntext\space due to compatibility
19000      level\MessageBreak
19001      less than 3.22}%
19002    \long\def\@makefntext##1{%
19003      \setlength{\@tempdimc}{#3}%
19004      \def\@tempa{#1}\ifx\@tempa\@empty
19005        \@setpar{\@par
19006          \@tempdima = \hspace
19007          \addtolength{\@tempdima}{-#2}%
19008          \if@RTL
19009            \parshape \@ne \z@ \@tempdima
19010          \else
19011            \parshape \@ne #2 \@tempdima
19012          \fi}%
19013        \else
19014          \addtolength{\@tempdimc}{#2}%
19015          \addtolength{\@tempdimc}{-#1}%
19016          \@setpar{\@par
19017            \@tempdima = \hspace
19018            \addtolength{\@tempdima}{-#1}%
19019            \@tempdimb = \hspace
19020            \addtolength{\@tempdimb}{-#2}%
19021            \if@RTL
19022              \parshape \tw@ \z@ \@tempdima \z@ \@tempdimb
19023            \else
19024              \parshape \tw@ #1 \@tempdima #2 \@tempdimb
19025            \fi
19026          }%
19027          \fi
19028        \par
19029        \parindent\@tempdimc\noindent
19030        \ftn@font\hbox to \z@{\hss\@makefnmark}##1%
19031      }%
19032    \fi
19033    \def\@makefnmark{\hbox{\ftn@font{#4}}}%
19034  }
19035  \deffootnote[1em]{1.5em}{1em}{\textsuperscript{\thefootnotemark}}
19036  \renewcommand*\left@footnoterule{%
19037    \normalsize\ftn@rule@test@values
19038    \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
19039    \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
19040    {\usekomafont{footnoterule}{%
19041      \hrule \@height\ftn@rule@height \@width\ftn@rule@width}}%
19042    \kern 2.6\p@}
19043  \renewcommand*\right@footnoterule{%
19044    \normalsize\ftn@rule@test@values
19045    \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax

```



```

19046 \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
19047 {\usekomafont{footnoterule}{%
19048 \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\ftn@rule@width\relax \leavevmode\l
19049 \kern 2.6\p@}}
19050 \renewcommand*\maketitle[1][1]{%
19051 \expandafter\ifnum \csname scr@v@3.12\endcsname>\scr@compatibility\relax
19052 \else
19053 \def\and{%
19054 \end{tabular}%
19055 \hskip 1em \@plus.17fil%
19056 \begin{tabular}[t]{c}%
19057 }%
19058 \fi
19059 \if@titlepage
19060 \begin{titlepage}
19061 \setcounter{page}{%
19062 #1%
19063 }%
19064 \if@titlepageiscoverpage
19065 \edef\titlename@restore{%
19066 \noexpand\endgroup
19067 \noexpand\global\noexpand\@colht\the\@colht
19068 \noexpand\global\noexpand\@colroom\the\@colroom
19069 \noexpand\global\vsizethe\vsizethe
19070 \noexpand\global\noexpand\@titlepageiscoverpagefalse
19071 \noexpand\let\noexpand\titlename@restore\noexpand\relax
19072 }%
19073 \begingroup
19074 \topmargin=\dimexpr \coverpagetopmargin-1in\relax
19075 \oddsidemargin=\dimexpr \coverpageleftmargin-1in\relax
19076 \evensidemargin=\dimexpr \coverpageleftmargin-1in\relax
19077 \textwidth=\dimexpr
19078 \paperwidth-\coverpageleftmargin-\coverpagerightmargin\relax
19079 \textheight=\dimexpr
19080 \paperheight-\coverpagetopmargin-\coverpagebottommargin\relax
19081 \headheight=0pt
19082 \headsep=0pt
19083 \footskip=\baselineskip
19084 \@colht=\textheight
19085 \@colroom=\textheight
19086 \vsizethe\textheight
19087 \columnwidth=\textwidth
19088 \hsizethe\columnwidth
19089 \linewidth=\hsizethe
19090 \else
19091 \let\titlename@restore\relax
19092 \fi
19093 \let\footnotesize\small
19094 \let\right@footnoterule\relax
19095 \let\left@footnoterule\relax
19096 \let\textwidth@footnoterule\relax
19097 \let\footnote\thanks
19098 \let\LTRfootnote\LTRthanks
19099 \let\RTLfootnote\RTLthanks

```



```

19100 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
19101 \let\@oldmakefnmark\@makefnmark
19102 \renewcommand*{\@makefnmark}{\rlap{\@oldmakefnmark}}%
19103 \ifx\@extratitle\@empty
19104 \ifx\@frontispiece\@empty
19105 \else
19106 \if@twoside\mbox{}\next@tpage\fi
19107 \noindent\@frontispiece\next@tdpage
19108 \fi
19109 \else
19110 \noindent\@extratitle
19111 \ifx\@frontispiece\@empty
19112 \else
19113 \next@tpage
19114 \noindent\@frontispiece
19115 \fi
19116 \next@tdpage
19117 \fi
19118 \setparsizes{\z@}{\z@}{\z@ \@plus 1fil}\par@updateerelative
19119 \ifx\@titlehead\@empty \else
19120 \begin{minipage}[t]{\textwidth}%
19121 \usekomafont{titlehead}{\@titlehead\par}%
19122 \end{minipage}\par
19123 \fi
19124 \null\vfill
19125 \begin{center}
19126 \ifx\@subject\@empty \else
19127 {\usekomafont{subject}{\@subject\par}}%
19128 \vskip 3em
19129 \fi
19130 {\usekomafont{title}{\huge \@title\par}}%
19131 \vskip 1em
19132 {\ifx\@subtitle\@empty\else\usekomafont{subtitle}{\@subtitle\par}\fi}%
19133 \vskip 2em
19134 {%
19135 \usekomafont{author}{%
19136 \lineskip 0.75em
19137 \begin{tabular}[t]{c}
19138 \@author
19139 \end{tabular}\par
19140 }%
19141 }%
19142 \vskip 1.5em
19143 {\usekomafont{date}{\@date \par}}%
19144 \vskip \z@ \@plus3fill
19145 {\usekomafont{publishers}{\@publishers \par}}%
19146 \vskip 3em
19147 \end{center}\par
19148 \@thanks\global\let\@thanks\@empty
19149 \vfill\null
19150 \if@twoside
19151 \@tempwattrue
19152 \expandafter\ifnum \@nameuse{scr@v@3.12}>\scr@compatibility\relax
19153 \else

```



```

19154         \ifx\@uppertitleback\@empty\ifx\@lowertitleback\@empty
19155             \@tempwafalse
19156         \fi\fi
19157     \fi
19158     \if@tempswa
19159         \next@tpage
19160         \begin{minipage}[t]{\textwidth}
19161             \@uppertitleback
19162         \end{minipage}\par
19163         \vfill
19164         \begin{minipage}[b]{\textwidth}
19165             \@lowertitleback
19166         \end{minipage}\par
19167         \@thanks\global\let\@thanks\@empty
19168     \fi
19169 \else
19170     \ifx\@uppertitleback\@empty\else
19171         \ClassWarning{\KOMAClassName}{%
19172             non empty \string\uppertitleback\space ignored
19173             by \string\maketitle\MessageBreak
19174             in `twoside=false' mode%
19175         }%
19176     \fi
19177     \ifx\@lowertitleback\@empty\else
19178         \ClassWarning{\KOMAClassName}{%
19179             non empty \string\lowertitleback\space ignored
19180             by \string\maketitle\MessageBreak
19181             in `twoside=false' mode%
19182         }%
19183     \fi
19184 \fi
19185 \ifx\@dedication\@empty
19186 \else
19187     \next@tdpage\null\vfill
19188     {\centering\usekomafont{dedication}{\@dedication \par}}%
19189     \vskip \z@ \@plus3fill
19190     \@thanks\global\let\@thanks\@empty
19191     \cleardoubleemptypage
19192 \fi
19193 \ifx\titlepage@restore\relax\else\clearpage\titlepage@restore\fi
19194 \end{titlepage}
19195 \else
19196     \par
19197     \@tempcnta=%
19198     #1%
19199     \relax\ifnum\@tempcnta=1\else
19200         \ClassWarning{\KOMAClassName}{%
19201             Optional argument of \string\maketitle\space ignored\MessageBreak
19202             in `titlepage=false' mode%
19203         }%
19204     \fi
19205     \ifx\@uppertitleback\@empty\else
19206         \ClassWarning{\KOMAClassName}{%
19207             non empty \string\uppertitleback\space ignored

```



```

19208         by \string\maketitle\MessageBreak
19209         in `titlepage=false' mode%
19210     }%
19211 \fi
19212 \ifx\@lowertitleback\@empty\else
19213     \ClassWarning{\KOMAClassName}{%
19214         non empty \string\lowertitleback\space ignored
19215         by \string\maketitle\MessageBreak
19216         in `titlepage=false' mode%
19217     }%
19218 \fi
19219 \begingroup
19220     \let\titlepage@restore\relax
19221     \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
19222     \let\@oldmakefnmark\@makefnmark
19223     \renewcommand*{\@makefnmark}{\rlap\@oldmakefnmark}%
19224     \next@tdpage
19225     \if@twocolumn
19226         \ifnum \col@number=\@one
19227             \ifx\@extratitle\@empty
19228                 \ifx\@frontispiece\@empty\else\if@twoside\mbox{}\fi\fi
19229             \else
19230                 \@makeextratitle
19231             \fi
19232             \ifx\@frontispiece\@empty
19233                 \ifx\@extratitle\@empty\else\next@tdpage\fi
19234             \else
19235                 \next@tpage
19236                 \@makefrontispiece
19237                 \next@tdpage
19238             \fi
19239             \@maketitle
19240         \else
19241             \ifx\@extratitle\@empty
19242                 \ifx\@frontispiece\@empty\else\if@twoside\mbox{}\fi\fi
19243             \else
19244                 \twocolumn[\@makeextratitle]%
19245             \fi
19246             \ifx\@frontispiece\@empty
19247                 \ifx\@extratitle\@empty\else\next@tdpage\fi
19248             \else
19249                 \next@tpage
19250                 \twocolumn[\@makefrontispiece]%
19251                 \next@tdpage
19252             \fi
19253             \twocolumn[\@maketitle]%
19254         \fi
19255     \else
19256         \ifx\@extratitle\@empty
19257             \ifx\@frontispiece\@empty\else \mbox{}\fi
19258         \else
19259             \@makeextratitle
19260         \fi
19261         \ifx\@frontispiece\@empty

```





```

19262         \ifx\@extratitle\@empty\else\next@tdpage\fi
19263     \else
19264         \next@tpage
19265         \@makefrontispiece
19266         \next@tdpage
19267     \fi
19268     \@maketitle
19269 \fi
19270     \ifx\titlepagestyle\@empty\else\thispagestyle{\titlepagestyle}\fi
19271     \@thanks\global\let\@thanks\@empty
19272 \endgroup
19273 \fi
19274 \setcounter{footnote}{0}%
19275 \expandafter\ifnum \csname scr@v@3.12\endcsname>\scr@compatibility\relax
19276     \let\thanks\relax
19277     \let\LTRthanks\relax
19278     \let\RTLthanks\relax
19279     \let\maketitle\relax
19280     \let\@maketitle\relax
19281     \global\let\@thanks\@empty
19282     \global\let\@author\@empty
19283     \global\let\@date\@empty
19284     \global\let\@title\@empty
19285     \global\let\@subtitle\@empty
19286     \global\let\@extratitle\@empty
19287     \global\let\@frontispiece\@empty
19288     \global\let\@titlehead\@empty
19289     \global\let\@subject\@empty
19290     \global\let\@publishers\@empty
19291     \global\let\@uppertitleback\@empty
19292     \global\let\@lowertitleback\@empty
19293     \global\let\@dedication\@empty
19294     \global\let\author\relax
19295     \global\let\title\relax
19296     \global\let\extratitle\relax
19297     \global\let\titlehead\relax
19298     \global\let\subject\relax
19299     \global\let\publishers\relax
19300     \global\let\uppertitleback\relax
19301     \global\let\lowertitleback\relax
19302     \global\let\dedication\relax
19303     \global\let\date\relax
19304 \fi
19305 \global\let\and\relax
19306 }%
19307 \def\raggedsection{\if@RTL\raggedleft\else\raggedright\fi}
19308 \def\raggedpart{\if@RTL\raggedleft\else\raggedright\fi}
19309 \renewcommand*\autodot{\if@altsecnumformat\@SepMark\fi}
19310 \renewcommand*{\thesubsection}{\thesection\@SepMark\@arabic\c@section}
19311 \renewcommand*{\thesubsubsection}{%
19312     \thesubsection\@SepMark\@arabic\c@subsubsection
19313 }
19314 \renewcommand*{\theparagraph}{\thesubsubsection\@SepMark\@arabic\c@paragraph}
19315 \renewcommand*{\thesubparagraph}{%

```



```

19316 \theparagraph\@SepMark\@arabic\c@subparagraph
19317 }
19318 \renewenvironment{thebibliography}[1]{%
19319 \if@bib@break@
19320 \bib@beginhook
19321 \else
19322 \bib@heading
19323 \ifx\bibpreamble\relax\else\ifx\bibpreamble\@empty\else
19324 \noindent\bibpreamble\par\nobreak
19325 \fi\fi
19326 \bib@beginhook
19327 \bib@before@hook
19328 \fi
19329 \renewcommand{\BreakBibliography}[1]{%
19330 \@bib@break
19331 \end{thebibliography}%
19332 \begingroup ##1\endgroup
19333 \begin{thebibliography}{#1}
19334 }%
19335 \ifRTL\ifLTRbibitems\@RTLfalse\else\fi\else\ifRTLbibitems\@RTLtrue\else\fi\fi
19336 \bidi@thebibliography@font@hook%
19337 \list{%
19338 \@biblabel{\@arabic\c@enumiv}%
19339 }{%
19340 \settowidth\labelwidth{\@biblabel{#1}}%
19341 \leftmargin\labelwidth
19342 \advance\leftmargin\labelsep
19343 \@openbib@code
19344 \if@bib@break@
19345 \edef\@tempa{%
19346 \noexpand\usecounter{enumiv}%
19347 \noexpand\setcounter{enumiv}{\the\c@enumiv}%
19348 }\@tempa
19349 \no@bib@break
19350 \else
19351 \usecounter{enumiv}%
19352 \fi
19353 \let\p@enumiv\@empty
19354 \renewcommand*\theenumiv{\@arabic\c@enumiv}%
19355 }%
19356 \sloppy\clubpenalty4000 \widowpenalty4000
19357 \sfcode`\.=\@m
19358 }{%
19359 \if@bib@break@
19360 \def\@noitemerr{%
19361 \@latex@warning{%
19362 \string\BreakBibliography\space at begin of `thebibliography'
19363 environment\MessageBreak
19364 or following \string\BreakBibliography}%
19365 }%
19366 \else
19367 \def\@noitemerr{%
19368 \@latex@warning{%
19369 Empty `thebibliography' environment or

```



```

19370         \string\BreakBibliography\MessageBreak
19371         before end of `thebibliography' environment}%
19372     }%
19373 \fi
19374 \endlist
19375 \if@bib@break@
19376 \else
19377     \bib@after@hook
19378     \let\bib@before@hook\@empty
19379     \let\bib@after@hook\@empty
19380 \fi
19381 \bib@endhook
19382 }
19383 \renewcommand*{\raggeddictum}{\if@RTL\raggedright\else\raggedleft\fi}
19384 \renewcommand*{\raggeddictumtext}{\if@RTL\raggedleft\else\raggedright\fi}
19385 \renewcommand*{\raggeddictumauthor}{\if@RTL\raggedright\else\raggedleft\fi}
19386 \renewcommand\marginline[1]{%
19387     \marginpar[\if@RTL\raggedright\else\raggedleft\fi{#1}]{\if@RTL\raggedleft\else\raggedright\fi{#1}}
19388 }
19389 \renewcommand{\@@makecaption}[3]{%
19390     \cap@margin
19391     \begingroup
19392     \ifonelinecaptions
19393         \def\stepcounter##1{\advance\value{##1}\@ne}%
19394         \let\refstepcounter\stepcounter
19395         \let\label\@gobble
19396         \let\@footnotetext=\@gobble
19397         \let\@LTRfootnotetext=\@gobble
19398         \let\@RTLfootnotetext=\@gobble
19399         \let\hypertarget\@gobbletwo
19400         \edef\xnewline{%
19401             \unexpanded{\ClassInfo{\KOMAClassName}}{%
19402                 Workaround for not recommended usage of \string\\ or\MessageBreak
19403                 \string\newline in caption text
19404             }%
19405             \hspace*{\linewidth}\hspace{1sp}%
19406             }%
19407             \unexpanded\expandafter{\@xnewline}%
19408         }%
19409         \edef@xcentercr{%
19410             \unexpanded{\ClassInfo{\KOMAClassName}}{%
19411                 Workaround for not recommended usage of \string\\ or\MessageBreak
19412                 \string\newline in caption text
19413             }%
19414             \hspace*{\linewidth}\hspace{1sp}%
19415             }%
19416             \unexpanded\expandafter{\@xcentercr}%
19417         }%
19418         \settowidth{\@tempdima}{\scr@makesinglelinecaption{#1}{#2}{#3}}%
19419         \ifdim\@tempdima>\cap@width
19420             \aftergroup\scr@makemultilinecaption
19421         \else
19422             \aftergroup\scr@makesinglelinecaption
19423         \fi

```



```

19424     \else
19425         \aftergroup\scr@makemultilinecaption
19426     \fi
19427 \endgroup
19428 {#1}{#2}{#3}%
19429 }
19430 \renewcommand{\scr@makesinglelinecaption}[3]{%
19431     {%
19432         \usefontofkomafont{caption}{%
19433             \hb@xt@ \hsize{%
19434                 \cap@left
19435                 \if@RTL
19436                     \beginR
19437                     \fi
19438                 \scr@@makesinglelinecaption{#1}{#2}{#3}%
19439                 \if@RTL
19440                     \endR
19441                 \fi
19442                 \cap@right
19443             }\par\kern\dp\strutbox%
19444         }%
19445     }\kern-\dp\strutbox
19446 }
19447 \renewcommand{\@makecaption}[2]{%
19448     \if@captionabove
19449         \vskip\belowcaptionskip
19450     \else
19451         \vskip\abovecaptionskip
19452     \fi
19453     \@makecaption\@firstofone{#1}{#2}%
19454     \if@captionabove
19455         \vskip\abovecaptionskip
19456     \else
19457         \vskip\belowcaptionskip
19458     \fi
19459 }
19460
19461 \renewcommand{\scr@@makesinglelinecaption}[3]{%
19462     {\usekomafont{caption}{\strut\ignorespaces
19463         #1{\usekomafont{captionlabel}{#2\captionformat}}}%
19464         \ignorespaces #3\unskip}}%
19465 }
19466
19467 \renewcommand{\scr@makemultilinecaption}[3]{%
19468     {%
19469         \usefontofkomafont{caption}{%
19470             \hb@xt@ \hsize{%
19471                 \cap@left
19472                 \vbox{\hsize\cap@width\linewidth\hsize
19473                     \scr@ifundefinedorrelax{@captype}{%
19474                         \ClassWarning{\KOMAClassName}{%
19475                             `string\caption' outside float.\MessageBreak
19476                             Seems you are using `string\caption' outside a
19477                             float.\MessageBreak

```



```

19478      Maybe you are using a package that uses
19479      `\\string\\@makecaption'\\MessageBreak
19480      without setting `\\string\\@captype' before.\\MessageBreak
19481      Because I cannot detect the caption type, I'm using\\MessageBreak
19482      the empty one.%
19483  }%
19484  \\let\\@captype\\@empty
19485  }{}%
19486  \\scr@ifundefinedorrelax{ragged\\@captype caption}{\\raggedcaption}{%
19487    \\@nameuse{ragged\\@captype caption}%
19488  }%
19489  \\ifdofullc@p
19490    \\@hangfrom{%
19491      \\strut
19492      \\scr@smashdp{%
19493        #1{%
19494          \\usekomafont{caption}{%
19495            \\usekomafont{captionlabel}{#2\\captionformat}%
19496          }%
19497        }%
19498      }%
19499    }%
19500    {{\\usekomafont{caption}{#3\\scr@endstrut}}\\par}%
19501  \\else
19502    \\ifdim\\cap@indent<\\z@
19503      \\strut
19504      #1{%
19505        {\\usekomafont{caption}{%
19506          \\usekomafont{captionlabel}{#2\\captionformat}%
19507        }%
19508      }\\par}%
19509      \\noindent{{\\usekomafont{caption}{%
19510        \\hspace*{-\\cap@indent}#3\\scr@endstrut
19511      }}\\par}%
19512    \\else
19513      \\if@capbreak
19514        \\strut
19515        #1{%
19516          {\\usekomafont{caption}{%
19517            \\usekomafont{captionlabel}{#2\\captionformat}%
19518          }%
19519        }\\par}%
19520        \\noindent\\@hangfrom{\\hspace*{\\cap@indent}}%
19521        {{\\usekomafont{caption}{#3\\scr@endstrut}}\\par}%
19522      \\else
19523        \\@hangfrom{\\scr@smashdp\\strut\\hspace*{\\cap@indent}}%
19524        {%
19525          \\hspace{-\\cap@indent}%
19526          \\scr@smashdp{%
19527            #1{\\usekomafont{caption}{%
19528              \\usekomafont{captionlabel}{#2\\captionformat}%
19529            }%
19530          }%
19531        }%

```



```

19532         {{\usekomafont{caption}{#3\scr@endstrut}}\par}%
19533     }%
19534     \fi
19535     \fi
19536     \fi
19537 }%
19538 \cap@right
19539 }\par\kern\dp\strutbox
19540 }%
19541 }\kern-\dp\strutbox
19542 }
19543
19544 \bidi@AfterFile{longtable-xetex-bidi.def}{%
19545   \if@komalongtable
19546     \renewcommand{\LT@makecaption}[3]{%
19547       \noalign{%
19548         \if@captionabove
19549           \vskip\belowcaptionskip
19550         \else
19551           \vskip\abovecaptionskip
19552         \fi
19553       }%
19554       \LT@mc\LT@cols c{%
19555         \hbox to\z@{\hss\parbox[t]{\linewidth{%
19556           \def\@capytype{table}%
19557           \@@makecaption{#1}{#2}{#3}%
19558           \endgraf
19559           \if@captionabove
19560             \vskip\abovecaptionskip
19561           \else
19562             \vskip\belowcaptionskip
19563           \fi
19564         }%
19565         \hss
19566       }%
19567     }%
19568   }%
19569   \renewcommand*{\scr@LT@array}{}%
19570   \let\scr@LT@array=\LT@array
19571   \renewcommand*{\LT@array}{%
19572     \let\scr@caption=\LT@caption
19573     \def\captionabove{\noalign{\global\@captionabovetrue}%
19574       \scr@caption}%
19575     \def\captionbelow{\noalign{\global\@captionabovetrue}%
19576       \scr@caption}%
19577     \if@tablecaptionabove
19578       \let\LT@caption=\captionabove
19579     \else
19580       \let\LT@caption=\captionbelow
19581     \fi
19582     \scr@LT@array
19583   }%
19584   \ClassInfo{\KOMAClassName}{%
19585     longtable captions redefined%

```



```

19586     }%
19587   \fi
19588 }
19589
19590 \CloneTOCEntryStyle{tocline}{part}
19591 \TOCEntryStyleStartInitCode{part}{%
19592   \expandafter\renewcommand%
19593   \csname scr@tso@#1@linefill\endcsname{\hfill}%
19594   \expandafter\renewcommand%
19595   \csname scr@tso@#1@entryformat\endcsname[1]{\usekomafont{partentry}{##1}}%
19596   \expandafter\renewcommand%
19597   \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
19598     {\usekomafont{partentry}{\usekomafont{partentrypagenumber}{##1}}}%
19599   \expandafter\renewcommand\expandafter*%
19600   \csname scr@tso@#1@beforeskip\endcsname{2.25em \@plus\p@}%
19601 }
19602
19603 \CloneTOCEntryStyle{tocline}{section}
19604 \TOCEntryStyleStartInitCode{section}{%
19605   \expandafter\renewcommand%
19606   \csname scr@tso@#1@linefill\endcsname{%
19607     \if@sectionentrywithdots
19608       {\usekomafont{sectionentrydots}{\TOCLineLeaderFill}}\relax
19609     \else
19610       \hfill
19611     \fi
19612   }%
19613   \expandafter\renewcommand%
19614   \csname scr@tso@#1@entryformat\endcsname{\usekomafont{sectionentry}}%
19615   \expandafter\renewcommand%
19616   \csname scr@tso@#1@pagenumberformat\endcsname[1]{\usekomafont{sectionentry}{\usekomafont{
19617     \expandafter\renewcommand\expandafter*%
19618     \csname scr@tso@#1@beforeskip\endcsname{1.0em \@plus\p@}%
19619   }
19620
19621 \CloneTOCEntryStyle{tocline}{subsection}
19622 \TOCEntryStyleStartInitCode{subsection}{%
19623   \expandafter\renewcommand%
19624   \csname scr@tso@#1@linefill\endcsname{\TOCLineLeaderFill\relax}%
19625   \expandafter\renewcommand%
19626   \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
19627     {\normalfont\normalcolor ##1}}%
19628 }
19629
19630 \CloneTOCEntryStyle{subsection}{default}
19631
19632 \DeclareSectionCommand[%
19633   style=section,%
19634   level=1,%
19635   indent=\z@,%
19636   beforeskip=-3.5ex \@plus -1ex \@minus -.2ex,%
19637   afterskip=2.3ex \@plus.2ex,%
19638   tocstyle=section,%
19639   tocindent=0pt,%

```



```

19640   tocnumwidth=1.5em%
19641 ]{section}
19642 \DeclareSectionCommand[%
19643   style=part,%
19644   level=\z@,%
19645   tocstyle=part,%
19646   toplevel=\m@ne,%
19647   tocindent=\z@,%
19648   tocnumwidth=2em%
19649 ]{part}
19650 \DeclareSectionCommand[%
19651   style=section,%
19652   level=2,%
19653   indent=\z@,%
19654   beforekip=-3.25ex\@plus -1ex \@minus -.2ex,%
19655   afterskip=1.5ex \@plus .2ex,%
19656   tocstyle=subsection,%
19657   tocindent=1.5em,%
19658   tocnumwidth=2.3em%
19659 ]{subsection}
19660 \DeclareSectionCommand[%
19661   style=section,%
19662   level=3,%
19663   indent=\z@,%
19664   beforekip=-3.25ex\@plus -1ex \@minus -.2ex,%
19665   afterskip=1.5ex \@plus .2ex,%
19666   tocstyle=subsection,%
19667   tocindent=3.8em,%
19668   tocnumwidth=3.2em%
19669 ]{subsubsection}
19670 \DeclareSectionCommand[%
19671   style=section,%
19672   level=4,%
19673   indent=\z@,%
19674   beforekip=3.25ex \@plus 1ex \@minus .2ex,%
19675   afterskip=-1em,%
19676   tocstyle=subsection,%
19677   tocindentfollows=subsubsection,%
19678   tocindent=7.0em,%
19679   tocnumwidth=4.1em%
19680 ]{paragraph}
19681 \DeclareSectionCommand[%
19682   style=section,%
19683   level=5,%
19684   indent=\scr@parindent,%
19685   beforekip=3.25ex \@plus 1ex \@minus .2ex,%
19686   afterskip=-1em,%
19687   tocstyle=subsection,%
19688   tocindent=10em,%
19689   tocnumwidth=5em%
19690 ]{subparagraph}

```

## 133 File scrbook-xetex-bidi.def





```

19691 \ProvidesFile{scrbook-xetex-bidi.def}[2022/05/27 v1.3 bidi adaptations for scrbook class for
19692 \newcommand{\scr@saved@LTRfootnotetext}{}
19693 \newcommand{\scr@saved@RTLfootnotetext}{}
19694 \let\scr@saved@footnotetext\@footnotetext
19695 \let\scr@saved@LTRfootnotetext\@LTRfootnotetext
19696 \let\scr@saved@RTLfootnotetext\@RTLfootnotetext
19697 \renewcommand{\@footnotetext}[1]{%
19698   \scr@saved@footnotetext{#1}%
19699   \csname FN@mfb@prepare\endcsname
19700 }
19701 \renewcommand{\@LTRfootnotetext}[1]{%
19702   \scr@saved@LTRfootnotetext{#1}%
19703   \csname FN@mfb@prepare\endcsname
19704 }
19705 \renewcommand{\@RTLfootnotetext}[1]{%
19706   \scr@saved@RTLfootnotetext{#1}%
19707   \csname FN@mfb@prepare\endcsname
19708 }
19709 \renewcommand\deffootnote[4][]{%
19710   \expandafter\ifnum\scr@v@is@ge{3.22}\relax
19711     \long\def\@makefnmark##1{%
19712       \ExecuteDoHook{footnote/text/begin}%
19713       \raggedfootnote
19714       \if@RTL
19715         \rightskip
19716       \else
19717         \leftskip
19718       \fi
19719       #2
19720       \l@addto@macro\@trivlist{%
19721         \ifnum\@listdepth=\@one\advance
19722           \if@RTL
19723             \rightmargin #2\relax
19724           \else
19725             \leftmargin #2\relax
19726           \fi
19727         \fi
19728       }%
19729       \parindent #3\noindent
19730       \IfArgIsEmpty{#1}{}{%
19731         \hskip \dimexpr #1-#2\relax
19732       }%
19733       \ftn@font\hbox to \z@{\hss\@makefnmark}##1%
19734       \ExecuteDoHook{footnote/text/end}%
19735     }%
19736   \else
19737     \ClassInfo{\KOMAClassName}{%
19738       Using old \string\@makefnmark\space due to compatibility
19739       level\MessageBreak
19740       less than 3.22}%
19741     \long\def\@makefnmark##1{%
19742       \setlength{\@tempdimc}{#3}%
19743       \def\@tempa{#1}\ifx\@tempa\@empty
19744         \setpar{\@par

```



```

19745         \@tempdima = \hsize
19746         \addtolength{\@tempdima}{-#2}%
19747         \ifRTL
19748             \parshape \@ne \z@ \@tempdima
19749         \else
19750             \parshape \@ne #2 \@tempdima
19751         \fi
19752     }%
19753 \else
19754     \addtolength{\@tempdimc}{#2}%
19755     \addtolength{\@tempdimc}{-#1}%
19756     \@setpar{\@par
19757         \@tempdima = \hsize
19758         \addtolength{\@tempdima}{-#1}%
19759         \@tempdimb = \hsize
19760         \addtolength{\@tempdimb}{-#2}%
19761         \ifRTL
19762             \parshape \tw@ \z@ \@tempdima \z@ \@tempdimb
19763         \else
19764             \parshape \tw@ #1 \@tempdima #2 \@tempdimb
19765         \fi
19766     }%
19767 \fi
19768 \par
19769 \parindent\@tempdimc\noindent
19770 \ftn@font\hbox to \z@{\hss\@makefnmark}##1%
19771 }%
19772 \fi
19773 \def\@makefnmark{\hbox{\ftn@font{#4}}}%
19774 }
19775 \deffootnote[1em]{1.5em}{1em}{\textsuperscript{\thefootnotemark}}
19776 \renewcommand*\left@footnoterule{%
19777     \normalsize\ftn@rule@test@values
19778     \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
19779     \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
19780     {\usekomafont{footnoterule}{%
19781         \hrule \@height\ftn@rule@height \@width\ftn@rule@width}}%
19782     \kern 2.6\p@}
19783 \renewcommand*\right@footnoterule{%
19784     \normalsize\ftn@rule@test@values
19785     \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
19786     \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
19787     {\usekomafont{footnoterule}{%
19788         \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\ftn@rule@width\relax \leavevmode\l
19789     \kern 2.6\p@}
19790 \renewcommand*\maketitle[1][1]{%
19791     \expandafter\ifnum \csname scr@v@3.12\endcsname>\scr@compatibility\relax
19792     \else
19793         \def\and{%
19794             \end{tabular}%
19795             \hspace 1em \@plus.17fil%
19796             \begin{tabular}[t]{c}%
19797         }%
19798     \fi

```



```

19799 \if@titlepage
19800   \begin{titlepage}
19801     \setcounter{page}{%
19802       #1%
19803     }%
19804     \if@titlepageiscoverpage
19805       \edef\tITLEPAGE@restore{%
19806         \noexpand\endgroup
19807         \noexpand\global\noexpand\@colht\the\@colht
19808         \noexpand\global\noexpand\@colroom\the\@colroom
19809         \noexpand\global\vsizethe\vsizethe
19810         \noexpand\global\noexpand\@titlepageiscoverpagefalse
19811         \noexpand\let\noexpand\tITLEPAGE@restore\noexpand\relax
19812       }%
19813       \begingroup
19814       \topmargin=\dimexpr \coverpagetopmargin-1in\relax
19815       \oddsidemargin=\dimexpr \coverpageleftmargin-1in\relax
19816       \evensidemargin=\dimexpr \coverpageleftmargin-1in\relax
19817       \textwidth=\dimexpr
19818       \paperwidth-\coverpageleftmargin-\coverpagerightmargin\relax
19819       \textheight=\dimexpr
19820       \paperheight-\coverpagetopmargin-\coverpagebottommargin\relax
19821       \headheight=0pt
19822       \headsep=0pt
19823       \footskip=\baselineskip
19824       \@colht=\textheight
19825       \@colroom=\textheight
19826       \vsizethe=\textheight
19827       \columnwidth=\textwidth
19828       \hsize=\columnwidth
19829       \linewidth=\hsize
19830     \else
19831       \let\tITLEPAGE@restore\relax
19832     \fi
19833     \let\footnotesize\small
19834     \let\right@footnoterule\relax
19835     \let\left@footnoterule\relax
19836     \let\textwidth@footnoterule\relax
19837     \let\footnote\thanks
19838     \let\LTRfootnote\LTRthanks
19839     \let\RTLfootnote\RTLthanks
19840     \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
19841     \let\@oldmakefnmark\@makefnmark
19842     \renewcommand*{\@makefnmark}{\rlap{\@oldmakefnmark}}%
19843     \ifx\@extratitle\@empty
19844       \ifx\@frontispiece\@empty
19845       \else
19846         \if@twoside\mbox{}\next@tpage\fi
19847         \noindent\@frontispiece\next@tdpage
19848       \fi
19849     \else
19850       \noindent\@extratitle
19851       \ifx\@frontispiece\@empty
19852       \else

```



```

19853         \next@tpage
19854         \noindent\@frontispiece
19855     \fi
19856     \next@tdpage
19857 \fi
19858 \setparsizes{\z@}{\z@}{\z@\@plus 1fil}\par@updateerelative
19859 \ifx\@titlehead\@empty \else
19860     \begin{minipage}[t]{\textwidth}%
19861         \usekomafont{titlehead}{\@titlehead\par}%
19862     \end{minipage}\par
19863 \fi
19864 \null\vfill
19865 \begin{center}
19866     \ifx\@subject\@empty \else
19867         {\usekomafont{subject}{\@subject\par}}%
19868         \vskip 3em
19869     \fi
19870     {\usekomafont{title}{\huge \@title\par}}%
19871     \vskip 1em
19872     {\ifx\@subtitle\@empty\else\usekomafont{subtitle}{\@subtitle\par}\fi}%
19873     \vskip 2em
19874     {%
19875         \usekomafont{author}{%
19876             \lineskip 0.75em
19877             \begin{tabular}[t]{c}
19878                 \@author
19879             \end{tabular}\par
19880         }%
19881     }%
19882     \vskip 1.5em
19883     {\usekomafont{date}{\@date \par}}%
19884     \vskip \z@ \@plus3fill
19885     {\usekomafont{publishers}{\@publishers \par}}%
19886     \vskip 3em
19887 \end{center}\par
19888 \@thanks\global\let\@thanks\@empty
19889 \vfill\null
19890 \if@twoside
19891     \@tempswatrue
19892     \expandafter\ifnum \@nameuse{scr@v@3.12}>\scr@compatibility\relax
19893     \else
19894         \ifx\@uppertitleback\@empty\ifx\@lowertitleback\@empty
19895             \@tempswafalse
19896         \fi\fi
19897     \fi
19898     \if@tempswa
19899         \next@tpage
19900         \begin{minipage}[t]{\textwidth}
19901             \@uppertitleback
19902         \end{minipage}\par
19903         \vfill
19904         \begin{minipage}[b]{\textwidth}
19905             \@lowertitleback
19906         \end{minipage}\par

```



```

19907         \@thanks\global\let\@thanks\@empty
19908     \fi
19909 \else
19910     \ifx\@uppertitleback\@empty\else
19911         \ClassWarning{\KOMAClassName}{%
19912             non empty \string\uppertitleback\space ignored
19913             by \string\maketitle\MessageBreak
19914             in `twoside=false' mode%
19915         }%
19916     \fi
19917     \ifx\@lowertitleback\@empty\else
19918         \ClassWarning{\KOMAClassName}{%
19919             non empty \string\lowertitleback\space ignored
19920             by \string\maketitle\MessageBreak
19921             in `twoside=false' mode%
19922         }%
19923     \fi
19924 \fi
19925 \ifx\@dedication\@empty
19926 \else
19927     \next@tdpage\null\vfill
19928     {\centering\usekomafont{dedication}{\@dedication \par}}%
19929     \vskip \z@ \@plus3fill
19930     \@thanks\global\let\@thanks\@empty
19931     \cleardoubleemptypage
19932 \fi
19933 \ifx\tITLEPAGE@restore\relax\else\clearpage\tITLEPAGE@restore\fi
19934 \end{titlepage}
19935 \else
19936     \par
19937     \@tempcnta=%
19938     #1%
19939     \relax\ifnum\@tempcnta=1\else
19940         \ClassWarning{\KOMAClassName}{%
19941             Optional argument of \string\maketitle\space ignored\MessageBreak
19942             in `titlepage=false' mode%
19943         }%
19944     \fi
19945     \ifx\@uppertitleback\@empty\else
19946         \ClassWarning{\KOMAClassName}{%
19947             non empty \string\uppertitleback\space ignored
19948             by \string\maketitle\MessageBreak
19949             in `titlepage=false' mode%
19950         }%
19951     \fi
19952     \ifx\@lowertitleback\@empty\else
19953         \ClassWarning{\KOMAClassName}{%
19954             non empty \string\lowertitleback\space ignored
19955             by \string\maketitle\MessageBreak
19956             in `titlepage=false' mode%
19957         }%
19958     \fi
19959 \begingroup
19960     \let\tITLEPAGE@restore\relax

```



```

19961 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
19962 \let\@oldmakefnmark\@makefnmark
19963 \renewcommand*{\@makefnmark}{\rlap\@oldmakefnmark}%
19964 \next@tdpage
19965 \if@twocolumn
19966   \ifnum \col@number=\@one
19967     \ifx\@extratitle\@empty
19968       \ifx\@frontispiece\@empty\else\if@twoside\mbox{}\fi\fi
19969     \else
19970       \@makeextratitle
19971     \fi
19972     \ifx\@frontispiece\@empty
19973       \ifx\@extratitle\@empty\else\next@tdpage\fi
19974     \else
19975       \next@tpage
19976       \@makefrontispiece
19977       \next@tdpage
19978     \fi
19979     \@maketitle
19980   \else
19981     \ifx\@extratitle\@empty
19982       \ifx\@frontispiece\@empty\else\if@twoside\mbox{}\fi\fi
19983     \else
19984       \twocolumn[\@makeextratitle]%
19985     \fi
19986     \ifx\@frontispiece\@empty
19987       \ifx\@extratitle\@empty\else\next@tdpage\fi
19988     \else
19989       \next@tpage
19990       \twocolumn[\@makefrontispiece]%
19991       \next@tdpage
19992     \fi
19993     \twocolumn[\@maketitle]%
19994   \fi
19995 \else
19996   \ifx\@extratitle\@empty
19997     \ifx\@frontispiece\@empty\else \mbox{}\fi
19998   \else
19999     \@makeextratitle
20000   \fi
20001   \ifx\@frontispiece\@empty
20002     \ifx\@extratitle\@empty\else\next@tdpage\fi
20003   \else
20004     \next@tpage
20005     \@makefrontispiece
20006     \next@tdpage
20007   \fi
20008   \@maketitle
20009 \fi
20010 \ifx\titlepagestyle\@empty\else\thispagestyle{\titlepagestyle}\fi
20011 \@thanks\global\let\@thanks\@empty
20012 \endgroup
20013 \fi
20014 \setcounter{footnote}{0}%

```



```

20015 \expandafter\ifnum \csname scr@v@3.12\endcsname>\scr@compatibility\relax
20016 \let\thanks\relax
20017 \let\LTRthanks\relax
20018 \let\RTLthanks\relax
20019 \let\maketitle\relax
20020 \let\@maketitle\relax
20021 \global\let\@thanks\@empty
20022 \global\let\@author\@empty
20023 \global\let\@date\@empty
20024 \global\let\@title\@empty
20025 \global\let\@subtitle\@empty
20026 \global\let\@extratitle\@empty
20027 \global\let\@frontispiece\@empty
20028 \global\let\@titlehead\@empty
20029 \global\let\@subject\@empty
20030 \global\let\@publishers\@empty
20031 \global\let\@uppertitleback\@empty
20032 \global\let\@lowertitleback\@empty
20033 \global\let\@dedication\@empty
20034 \global\let\author\relax
20035 \global\let\title\relax
20036 \global\let\extratitle\relax
20037 \global\let\titlehead\relax
20038 \global\let\subject\relax
20039 \global\let\publishers\relax
20040 \global\let\uppertitleback\relax
20041 \global\let\lowertitleback\relax
20042 \global\let\dedication\relax
20043 \global\let\date\relax
20044 \fi
20045 \global\let\and\relax
20046 }%
20047 \def\raggedsection{\if@RTL\raggedleft\else\raggedright\fi}
20048 \renewcommand*\autodot{\if@altsecnumformat\@SepMark\fi}
20049 \renewcommand*\thesection{%
20050 \expandafter\ifnum\scr@v@is@gt{2.97d}%
20051 \if@mainmatter\thechapter\@SepMark\fi
20052 \else
20053 \thechapter\@SepMark%
20054 \fi
20055 \@arabic\c@section
20056 }
20057 \renewcommand*{\thesubsection}{\thesection\@SepMark\@arabic\c@subsection}
20058 \renewcommand*{\thesubsubsection}{%
20059 \thesubsection\@SepMark\@arabic\c@subsubsection
20060 }
20061 \renewcommand*{\theparagraph}{\thesubsubsection\@SepMark\@arabic\c@paragraph}
20062 \renewcommand*{\thesubparagraph}{%
20063 \theparagraph\@SepMark\@arabic\c@subparagraph
20064 }
20065 \expandafter\ifnum\scr@v@is@le{2.97d}%
20066 \renewcommand*\thefigure{\thechapter\@SepMark\@arabic\c@figure}
20067 \fi
20068 \expandafter\ifnum\scr@v@is@le{2.97d}%

```



```

20069 \renewcommand*\thetable{\thechapter\@SepMark\@arabic\c@table}
20070 \fi
20071 \renewcommand*\theequation{%
20072   \expandafter\ifnum\scr@v@is@gt{2.97d}%
20073   \if@mainmatter\thechapter\@SepMark\fi
20074   \else
20075     \thechapter\@SepMark%
20076   \fi
20077   \@arabic\c@equation
20078 }
20079 \renewenvironment{thebibliography}[1]{%
20080   \if@bib@break@
20081     \bib@beginhook
20082   \else
20083     \ifx\bibpreamble\relax\else\ifx\bibpreamble\@empty\else
20084       \setchapterpreamble{\bibpreamble}%
20085     \fi\fi
20086     \bib@heading
20087     \bib@beginhook
20088     \bib@before@hook
20089   \fi
20090   \renewcommand{\BreakBibliography}[1]{%
20091     \@bib@break
20092     \end{thebibliography}%
20093     \begingroup ##1\endgroup
20094     \begin{thebibliography}{#1}
20095   }%
20096   \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
20097   \bidi@@thebibliography@font@hook%
20098   \list{%
20099     \@biblabel{\@arabic\c@enumiv}%
20100   }{%
20101     \settowidth\labelwidth{\@biblabel{#1}}%
20102     \leftmargin\labelwidth
20103     \advance\leftmargin\labelsep
20104     \@openbib@code
20105     \if@bib@break@
20106       \edef\@tempa{%
20107         \noexpand\usecounter{enumiv}%
20108         \noexpand\setcounter{enumiv}{\the\c@enumiv}%
20109       }\@tempa
20110       \no@bib@break
20111     \else
20112       \usecounter{enumiv}%
20113     \fi
20114     \let\p@enumiv\@empty
20115     \renewcommand*\theenumiv{\@arabic\c@enumiv}%
20116   }%
20117   \sloppy\clubpenalty4000 \widowpenalty4000
20118   \sfcode`\.=\@m
20119 }{%
20120   \if@bib@break@
20121     \def\@noitemerr{%
20122       \@latex@warning{%

```





```

20123     \string\BreakBibliography\space at begin of `thebibliography'
20124     environment\MessageBreak
20125     or following \string\BreakBibliography}%
20126   }%
20127 \else
20128   \def\@noitemerr{%
20129     \@latex@warning{%
20130       Empty `thebibliography' environment or
20131       \string\BreakBibliography\MessageBreak
20132       before end of `thebibliography' environment}%
20133   }%
20134 \fi
20135 \endlist
20136 \if@bib@break@
20137 \else
20138   \bib@after@hook
20139   \let\bib@before@hook\@empty
20140   \let\bib@after@hook\@empty
20141 \fi
20142 \bib@endhook
20143 }
20144 \renewcommand*{\raggeddictum}{\if@RTL\raggedright\else\raggedleft\fi}
20145 \renewcommand*{\raggeddictumtext}{\if@RTL\raggedleft\else\raggedright\fi}
20146 \renewcommand*{\raggeddictumauthor}{\if@RTL\raggedright\else\raggedleft\fi}
20147 \renewcommand\marginline[1]{%
20148   \marginpar[\if@RTL\raggedright\else\raggedleft\fi{#1}]{\if@RTL\raggedleft\else\raggedright
20149 }
20150 \renewcommand{\@@makecaption}[3]{%
20151   \cap@margin
20152   \begingroup
20153     \ifonelinecaptions
20154       \def\stepcounter##1{\advance\value{##1}\@one}%
20155       \let\refstepcounter\stepcounter
20156       \let\label\@gobble
20157       \let\@footnotetext=\@gobble
20158       \let\@LTRfootnotetext=\@gobble
20159       \let\@RTLfootnotetext=\@gobble
20160       \let\hypertarget\@gobbletwo
20161       \edef\xnewline{%
20162         \unexpanded{\ClassInfo{\KOMACClassName}}{%
20163           Workaround for not recommended usage of \string\\ or\MessageBreak
20164           \string\newline in caption text
20165         }%
20166         \hspace*{\linewidth}\hspace{1sp}%
20167       }%
20168       \unexpanded\expandafter{\xnewline}%
20169     }%
20170     \edef\@xcentercr{%
20171       \unexpanded{\ClassInfo{\KOMACClassName}}{%
20172         Workaround for not recommended usage of \string\\ or\MessageBreak
20173         \string\newline in caption text
20174       }%
20175       \hspace*{\linewidth}\hspace{1sp}%
20176     }%

```



```

20177         \unexpanded\expandafter{\@xcentercr}%
20178     }%
20179     \settowidth{\@tempdima}{\scr@makesinglelinecaption{#1}{#2}{#3}}%
20180     \ifdim\@tempdima>\cap@width
20181         \aftergroup\scr@makemultilinecaption
20182     \else
20183         \aftergroup\scr@makesinglelinecaption
20184     \fi
20185 \else
20186     \aftergroup\scr@makemultilinecaption
20187 \fi
20188 \endgroup
20189 {#1}{#2}{#3}%
20190 }
20191 \renewcommand{\scr@makesinglelinecaption}[3]{%
20192     {%
20193         \usefontofkomafont{caption}{%
20194             \hb@xt@ \hsizex{%
20195                 \cap@left
20196                 \if@RTL
20197                     \beginR
20198                 \fi
20199                 \scr@makesinglelinecaption{#1}{#2}{#3}%
20200                 \if@RTL
20201                     \endR
20202                 \fi
20203                 \cap@right
20204             }\par\kern\dp\strutbox%
20205         }%
20206     }\kern-\dp\strutbox
20207 }
20208 \renewcommand{\@makecaption}[2]{%
20209     \if@captionabove
20210         \vskip\belowcaptionskip
20211     \else
20212         \vskip\abovecaptionskip
20213     \fi
20214     \@makecaption\@firstofone{#1}{#2}%
20215     \if@captionabove
20216         \vskip\abovecaptionskip
20217     \else
20218         \vskip\belowcaptionskip
20219     \fi
20220 }
20221
20222 \renewcommand{\scr@makesinglelinecaption}[3]{%
20223     {\usekomafont{caption}{\strut\ignorespaces
20224         #1{\usekomafont{captionlabel}{#2\captionformat}}}%
20225         \ignorespaces #3\unskip}}%
20226 }
20227
20228 \renewcommand{\scr@makemultilinecaption}[3]{%
20229     {%
20230         \usefontofkomafont{caption}{%

```



```

20231 \hb@xt@\hsize{%
20232 \cap@left
20233 \vbox{\hsize\cap@width\linewidth\hsize
20234 \scr@ifundefinedorrelax{@captype}{%
20235 \ClassWarning{\KOMAClassName}{%
20236 \string\caption' outside float.\MessageBreak
20237 Seems you are using \string\caption' outside a
20238 float.\MessageBreak
20239 Maybe you are using a package that uses
20240 \string\@makecaption'\MessageBreak
20241 without setting \string\@captype' before.\MessageBreak
20242 Because I cannot detect the caption type, I'm using\MessageBreak
20243 the empty one.%
20244 }%
20245 \let\@captype\@empty
20246 }{}%
20247 \scr@ifundefinedorrelax{ragged\@captype caption}{\raggedcaption}{%
20248 \@nameuse{ragged\@captype caption}%
20249 }%
20250 \ifdofullc@p
20251 \hangfrom{%
20252 \strut
20253 \scr@smashdp{%
20254 #1{%
20255 \usekomafont{caption}{%
20256 \usekomafont{captionlabel}{#2\captionformat}%
20257 }%
20258 }%
20259 }%
20260 }%
20261 {{\usekomafont{caption}{#3\scr@endstrut}}\par}%
20262 \else
20263 \ifdim\cap@indent<\z@
20264 \strut
20265 #1{%
20266 {\usekomafont{caption}{%
20267 \usekomafont{captionlabel}{#2\captionformat}%
20268 }%
20269 }\par}%
20270 \noindent{{\usekomafont{caption}{%
20271 \hspace*{-\cap@indent}#3\scr@endstrut
20272 }}\par}%
20273 \else
20274 \if@capbreak
20275 \strut
20276 #1{%
20277 {\usekomafont{caption}{%
20278 \usekomafont{captionlabel}{#2\captionformat}%
20279 }
20280 }\par}%
20281 \noindent\hangfrom{\hspace*{\cap@indent}}%
20282 {{\usekomafont{caption}{#3\scr@endstrut}}\par}%
20283 \else
20284 \hangfrom{\scr@smashdp\strut\hspace*{\cap@indent}}%

```



```

20285             {%
20286             \hspace{-\cap@indent}%
20287             \scr@smashdp{%
20288             #1{\usekomafont{caption}{%
20289             \usekomafont{captionlabel}{#2\captionformat}%
20290             }%
20291             }%
20292             }%
20293             {\usekomafont{caption}{#3\scr@endstrut}}\par}%
20294             }%
20295             \fi
20296             \fi
20297             \fi
20298             }%
20299             \cap@right
20300         }\par\kern\dp\strutbox
20301     }%
20302 }\kern-\dp\strutbox
20303 }
20304
20305
20306 \bidi@AfterFile{longtable-xetex-bidi.def}{%
20307   \if@komalongtable
20308     \renewcommand{\LT@makecaption}[3]{%
20309       \noalign{%
20310         \if@captionabove
20311           \vskip\belowcaptionskip
20312         \else
20313           \vskip\abovecaptionskip
20314         \fi
20315       }%
20316       \LT@mcol\LT@cols c{%
20317         \hbox to\z@{\hss\parbox[t]{\linewidth{%
20318           \def\@capytype{table}%
20319           \@makecaption{#1}{#2}{#3}%
20320           \endgraf
20321           \if@captionabove
20322             \vskip\abovecaptionskip
20323           \else
20324             \vskip\belowcaptionskip
20325           \fi
20326         }%
20327         \hss
20328       }%
20329     }%
20330   }%
20331   \renewcommand*{\scr@LT@array}{}%
20332   \let\scr@LT@array=\LT@array
20333   \renewcommand*{\LT@array}{%
20334     \let\scr@caption=\LT@caption
20335     \def\captionabove{\noalign{\global\@captionabovetrue}%
20336       \scr@caption}%
20337     \def\captionbelow{\noalign{\global\@captionabovetrue}%
20338       \scr@caption}%

```



```

20339     \if@tablecaptionabove
20340         \let\LT@caption=\captionabove
20341     \else
20342         \let\LT@caption=\captionbelow
20343     \fi
20344     \scr@LT@array
20345 }%
20346 \ClassInfo{\KOMAClassName}{%
20347     longtable captions redefined%
20348 }%
20349 \fi
20350 }
20351
20352 \CloneTOCEntryStyle{tocline}{part}
20353 \TOCEntryStyleStartInitCode{part}{%
20354     \expandafter\renewcommand%
20355     \csname scr@tso@#1@linefill\endcsname{\hfill}%
20356     \expandafter\renewcommand%
20357     \csname scr@tso@#1@entryformat\endcsname[1]{\usekomafont{partentry}{##1}}%
20358     \expandafter\renewcommand%
20359     \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
20360         {\usekomafont{partentry}{\usekomafont{partentrypagenumber}{##1}}}%
20361     \expandafter\renewcommand\expandafter*%
20362     \csname scr@tso@#1@beforeskip\endcsname{2.25em \@plus\p@}%
20363 }
20364
20365 \CloneTOCEntryStyle{tocline}{chapter}
20366 \TOCEntryStyleStartInitCode{chapter}{%
20367     \expandafter\renewcommand%
20368     \csname scr@tso@#1@linefill\endcsname{%
20369         \if@chapterentrywithdots
20370             {\usekomafont{chapterentrydots}{\TOCLineLeaderFill}}\relax
20371         \else
20372             \hfill
20373         \fi
20374     }%
20375     \expandafter\renewcommand%
20376     \csname scr@tso@#1@entryformat\endcsname{\usekomafont{chapterentry}}%
20377     \expandafter\renewcommand%
20378     \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
20379         {\usekomafont{chapterentry}{\usekomafont{chapterentrypagenumber}{##1}}}%
20380     \expandafter\renewcommand\expandafter*%
20381     \csname scr@tso@#1@beforeskip\endcsname{1.0em \@plus\p@}%
20382 }
20383
20384 \CloneTOCEntryStyle{tocline}{section}
20385 \TOCEntryStyleStartInitCode{section}{%
20386     \expandafter\renewcommand%
20387     \csname scr@tso@#1@linefill\endcsname{\TOCLineLeaderFill\relax}%
20388     \expandafter\renewcommand%
20389     \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
20390         {\normalfont\normalcolor ##1}}%
20391 }
20392

```



```

20393 \CloneTOCEntryStyle{section}{default}
20394
20395 \DeclareSectionCommand[%
20396   style=chapter,%
20397   level=\z@,%
20398   pagestyle=plain,%
20399   tocstyle=chapter,%
20400   tocindent=\z@,%
20401   tocnumwidth=1.5em%
20402 ]{chapter}
20403 \DeclareSectionCommand[%
20404   style=section,%
20405   level=1,%
20406   indent=\z@,%
20407   beforekip=-3.5ex \@plus -1ex \@minus -.2ex,%
20408   afterskip=2.3ex \@plus .2ex,%
20409   tocstyle=section,%
20410   tocindentfollows=chapter,%
20411   tocindent=1.5em,%
20412   tocnumwidth=2.3em%
20413 ]{section}
20414 \DeclareSectionCommand[%
20415   style=part,%
20416   level=\m@ne,%
20417   pagestyle=plain,%
20418   tocstyle=part,%
20419   toclevel=\m@ne,%
20420   tocindent=\z@,%
20421   tocnumwidth=2em%
20422 ]{part}
20423 \DeclareSectionCommand[%
20424   style=section,%
20425   level=2,%
20426   indent=\z@,%
20427   beforekip=-3.25ex \@plus -1ex \@minus -.2ex,%
20428   afterskip=1.5ex \@plus .2ex,%
20429   tocstyle=section,%
20430   tocindent=3.8em,%
20431   tocnumwidth=3.2em%
20432 ]{subsection}
20433 \DeclareSectionCommand[%
20434   style=section,%
20435   level=3,%
20436   indent=\z@,%
20437   beforekip=-3.25ex \@plus -1ex \@minus -.2ex,%
20438   afterskip=1.5ex \@plus .2ex,%
20439   tocstyle=section,%
20440   tocindent=7.0em,%
20441   tocnumwidth=4.1em%
20442 ]{subsubsection}
20443 \DeclareSectionCommand[%
20444   style=section,%
20445   level=4,%
20446   indent=\z@,%

```



```

20447 beforeskip=3.25ex \@plus1ex \@minus.2ex,%
20448 afterskip=-1em,%
20449 tocindentfollows=subsubsection,%
20450 tocstyle=section,%
20451 tocindent=10em,%
20452 tocnumwidth=5em%
20453 ]{paragraph}
20454 \DeclareSectionCommand[%
20455   style=section,%
20456   level=5,%
20457   indent=\scr@parindent,%
20458   beforeskip=3.25ex \@plus1ex \@minus.2ex,%
20459   afterskip=-1em,%
20460   tocstyle=section,%
20461   tocindent=12em,%
20462   tocnumwidth=6em%
20463 ]{subparagraph}

```

## 134 File scrreprt-xetex-bidi.def

```

20464 \ProvidesFile{scrreprt-xetex-bidi.def}[2022/05/27 v1.3 bidi adaptations for scrreprt class f
20465 \newcommand{\scr@saved@LTRfootnotetext}{}
20466 \newcommand{\scr@saved@RTLfootnotetext}{}
20467 \let\scr@saved@footnotetext\@footnotetext
20468 \let\scr@saved@LTRfootnotetext\@LTRfootnotetext
20469 \let\scr@saved@RTLfootnotetext\@RTLfootnotetext
20470 \renewcommand{\@footnotetext}[1]{%
20471   \scr@saved@footnotetext{#1}%
20472   \csname FN@mfb@prepare\endcsname
20473 }
20474 \renewcommand{\@LTRfootnotetext}[1]{%
20475   \scr@saved@LTRfootnotetext{#1}%
20476   \csname FN@mfb@prepare\endcsname
20477 }
20478 \renewcommand{\@RTLfootnotetext}[1]{%
20479   \scr@saved@RTLfootnotetext{#1}%
20480   \csname FN@mfb@prepare\endcsname
20481 }
20482 \renewcommand\deffootnote[4][]{%
20483   \expandafter\ifnum\scr@v@is@ge{3.22}\relax
20484     \long\def\@makefntext##1{%
20485       \ExecuteDoHook{footnote/text/begin}%
20486       \raggedfootnote
20487       \ifRTL
20488         \rightskip
20489       \else
20490         \leftskip
20491       \fi
20492       #2
20493       \l@addto@macro\@trivlist{%
20494         \ifnum\@listdepth=\@ne
20495           \ifRTL
20496             \advance\rightmargin #2\relax
20497           \else

```



```

20498         \advance\leftmargin #2\relax
20499     \fi
20500 \fi
20501 }%
20502 \parindent #3\noindent
20503 \IfArgIsEmpty{#1}{\{%
20504     \hskip \dimexpr #1-#2\relax
20505 }%
20506 \ftn@font\hbox to \z@{\hss\@@makefnmark}##1%
20507 \ExecuteDoHook{footnote/text/end}%
20508 }%
20509 \else
20510 \ClassInfo{\KOMAClassName}{%
20511     Using old \string\@makefnmark\space due to compatibility
20512     level\MessageBreak
20513     less than 3.22}%
20514 \long\def\@makefnmark##1{%
20515     \setlength{\@tempdimc}{#3}%
20516     \def\@tempa{#1}\ifx\@tempa\@empty
20517         \@setpar{\@par
20518             \@tempdima = \hspace
20519             \addtolength{\@tempdima}{-#2}%
20520             \if@RTL
20521                 \parshape \@ne \z@ \@tempdima
20522             \else
20523                 \parshape \@ne #2 \@tempdima
20524             \fi
20525         }%
20526     \else
20527         \addtolength{\@tempdimc}{#2}%
20528         \addtolength{\@tempdimc}{-#1}%
20529         \@setpar{\@par
20530             \@tempdima = \hspace
20531             \addtolength{\@tempdima}{-#1}%
20532             \@tempdimb = \hspace
20533             \addtolength{\@tempdimb}{-#2}%
20534             \if@RTL
20535                 \parshape \tw@ \z@ \@tempdima \z@ \@tempdimb
20536             \else
20537                 \parshape \tw@ #1 \@tempdima #2 \@tempdimb
20538             \fi
20539         }%
20540     \fi
20541 \par
20542 \parindent\@tempdimc\noindent
20543 \ftn@font\hbox to \z@{\hss\@@makefnmark}##1%
20544 }%
20545 \fi
20546 \def\@@makefnmark{\hbox{\ftn@font{#4}}}%
20547 }
20548 \deffootnote[1em]{1.5em}{1em}{\textsuperscript{\thefootnotemark}}
20549 \renewcommand*\left@footnoterule{%
20550 \normalsize\ftn@rule@test@values
20551 \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax

```





```

20552 \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
20553 {\usekomafont{footnoterule}{%
20554 \hrule \@height\ftn@rule@height \@width\ftn@rule@width}}%
20555 \kern 2.6\p@}
20556 \renewcommand*\right@footnoterule{%
20557 \normalsize\ftn@rule@test@values
20558 \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
20559 \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
20560 {\usekomafont{footnoterule}{%
20561 \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\ftn@rule@width\relax \leavevmode\l
20562 \kern 2.6\p@}
20563 \renewcommand*\maketitle[1][1]{%
20564 \expandafter\ifnum \c@name scr@v@3.12\endcsname>\scr@compatibility\relax
20565 \else
20566 \def\and{%
20567 \end{tabular}%
20568 \hspace 1em \@plus.17fil%
20569 \begin{tabular}[t]{c}%
20570 }%
20571 \fi
20572 \if@titlepage
20573 \begin{titlepage}
20574 \setcounter{page}{%
20575 #1%
20576 }%
20577 \if@titlepageiscoverpage
20578 \edef\t@titlepage@restore{%
20579 \noexpand\endgroup
20580 \noexpand\global\noexpand\@colht\the\@colht
20581 \noexpand\global\noexpand\@colroom\the\@colroom
20582 \noexpand\global\vs@the\the\vs@the
20583 \noexpand\global\noexpand\@titlepageiscoverpagefalse
20584 \noexpand\let\noexpand\t@titlepage@restore\noexpand\relax
20585 }%
20586 \begingroup
20587 \topmargin=\dimexpr \coverpagetopmargin-1in\relax
20588 \oddsidemargin=\dimexpr \coverpageleftmargin-1in\relax
20589 \evensidemargin=\dimexpr \coverpageleftmargin-1in\relax
20590 \textwidth=\dimexpr
20591 \paperwidth-\coverpageleftmargin-\coverpagerightmargin\relax
20592 \textheight=\dimexpr
20593 \paperheight-\coverpagetopmargin-\coverpagebottommargin\relax
20594 \headheight=0pt
20595 \headsep=0pt
20596 \footskip=\baselineskip
20597 \@colht=\textheight
20598 \@colroom=\textheight
20599 \vs@the=\textheight
20600 \columnwidth=\textwidth
20601 \hsize=\columnwidth
20602 \linewidth=\hsize
20603 \else
20604 \let\t@titlepage@restore\relax
20605 \fi

```



```

20606 \let\footnotesize\small
20607 \let\right@footnoterule\relax
20608 \let\left@footnoterule\relax
20609 \let\textwidth@footnoterule\relax
20610 \let\footnote\thanks
20611 \let\LTRfootnote\LTRthanks
20612 \let\RTLfootnote\RTLthanks
20613 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
20614 \let\@oldmakefnmark\@makefnmark
20615 \renewcommand*{\@makefnmark}{\rlap\@oldmakefnmark}%
20616 \ifx\@extratitle\@empty
20617 \ifx\@frontispiece\@empty
20618 \else
20619 \if@twoside\mbox{}\next@tpage\fi
20620 \noindent\@frontispiece\next@tdpage
20621 \fi
20622 \else
20623 \noindent\@extratitle
20624 \ifx\@frontispiece\@empty
20625 \else
20626 \next@tpage
20627 \noindent\@frontispiece
20628 \fi
20629 \next@tdpage
20630 \fi
20631 \setparsizes{\z@}{\z@}{\z@\@plus 1fil}\par@updaterelative
20632 \ifx\@titlehead\@empty \else
20633 \begin{minipage}[t]{\textwidth}%
20634 \usekomafont{titlehead}{\@titlehead\par}%
20635 \end{minipage}\par
20636 \fi
20637 \null\vfill
20638 \begin{center}
20639 \ifx\@subject\@empty \else
20640 {\usekomafont{subject}{\@subject\par}}%
20641 \vskip 3em
20642 \fi
20643 {\usekomafont{title}{\huge \@title\par}}%
20644 \vskip 1em
20645 {\ifx\@subtitle\@empty\else\usekomafont{subtitle}{\@subtitle\par}\fi}%
20646 \vskip 2em
20647 {%
20648 \usekomafont{author}{%
20649 \lineskip 0.75em
20650 \begin{tabular}[t]{c}
20651 \@author
20652 \end{tabular}\par
20653 }%
20654 }%
20655 \vskip 1.5em
20656 {\usekomafont{date}{\@date \par}}%
20657 \vskip \z@ \@plus3fill
20658 {\usekomafont{publishers}{\@publishers \par}}%
20659 \vskip 3em

```



```

20660 \end{center}\par
20661 \@thanks\global\let\@thanks\@empty
20662 \vfill\null
20663 \if@twoside
20664 \@tempwattrue
20665 \expandafter\ifnum \@nameuse{scr@v@3.12}>\scr@compatibility\relax
20666 \else
20667 \ifx\@uppertitleback\@empty\ifx\@lowertitleback\@empty
20668 \@tempwafalse
20669 \fi\fi
20670 \fi
20671 \if@tempswa
20672 \next@tpage
20673 \begin{minipage}[t]{\textwidth}
20674 \@uppertitleback
20675 \end{minipage}\par
20676 \vfill
20677 \begin{minipage}[b]{\textwidth}
20678 \@lowertitleback
20679 \end{minipage}\par
20680 \@thanks\global\let\@thanks\@empty
20681 \fi
20682 \else
20683 \ifx\@uppertitleback\@empty\else
20684 \ClassWarning{\KOMAClassName}{%
20685 non empty \string\uppertitleback\space ignored
20686 by \string\maketitle\MessageBreak
20687 in `twoside=false' mode%
20688 }%
20689 \fi
20690 \ifx\@lowertitleback\@empty\else
20691 \ClassWarning{\KOMAClassName}{%
20692 non empty \string\lowertitleback\space ignored
20693 by \string\maketitle\MessageBreak
20694 in `twoside=false' mode%
20695 }%
20696 \fi
20697 \fi
20698 \ifx\@dedication\@empty
20699 \else
20700 \next@tdpage\null\vfill
20701 {\centering\usekomafont{dedication}{\@dedication \par}}%
20702 \vskip \z@ \@plus3fill
20703 \@thanks\global\let\@thanks\@empty
20704 \cleardoubleemptypage
20705 \fi
20706 \ifx\titlepage@restore\relax\else\clearpage\titlepage@restore\fi
20707 \end{titlepage}
20708 \else
20709 \par
20710 \@tempcnta=%
20711 #1%
20712 \relax\ifnum\@tempcnta=1\else
20713 \ClassWarning{\KOMAClassName}{%

```



```

20714     Optional argument of \string\maketitle\space ignored\MessageBreak
20715     in `titlepage=false' mode%
20716   }%
20717 \fi
20718 \ifx\@uppertitleback\@empty\else
20719   \ClassWarning{\KOMAClassName}{%
20720     non empty \string\uppertitleback\space ignored
20721     by \string\maketitle\MessageBreak
20722     in `titlepage=false' mode%
20723   }%
20724 \fi
20725 \ifx\@lowertitleback\@empty\else
20726   \ClassWarning{\KOMAClassName}{%
20727     non empty \string\lowertitleback\space ignored
20728     by \string\maketitle\MessageBreak
20729     in `titlepage=false' mode%
20730   }%
20731 \fi
20732 \begingroup
20733   \let\titlepage@restore\relax
20734   \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
20735   \let\@oldmakefnmark\@makefnmark
20736   \renewcommand*{\@makefnmark}{\rlap\@oldmakefnmark}%
20737   \next@tdpage
20738   \if@twocolumn
20739     \ifnum \col@number=\@one
20740       \ifx\@extratitle\@empty
20741         \ifx\@frontispiece\@empty\else\if@twoside\mbox{}\fi\fi
20742       \else
20743         \@makeextratitle
20744       \fi
20745       \ifx\@frontispiece\@empty
20746         \ifx\@extratitle\@empty\else\next@tdpage\fi
20747       \else
20748         \next@tpage
20749         \@makefrontispiece
20750         \next@tdpage
20751       \fi
20752       \@maketitle
20753     \else
20754       \ifx\@extratitle\@empty
20755         \ifx\@frontispiece\@empty\else\if@twoside\mbox{}\fi\fi
20756       \else
20757         \twocolumn[\@makeextratitle]%
20758       \fi
20759       \ifx\@frontispiece\@empty
20760         \ifx\@extratitle\@empty\else\next@tdpage\fi
20761       \else
20762         \next@tpage
20763         \twocolumn[\@makefrontispiece]%
20764         \next@tdpage
20765       \fi
20766       \twocolumn[\@maketitle]%
20767 \fi

```



```

20768 \else
20769 \ifx\@extratitle\@empty
20770 \ifx\@frontispiece\@empty\else \mbox{}\fi
20771 \else
20772 \@makeextratitle
20773 \fi
20774 \ifx\@frontispiece\@empty
20775 \ifx\@extratitle\@empty\else\next@tdpage\fi
20776 \else
20777 \next@tpage
20778 \@makefrontispiece
20779 \next@tdpage
20780 \fi
20781 \@maketitle
20782 \fi
20783 \ifx\titlepagestyle\@empty\else\thispagestyle{\titlepagestyle}\fi
20784 \@thanks\global\let\@thanks\@empty
20785 \endgroup
20786 \fi
20787 \setcounter{footnote}{0}%
20788 \expandafter\ifnum \csname scr@v@3.12\endcsname>\scr@compatibility\relax
20789 \let\thanks\relax
20790 \let\LTRthanks\relax
20791 \let\RTLthanks\relax
20792 \let\maketitle\relax
20793 \let\@maketitle\relax
20794 \global\let\@thanks\@empty
20795 \global\let\@author\@empty
20796 \global\let\@date\@empty
20797 \global\let\@title\@empty
20798 \global\let\@subtitle\@empty
20799 \global\let\@extratitle\@empty
20800 \global\let\@frontispiece\@empty
20801 \global\let\@titlehead\@empty
20802 \global\let\@subject\@empty
20803 \global\let\@publishers\@empty
20804 \global\let\@uppertitleback\@empty
20805 \global\let\@lowertitleback\@empty
20806 \global\let\@dedication\@empty
20807 \global\let\author\relax
20808 \global\let\title\relax
20809 \global\let\extratitle\relax
20810 \global\let\titlehead\relax
20811 \global\let\subject\relax
20812 \global\let\publishers\relax
20813 \global\let\uppertitleback\relax
20814 \global\let\lowertitleback\relax
20815 \global\let\dedication\relax
20816 \global\let\date\relax
20817 \fi
20818 \global\let\and\relax
20819 }%
20820 \def\raggedsection{\if@RTL\raggedleft\else\raggedright\fi}
20821 \renewcommand*\autodot{\if@altsecnumformat\@SepMark\fi}

```



```

20822 \renewcommand*\thesection{%
20823   \thechapter\@SepMark%
20824   \@arabic\c@section
20825 }
20826 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
20827 \renewcommand*\thesubsubsection{%
20828   \thesubsection\@SepMark\@arabic\c@subsubsection
20829 }
20830 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
20831 \renewcommand*\thesubparagraph{%
20832   \theparagraph\@SepMark\@arabic\c@subparagraph
20833 }
20834 \expandafter\ifnum\scr@v@is@le{2.97d}%
20835   \renewcommand*\thefigure{\thechapter\@SepMark\@arabic\c@figure}
20836 \fi
20837 \expandafter\ifnum\scr@v@is@le{2.97d}%
20838   \renewcommand*\thetable{\thechapter\@SepMark\@arabic\c@table}
20839 \fi
20840 \renewcommand*\theequation{%
20841   \thechapter\@SepMark%
20842   \@arabic\c@equation
20843 }
20844 \renewenvironment{thebibliography}[1]{%
20845   \if@bib@break@
20846     \bib@beginhook
20847   \else
20848     \ifx\bibpreamble\relax\else\ifx\bibpreamble\@empty\else
20849       \setchapterpreamble{\bibpreamble}%
20850     \fi\fi
20851     \bib@heading
20852     \bib@beginhook
20853     \bib@before@hook
20854   \fi
20855   \renewcommand{\BreakBibliography}[1]{%
20856     \@bib@break
20857     \end{thebibliography}%
20858     \begingroup ##1\endgroup
20859     \begin{thebibliography}{#1}
20860   }%
20861   \ifRTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
20862   \bidi@thebibliography@font@hook%
20863   \list{%
20864     \@biblabel{\@arabic\c@enumiv}%
20865   }{%
20866     \settowidth\labelwidth{\@biblabel{#1}}%
20867     \leftmargin\labelwidth
20868     \advance\leftmargin\labelsep
20869     \@openbib@code
20870     \if@bib@break@
20871       \edef\@tempa{%
20872         \noexpand\usecounter{enumiv}%
20873         \noexpand\setcounter{enumiv}{\the\c@enumiv}%
20874       }\@tempa
20875     \no@bib@break

```



```

20876 \else
20877 \usecounter{enumiv}%
20878 \fi
20879 \let\p@enumiv\@empty
20880 \renewcommand*\theenumiv{\@arabic\c@enumiv}%
20881 }%
20882 \sloppy\clubpenalty4000 \widowpenalty4000
20883 \sfcode`\.\=\@m
20884 }{%
20885 \if@bib@break@
20886 \def\@noitemerr{%
20887 \@latex@warning{%
20888 \string\BreakBibliography\space at begin of `thebibliography'
20889 environment\MessageBreak
20890 or following \string\BreakBibliography}%
20891 }%
20892 \else
20893 \def\@noitemerr{%
20894 \@latex@warning{%
20895 Empty `thebibliography' environment or
20896 \string\BreakBibliography\MessageBreak
20897 before end of `thebibliography' environment}%
20898 }%
20899 \fi
20900 \endlist
20901 \if@bib@break@
20902 \else
20903 \bib@after@hook
20904 \let\bib@before@hook\@empty
20905 \let\bib@after@hook\@empty
20906 \fi
20907 \bib@endhook
20908 }
20909 \renewcommand*\{\raggeddictum}\{\if@RTL\raggedright\else\raggedleft\fi}
20910 \renewcommand*\{\raggeddictumtext}\{\if@RTL\raggedleft\else\raggedright\fi}
20911 \renewcommand*\{\raggeddictumauthor}\{\if@RTL\raggedright\else\raggedleft\fi}
20912 \renewcommand\marginline[1]{%
20913 \marginpar[\if@RTL\raggedright\else\raggedleft\fi{#1}]{\if@RTL\raggedleft\else\raggedright
20914 }
20915 \renewcommand{\@makecaption}[3]{%
20916 \cap@margin
20917 \begingroup
20918 \ifonelinecaptions
20919 \def\stepcounter##1{\advance\value{##1}\@ne}%
20920 \let\refstepcounter\stepcounter
20921 \let\label\@gobble
20922 \let\@footnotetext=\@gobble
20923 \let\@LTRfootnotetext=\@gobble
20924 \let\@RTLfootnotetext=\@gobble
20925 \let\hypertarget\@gobbletwo
20926 \edef\@xnewline{%
20927 \unexpanded{\ClassInfo{\KOMAClassName}}{%
20928 Workaround for not recommended usage of \string\ or\MessageBreak
20929 \string\newline in caption text

```



```

20930         }%
20931         \hspace*{\linewidth}\hspace{1sp}%
20932     }%
20933     \unexpanded\expandafter{\@xnewline}%
20934 }%
20935 \edef\@xcentercr{%
20936     \unexpanded{\ClassInfo{\KOMAClassName}{%
20937         Workaround for not recommended usage of \string\\ or\MessageBreak
20938         \string\newline in caption text
20939     }}%
20940     \hspace*{\linewidth}\hspace{1sp}%
20941 }%
20942 \unexpanded\expandafter{\@xcentercr}%
20943 }%
20944 \settowidth{\@tempdima}{\scr@makesinglelinecaption{#1}{#2}{#3}}%
20945 \ifdim\@tempdima>\cap@width
20946     \aftergroup\scr@makemultilinecaption
20947 \else
20948     \aftergroup\scr@makesinglelinecaption
20949 \fi
20950 \else
20951     \aftergroup\scr@makemultilinecaption
20952 \fi
20953 \endgroup
20954 {#1}{#2}{#3}%
20955 }
20956 \renewcommand{\scr@makesinglelinecaption}[3]{%
20957     {%
20958         \usefontofkomafont{caption}{%
20959             \hb@xt@{\hsize{%
20960                 \cap@left
20961                 \if@RTL
20962                     \beginR
20963                     \fi
20964                 \scr@makesinglelinecaption{#1}{#2}{#3}%
20965                 \if@RTL
20966                     \endR
20967                 \fi
20968                 \cap@right
20969             }}\par\kern\dp\strutbox%
20970         }%
20971     }\kern-\dp\strutbox
20972 }
20973 \renewcommand{\@makecaption}[2]{%
20974     \if@captionabove
20975         \vskip\belowcaptionskip
20976     \else
20977         \vskip\abovecaptionskip
20978     \fi
20979     \@makecaption\@firstofone{#1}{#2}%
20980     \if@captionabove
20981         \vskip\abovecaptionskip
20982     \else
20983         \vskip\belowcaptionskip

```





```

20984 \fi
20985 }
20986
20987 \renewcommand{\scr@makesinglelinecaption}[3]{%
20988     {\usekomafont{caption}{\strut\ignorespaces
20989         #1{\usekomafont{captionlabel}{#2\captionformat}}}%
20990         \ignorespaces #3\unskip}}%
20991 }
20992
20993 \renewcommand{\scr@makemultilinecaption}[3]{%
20994     {%
20995         \usefontofkomafont{caption}{%
20996             \hb@xt@{hsize}{%
20997                 \cap@left
20998                 \vbox{hsize\cap@width\linewidthhsize
20999                     \scr@ifundefinedorrelax{@captype}{%
21000                         \ClassWarning{\KOMAClassName}{%
21001                             '\string\caption' outside float.\MessageBreak
21002                             Seems you are using '\string\caption' outside a
21003                             float.\MessageBreak
21004                             Maybe you are using a package that uses
21005                             '\string\@makecaption'\MessageBreak
21006                             without setting '\string\@captype' before.\MessageBreak
21007                             Because I cannot detect the caption type, I'm using\MessageBreak
21008                             the empty one.%
21009                         }%
21010                         \let\@captype\@empty
21011                     }{}%
21012                     \scr@ifundefinedorrelax{ragged\@captype}{\raggedcaption}{%
21013                         \@nameuse{ragged\@captype caption}%
21014                     }%
21015                     \ifdofullc@p
21016                         \@hangfrom{%
21017                             \strut
21018                             \scr@smashdp{%
21019                                 #1{%
21020                                     \usekomafont{caption}{%
21021                                         \usekomafont{captionlabel}{#2\captionformat}%
21022                                     }%
21023                                 }%
21024                             }%
21025                         }%
21026                         {{\usekomafont{caption}{#3\scr@endstrut}}\par}%
21027                     \else
21028                         \ifdim\cap@indent<\z@
21029                             \strut
21030                             #1{%
21031                                 {\usekomafont{caption}{%
21032                                     \usekomafont{captionlabel}{#2\captionformat}%
21033                                 }%
21034                                 }\par}%
21035                             \noindent{{\usekomafont{caption}{%
21036                                 \hspace*{-\cap@indent}#3\scr@endstrut
21037                                 }}\par}%

```



```

21038         \else
21039             \if@capbreak
21040                 \strut
21041                 #1{%
21042                     {\usekomafont{caption}{%
21043                         \usekomafont{captionlabel}{#2\captionformat}%
21044                     }%
21045                 }\par}%
21046             \noindent\@hangfrom{\hspace*{\cap@indent}}%
21047             {\{\usekomafont{caption}{#3\scr@endstrut}}\par}%
21048         \else
21049             \@hangfrom{\scr@smashdp\strut\hspace*{\cap@indent}}%
21050             {%
21051                 \hspace{-\cap@indent}%
21052                 \scr@smashdp{%
21053                     #1{\usekomafont{caption}{%
21054                         \usekomafont{captionlabel}{#2\captionformat}%
21055                     }%
21056                 }%
21057             }%
21058             {\{\usekomafont{caption}{#3\scr@endstrut}}\par}%
21059         }%
21060     \fi
21061 \fi
21062 \fi
21063 }%
21064 \cap@right
21065 }\par\kern\dp\strutbox
21066 }%
21067 }\kern-\dp\strutbox
21068 }
21069
21070
21071 \bidi@AfterFile{longtable-xetex-bidi.def}{%
21072     \if@komalongtable
21073         \renewcommand{\LT@makecaption}[3]{%
21074             \noalign{%
21075                 \if@captionabove
21076                     \vskip\belowcaptionskip
21077                 \else
21078                     \vskip\abovecaptionskip
21079                 \fi
21080             }%
21081             \LT@mcol\LT@cols c{%
21082                 \hbox to\z@{\hss\parbox[t]{\linewidth}{%
21083                     \def\@capytype{table}%
21084                     \@@makecaption{#1}{#2}{#3}%
21085                     \endgraf
21086                     \if@captionabove
21087                         \vskip\abovecaptionskip
21088                     \else
21089                         \vskip\belowcaptionskip
21090                     \fi
21091                 }%

```



```

21092         \hss
21093     }%
21094 }%
21095 }%
21096 \renewcommand*{\scr@LT@array}{}%
21097 \let\scr@LT@array=\LT@array
21098 \renewcommand*{\LT@array}{%
21099     \let\scr@caption=\LT@caption
21100     \def\captionabove{\noalign{\global\@captionabovetrue}%
21101         \scr@caption}%
21102     \def\captionbelow{\noalign{\global\@captionabovetrue}%
21103         \scr@caption}%
21104     \if@tablecaptionabove
21105         \let\LT@caption=\captionabove
21106     \else
21107         \let\LT@caption=\captionbelow
21108     \fi
21109     \scr@LT@array
21110 }%
21111 \ClassInfo{\KOMAClassName}{%
21112     longtable captions redefined%
21113 }%
21114 \fi
21115 }
21116
21117 \CloneTOCEntryStyle{tocline}{part}
21118 \TOCEntryStyleStartInitCode{part}{%
21119     \expandafter\renewcommand%
21120     \csname scr@tso@#1@linefill\endcsname{\hfill}%
21121     \expandafter\renewcommand%
21122     \csname scr@tso@#1@entryformat\endcsname[1]{\usekomafont{partentry}{##1}}%
21123     \expandafter\renewcommand%
21124     \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
21125         {\usekomafont{partentry}{\usekomafont{partentrypagenumber}{##1}}}%
21126     \expandafter\renewcommand\expandafter*%
21127     \csname scr@tso@#1@beforeskip\endcsname{2.25em \@plus\p}%
21128 }
21129
21130 \CloneTOCEntryStyle{tocline}{chapter}
21131 \TOCEntryStyleStartInitCode{chapter}{%
21132     \expandafter\renewcommand%
21133     \csname scr@tso@#1@linefill\endcsname{%
21134         \if@chapterentrywithdots
21135             {\usekomafont{chapterentrydots}{\TOCLineLeaderFill}}\relax
21136         \else
21137             \hfill
21138         \fi
21139     }%
21140     \expandafter\renewcommand%
21141     \csname scr@tso@#1@entryformat\endcsname{\usekomafont{chapterentry}}%
21142     \expandafter\renewcommand%
21143     \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
21144         {\usekomafont{chapterentry}{\usekomafont{chapterentrypagenumber}{##1}}}%
21145     \expandafter\renewcommand\expandafter*%

```



```

21146 \csname scr@tso@#1@beforeskip\endcsname{1.0em \@plus\p@}%
21147 }
21148
21149 \CloneTOCEntryStyle{tocline}{section}
21150 \TOCEntryStyleStartInitCode{section}{%
21151 \expandafter\renewcommand%
21152 \csname scr@tso@#1@linefill\endcsname{\TOCLineLeaderFill\relax}%
21153 \expandafter\renewcommand%
21154 \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
21155 {\normalfont\normalcolor ##1}}%
21156 }
21157
21158 \CloneTOCEntryStyle{section}{default}
21159
21160 \DeclareSectionCommand[%
21161 style=chapter,%
21162 level=\z@,%
21163 pagestyle=plain,%
21164 tocstyle=chapter,%
21165 tocindent=\z@,%
21166 tocnumwidth=1.5em%
21167 ]{chapter}
21168 \DeclareSectionCommand[%
21169 style=section,%
21170 level=1,%
21171 indent=\z@,%
21172 beforeskip=-3.5ex \@plus -1ex \@minus -.2ex,%
21173 afterskip=2.3ex \@plus .2ex,%
21174 tocstyle=section,%
21175 tocindentfollows=chapter,%
21176 tocindent=1.5em,%
21177 tocnumwidth=2.3em%
21178 ]{section}
21179 \DeclareSectionCommand[%
21180 style=part,%
21181 level=\m@ne,%
21182 pagestyle=plain,%
21183 tocstyle=part,%
21184 toclevel=\m@ne,%
21185 tocindent=\z@,%
21186 tocnumwidth=2em%
21187 ]{part}
21188 \DeclareSectionCommand[%
21189 style=section,%
21190 level=2,%
21191 indent=\z@,%
21192 beforeskip=-3.25ex\@plus -1ex \@minus -.2ex,%
21193 afterskip=1.5ex \@plus .2ex,%
21194 tocstyle=section,%
21195 tocindent=3.8em,%
21196 tocnumwidth=3.2em%
21197 ]{subsection}
21198 \DeclareSectionCommand[%
21199 style=section,%

```



```

21200 level=3,%
21201 indent=\z@,%
21202 beforeskip=-3.25ex\@plus -1ex \@minus -.2ex,%
21203 afterskip=1.5ex \@plus .2ex,%
21204 tocstyle=section,%
21205 tocindent=7.0em,%
21206 tocnumwidth=4.1em%
21207 ]{subsubsection}
21208 \DeclareSectionCommand[%
21209 style=section,%
21210 level=4,%
21211 indent=\z@,%
21212 beforeskip=3.25ex \@plus1ex \@minus .2ex,%
21213 afterskip=-1em,%
21214 tocindentfollows=subsubsection,%
21215 tocstyle=section,%
21216 tocindent=10em,%
21217 tocnumwidth=5em%
21218 ]{paragraph}
21219 \DeclareSectionCommand[%
21220 style=section,%
21221 level=5,%
21222 indent=\scr@parindent,%
21223 beforeskip=3.25ex \@plus1ex \@minus .2ex,%
21224 afterskip=-1em,%
21225 tocstyle=section,%
21226 tocindent=12em,%
21227 tocnumwidth=6em%
21228 ]{subparagraph}

```

## 135 File sidecap-xetex-bidi.def

```

21229 \ProvidesFile{sidecap-xetex-bidi.def}[2010/08/01 v0.1 bidi adaptations for sidecap package f
21230 \renewcommand*{\SC@FLOAT}[2]{\if@RTL%
21231 \isSC@ODD{#1}\hspace{\sidecaptionsep}{#2}} {{#2}\hspace{\sidecaptionsep}{#1}}\else%
21232 \isSC@ODD{#2}\hspace{\sidecaptionsep}{#1}} {{#1}\hspace{\sidecaptionsep}{#2}}\fi}
21233 \renewcommand*{\SC@justify@caption}{\if@RTL%
21234 \isSC@ODD{\RaggedLeft}{\RaggedRight}\else%
21235 \isSC@ODD{\RaggedRight}{\RaggedLeft}\fi}

```

## 136 File soul-xetex-bidi.def

```

21236 \ProvidesFile{soul-xetex-bidi.def}[2015/10/16 v0.1 bidi adaptations for soul package for XeT
21237 \long\def\SOUL@start#1{%
21238 \let\bid@RTL@everypar\@empty
21239 \let\<\SOUL@lowerthan
21240 \let\>\empty
21241 \def\soulomit{\noexpand\soulomit}%
21242 \gdef\SOUL@eventuallyexhyphen##1{%
21243 \let\SOUL@soeventuallyskip\relax
21244 \SOUL@spaceskip=\fontdimen\tw@\font\@plus\fontdimen\thr@@\font
21245 \@minus\fontdimen4\font
21246 \SOUL@ignorespacesfalse
21247 \leavevmode

```



```

21248 \SOUL@preamble
21249 \SOUL@lasttoken={} %
21250 \SOUL@word={} %
21251 \SOUL@minus\z@
21252 \SOUL@comma\z@
21253 \SOUL@apo\z@
21254 \SOUL@grave\z@
21255 \SOUL@do{#1} %
21256 \SOUL@postamble
21257 } }
21258 \def\SOUL@ulunderline#1{ %
21259 \setbox\z@\hbox{#1} %
21260 \dimen@=\wd\z@
21261 \dimen@i=\SOUL@uloverlap
21262 \advance\dimen@2\dimen@i
21263 \if@RTL
21264 \unhcopy\z@
21265 \llap{ %
21266 \null
21267 \kern-\dimen@i
21268 \SOUL@ulcolor{\SOUL@ulleaders\hskip\dimen@} %
21269 } %
21270 \else
21271 \rlap{ %
21272 \null
21273 \kern-\dimen@i
21274 \SOUL@ulcolor{\SOUL@ulleaders\hskip\dimen@} %
21275 } %
21276 \unhcopy\z@
21277 \fi
21278 } }
21279 \def\SOUL@ulleaders{ %
21280 \leaders\hbxt{0.1pt}{\hss\SOUL@ulcolor{\vrule\@depth\SOUL@uldp\@height\SOUL@ulht}\hss}\r
21281 }
21282 \def\SOUL@uleveryspace#1{ %
21283 \if@RTL
21284 #1 %
21285 \SOUL@ulleaders
21286 \hskip\spaceskip
21287 \else
21288 \SOUL@ulcolor{ %
21289 #1 %
21290 \SOUL@ulleaders
21291 \hskip\spaceskip
21292 } %
21293 \fi
21294 \null
21295 }

```

## 137 File stabular-xetex-bidi.def

```

21296 \ProvidesFile{stabular-xetex-bidi.def}[2015/11/07 v0.3 bidi adaptations for stabular package]
21297 \def\@stabular{ %
21298 \leavevmode \bgroup \if@RTLtab\beginR \fi

```



```

21299 \let\@acol\@tabacol
21300 \let\@classz\@tabclassz
21301 \let\@classiv\@tabclassiv \let\\\@tabularcr\@stabarray}
21302 \def\endstabular{\crr\egroup\if@RTLtab\egroup\endR\egroup\fi
21303 \egroup \if@RTLtab\endR\fi\egroup}
21304 \expandafter \let \csname endstabular*\endcsname = \endstabular
21305 \def\@sarray[#1]#2{%
21306 \bgroup
21307 \setbox\@arstrutbox\hbox{%
21308 \vrule \@height\arraystretch\ht\strutbox
21309 \@depth\arraystretch\dp\strutbox
21310 \@width\z@}%
21311 \mkpream{#2}%
21312 \edef\@preamble{%
21313 \ialign \noexpand\@halignto
21314 \bgroup \@arstrut \@preamble \tabskip\z@skip \cr}%
21315 \let\@startpbox\@startpbox \let\@endpbox\@endpbox
21316 \let\@tabularnewline\\%
21317 \let\@sharp##%
21318 \set@typeset@protect
21319 \lineskip\z@skip\baselineskip\z@skip
21320 \if@RTLtab\hbox\bgroup\beginR\@hboxRconstructtrue\if #1t\top \else \vbox \fi\bgroup\fi
21321 \@preamble}

```

## 138 File subfigure-xetex-bidi.def

```

21322 \ProvidesFile{subfigure-xetex-bidi.def}[2010/03/01 v0.1 bidi adaptations for subfigure packa
21323 \AtBeginDocument{%
21324 \let\p@subfigure=\thefigure
21325 \let\p@subtable=\thetable%
21326 }

```

## 139 File tabs-xetex-bidi.def

```

21327 \ProvidesFile{tabs-xetex-bidi.def}[2015/11/07 v0.3 bidi adaptations for tabs package for X
21328 \def\endtabular{\endarray $\if@RTLtab\endR\fi\egroup}
21329
21330 \expandafter\let\csname endtabular*\endcsname=\endtabular
21331
21332 \def\endarray{\ifvmode\csname crr\endcsname % just do \crr if \ given
21333 \else \[\z@ \global\advance\@arstdepth-\@otarlinesep]%
21334 \fi\egroup\if@RTLtab\egroup\endR\egroup\fi\@unrecurse\egroup}
21335
21336 \def\@array[#1]#2{% remember global variables to allow recursion:
21337 \edef\@unrecurse{\global\@skip@bove\the\@skip@bove
21338 \global\@arstheight\the\@arstheight\global\@arstdepth\the\@arstdepth}%
21339 \let\@otarlinesep\@tarlinesep \global\@skip@bove-\@otarlinesep
21340 \ifx\@classz\@arrayclassz \let\@tarlinesep\arraylinesep
21341 \else \let\@tarlinesep\tablinesep \fi
21342 \divide\@tarlinesep\tw@ % half sep is applied to height & depth
21343 \let\@seesize\relax \let\@rememsize\relax \mkpream{#2}%
21344 \@tempdima\arraystretch\ht\strutbox \@tempdimb\arraystretch\dp\strutbox
21345 \ifdim\@tarlinesep>\z@ % (need \protect for \multicolumn)
21346 \def\@rememsize{\protect\@r@m@msize}\let\@seesize\@s@@size

```



```

21347 \advance\@tempdima-\@tarlinesep \advance\@tempdimb-\@tarlinesep
21348 \fi \setbox\@arstrutbox\hbox{% set up smaller strut
21349 \vrule \@height\@tempdima \@depth\@tempdimb \@width\z@}%
21350 \let\protect\noexpand
21351 \edef\@preamble{\ialign \noexpand\@halignto \bgroup
21352 \unhcopy\@arstrutbox \@preamble \tabskip\z@skip &\@sharp \cr}%
21353 \let\@startpbox\@startpbox \let\@endpbox\@endpbox
21354 \if#1t\top \else \if#1b\box \else \vcenter \fi\fi
21355 \bgroup \let\par\@empty
21356 \global\@arstheight\ht\@arstrutbox \global\@arstdepth\dp\@arstrutbox
21357 \advance\extrarulesep.5\arrayrulewidth
21358 \let\@sharp##\let\protect\relax \lineskip\z@skip \baselineskip\z@skip
21359 \ifRTLtab\hbox\bgroup\beginR\@hboxRconstructtrue\if#1t\top \else \vbox \fi\bgroup\fi
21360 \@preamble}

```

## 140 File tabularx-xetex-bidi.def

```

21361 \ProvidesFile{tabularx-xetex-bidi.def}[2014/11/08 v0.1 bidi adaptations for tabularx package]
21362 \def\TX@endtabularx{%
21363 \expandafter\expandafter\expandafter
21364 \TX@find@endtabularxa\csname end\TX@\endcsname
21365 \endtabularx\TX@\endtabularx\TX@find@endtabularxa
21366 \expandafter\TX@newcol\expandafter{\tabularxcolumn{\TX@col@width}}}%
21367 \let\verb\TX@verb
21368 \def\@elt##1{\global\value{##1}\the\value{##1}\relax}%
21369 \edef\TX@ckpt{\cl@ckpt}%
21370 \let\@elt\relax
21371 \TX@old@table\maxdimen
21372 \TX@col@width\TX@target
21373 \global\TX@cols\@one
21374 \TX@typeout@
21375 {\@spaces Table Width\@spaces Column Width\@spaces X Columns}%
21376 \TX@trial{\def\NC@rewriteX{%
21377 \global\advance\TX@cols\@one\NC@find p{\TX@col@width}}}%
21378 \loop
21379 \TX@arith
21380 \ifTX@
21381 \TX@trial}%
21382 \repeat
21383 {\let\@footnotetext\TX@fnttext\let\@xfootnotenext\TX@xftntext
21384 \let\@LTRfootnotetext\TX@LTRfnttext\let\@xLTRfootnotenext\TX@xLTRfnttext
21385 \let\@RTLfootnotetext\TX@RTLfnttext\let\@xRTLfootnotenext\TX@xRTLfnttext
21386 \csname tabular*\expandafter\endcsname\expandafter\TX@target
21387 \the\toks@
21388 \csname endtabular*\endcsname}%
21389 \global\TX@ftn\expandafter{\expandafter}\the\TX@ftn
21390 \ifnum0=\@fi}%
21391 \expandafter\expandafter\expandafter
21392 \TX@find@endtabularxbb
21393 \expandafter\end\expandafter{\TX@}%
21394 \endtabularx\TX@\endtabularx\TX@find@endtabularxb
21395 }
21396
21397 \def\TX@trial#1{%

```





```

21398 \setbox\@tempboxa\hbox{%
21399   #1\relax
21400 \let\@footnotetext\TX@trial@ftn
21401 \let\@LTRfootnotetext\TX@trial@ftn
21402 \let\@RTLfootnotetext\TX@trial@ftn
21403 \let\TX@vwarn\@empty
21404 \expandafter\let\expandafter\tabularx\csname tabular*\endcsname
21405 \expandafter\let\expandafter\endtabularx\csname endtabular*\endcsname
21406 \def\write{\begingroup
21407   \def\let{\afterassignment\endgroup\toks@}%
21408   \afterassignment\let\count@}%
21409   \hbadness\@M
21410   \hfuzz\maxdimen
21411   \let\hbadness\@tempcnta
21412   \let\hfuzz\@tempdima
21413   \expandafter\tabular\the\toks@
21414   \endtabular}%
21415 \TX@ckpt
21416 \TX@typeout@{\@spaces
21417   \expandafter\TX@align
21418   \the\wd\@tempboxa\space\space\space\space\space\@@
21419   \expandafter\TX@align
21420   \the\TX@col@width\space\space\space\space\space\@@
21421   \@spaces\the\TX@cols}}
21422
21423 \long\def\TX@LTRftntext#1{%
21424   \edef\@tempa{\the\TX@ftn\noexpand\LTRfootnotetext
21425     [\the\csname c@\@mpfn\endcsname]}%
21426   \global\TX@ftn\expandafter{\@tempa{#1}}}%
21427 \long\def\TX@xLTRftntext[#1]#2{%
21428   \global\TX@ftn\expandafter{\the\TX@ftn\LTRfootnotetext[#1]{#2}}}
21429
21430 \long\def\TX@RTLftntext#1{%
21431   \edef\@tempa{\the\TX@ftn\noexpand\RTLfootnotetext
21432     [\the\csname c@\@mpfn\endcsname]}%
21433   \global\TX@ftn\expandafter{\@tempa{#1}}}%
21434 \long\def\TX@xRTLftntext[#1]#2{%
21435   \global\TX@ftn\expandafter{\the\TX@ftn\RTLfootnotetext[#1]{#2}}}

```

## 141 File tabulary-xetex-bidi.def

```

21436 \ProvidesFile{tabulary-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for tabulary package]
21437 \def\@testpach{\@chclass
21438   \ifnum \@lastchclass=6 \one \@chnum \one \else
21439   \ifnum \@lastchclass=7 5 \else
21440   \ifnum \@lastchclass=8 \tw@ \else
21441   \ifnum \@lastchclass=9 \thr@@
21442   \else \z@
21443   \ifnum \@lastchclass = 10 \else
21444   \edef\@nextchar{\expandafter\string\@nextchar}%
21445   \@chnum
21446   \if \@nextchar c\z@ \else
21447   \if \@nextchar \if@RTLtab r\else l\fi\one \else
21448   \if \@nextchar \if@RTLtab l\else r\fi\tw@ \else

```



```

21449 \if \@nextchar C7 \else
21450 \if \@nextchar L8 \else
21451 \if \@nextchar R9 \else
21452 \if \@nextchar J10 \else
21453 \z@ \@chclass
21454 \if \@nextchar |\@ne \else
21455 \if \@nextchar !6 \else
21456 \if \@nextchar @7 \else
21457 \if \@nextchar <8 \else
21458 \if \@nextchar >9 \else
21459 10
21460 \@chnum
21461 \if \@nextchar m\thr@@\else
21462 \if \@nextchar p4 \else
21463 \if \@nextchar b5 \else
21464 \z@ \@chclass \z@ \@preamerr \z@ \fi \fi \fi \fi \fi \fi \fi \fi
21465 \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi

```

## 142 File tc-xetex-bidi.def

```

21466 \ProvidesFile{tc-xetex-bidi.def}[2014/07/08 v0.1 bidi adaptations for Clipping driver for Xe
21467 \def\@cliptoboxdim#1{%
21468 \setbox#1=\hbox{%
21469 \Gin@defaultbp\WIDTH{\wd#1}%
21470 \Gin@defaultbp\DEPTH{\dp#1}%
21471 \@tempdima\ht#1%
21472 \advance\@tempdima\dp#1%
21473 \Gin@defaultbp\TOTALHEIGHT{\@tempdima}%
21474 \beginL\special{pdf:bcontent }%
21475 \special{%
21476 pdf:literal direct
21477 0 -\DEPTH\space \WIDTH\space \TOTALHEIGHT\space re
21478 }%
21479 \special{pdf:literal direct W }%
21480 \special{pdf:literal direct n }%
21481 \if@RTL\beginR\fi\box#1\if@RTL\endR\fi%
21482 \special{pdf:econtent }\endL%
21483 }%
21484 }

```

## 143 File tcolorbox-xetex-bidi.def

```

21485 \ProvidesFile{tcolorbox-xetex-bidi.def}[2018/11/11 v0.2 bidi adaptations for tcolorbox packa
21486 \let\endtcbox@lrbox=\endminipage
21487 \let\endtcbox@savebox=\endtcbox@lrbox
21488
21489 \bidi@patchcmd{\tcbox@vbox}{%
21490 \let\@footnotetext\@mpfootnotetext%
21491 }{%
21492 \let\@footnotetext\@mpfootnotetext%
21493 \let\@LTRfootnotetext\@mpLTRfootnotetext%
21494 \let\@RTLfootnotetext\@mpRTLfootnotetext%
21495 }{}{}
21496

```



```

21497 \bidi@patchcmd{\endtcbox}{\%
21498     \footnoterule%
21499 }{\%
21500     \bidi@mpfootnoterule%
21501 }{}{}
21502 \bidi@apptocmd\ tcb@icolorbox{%
21503     \@bidi@list@minipage@parboxfalse
21504 }{}{}

```

## 144 File titlesec-xetex-bidi.def

```

21505 \ProvidesFile{titlesec-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for titlesec package]
21506 \renewcommand\filright{%
21507     \gdef\ttl@filleft##1{\hskip##1}%
21508     \gdef\ttl@filright##1{\hfill}%
21509     \let\\\@centercr
21510     \advance\rightskip\z@ \@plus 1fil
21511     \parfillskip\z@}
21512 \def\ttlh@hang#1#2#3#4#5#6#7#8{%
21513     \gdef\ttl@makeline##1{\ttl@calc\hspace{#6}##1\ttl@calc\hspace{#7}}%
21514     \setlength\leftskip{#6}%
21515     \setlength\rightskip{#7}%
21516     \interlinepenalty\@M
21517     \ttl@changeparindent
21518     \ttl@beginlongest
21519     #1{\ifhmode\ttl@hmode@error\fi
21520         \ttl@glcmds
21521         \parindent\z@
21522         \leavevmode
21523         \begingroup
21524             \ifttl@label
21525                 \sbox\z@{#2\strut\ttl@calc\hspace{#3}}%
21526                 \if@RTL\advance\rightskip\wd\z@\else\advance\leftskip\wd\z@\fi
21527                 \llap{\box\z@}%
21528             \fi
21529             #4{#8}%
21530             \kern\z@\strut\@par
21531         \endgroup
21532         \nobreak\ttl@midlongest#5\@par}%
21533     \ttl@endlongest}

```

## 145 File titletoc-xetex-bidi.def

```

21534 \ProvidesFile{titletoc-xetex-bidi.def}[2013/04/10 v0.2 bidi adaptations for titletoc package]
21535 \renewcommand\filright{%
21536     \gdef\ttl@filleft##1{\hskip##1}%
21537     \gdef\ttl@filright##1{\hfill}%
21538     \let\\\@centercr
21539     \advance\rightskip\z@ \@plus 1fil
21540     \parfillskip\z@}
21541 \renewcommand\contentspush[1]{%
21542     \sbox\z@{#1}%
21543     \xdef\ttl@b{\advance\if@RTL\rightskip\else\leftskip\fi\the\wd\z@}%
21544     \aftergroup\ttl@b

```



```

21545 \leavevmode\llap{\box\z@}
21546 \def\ttl@outnoblock#1#2#3{%
21547 \begingroup
21548 \ifnum\ttl@b>\ttl@a
21549 \nobreak
21550 \else\ifnum\ttl@b<\ttl@a
21551 \addpenalty{\@secpenalty}%
21552 \else
21553 \addpenalty{\z@}%
21554 \fi\fi
21555 \ttl@contentsstretch
21556 \nobreak
21557 \ifcase#1\relax\else\interlinepenalty\@M\fi
21558 \parindent\z@
21559 \ifx\@nil#2%
21560 \PackageError{titletoc}{Unimplemented}%
21561 {The optional argument is currently mandatory}%
21562 \else
21563 \if@RTL\setlength\rightskip{#2}\else
21564 \setlength\leftskip{#2}\fi%
21565 \fi
21566 \if@RTL\setlength\leftskip{\@pnumwidth}\else\setlength\rightskip{\@pnumwidth}\fi%
21567 \let\contentsmargin\ttl@margin
21568 \def\ttl@makeline##1{##1}%
21569 #3%
21570 \addtolength{\parfillskip}{-\ttl@corr}%
21571 \if@RTL\addtolength{\leftskip}{\ttl@corr}\else\addtolength{\rightskip}{\ttl@corr}\fi%
21572 \let\ttl@leaders\leaders}
21573 \renewcommand\ttl@margin[2][\z@]{%
21574 \def\ttl@corr{#1}%
21575 \advance\if@RTL\leftskip\else\rightskip\fi-\@pnumwidth\relax
21576 \advance\if@RTL\leftskip\else\rightskip\fi#2\relax
21577 \def\@pnumwidth{#2}}
21578 \let\ttl@savel@part\l@part
21579 \def\l@part{\ttl@lselect{part}}
21580
21581 \let\ttl@savel@chapter\l@chapter
21582 \def\l@chapter{\ttl@lselect{chapter}}

```

## 146 File tocbibind-xetex-bidi.def

```

21583 \ProvidesFile{tocbibind-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for tocbibind packa
21584 \if@dotocbib
21585 \@ifpackageloaded{natbib}{}{% natbib not loaded
21586 \renewcommand{\bibsection}{\tcb@bchapsec}
21587 \renewenvironment{thebibliography}[1]{%
21588 \bibsection
21589 \begin{thebibitemlist}{#1}}{\end{thebibitemlist}}
21590 \renewenvironment{thebibitemlist}[1]{
21591 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
21592 \bidi@thebibliography@font@hook%
21593 \list{\@biblabel{\@arabic{cenumiv}}}%
21594 {\settowidth\labelwidth{\@biblabel{#1}}%
21595 \leftmargin\labelwidth

```



```

21596         \advance\leftmargin\labelsep
21597         \@openbib@code
21598         \usecounter{enumiv}%
21599         \let\p@enumiv\@empty
21600         \renewcommand\theenumiv{\@arabic\c@enumiv}}%
21601     \sloppy
21602     \clubpenalty4000
21603     \@clubpenalty \clubpenalty
21604     \widowpenalty4000%
21605     \sfcode`\.\@m}
21606 {\def\@noitemerr
21607   {\@latex@warning{Empty `thebibliography' environment}}}%
21608   \endlist}
21609
21610   \@ifpackagewith{chapterbib}{sectionbib}%
21611   {\renewcommand{\sectionbib}[2]{}}%
21612   {}
21613
21614 \fi
21615 \if@inltxdoc\else
21616   \renewenvironment{theindex}%
21617   {\if@twocolumn
21618     \@restonecolfalse
21619     \else
21620       \@restonecoltrue
21621     \fi
21622     \if@bibchapter
21623       \if@donumindex
21624         \refstepcounter{chapter}
21625         \twocolumn[\vspace*{2\topskip}%
21626           \@makechapterhead{\indexname}]]%
21627         \addcontentsline{toc}{chapter}{\protect\numberline{\thechapter}\indexname}
21628         \chaptermark{\indexname}
21629       \else
21630         \if@dotocind
21631           \twocolumn[\vspace*{2\topskip}%
21632             \@makeschapterhead{\indexname}]]%
21633           \prw@mkboth{\indexname}
21634           \addcontentsline{toc}{chapter}{\indexname}
21635         \else
21636           \twocolumn[\vspace*{2\topskip}%
21637             \@makeschapterhead{\indexname}]]%
21638           \prw@mkboth{\indexname}
21639         \fi
21640       \fi
21641     \else
21642       \if@donumindex
21643         \twocolumn[\vspace*{-1.5\topskip}%
21644           \@nameuse{\@tocextra}{\indexname}]]%
21645         \csname \@tocextra mark\endcsname{\indexname}
21646       \else
21647         \if@dotocind
21648           \twocolumn[\vspace*{-1.5\topskip}%
21649             \toc@headstar{\@tocextra}{\indexname}]]%

```



```

21650         \prw@mkboth{\indexname}
21651         \addcontentsline{toc}{\@tocextra}{\indexname}
21652     \else
21653         \twocolumn[\vspace*{-1.5\topskip}%
21654             \toc@headstar{\@tocextra}{\indexname}]]%
21655         \prw@mkboth{\indexname}
21656     \fi
21657 \fi
21658 \fi
21659 \thispagestyle{plain}\parindent\z@
21660 \parskip\z@ \@plus .3\p@\relax
21661 \let\item\@idxitem}
21662 {\if@restonecol\onecolumn\else\clearpage\fi}
21663 \fi

```

## 147 File tocloft-xetex-bidi.def

```

21664 \ProvidesFile{tocloft-xetex-bidi.def}[2010/07/25 v0.2 bidi adaptations for tocloft package f
21665 \let\cftdot\@SepMark
21666 \ifcfthaspart
21667 \renewcommand*{\l@part}[2]{
21668     \@cftdopartfalse
21669     \ifnum \c@tocdepth >-2\relax
21670         \ifcfthaschapter
21671             \@cftdoparttrue
21672         \fi
21673         \ifnum \c@tocdepth >\m@ne
21674             \ifcfthaschapter\else
21675                 \@cftdoparttrue
21676             \fi
21677         \fi
21678     \fi
21679     \if@cftdopart
21680         \ifcfthaschapter
21681             \addpenalty{-\@highpenalty}
21682         \else
21683             \addpenalty\@secpenalty
21684         \fi
21685         \addvspace{\cftbeforepartskip}
21686         \begingroup
21687             {\if@RTL\rightskip\else\leftskip\fi \cftpartindent\relax
21688             \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
21689             \parfillskip -\if@RTL\leftskip\else\rightskip\fi
21690             \parindent \cftpartindent\relax\@afterindenttrue
21691             \interlinepenalty\@M
21692             \leavevmode
21693             \@tempdima \cftpartnumwidth\relax
21694             \let\@cftbsnum \cftpartpresnum
21695             \let\@cftasnum \cftpartaftersnum
21696             \let\@cftasnumb \cftpartaftersnumb
21697             \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\ri
21698             {\cftpartfont \cftpartpresnum #1}
21699             \cftpartfillnum{#2}}
21700         \nobreak

```



```

21701     \if@cfthaschapter
21702         \global\@nobreaktrue
21703         \everypar{\global\@nobreakfalse\everypar{}}
21704     \else
21705         \if@compatibility
21706             \global\@nobreaktrue
21707             \everypar{\global\@nobreakfalse\everypar{}}
21708         \fi
21709     \fi
21710 \endgroup
21711 \fi}
21712 \fi
21713 \if@cfthaschapter
21714 \renewcommand*{\l@chapter}[2]{
21715     \ifnum \c@tocdepth >\m@ne
21716         \addpenalty{-\@highpenalty}
21717         \vskip \cftbeforechapskip
21718         {\if@RTL\righskip\else\leftskip\fi \cftchapindent\relax
21719         \if@RTL\leftskip\else\righskip\fi \@tocrmarg
21720         \parfillskip -\if@RTL\leftskip\else\righskip\fi
21721         \parindent \cftchapindent\relax\@afterindenttrue
21722         \interlinepenalty\@M
21723         \leavevmode
21724         \@tempdima \cftchapnumwidth\relax
21725         \let\@cftbsnum \cftchappresnum
21726         \let\@cftasnum \cftchapaftersnum
21727         \let\@cftasnumb \cftchapaftersnumb
21728         \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
21729         {\cftchapfont #1}\nobreak
21730         \cftchapfillnum{#2}}
21731     \fi}
21732 \fi
21733 \renewcommand*{\l@section}[2]{%
21734     \ifnum \c@tocdepth >\z@
21735         \if@cfthaschapter
21736             \vskip \cftbeforesecskip
21737         \else
21738             \addpenalty\@secpenalty
21739             \addvspace{\cftbeforesecskip}
21740         \fi
21741         {\if@RTL\righskip\else\leftskip\fi \cftsecindent\relax
21742         \if@RTL\leftskip\else\righskip\fi \@tocrmarg
21743         \parfillskip -\if@RTL\leftskip\else\righskip\fi
21744         \parindent \cftsecindent\relax\@afterindenttrue
21745         \interlinepenalty\@M
21746         \leavevmode
21747         \@tempdima \cftsecnumwidth\relax
21748         \let\@cftbsnum \cftsecpresnum
21749         \let\@cftasnum \cftsecaftersnum
21750         \let\@cftasnumb \cftsecaftersnumb
21751         \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
21752         {\cftsecfont #1}\nobreak
21753         \cftsecfillnum{#2}}
21754     \fi}

```



```

21755 \renewcommand*{\l@section}[2]{%
21756   \ifnum \c@tocdepth >\@ne
21757     \vskip \cftbeforesubsecskip
21758     {\if@RTL\righskip\else\leftskip\fi \cftsubsecindent\relax
21759     \if@RTL\leftskip\else\righskip\fi \@tocrmarg
21760     \parfillskip -\if@RTL\leftskip\else\righskip\fi
21761     \parindent \cftsubsecindent\relax\@afterindenttrue
21762     \interlinepenalty\@M
21763     \leavevmode
21764     \@tempdima \cftsubsecnumwidth\relax
21765     \let\@cftbsnum \cftsubsecpresnum
21766     \let\@cftasnum \cftsubsecaftersnum
21767     \let\@cftasnumb \cftsubsecaftersnumb
21768     \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
21769     {\cftsubsecfont #1}\nobreak
21770     \cftsubsecfillnum{#2}}
21771   \fi}
21772 \renewcommand*{\l@subsubsection}[2]{%
21773   \ifnum \c@tocdepth >\tw@
21774     \vskip \cftbeforesubsubsecskip
21775     {\if@RTL\righskip\else\leftskip\fi \cftsubsubsecindent\relax
21776     \if@RTL\leftskip\else\righskip\fi \@tocrmarg
21777     \parfillskip -\if@RTL\leftskip\else\righskip\fi
21778     \parindent \cftsubsubsecindent\relax\@afterindenttrue
21779     \interlinepenalty\@M
21780     \leavevmode
21781     \@tempdima \cftsubsubsecnumwidth\relax
21782     \let\@cftbsnum \cftsubsubsecpresnum
21783     \let\@cftasnum \cftsubsubsecaftersnum
21784     \let\@cftasnumb \cftsubsubsecaftersnumb
21785     \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
21786     {\cftsubsubsecfont #1}\nobreak
21787     \cftsubsubsecfillnum{#2}}
21788   \fi}
21789 \renewcommand*{\l@paragraph}[2]{%
21790   \ifnum \c@tocdepth >3\relax
21791     \vskip \cftbeforeparaskip
21792     {\if@RTL\righskip\else\leftskip\fi \cftparindent\relax
21793     \if@RTL\leftskip\else\righskip\fi \@tocrmarg
21794     \parfillskip -\if@RTL\leftskip\else\righskip\fi
21795     \parindent \cftparindent\relax\@afterindenttrue
21796     \interlinepenalty\@M
21797     \leavevmode
21798     \@tempdima \cftparanumwidth\relax
21799     \let\@cftbsnum \cftparapresnum
21800     \let\@cftasnum \cftparaaftersnum
21801     \let\@cftasnumb \cftparaaftersnumb
21802     \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
21803     {\cftparafont #1}\nobreak
21804     \cftparafillnum{#2}}
21805   \fi}
21806 \renewcommand*{\l@subparagraph}[2]{%
21807   \ifnum \c@tocdepth >4\relax
21808     \vskip \cftbeforesubparaskip

```





```

21809 { \if@RTL\righskip\else\leftskip\fi \cftsubparaindent\relax
21810 \if@RTL\leftskip\else\righskip\fi \@tocrmarg
21811 \parfillskip -\if@RTL\leftskip\else\righskip\fi
21812 \parindent \cftsubparaindent\relax\@afterindenttrue
21813 \interlinepenalty\@M
21814 \leavevmode
21815 \@tempdima \cftsubparanumwidth\relax
21816 \let\@cftbsnum \cftsubparapresnum
21817 \let\@cftasnum \cftsubparaaftersnum
21818 \let\@cftasnumb \cftsubparaaftersnumb
21819 \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
21820 {\cftsubparafont #1}\nobreak
21821 \cftsubparafillnum{#2}}
21822 \fi}
21823 \renewcommand*\@l@figure}[2]{%
21824 \ifnum \c@lofdepth >\z@
21825 \vskip \cftbeforefigskip
21826 {\if@RTL\righskip\else\leftskip\fi \cftfigindent\relax
21827 \if@RTL\leftskip\else\righskip\fi \@tocrmarg
21828 \parfillskip -\if@RTL\leftskip\else\righskip\fi
21829 \parindent \cftfigindent\relax\@afterindenttrue
21830 \interlinepenalty\@M
21831 \leavevmode
21832 \@tempdima \cftfignumwidth\relax
21833 \let\@cftbsnum \cftfigpresnum
21834 \let\@cftasnum \cftfigaftersnum
21835 \let\@cftasnumb \cftfigaftersnumb
21836 \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
21837 {\cftfigfont #1}\nobreak
21838 \cftfigfillnum{#2}}
21839 \fi
21840 }
21841 \renewcommand*\@l@table}[2]{%
21842 \ifnum \c@lotdepth >\z@
21843 \vskip \cftbeforetabskip
21844 {\if@RTL\righskip\else\leftskip\fi \cfttabindent\relax
21845 \if@RTL\leftskip\else\righskip\fi \@tocrmarg
21846 \parfillskip -\if@RTL\leftskip\else\righskip\fi
21847 \parindent \cfttabindent\relax\@afterindenttrue
21848 \interlinepenalty\@M
21849 \leavevmode
21850 \@tempdima \cfttabnumwidth\relax
21851 \let\@cftbsnum \cfttabpresnum
21852 \let\@cftasnum \cfttabaftersnum
21853 \let\@cftasnumb \cfttabaftersnumb
21854 \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
21855 {\cfttabfont #1}\nobreak
21856 \cfttabfillnum{#2}}
21857 \fi
21858 }
21859 \renewcommand*\@cftl@subfig}{
21860 \renewcommand*\@l@subfigure}[2]{%
21861 \ifnum \c@lofdepth > \toclevel@subfigure
21862 \vskip \cftbeforesubfigskip

```



```

21863 { \if@RTL\rightskip\else\leftskip\fi \cftsubfigindent\relax
21864 \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
21865 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
21866 \parindent \cftsubfigindent\relax\@afterindenttrue
21867 \interlinepenalty\@M
21868 \leavevmode
21869 \@tempdima \cftsubfignumwidth\relax
21870 \let\@cftbsnum \cftsubfigpresnum
21871 \let\@cftasnum \cftsubfigaftersnum
21872 \let\@cftasnumb \cftsubfigaftersnumb
21873 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
21874 {\cftsubfigfont ##1}\nobreak
21875 \cftsubfigfillnum{##2}}
21876 \fi
21877 }
21878 }
21879 \renewcommand{\@cftl@subtab}{
21880 \renewcommand*{\l@subtable}[2]{%
21881 \ifnum \c@lotdepth > \toclevel@subtable
21882 \vskip \cftbeforesubtabskip
21883 {\if@RTL\rightskip\else\leftskip\fi \cftsubtabindent\relax
21884 \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
21885 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
21886 \parindent \cftsubtabindent\relax\@afterindenttrue
21887 \interlinepenalty\@M
21888 \leavevmode
21889 \@tempdima \cftsubtabnumwidth\relax
21890 \let\@cftbsnum \cftsubtabpresnum
21891 \let\@cftasnum \cftsubtabaftersnum
21892 \let\@cftasnumb \cftsubtabaftersnumb
21893 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
21894 {\cftsubtabfont ##1}\nobreak
21895 \cftsubtabfillnum{##2}}
21896 \fi
21897 }
21898 }
21899 \renewcommand{\newlistentry}[4][\@empty]{%
21900 \@ifundefined{c@#2}{% check & set the counter
21901 \ifx \@empty#1\relax
21902 \newcounter{#2}
21903 \else
21904 \@ifundefined{c@#1}{\PackageWarning{tocloft}%
21905 {#1 has no counter for use as a `within'}}
21906 \newcounter{#2}}%
21907 {\newcounter{#2}[#1}%
21908 \expandafter\edef\csname the#2\endcsname{%
21909 \expandafter\noexpand\csname the#1\endcsname\@SepMark\noexpand\arabic{#2}}}
21910 \fi
21911 \setcounter{#2}{0}
21912 }
21913 {\PackageError{tocloft}{#2 has been previously defined}{\@eha}}
21914
21915 \@namedef{1@#2}##1##2{%
21916 \ifnum \@nameuse{c@#3depth} > #4\relax

```



```

21917 \vskip \@nameuse{cftbefore#2skip}
21918 {\if@RTL\righskip\else\leftskip\fi \@nameuse{cft#2indent}\relax
21919 \if@RTL\leftskip\else\righskip\fi \@tocrmarg
21920 \parfillskip -\if@RTL\leftskip\else\righskip\fi
21921 \parindent \@nameuse{cft#2indent}\relax\@afterindenttrue
21922 \interlinepenalty\@M
21923 \leavevmode
21924 \@tempdima \@nameuse{cft#2numwidth}\relax
21925 \expandafter\let\expandafter\@cftbsnum\csname cft#2presnum\endcsname
21926 \expandafter\let\expandafter\@cftasnum\csname cft#2aftersnum\endcsname
21927 \expandafter\let\expandafter\@cftasnumb\csname cft#2aftersnumb\endcsname
21928 \advance\if@RTL\righskip\else\leftskip\fi\@tempdima \null\nobreak\hskip -\if@RTL\righ
21929 {\@nameuse{cft#2font}##1}\nobreak
21930 \@nameuse{cft#2fillnum}{##2}}
21931 \fi
21932 } % end of \l@#2
21933
21934 \expandafter\newlength\csname cftbefore#2skip\endcsname
21935 \setlength{\@nameuse{cftbefore#2skip}}{\z@ \@plus .2\p@}
21936 \expandafter\newlength\csname cft#2indent\endcsname
21937 \expandafter\newlength\csname cft#2numwidth\endcsname
21938 \ifcase #4\relax % 0
21939 \setlength{\@nameuse{cft#2indent}}{0em}
21940 \setlength{\@nameuse{cft#2numwidth}}{1.5em}
21941 \or % 1
21942 \setlength{\@nameuse{cft#2indent}}{1.5em}
21943 \setlength{\@nameuse{cft#2numwidth}}{2.3em}
21944 \or % 2
21945 \setlength{\@nameuse{cft#2indent}}{3.8em}
21946 \setlength{\@nameuse{cft#2numwidth}}{3.2em}
21947 \or % 3
21948 \setlength{\@nameuse{cft#2indent}}{7.0em}
21949 \setlength{\@nameuse{cft#2numwidth}}{4.1em}
21950 \else % anything else
21951 \setlength{\@nameuse{cft#2indent}}{10.0em}
21952 \setlength{\@nameuse{cft#2numwidth}}{5.0em}
21953 \fi
21954 \@namedef{cft#2font}{\normalfont}
21955 \@namedef{cft#2presnum}{\}
21956 \@namedef{cft#2aftersnum}{\}
21957 \@namedef{cft#2aftersnumb}{\}
21958 \@namedef{cft#2dotsep}{\cftdotsep}
21959 \@namedef{cft#2leader}{\normalfont\cftdotfill{\@nameuse{cft#2dotsep}}}
21960 \@namedef{cft#2pagefont}{\normalfont}
21961 \@namedef{cft#2afterpnum}{\}
21962 \@namedef{toclevel@#2}{#4}
21963 \@namedef{cft#2fillnum}##1{%
21964 {\@nameuse{cft#2leader}}\nobreak
21965 \hb@xt@\@pnumwidth{\hfil\@nameuse{cft#2pagefont}##1}\@nameuse{cft#2afterpnum}\par}
21966 } % end \newlistentry
21967 \renewcommand{\cftchapterprecistoc}[1]{\addtocontents{toc}{%
21968 {\if@RTL\righskip\else\leftskip\fi \cftchapindent\relax
21969 \advance\if@RTL\righskip\else\leftskip\fi \cftchapnumwidth\relax
21970 \if@RTL\leftskip\else\righskip\fi \@tocrmarg\relax

```



```
21971 \textit{#1}\protect\par}}}
```

## 148 File tocbasic-xetex-bidi.def

```
21972 \ProvidesFile{tocbasic-xetex-bidi.def}[2022/05/27 v0.4 bidi adaptations for tocbasic package]
21973 \bidiundef\scr@dte@def@l@undottedtocline
21974 \bidiundef\scr@dte@undottedtocline@init
21975 \DeclareTOCEntryStyle{undottedtocline}[{%
21976   \DefineTOCEntryLengthOption{indent}%
21977     {scr@tso@}{@indent}{entry indent}%
21978   \DefineTOCEntryLengthOption{numwidth}%
21979     {scr@tso@}{@numwidth}{entry number width}%
21980   \@ifundefined{#1tocdepth}{%
21981     \Ifstr{#1}{part}{\@namedef{#1tocdepth}{-1}}{%
21982       \Ifstr{#1}{chapter}{\@namedef{#1tocdepth}{0}}{%
21983         \Ifstr{#1}{section}{\@namedef{#1tocdepth}{1}}{%
21984           \Ifstr{#1}{subsection}{\@namedef{#1tocdepth}{2}}{%
21985             \Ifstr{#1}{subsubsection}{\@namedef{#1tocdepth}{3}}{%
21986               \Ifstr{#1}{paragraph}{\@namedef{#1tocdepth}{4}}{%
21987                 \Ifstr{#1}{subparagraph}{\@namedef{#1tocdepth}{5}}{%
21988                   \Ifstr{#1}{figure}{\@namedef{#1tocdepth}{1}}{%
21989                     \Ifstr{#1}{table}{\@namedef{#1tocdepth}{1}}{%
21990                       \expandafter\let\csname #1tocdepth\expandafter\endcsname
21991                         \csname #1numdepth\endcsname
21992                     }%
21993                   }%
21994                 }%
21995               }%
21996             }%
21997           }%
21998         }%
21999       }%
22000     }%
22001   }{%
22002     \@ifundefined{scr@tso@#1@indent}{%
22003       \@ifundefined{scr@#1@tocindent}{%
22004         \Ifstr{#1}{figure}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
22005           \Ifstr{#1}{table}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
22006             \Ifstr{#1}{part}{\@namedef{scr@tso@#1@indent}{0em}}{%
22007               \Ifstr{#1}{chapter}{\@namedef{scr@tso@#1@indent}{0em}}{%
22008                 \scr@ifundefinedorrelax{l@chapter}{%
22009                   \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{0pt}}{%
22010                     \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
22011                       \Ifstr{#1}{subsubsection}{%
22012                         \@namedef{scr@tso@#1@indent}{3.8em}%
22013                       }{%
22014                         \Ifstr{#1}{paragraph}{%
22015                           \@namedef{scr@tso@#1@indent}{7em}%
22016                         }{%
22017                           \Ifstr{#1}{subparagraph}{%
22018                             \@namedef{scr@tso@#1@indent}{10em}%
22019                           }{%
22020                             }%
22021                           }%
22022                         }%
22023                       }%
22024                     }%
22025                   }%
22026                 }%
22027               }%
22028             }%
22029           }%
22030         }%
22031       }%
22032     }%
22033   }%
22034 }
```



```

22022         }%
22023     }%
22024 }%
22025 }{%
22026     \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
22027         \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{3.8em}}{%
22028             \Ifstr{#1}{subsubsection}{%
22029                 \@namedef{scr@tso@#1@indent}{7.0em}%
22030             }{%
22031                 \Ifstr{#1}{paragraph}{%
22032                     \@namedef{scr@tso@#1@indent}{10em}%
22033                 }{%
22034                     \Ifstr{#1}{subparagraph}{%
22035                         \@namedef{scr@tso@#1@indent}{12em}%
22036                     }{%
22037                         }%
22038                     }%
22039                 }%
22040             }%
22041         }%
22042     }%
22043 }%
22044 }%
22045 }%
22046 }%
22047 }{%
22048     \@namedef{scr@tso@#1@indent}{\@nameuse{scr@#1@tocindent}}%
22049 }%
22050 }{%}%
22051 \@ifundefined{scr@tso@#1@numwidth}{%
22052     \@ifundefined{scr@#1@tocnumwidth}{%
22053         \Ifstr{#1}{figure}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
22054             \Ifstr{#1}{table}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
22055                 \Ifstr{#1}{chapter}{\@namedef{scr@tso@#1@numwidth}{1.5em}}{%
22056                     \scr@ifundefinedorrelax{chapter}{%
22057                         \Ifstr{#1}{section}{\@namedef{scr@tso@#1@numwidth}{1.5em}}{%
22058                             \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
22059                                 \Ifstr{#1}{subsubsection}{%
22060                                     \@namedef{scr@tso@#1@numwidth}{3.2em}%
22061                                 }{%
22062                                     \Ifstr{#1}{paragraph}{%
22063                                         \@namedef{scr@tso@#1@numwidth}{4.1em}%
22064                                     }{%
22065                                         \Ifstr{#1}{subparagraph}{%
22066                                             \@namedef{scr@tso@#1@numwidth}{5m}%
22067                                         }{%
22068                                             }%
22069                                         }%
22070                                     }%
22071                                 }%
22072                             }%
22073                         }%
22074                     }%
22075                 }%

```



```

22076         \Ifstr{#1}{subsubsection}{%
22077             \@namedef{scr@tso@#1@numwidth}{3.1em}%
22078         }{%
22079             \Ifstr{#1}{paragraph}{%
22080                 \@namedef{scr@tso@#1@numwidth}{5em}%
22081             }{%
22082                 \Ifstr{#1}{subparagraph}{%
22083                     \@namedef{scr@tso@#1@numwidth}{6em}%
22084                 }{%
22085                     }%
22086                 }%
22087             }%
22088         }%
22089     }%
22090 }%
22091 }%
22092 }%
22093 }%
22094 }{%
22095     \@namedef{scr@tso@#1@numwidth}{\@nameuse{scr@#1@tocnumwidth}}%
22096 }%
22097 }{}%
22098 }]{%
22099     \ifnum \c@tocdepth >\numexpr \@nameuse{#1tocdepth}-\@ne\relax
22100         \ifnum \@nameuse{#1tocdepth}<\@ne
22101             \scr@ifundefinedorrelax{chapter}{%
22102                 \addpenalty\@secpenalty
22103                 \addvspace{1.0em \@plus\p@}%
22104             }{%
22105                 \addpenalty{-\@highpenalty}%
22106                 \vskip 1.0em \@plus\p@
22107             }%
22108         \else
22109             \addpenalty\@secpenalty
22110             \addvspace{1.0em \@plus\p@}%
22111         \fi
22112         \setlength\@tempdima{\@nameuse{scr@tso@#1@numwidth}}%
22113         \begingroup
22114             \parindent \z@ \bidi@rightskip \@pnumwidth
22115             \parfillskip -\@pnumwidth
22116             \leavevmode
22117             \bfseries
22118             \advance\bidi@leftskip\@tempdima
22119             \Iftocfeature{\@current}{noindent}{%
22120                 \hskip -\bidi@leftskip
22121             }{%
22122                 \advance\bidi@leftskip\@nameuse{scr@tso@#1@indent}%
22123                 \hskip -\dimexpr \bidi@leftskip-\@nameuse{scr@tso@#1@indent}\relax
22124             }%
22125             ##1%
22126             \nobreak
22127             \hfil \nobreak\hb@xt@\@pnumwidth{\hss ##2}%
22128             \par
22129             \penalty\@highpenalty

```



```

22130 \endgroup
22131 \fi
22132 }
22133
22134 \bidi@undef\scr@dte@def@l@largetocline
22135 \bidi@undef\scr@dte@largetocline@init
22136 \DeclareTOCEntryStyle{largetocline}[{%
22137 \DefineTOCEntryLengthOption{indent}%
22138 {scr@tso@}{@indent}{entry indent}%
22139 \@ifundefined{#1tocdepth}{%
22140 \Ifstr{#1}{part}{\@namedef{#1tocdepth}{-1}}{%
22141 \Ifstr{#1}{chapter}{\@namedef{#1tocdepth}{0}}{%
22142 \Ifstr{#1}{section}{\@namedef{#1tocdepth}{1}}{%
22143 \Ifstr{#1}{subsection}{\@namedef{#1tocdepth}{2}}{%
22144 \Ifstr{#1}{subsubsection}{\@namedef{#1tocdepth}{3}}{%
22145 \Ifstr{#1}{paragraph}{\@namedef{#1tocdepth}{4}}{%
22146 \Ifstr{#1}{subparagraph}{\@namedef{#1tocdepth}{5}}{%
22147 \Ifstr{#1}{figure}{\@namedef{#1tocdepth}{1}}{%
22148 \Ifstr{#1}{table}{\@namedef{#1tocdepth}{1}}{%
22149 \expandafter\let\csname #1tocdepth\expandafter\endcsname
22150 \csname #1numdepth\endcsname
22151 }%
22152 }%
22153 }%
22154 }%
22155 }%
22156 }%
22157 }%
22158 }%
22159 }%
22160 }{}%
22161 \@ifundefined{scr@tso@#1@indent}{%
22162 \ifundefined{scr@#1@tocindent}{%
22163 \Ifstr{#1}{figure}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
22164 \Ifstr{#1}{table}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
22165 \Ifstr{#1}{part}{\@namedef{scr@tso@#1@indent}{0em}}{%
22166 \Ifstr{#1}{chapter}{\@namedef{scr@tso@#1@indent}{0em}}{%
22167 \scr@ifundefinedorrelax{l@chapter}{%
22168 \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{0pt}}{%
22169 \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
22170 \Ifstr{#1}{subsubsection}{%
22171 \@namedef{scr@tso@#1@indent}{3.8em}%
22172 }%
22173 \Ifstr{#1}{paragraph}{%
22174 \@namedef{scr@tso@#1@indent}{7em}%
22175 }%
22176 \Ifstr{#1}{subparagraph}{%
22177 \@namedef{scr@tso@#1@indent}{10em}%
22178 }%
22179 }%
22180 }%
22181 }%
22182 }%
22183 }%

```



```

22184         }{%
22185         \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
22186         \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{3.8em}}{%
22187         \Ifstr{#1}{subsubsection}{%
22188         \@namedef{scr@tso@#1@indent}{7.0em}%
22189         }{%
22190         \Ifstr{#1}{paragraph}{%
22191         \@namedef{scr@tso@#1@indent}{10em}%
22192         }{%
22193         \Ifstr{#1}{subparagraph}{%
22194         \@namedef{scr@tso@#1@indent}{12em}%
22195         }{%
22196         }%
22197         }%
22198         }%
22199         }%
22200         }%
22201         }%
22202         }%
22203         }%
22204         }%
22205         }%
22206     }{%
22207     \@namedef{scr@tso@#1@indent}{\@nameuse{scr@#1@tocindent}}%
22208     }%
22209     }{%
22210 }]{%
22211 \ifnum \c@tocdepth >\numexpr \@nameuse{#1tocdepth}-\@ne\relax
22212 \ifnum \@nameuse{#1tocdepth}<\@ne
22213 \scr@ifundefinedorrelax{chapter}{%
22214 \addpenalty\@secpenalty
22215 \addvspace{2.25em \@plus\p@}%
22216 }{%
22217 \addpenalty{-\@highpenalty}%
22218 \addvspace{2.25em \@plus\p@}%
22219 }%
22220 \else
22221 \addpenalty\@secpenalty
22222 \addvspace{2.25em \@plus\p@}%
22223 \fi
22224 \setlength\@tempdima{3em}%
22225 \begingroup
22226 \parindent \z@ \bidi@rightskip \@pnumwidth
22227 \parfillskip -\@pnumwidth
22228 \leavevmode
22229 \large
22230 \bfseries
22231 \Iftocfeature{\@currentx}{noindent}{%
22232 }{%
22233 \advance\bidi@leftskip\@nameuse{scr@tso@#1@indent}%
22234 }%
22235 ##1%
22236 \hfil \nobreak\hb@xt@\@pnumwidth{\hss ##2}%
22237 \par

```





```

22238 \nobreak
22239 \ifnum 0=
22240 \scr@ifundefinedorrelax{chapter}{\if@compatibility 1\else 0\fi}{1}\relax
22241 \global\@nobreaktrue
22242 \everypar{\global\@nobreakfalse\everypar{}}%
22243 \fi
22244 \endgroup
22245 \fi
22246 }
22247
22248 \renewcommand*{\scr@dte@tocline}[3]{%
22249 \ifnum \@nameuse{#1tocdepth}>\c@tocdepth
22250 \else
22251 \tocbasic@DependOnPenaltyAndTOCLevel{#1}%
22252 \addvspace{\@nameuse{scr@tso@#1beforeskip}}\relax
22253 \@nameuse{Ifscr@tso@#1dynindent}{%
22254 \expandafter\ifx\csname scr@tso@#1indentfollows\endcsname\@empty
22255 \PackageWarning{tocbasic}{`dynindent' for `#1' not available}%
22256 \else
22257 \edef\reserved@a{\@nameuse{scr@tso@#1indentfollows}}%
22258 \@for \reserved@a:=\reserved@a\do {%
22259 \scr@trim@spaces\reserved@a
22260 \ifx\reserved@a\@empty\else
22261 \scr@ifundefinedorrelax{\reserved@a tocdepth}{%
22262 }{%
22263 \ifnum \@nameuse{\reserved@a tocdepth}<\@nameuse{#1tocdepth}%
22264 \@tempdima\@nameuse{scr@tso@\reserved@a @indent}\relax
22265 \@nameuse{Ifscr@tso@\reserved@a @dynnumwidth}{%
22266 \scr@ifundefinedorrelax
22267 {scr@dte@\reserved@a @lastmaxnumwidth}{%
22268 \advance\@tempdima
22269 \@nameuse{scr@tso@\reserved@a @numwidth}\relax
22270 }{%
22271 \advance\@tempdima
22272 \@nameuse{scr@dte@\reserved@a @lastmaxnumwidth}\relax
22273 }%
22274 }{%
22275 \advance\@tempdima
22276 \@nameuse{scr@tso@\reserved@a @numwidth}\relax
22277 }%
22278 \ifdim \@tempdima>\@nameuse{scr@tso@#1indent}\relax
22279 \expandafter\edef\csname scr@tso@#1indent\endcsname
22280 {\the\@tempdima}%
22281 \fi
22282 \fi
22283 }%
22284 \fi
22285 }%
22286 \fi
22287 }{}%
22288 {%
22289 \Iftocfeature{\@currentx}{noindent}{%
22290 \bidi@leftskip \z@
22291 }{%

```



```

22292      \bidi@leftskip \@nameuse{scr@tso@#1@indent}\relax
22293    }%
22294    \bidi@rightskip \@nameuse{scr@tso@#1@rightindent}\relax
22295    \parfillskip -\bidi@rightskip
22296    \@nameuse{Ifscr@tso@#1@raggedpage}{%
22297      \addtolength{\parfillskip}{\z@ \@plus 1fil}%
22298    }{}%
22299    \iftocfeature{\@currentx}{noindent}{%
22300      \parindent \z@
22301    }{%
22302      \parindent \@nameuse{scr@tso@#1@indent}\relax
22303    }%
22304    \@afterindenttrue
22305    \interlinepenalty\M
22306    \expandafter\ifx\csname ragged#1entry\endcsname\raggedright
22307      \addtolength\bidi@rightskip\@flushglue
22308    \else
22309      \def\reserved@a{\raggedright}%
22310      \expandafter\ifx\csname ragged#1entry\endcsname\reserved@a
22311        \addtolength\bidi@rightskip\@flushglue
22312      \else
22313        \renewcommand\reserved@a{\raggedright}%
22314        \expandafter\ifx\csname ragged#1entry\endcsname\reserved@a
22315          \addtolength\bidi@rightskip\@flushglue
22316        \fi
22317      \fi
22318    \fi
22319    \leavevmode
22320    \@tempdima \@nameuse{scr@tso@#1@numwidth}\relax
22321    \@nameuse{Ifscr@tso@#1@dynnumwidth}{%
22322      \scr@ifundefinedorrelax{scr@dte@#1@lastmaxnumwidth}{}%
22323      \ifdim \@nameuse{scr@dte@#1@lastmaxnumwidth}>\@tempdima
22324        \@tempdima\@nameuse{scr@dte@#1@lastmaxnumwidth}\relax
22325      \fi
22326    }%
22327  }{}%
22328  \advance\bidi@leftskip \@tempdima
22329  \null\nobreak\hskip -\bidi@leftskip
22330  {%
22331    \usetocbasicnumberline
22332    \let\scr@dte@numberline@box\numberline@box
22333    \def\numberline@box##1{%
22334      \sbox\scr@dte@tocline@numbox{\@nameuse{scr@tso@#1@numberformat}}{##1}}%
22335      \global\scr@dte@tocline@numberwidth
22336      \dimexpr\wd\scr@dte@tocline@numbox+\@nameuse{scr@tso@#1@numsep}\relax
22337    \relax
22338    \ifdim \scr@dte@tocline@numberwidth
22339      >\@nameuse{scr@dte@#1@maxnumwidth}\relax
22340      \global\@nameuse{scr@dte@#1@maxnumwidth}\scr@dte@tocline@numberwidth
22341    \fi
22342    \@nameuse{Ifscr@tso@#1@dynnumwidth}{}%
22343    \ifdim \scr@dte@tocline@numberwidth
22344      >\dimexpr \@nameuse{scr@tso@#1@numwidth}%
22345      +\@nameuse{scr@tso@#1@numsep}\relax\relax

```



```

22346 \PackageWarning{tocbasic}{%
22347   number width of #1 toc entries should be
22348   increased!\MessageBreak
22349   Currently used number width =
22350   \the\wd\scr@dte@tocline@numbox,\MessageBreak
22351   Wanted number separation
22352   \space\space\space =
22353   \the\dimexpr\@nameuse{scr@tso@#1@numsep}\relax,\MessageBreak
22354   Reserved number width \space\space\space\space\space\space =
22355   \the\dimexpr\@nameuse{scr@tso@#1@numwidth}\relax%
22356 }%
22357 \fi
22358 }%
22359 \scr@dte@numberline@box{\@nameuse{scr@tso@#1@numberformat}}{##1}}%
22360 \@nameuse{Ifscr@tso@#1@breakafternumber}}{%
22361   {\parfillskip\@flushglue\par}\nobreak\hskip-\bidi@leftskip
22362 }{}%
22363 }%
22364 {\@nameuse{scr@tso@#1@entryformat}}{%
22365   #2%
22366   \nobreak
22367   {%
22368     \normalfont\normalsize\@nameuse{scr@tso@#1@linefill}}%
22369     \nobreak
22370     \expandafter\let\expandafter\scr@dte@pagenumberwidth
22371     \csname scr@tso@#1@pagenumberwidth\endcsname
22372     \@nameuse{scr@tso@#1@pagenumberbox}}{%
22373       \@nameuse{scr@tso@#1@pagenumberformat}}{#3}%
22374   }%
22375 }%
22376 }}\@par
22377 }%
22378 }%
22379 \tocbasic@SetPenaltyByTOCLevel{#1}%
22380 \fi
22381 }
22382
22383
22384 \bidi@undef\scr@dte@def@l@tocline
22385 \bidi@undef\scr@dte@tocline@init
22386 \DeclareTOCEntryStyle{tocline}{{%
22387   \DefineTOCEntryLengthOption{beforeskip}%
22388     {scr@tso@}{@beforeskip}{vertical skip before the entry}%
22389   \DefineTOCEntryIfOption{breakafternumber}%
22390     {scr@tso@}{@breakafternumber}{line break after number flag}%
22391   \DefineTOCEntryIfOption{dynnumwidth}%
22392     {scr@tso@}{@dynnumwidth}{dynamic number width flag}%
22393   \DefineTOCEntryListOption{indentfollows}%
22394     {scr@tso@}{@indentfollows}{list of levels that define the indent}%
22395   \DefineTOCEntryIfOption{dynindent}%
22396     {scr@tso@}{@dynindent}{dynamic indent width flag}%
22397   \DefineTOCEntryCommandOption{entryformat}%
22398     {scr@tso@}{@entryformat}[1]{entry format}%
22399   \DefineTOCEntryCommandOption{entrynumberformat}%

```



```

22400 {scr@tso@}{@numberformat}[1]{entry number format}%
22401 \DefineTOCEntryCommandOption{linefill}[\TOCLineLeaderFill]%
22402 {scr@tso@}{@linefill}{filling between text and page number}%
22403 \DefineTOCEntryLengthOption{numsep}%
22404 {scr@tso@}{@numsep}{entry number separation}%
22405 \DefineTOCEntryCommandOption{onstarthigherlevel}%
22406 {scr@tso@}{@LastTOCLevelWasLower}{start higher level entry hook}%
22407 \DefineTOCEntryCommandOption{onstartlowerlevel}%
22408 {scr@tso@}{@LastTOCLevelWasHigher}{start lower level entry hook}%
22409 \DefineTOCEntryCommandOption{onstartsamelevel}%
22410 {scr@tso@}{@LastTOCLevelWasSame}{start same level entry hook}%
22411 \DefineTOCEntryCommandOption{pagenumberbox}%
22412 {scr@tso@}{@pagenumberbox}[1]{page number box}%
22413 \DefineTOCEntryCommandOption{pagenumberformat}%
22414 {scr@tso@}{@pagenumberformat}[1]{page number format}%
22415 \DefineTOCEntryLengthOption{pagenumberwidth}%
22416 {scr@tso@}{@pagenumberwidth}{width of page number box}%
22417 \DefineTOCEntryLengthOption{rightindent}%
22418 {scr@tso@}{@rightindent}{entry's text right indent}%
22419 \DefineTOCEntryOption{raggedentrytext}[true]{%
22420 \FamilySetBool{KOMAAarg}{raggedentrytext}{@tempswa}{##1}%
22421 \ifx\FamilyKeyState\FamilyKeyStateProcessed
22422 \if@tempswa
22423 \expandafter\let\csname ragged\scr@dte@current entry\endcsname
22424 \raggedright
22425 \else
22426 \expandafter\let\csname ragged\scr@dte@current entry\endcsname
22427 \relax
22428 \fi
22429 \fi
22430 }%
22431 \DefineTOCEntryIfOption{raggedpagenumber}%
22432 {scr@tso@}{@raggedpage}{page number ragged flag}%
22433 \DefineTOCEntryLengthOption{indent}%
22434 {scr@tso@}{@indent}{entry indent}%
22435 \DefineTOCEntryLengthOption{numwidth}%
22436 {scr@tso@}{@numwidth}{entry number width}%
22437 \scr@ifundefinedorrelax{#1tocdepth}{%
22438 \Ifstrstart{#1}{sub}{%
22439 \scr@ifundefinedorrelax{\scr@dte@nosub{#1}tocdepth}{%
22440 \expandafter\edef\csname #1tocdepth\endcsname{%
22441 \the\numexpr \noexpand\@nameuse{\scr@dte@nosub{#1}tocdepth}+\@ne\relax
22442 }%
22443 }%
22444 }{}%
22445 }{}%
22446 \@ifundefined{#1tocdepth}{%
22447 \Ifstr{#1}{part}{\@namedef{#1tocdepth}{-1}}{%
22448 \Ifstr{#1}{chapter}{\@namedef{#1tocdepth}{0}}{%
22449 \Ifstr{#1}{section}{\@namedef{#1tocdepth}{1}}{%
22450 \Ifstr{#1}{subsection}{\@namedef{#1tocdepth}{2}}{%
22451 \Ifstr{#1}{subsubsection}{\@namedef{#1tocdepth}{3}}{%
22452 \Ifstr{#1}{paragraph}{\@namedef{#1tocdepth}{4}}{%
22453 \Ifstr{#1}{subparagraph}{\@namedef{#1tocdepth}{5}}{%

```



```

22454         \Ifstr{#1}{figure}{\@namedef{#1tocdepth}{1}}{%
22455         \Ifstr{#1}{table}{\@namedef{#1tocdepth}{1}}{%
22456             \expandafter\let\csname #1tocdepth\expandafter\endcsname
22457             \csname #1numdepth\endcsname
22458         }%
22459     }%
22460 }%
22461 }%
22462 }%
22463 }%
22464 }%
22465 }%
22466 }%
22467 }{%
22468 \scr@ifundefinedorrelax{scr@tso@#1@indent}{%
22469     \ifundefined{scr@#1@tocindent}{%
22470         \Ifstrstart{#1}{sub}{%
22471             \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@indent}{%
22472                 \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@numwidth}{}%
22473                 \expandafter\edef\csname scr@tso@#1@indent\endcsname{%
22474                     \glueexpr \noexpand\@nameuse{scr@tso@\scr@dte@nosub{#1}@numwidth}}%
22475                 \relax
22476             }%
22477         }%
22478     }{%
22479         \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@numwidth}{%
22480             \expandafter\edef\csname scr@tso@#1@indent\endcsname{%
22481                 \glueexpr \noexpand\@nameuse{scr@tso@\scr@dte@nosub{#1}@indent}}%
22482             \relax
22483         }%
22484     }{%
22485         \expandafter\edef\csname scr@tso@#1@indent\endcsname{%
22486             \glueexpr \noexpand\@nameuse{scr@tso@\scr@dte@nosub{#1}@indent}}%
22487             +\noexpand\@nameuse{scr@tso@\scr@dte@nosub{#1}@numwidth}}%
22488         \relax
22489     }%
22490 }%
22491 }%
22492 }{%
22493 }{%
22494     \@namedef{scr@tso@#1@indent}{\@nameuse{scr@#1@tocindent}}%
22495 }%
22496 }{%
22497 \scr@ifundefinedorrelax{scr@tso@#1@pagenumberwidth}{%
22498     \Ifstrstart{#1}{sub}{%
22499         \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@pagenumberwidth}{%
22500             \@namedef{scr@tso@#1@pagenumberwidth}{\@pnumwidth}%
22501         }{%
22502             \expandafter\let
22503             \csname scr@tso@#1@pagenumberwidth\expandafter\endcsname
22504             \csname scr@tso@\scr@dte@nosub{#1}@pagenumberwidth\endcsname
22505         }%
22506     }{%
22507         \@namedef{scr@tso@#1@pagenumberwidth}{\@pnumwidth}%

```



```

22508     }%
22509   }{}%
22510   \scr@ifundefinedorrelax{scr@tso@#1@rightindent}{%
22511     \Ifstrstart{#1}{sub}{%
22512       \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@rightindent}{%
22513         \@namedef{scr@tso@#1@rightindent}{\@tocrmarg}%
22514       }{%
22515         \expandafter\let
22516         \csname scr@tso@#1@rightindent\expandafter\endcsname
22517         \csname scr@tso@\scr@dte@nosub{#1}@rightindent\endcsname
22518       }%
22519     }{%
22520       \@namedef{scr@tso@#1@rightindent}{\@tocrmarg}%
22521     }%
22522   }{}%
22523   \@ifundefined{scr@tso@#1@indent}{%
22524     \Ifstr{#1}{figure}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
22525     \Ifstr{#1}{table}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
22526     \Ifstr{#1}{part}{\@namedef{scr@tso@#1@indent}{0em}}{%
22527     \Ifstr{#1}{chapter}{\@namedef{scr@tso@#1@indent}{0em}}{%
22528     \scr@ifundefinedorrelax{l@chapter}{%
22529     \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{0pt}}{%
22530     \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
22531     \Ifstr{#1}{subsubsection}{%
22532       \@namedef{scr@tso@#1@indent}{3.8em}%
22533     }{%
22534       \Ifstr{#1}{paragraph}{%
22535         \@namedef{scr@tso@#1@indent}{7em}%
22536       }{%
22537         \Ifstr{#1}{subparagraph}{%
22538           \@namedef{scr@tso@#1@indent}{10em}%
22539         }{%
22540           }%
22541         }%
22542       }%
22543     }%
22544   }%
22545   }{}%
22546   \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
22547   \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{3.8em}}{%
22548   \Ifstr{#1}{subsubsection}{%
22549     \@namedef{scr@tso@#1@indent}{7.0em}%
22550   }{%
22551     \Ifstr{#1}{paragraph}{%
22552       \@namedef{scr@tso@#1@indent}{10em}%
22553     }{%
22554       \Ifstr{#1}{subparagraph}{%
22555         \@namedef{scr@tso@#1@indent}{12em}%
22556       }{%
22557         }%
22558       }%
22559     }%
22560   }%
22561   }{}%

```



```

22562         }%
22563     }%
22564 }%
22565 }%
22566 }%
22567 }{}%
22568 \scr@ifundefinedorrelax{scr@tso@#1@numwidth}{%
22569     \scr@ifundefinedorrelax{scr@#1@tocnumwidth}{%
22570         \Ifstrstart{#1}{sub}{%
22571             \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@numwidth}{}%
22572             \expandafter\edef\csname scr@tso@#1@numwidth\endcsname{%
22573                 \glueexpr \noexpand\@nameuse{scr@tso@\scr@dte@nosub{#1}@numwidth}%
22574                     +.9em%
22575             \relax
22576         }%
22577     }%
22578 }{}%
22579 }{%
22580     \@namedef{scr@tso@#1@numwidth}{\@nameuse{scr@#1@tocnumwidth}}%
22581 }%
22582 }{}%
22583 \@ifundefined{scr@tso@#1@numwidth}{%
22584     \Ifstr{#1}{figure}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
22585     \Ifstr{#1}{table}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
22586     \Ifstr{#1}{chapter}{\@namedef{scr@tso@#1@numwidth}{1.5em}}{%
22587     \scr@ifundefinedorrelax{chapter}{%
22588         \Ifstr{#1}{section}{\@namedef{scr@tso@#1@numwidth}{1.5em}}{%
22589         \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
22590         \Ifstr{#1}{subsubsection}{%
22591             \@namedef{scr@tso@#1@numwidth}{3.2em}%
22592         }{%
22593             \Ifstr{#1}{paragraph}{%
22594                 \@namedef{scr@tso@#1@numwidth}{4.1em}%
22595             }{%
22596                 \Ifstr{#1}{subparagraph}{%
22597                     \@namedef{scr@tso@#1@numwidth}{5m}%
22598                 }{%
22599                     }%
22600                 }%
22601             }%
22602         }%
22603     }%
22604 }{%
22605     \Ifstr{#1}{section}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
22606     \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@numwidth}{3.2em}}{%
22607     \Ifstr{#1}{subsubsection}{%
22608         \@namedef{scr@tso@#1@numwidth}{3.1em}%
22609     }{%
22610         \Ifstr{#1}{paragraph}{%
22611             \@namedef{scr@tso@#1@numwidth}{5em}%
22612         }{%
22613             \Ifstr{#1}{subparagraph}{%
22614                 \@namedef{scr@tso@#1@numwidth}{6em}%
22615             }{%

```



```

22616         }%
22617     }%
22618 }%
22619 }%
22620 }%
22621 }%
22622 }%
22623 }%
22624 }%
22625 }{}%
22626 \expandafter\renewcommand%
22627 \csname scr@tso@#1@LastTOCLevelWasLower\endcsname{\LastTOCLevelWasLower}%
22628 \expandafter\renewcommand%
22629 \csname scr@tso@#1@LastTOCLevelWasSame\endcsname{\LastTOCLevelWasSame}%
22630 \expandafter\renewcommand%
22631 \csname scr@tso@#1@LastTOCLevelWasHigher\endcsname{\LastTOCLevelWasHigher}%
22632 \@ifundefined{scr@tso@#1@beforeskip}{%
22633     \Ifstr{#1}{part}{%
22634         \@namedef{scr@tso@#1@beforeskip}{\glueexpr 2.25em \@plus\p@\relax}%
22635     }{%
22636         \Ifstr{#1}{chapter}{%
22637             \@namedef{scr@tso@#1@beforeskip}{\glueexpr 1.0em \@plus\p@\relax}%
22638         }{%
22639             \Ifstr{#1}{section}{%
22640                 \scr@ifundefinedorrelax{l@chapter}{%
22641                     \@namedef{scr@tso@#1@beforeskip}{\glueexpr 1.0em \@plus\p@\relax}%
22642                 }{}%
22643             }{}%
22644         }%
22645     }%
22646     \expandafter\renewcommand\expandafter*%
22647     \csname scr@tso@#1@beforeskip\endcsname{\glueexpr \z@ plus .2\p@\relax}%
22648 }{}%
22649 \@ifundefined{scr@dte@#1@maxnumwidth}{%
22650     \expandafter\newlength\csname scr@dte@#1@maxnumwidth\endcsname
22651     \setlength{\@nameuse{scr@dte@#1@maxnumwidth}}{\z@}%
22652 }{}%
22653 \renewcommand*{\scr@dte@donumwidth}{}%
22654 \g@addto@macro{\scr@dte@donumwidth}{\do{#1}}%
22655 \expandafter\renewcommand\expandafter*%
22656 \csname scr@tso@#1@numsep\endcsname{.4em}%
22657 \expandafter\renewcommand%
22658 \csname scr@tso@#1@numberformat\endcsname[1]{##1}%
22659 \Ifstr{#1}{part}{%
22660     \expandafter\providecommand%
22661     \csname scr@tso@#1@entryformat\endcsname[1]{\large\bfseries ##1}%
22662 }{%
22663     \Ifstr{#1}{chapter}{%
22664         \expandafter\providecommand%
22665         \csname scr@tso@#1@entryformat\endcsname[1]{\bfseries ##1}%
22666     }{%
22667         \scr@ifundefinedorrelax{l@chapter}{%
22668             \Ifstr{#1}{section}{%
22669                 \expandafter\providecommand%

```





```

22670         \csname scr@tso@#1@entryformat\endcsname[1]{\bfseries ##1}%
22671     }{}%
22672 }{}%
22673 \expandafter\providecommand%
22674 \csname scr@tso@#1@entryformat\endcsname[1]{##1}%
22675 }%
22676 }%
22677 \expandafter\renewcommand
22678 \csname Ifscr@tso@#1@breakafternumber\endcsname[2]{##2}%
22679 \@ifundefined{scr@tso@#1@linefill}{%
22680     \Ifstr{#1}{part}{%
22681         \@namedef{scr@tso@#1@linefill}{\hfill}%
22682     }{%
22683         \Ifstr{#1}{chapter}{%
22684             \@namedef{scr@tso@#1@linefill}{\hfill}%
22685         }{%
22686             \scr@ifundefinedorrelax{1@chapter}{%
22687                 \Ifstr{#1}{section}{%
22688                     \@namedef{scr@tso@#1@linefill}{\hfill}%
22689                 }{}%
22690             }{}%
22691             \expandafter\renewcommand%
22692             \csname scr@tso@#1@linefill\endcsname{\TOCLineLeaderFill\relax}%
22693         }%
22694     }%
22695 }{}%
22696 \expandafter\renewcommand\csname Ifscr@tso@#1@raggedpage\endcsname[2]{##2}%
22697 \Ifstr{#1}{part}{%
22698     \expandafter\providecommand%
22699     \csname scr@tso@#1@pagenumberformat\endcsname[1]{\large\bfseries ##1}%
22700 }{%
22701     \Ifstr{#1}{chapter}{%
22702         \expandafter\providecommand%
22703         \csname scr@tso@#1@pagenumberformat\endcsname[1]{\bfseries ##1}%
22704     }{%
22705         \scr@ifundefinedorrelax{1@chapter}{%
22706             \Ifstr{#1}{section}{%
22707                 \expandafter\providecommand%
22708                 \csname scr@tso@#1@pagenumberformat\endcsname[1]{\bfseries ##1}%
22709             }{}%
22710         }{}%
22711         \expandafter\providecommand%
22712         \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
22713             {\normalfont\normalcolor ##1}}%
22714     }%
22715 }%
22716 \expandafter\renewcommand%
22717 \csname scr@tso@#1@pagenumberbox\endcsname[1]{%
22718     \hb@xt@\@nameuse{scr@dte@pagenumberwidth}{\hfil ##1}}%
22719 \expandafter\renewcommand\csname Ifscr@tso@#1@dynnumwidth\endcsname[2]{##2}%
22720 \expandafter\renewcommand\csname Ifscr@tso@#1@dynindent\endcsname[2]{##2}%
22721 \scr@ifundefinedorrelax{scr@tso@#1@indentfollows}{%
22722     \Ifstrstart{#1}{sub}{%
22723         \expandafter\edef\csname scr@tso@#1@indentfollows\endcsname{%

```



```

22724         \scr@dte@nosub{#1}%
22725     }%
22726     {%
22727         \expandafter\let\csname scr@tso@#1@indentfollows\endcsname\@empty
22728     }%
22729     }{%
22730 }}{%
22731     \scr@dte@tocline{#1}{##1}{##2}%
22732 }
22733
22734 \renewcommand*{\scr@tso@figure@pagenumberformat}[1]{%
22735     {\normalfont\normalcolor #1}%
22736 }
22737
22738 \renewcommand*{\scr@tso@table@pagenumberformat}[1]{%
22739     {\normalfont\normalcolor #1}%
22740 }
22741

```

## 149 File tocstyle-xetex-bidi.def

```

22742 \ProvidesFile{tocstyle-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for tocstyle package]
22743 \renewcommand*{\tocstyle@dottedtocline}[5]{%
22744     \let\numberline\tocstyle@numberline
22745     \ifnum #1>c@tocdepth \else
22746         \if@tocstyle@penalties
22747             \begingroup
22748                 \@tempcnta 20010
22749                 \advance \@tempcnta by -#1
22750                 \ifnum \@tempcnta>\lastpenalty
22751                     \aftergroup\penalty\aftergroup\@lowpenalty
22752                 \fi
22753             \endgroup
22754         \fi
22755         \edef\tocstyledepth{#1}%
22756         \tocstyle@activate@features
22757         \ifx\tocstyle@feature@entryvskip\relax
22758             \vskip \z@ \@plus.2\p@
22759         \else
22760             \addvspace{\tocstyle@feature@entryvskip}%
22761         \fi
22762     {%
22763         \parskip \z@ \parindent \z@ \if@RTL\rightskip\else\leftskip\fi \z@ \if@RTL\leftskip\else\rightskip\fi
22764         \tocstyle@feature@raggedhook
22765         \@tempdima #3\relax
22766         \@tempdimb #2\relax
22767         \typeout{m (\tocstyleTOC, \tocstyledepth): \the\@tempdima}%
22768         \ifnum #1>\z@\relax
22769             \@tempcnta #1\relax \advance\@tempcnta \m@ne
22770             \ifcsname tocstyle@skipwidth@\tocstyleTOC @\the\@tempcnta\endcsname
22771                 \ifcsname tocstyle@numwidth@\tocstyleTOC @\the\@tempcnta\endcsname
22772                     \@tempdimb
22773                 \csname tocstyle@skipwidth@\tocstyleTOC @\the\@tempcnta\endcsname
22774                 \advance\@tempdimb

```



```

22775         \csname tocstyle@numwidth@\tocstyleTOC @\the\@tempcnta\endcsname
22776     \fi
22777 \fi
22778 \fi
22779 \typeout{C (\tocstyleTOC, \tocstyledepth): \the\@tempdimb}%
22780 \ifcsname tocstyle@skipwidth@\tocstyleTOC @#1\endcsname
22781     \ifdim \@tempdimb>
22782         \csname tocstyle@skipwidth@\tocstyleTOC @#1\endcsname\relax
22783         \expandafter\xdef\csname tocstyle@skipwidth@\tocstyleTOC
22784             @#1\endcsname{\the\@tempdimb}%
22785     \fi
22786 \else
22787     \expandafter\xdef\csname tocstyle@skipwidth@\tocstyleTOC
22788         @#1\endcsname{\the\@tempdimb}%
22789 \fi
22790 \iftocstyle@autolength
22791     \ifcsname tocstyle@maxskipwidth@\tocstyleTOC @#1\endcsname
22792         \@tempdimb \csname tocstyle@maxskipwidth@\tocstyleTOC @#1\endcsname
22793         \relax
22794     \fi
22795     \ifcsname tocstyle@maxnumwidth@\tocstyleTOC @#1\endcsname
22796         \@tempdima \csname tocstyle@maxnumwidth@\tocstyleTOC @#1\endcsname
22797         \relax
22798     \fi
22799     \typeout{a (\tocstyleTOC, \tocstyledepth): \the\@tempdima}%
22800     \typeout{A (\tocstyleTOC, \tocstyledepth): \the\@tempdimb}%
22801 \else
22802     \@tempdimb #2\relax
22803     \typeout{M (\tocstyleTOC, \tocstyledepth): \the\@tempdimb}%
22804 \fi
22805 \ifcsname tocstyle@unumwidth@\tocstyleTOC @\endcsname
22806     \ifdim \@tempdima>
22807         \csname tocstyle@unumwidth@\tocstyleTOC @\endcsname\relax
22808         \expandafter\xdef\csname tocstyle@unumwidth@\tocstyleTOC
22809             @\endcsname{\the\@tempdima}%
22810     \fi
22811 \else
22812     \expandafter\xdef\csname tocstyle@unumwidth@\tocstyleTOC
22813         @\endcsname{\the\@tempdima}%
22814 \fi
22815 \ifcase\tocstyle@indentstyle\relax\else
22816     \@tempdimb \z@
22817     \ifcsname tocstyle@maxunumwidth@\tocstyleTOC @\endcsname
22818         \@tempdima \csname tocstyle@maxunumwidth@\tocstyleTOC @\endcsname
22819         \relax
22820     \fi
22821     \typeout{s (\tocstyleTOC, \tocstyledepth): \the\@tempdima}%
22822     \typeout{S (\tocstyleTOC, \tocstyledepth): \the\@tempdimb}%
22823 \fi
22824 \advance\parindent \@tempdimb\@afterindenttrue
22825 \advance\if@RTL\rightskip\else\leftskip\fi \parindent
22826 \advance\if@RTL\leftskip\else\rightskip\fi \@tocrmarg
22827 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
22828 \ifx\tocstyle@feature@parfillskip\relax\else

```



```

22829      \advance\parfillskip \tocstyle@feature@parfillskip\relax
22830      \fi
22831      \interlinepenalty\@M
22832      \leavevmode
22833      \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima
22834      \null\nobreak
22835      \iftocstyle@indentnotnumbered\else
22836      \hskip -\if@RTL\rightskip\else\leftskip\fi
22837      \fi
22838      \tocstyle@feature@entryhook
22839      {#4}\nobreak
22840      \ifx\tocstyle@feature@leaders\relax
22841      \leaders\hbox{$\m@th
22842      \mkern \@dotsep mu\hbox{\tocstyle@feature@dothook .}%
22843      \mkern \@dotsep mu$}\hfill
22844      \else
22845      \tocstyle@feature@leaders
22846      \fi
22847      \nobreak
22848      \ifx\tocstyle@feature@pagenumberbox\relax
22849      \hb@xt@\@pnumwidth{\hfil\tocstyle@feature@pagenumberhook #5}%
22850      \else
22851      \tocstyle@feature@pagenumberbox{\tocstyle@feature@pagenumberhook #5}%
22852      \fi
22853      \par
22854      }%
22855      \iftocstyle@penalties
22856      \bgroup
22857      \@tempcnta 20009
22858      \advance\@tempcnta by -#1
22859      \edef\reserved@a{\egroup\penalty\the\@tempcnta\relax}%
22860      \reserved@a
22861      \fi
22862      \fi}
22863 \renewcommand*{\tocstyle@numberline}[1]{%
22864 \begingroup
22865 \ifx\tocstyle@feature@spaceafternumber\relax
22866 \settowidth\@tempdima{\tocstyle@numberline{#1}\enskip}%
22867 \else
22868 \settowidth\@tempdima{\tocstyle@numberline{#1}}%
22869 \advance \@tempdima \tocstyle@feature@spaceafternumber\relax
22870 \fi
22871 \ifcsname tocstyle@numwidth@\tocstyleTOC @\tocstyledepth\endcsname
22872 \ifdim \@tempdima >
22873 \csname tocstyle@numwidth@\tocstyleTOC @\tocstyledepth\endcsname\relax
22874 \expandafter\xdef\csname tocstyle@numwidth@\tocstyleTOC
22875 @\tocstyledepth\endcsname{\the\@tempdima}%
22876 \fi
22877 \else
22878 \expandafter\xdef\csname tocstyle@numwidth@\tocstyleTOC
22879 @\tocstyledepth\endcsname{\the\@tempdima}%
22880 \fi
22881 \endgroup
22882 \iftocstyle@indentnotnumbered

```



```

22883 \hskip -\if@RTL\rightskip\else\leftskip\fi
22884 \fi
22885 \ifcase \tocstyle@indentstyle
22886 \hb@xt@{\tempdima{\tocstyle@numberline{#1}\hfil}}%
22887 \or
22888 \hb@xt@{\tempdima{\tocstyle@numberline{#1}\hfil}}%
22889 \else
22890 \ifx\tocstyle@feature@spaceafternumber\relax
22891 \hbox{\tocstyle@numberline{#1}\enskip}%
22892 \else
22893 \hbox{\tocstyle@numberline{#1}\hskip
22894 \tocstyle@feature@spaceafternumber\relax}%
22895 \fi
22896 \fi
22897 }
22898 \AtBeginDocument{%
22899 \ifcsname l@part\endcsname
22900 \ifcsname l@chapter\endcsname
22901 \setbox\@tempboxa\vbox{\hsize\maxdimen
22902 \l@part{\tocstyle@l@define{part}{-1}}}%
22903 \else
22904 \setbox\@tempboxa\vbox{\hsize\maxdimen
22905 \l@part{\tocstyle@l@define{part}{0}}}%
22906 \fi
22907 \fi
22908 \ifcsname l@chapter\endcsname
22909 \setbox\@tempboxa\vbox{\hsize\maxdimen
22910 \l@chapter{\tocstyle@l@define{chapter}{0}}}%
22911 \fi
22912 \ifcsname l@section\endcsname
22913 \setbox\@tempboxa\vbox{\hsize\maxdimen
22914 \l@section{\tocstyle@l@define{section}{1}}}%
22915 \fi
22916 \ifcsname l@subsection\endcsname
22917 \setbox\@tempboxa\vbox{\hsize\maxdimen
22918 \l@subsection{\tocstyle@l@define{subsection}{2}}}%
22919 \fi
22920 \ifcsname l@subsubsection\endcsname
22921 \setbox\@tempboxa\vbox{\hsize\maxdimen
22922 \l@subsubsection{\tocstyle@l@define{subsubsection}{3}}}%
22923 \fi
22924 \ifcsname l@paragraph\endcsname
22925 \setbox\@tempboxa\vbox{\hsize\maxdimen
22926 \l@paragraph{\tocstyle@l@define{paragraph}{4}}}%
22927 \fi
22928 \ifcsname l@subparagraph\endcsname
22929 \setbox\@tempboxa\vbox{\hsize\maxdimen
22930 \l@subparagraph{\tocstyle@l@define{subparagraph}{5}}}%
22931 \fi
22932 \ifcsname l@table\endcsname
22933 \setbox\@tempboxa\vbox{\hsize\maxdimen
22934 \l@table{\tocstyle@l@define{table}{1}}}%
22935 \fi
22936 \ifcsname l@figure\endcsname

```



```

22937 \setbox\@tempboxa\vbox{\hsize\maxdimen
22938 \l@figure{\tocstyle@l@define{figure}{1}}{}}%
22939 \fi
22940 \def\@tempa#1#2#3#4#5{%
22941 \ifnum #1>\c@tocdepth \else
22942 \vskip \z@ \@plus.2\p@
22943 {\if@RTL\righskip\else\leftskip\fi #2\relax \if@RTL\leftskip\else\righskip\fi \@toc
22944 \parindent #2\relax\@afterindenttrue
22945 \interlinepenalty\@M
22946 \leavevmode
22947 \@tempdima #3\relax
22948 \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\ri
22949 {#4}\nobreak
22950 \leaders\hbox{$\m@th
22951 \mkern \dotsep mu\hbox{.}\mkern \dotsep
22952 mu$}\hfill
22953 \nobreak
22954 \hb@xt@\@pnumwidth{\hfil \normalfont \normalcolor #5}}%
22955 \par}%
22956 \fi}%
22957 \ifx\@dottedtocline\@tempa\else
22958 \tocstyle@macrochangewarning\@dottedtocline
22959 \fi
22960 \let\tocstyle@saved\@dottedtocline\@dottedtocline
22961 \def\@tempa#1{\hb@xt@\@tempdima{#1\autodot\hfil}}%
22962 \ifx\numberline\@tempa\else
22963 \def\@tempa#1{\hb@xt@\@tempdima{#1\hfil}}%
22964 \ifx\numberline\@tempa\else
22965 \tocstyle@macrochangewarning\numberline
22966 \fi
22967 \fi
22968 \let\tocstyle@saved\@numberline\@numberline
22969 }
22970 \renewcommand*{\tocstyle@l@define}[2]{%
22971 \advance\if@RTL\righskip\else\leftskip\fi-\@tempdima
22972 \edef\@tempa{%
22973 \noexpand\global\noexpand\let
22974 \expandafter\noexpand\csname tocstyle@saved@l@#1\endcsname
22975 \expandafter\noexpand\csname l@#1\endcsname
22976 \noexpand\gdef
22977 \expandafter\noexpand\csname tocstyle@l@#1\endcsname{%
22978 \noexpand\@dottedtocline{#2}{\the\if@RTL\righskip\else\leftskip\fi}{\the\@tempdima}}%
22979 \noexpand\g@addto@macro\noexpand\tocstyle@activate@all@l{%
22980 \noexpand\let\expandafter\noexpand\csname l@#1\endcsname
22981 \expandafter\noexpand\csname tocstyle@l@#1\endcsname
22982 }%
22983 }%
22984 \PackageInfo{tocstyle}{prepare \expandafter\string
22985 \csname l@#1\endcsname\space for redefinition}%
22986 \@tempa
22987 }

```

## 150 File todonotes-xetex-bidi.def



```

22988 \ProvidesFile{todonotes-xetex-bidi.def}[2016/11/08 v0.4 bidi adaptations for todonotes packa
22989 \newif\if@bidi@todonotes@textdirection@RTL
22990 \newif\if@bidi@todonotes@figposition@right
22991 \newcommand{\@bidi@todonotes@align}{}%
22992 \define@key{todonotes}{align}{\renewcommand{\@bidi@todonotes@align}{#1}}%
22993 \newcommand{\@bidi@todonotes@textdirection}{}%
22994 \define@choicekey{todonotes}{textdirection}[\@bidi@todonotes@tempa\@bidi@todonotes@tempb]{right,
22995   \ifcase\@bidi@todonotes@tempb\relax
22996     \@bidi@todonotes@textdirection@RTLtrue
22997     \let\@bidi@todonotes@textdirection\RLE
22998   \or
22999     \@bidi@todonotes@textdirection@RTLfalse
23000     \let\@bidi@todonotes@textdirection\LRE
23001   \fi}
23002 \define@choicekey{todonotes}{figposition}[\@bidi@todonotes@tempa\@bidi@todonotes@tempb]{right,
23003   \ifcase\@bidi@todonotes@tempb\relax
23004     \@bidi@todonotes@figposition@righttrue
23005   \or
23006     \@bidi@todonotes@figposition@rightfalse
23007   \fi}
23008 \if@todonotes@disabled%
23009 \else % \if@todonotes@disabled
23010 \renewcommand{\@todonotes@drawInlineNote}{%
23011   \if@todonotes@dviStyle%
23012     {\par\noindent\begin{tikzpicture}[remember picture]%
23013       \draw node[inlinenotestyle] {};\end{tikzpicture}\par}%
23014     \if@todonotes@authorgiven%
23015       {\noindent \@todonotes@sizecommand \@todonotes@author:\,\@todonotes@text}%
23016     \else%
23017       {\noindent \@todonotes@sizecommand \@todonotes@text}%
23018     \fi
23019     {\par\noindent\begin{tikzpicture}[remember picture]%
23020       \draw node[inlinenotestyle] {};\end{tikzpicture}\par}%
23021   \else%
23022     {\par\noindent\begin{tikzpicture}[remember picture]%
23023       \if@bidi@todonotes@textdirection@RTL\setRTL\fi%
23024       \draw node[inlinenotestyle,font=\@todonotes@sizecommand,align=\@bidi@todonotes@a
23025         \if@todonotes@authorgiven%
23026           {\noindent \@todonotes@sizecommand \@todonotes@author:\,\@todonotes@text
23027         \else%
23028           {\noindent \@todonotes@sizecommand \@todonotes@text}%
23029         \fi};%
23030       \end{tikzpicture}\par}%
23031     \fi}%
23032 \renewcommand{\@todonotes@drawMarginNoteWithLine}{%
23033 \begin{tikzpicture}[remember picture, overlay, baseline=-0.75ex]%
23034   \node [coordinate] (inText) {};%
23035 \end{tikzpicture}%
23036 \marginpar[{}]{% Draw note in left margin
23037   \@todonotes@drawMarginNote%
23038   \if@RTL\@todonotes@drawLineToRightMargin\else\@todonotes@drawLineToLeftMargin\fi%
23039 }]{% Draw note in right margin
23040   \@todonotes@drawMarginNote%
23041   \if@RTL\@todonotes@drawLineToLeftMargin\else\@todonotes@drawLineToRightMargin\fi%

```



```

23042 }%
23043 }%
23044 \renewcommand{\@todonotes@drawMarginNote}{%
23045 \if@todonotes@dviStyle%
23046 \begin{tikzpicture}[remember picture]%
23047 \draw node[notestyle] {};%
23048 \end{tikzpicture}%
23049 \begin{minipage}{\@todonotes@textwidth}%
23050 \if@todonotes@authorgiven%
23051 \@todonotes@sizecommand \@todonotes@author \@todonotes@text%
23052 \else%
23053 \@todonotes@sizecommand \@todonotes@text%
23054 \fi%
23055 \end{minipage}%
23056 \begin{tikzpicture}[remember picture]%
23057 \draw node[notestyle] (inNote) {};%
23058 \end{tikzpicture}%
23059 \else%
23060 \let\originalHbadness\hbadness%
23061 \hbadness 100000%
23062 \begin{tikzpicture}[remember picture,baseline=(X.base)]%
23063 \if@bidi@todonotes@textdirection@RTL\setRTL\fi%
23064 \node(X){\vphantom{X}};%
23065 \draw node[notestyle,font=\@todonotes@sizecommand,anchor=north,align=\@bidi@todonotes@textdirection]{\@todonotes@text};%
23066 \if@todonotes@authorgiven%
23067 \draw node[notestyle,font=\@todonotes@sizecommand,anchor=north,align=\@bidi@todonotes@textdirection]{\@todonotes@sizecommand \@todonotes@author};%
23068 \node(Y)[below=of X]{};%
23069 \draw node[notestyle,font=\@todonotes@sizecommand,anchor=north,align=\@bidi@todonotes@textdirection]{\@todonotes@text};%
23070 \else%
23071 \draw node[notestyle,font=\@todonotes@sizecommand,anchor=north,align=\@bidi@todonotes@textdirection]{\@todonotes@text};%
23072 \fi%
23073 \end{tikzpicture}%
23074 \hbadness \originalHbadness%
23075 \fi}%
23076 \renewcommand{\missingfigure}[2]{}%
23077 \setkeys{todonotes}{#1}%
23078 \addcontentsline{tdo}{todo}{\@todonotes@MissingFigureText: #2}%
23079 \par
23080 \noindent
23081 \begin{tikzpicture}
23082 \draw[fill=\@todonotes@currentfigcolor, draw = black!40, line width=2pt]
23083 (-2, -2.5) rectangle +(\@todonotes@currentfigwidth, \@todonotes@currentfigheight);
23084 \if@bidi@todonotes@figposition@right%
23085 \begin{scope}[xshift=\@todonotes@currentfigwidth-4cm]
23086 \draw[red, fill=white, rounded corners = 5pt, line width=10pt]
23087 (30:2cm) -- (150:2cm) -- (270:2cm) -- cycle;
23088 \end{scope}
23089 \begin{scope}[xshift=-3.8cm]
23090 \draw[red, fill=white, rounded corners = 5pt, line width=10pt]
23091 (30:2cm) -- (150:2cm) -- (270:2cm) -- cycle;
23092 \end{scope}
23093 \end{tikzpicture}

```





```

23096 \fi%
23097 \if@bidi@todonotes@textdirection@RTL\setRTL\fi%
23098 \draw (2, -0.3) node[right, text
23099     width=\@todonotes@currentfigwidth-4.5cm, align=\@bidi@todonotes@align] {#2};
23100 \if@bidi@todonotes@figposition@right%
23101 \end{scope}
23102 \begin{scope}[xshift=\@todonotes@currentfigwidth-4cm]
23103 \fi%
23104 \draw (0, 0.3) node[align=\@bidi@todonotes@align] {\@bidi@todonotes@textdirection{\@todonotes@text}};
23105 \draw (0, -0.3) node[align=\@bidi@todonotes@align] {\@bidi@todonotes@textdirection{\@todonotes@text}};
23106 \if@bidi@todonotes@figposition@right%
23107 \end{scope}
23108 \fi%
23109 \end{tikzpicture}\hfill
23110}% Ending \missingfigure command
23111 \fi % Ending \@todonotes@ifdisabled
23112 \presetkeys%
23113     {todonotes}%
23114     {align=left,%
23115     textdirection=lefttoright,%
23116     figposition=left}{}%

```

## 151 File wrapfig-xetex-bidi.def

```

23117 \ProvidesFile{wrapfig-xetex-bidi.def}[2014/04/23 v0.3 bidi adaptations for wrapfig package]
23118 \let\WF@everypar\bidi@n@everypar
23119 \def\WF@putfigmaybe{%
23120 \ifinner
23121   \vskip-\parskip \global\WF@floatfalse
23122   \let\pagetotal\maxdimen % kludge flag for "not top of page"
23123 \else % outer page
23124   \@tempdima\pagedepth % save page depth
23125   {\advance\parskip\@tempdima\if@RTL\advance\parskip\baselineskip\fi\vskip-\parskip}% back
23126   \penalty\interlinepenalty % update pg. parameters
23127   \@tempdimb\pagegoal \advance\@tempdimb-\pagetotal % room left on page
23128   \ifdim\@tempdimb<\z@ % \WF@info{Page overfull already;}%
23129     \global\WF@floatfalse
23130     \ifdim-\@tempdimb>\pageshrink \else \pagebreak \fi
23131   \else
23132     \ifdim\WF@size>\@tempdimb
23133       \ifWF@float \dimen@.5\baselineskip \else \dimen@ 2\baselineskip\fi
23134       \ifdim\pagestretch>\dimen@ \dimen@\pagestretch \fi
23135       \ifdim\pagefilstretch>\z@ \dimen@\@tempdimb \fi
23136       \ifdim\pagefillstretch>\z@ \dimen@\@tempdimb \fi
23137       \advance\dimen@.5\baselineskip
23138       \ifdim\dimen@>\@tempdimb % \WF@info{Page nearly full; can stretch}%
23139         \global\WF@floatfalse \pagebreak
23140       \fi
23141     \else % \WF@info{Fits in \the\@tempdimb;}%
23142       \global\WF@floatfalse
23143     \fi\fi
23144     \vskip\@tempdima\relax % (return erased page depth)
23145 \fi
23146 \noindent

```



```

23147 \ifWF@float
23148 \WF@fltmes
23149 \else % putting here;
23150 \WF@info{Put \WF@wfname here:}%
23151 {\ifodd\if@twoside\c@page\else\@ne\fi % assign l/r to i/o placement
23152 \lccode`i`l\lccode`o`r\else \lccode`i`r\lccode`o`l\fi
23153 \xdef\WF@place{\the\lccode\lccode\WF@place}}% twice to get only l or r
23154 \hbox to\z@{\llap or rlap depending on {l} or {r}; calc effective width
23155 \@tempdima\wd\WF@box \@tempdimb\WF@ovh
23156 \advance\@tempdima-\@tempdimb \advance\@tempdima\columnsep
23157 \@tempdimb\hsize \advance\@tempdimb-\@tempdima
23158 \xdef\WF@adjlw{\the\@tempdima}%
23159 \ifnum `l=\WF@place % fig on left
23160 \if@RTL%
23161 \kern\@tempdimb \kern\columnsep
23162 \def\@tempa{\hss}% position to left of the gap
23163 \else%
23164 \hss % figure overlaps space to the left
23165 \def\@tempa{\kern\columnsep}% position to left of the gap
23166 \fi%
23167 \else % fig on right
23168 \if@RTL%
23169 \hss
23170 \@tempdima\z@
23171 \def\@tempa{\kern\columnsep}
23172 \else%
23173 \@tempdima\z@ % no left indentation
23174 \kern\@tempdimb \kern\columnsep
23175 \def\@tempa{\hss}% figure overlaps space to the right
23176 \fi%
23177 \fi
23178 \ifdim\@tempdimb<\hsize
23179 \xdef\WF@wrapil{\the\@tempdima \the\@tempdimb}% indentation and length
23180 \xdef\WF@adjtlm{\the\@tempdima}%
23181 \else
23182 \xdef\WF@wrapil{\z@ \the\hsize}%
23183 \xdef\WF@adjlw{\z@}\xdef\WF@adjtlm{\z@}%
23184 \fi
23185 \ifdim\pagetotal=\z@ % \WF@info{Put \WF@wfname at top of p.\thepage}%
23186 \global\advance\WF@size-\intextsep
23187 \else % \WF@info{Putting \WF@wfname in middle of page}%
23188 \setbox\WF@box\hbox{\lower\intextsep\box\WF@box}%
23189 \fi \dp\WF@box\z@ \box\WF@box \@tempa
23190 }% end \hbox to Opt
23191 \aftergroup\WF@startwrapping % after the \endgroup which immediately follows
23192 \fi}

```

## 152 File xcolor-xetex-bidi.def

```

23193 \ProvidesFile{xcolor-xetex-bidi.def}[2013/04/08 v0.2 bidi adaptations for xcolor package for
23194 \long\def\color@b@x#1#2#3%
23195 {\leavevmode\ifmmode\else\if@RTL\beginL\fi\fi
23196 \setbox\z@\hbox{\kern\fbboxsep{\set@color\if@RTL\beginR\fi#3\if@RTL\endR\fi}\kern\fbboxsep}%
23197 \dimen@ \ht\z@\advance\dimen@\fbboxsep\ht\z@\dimen@

```



```

23198 \dimen@dp\z@advance\dimen@fboxsep\dp\z@dimen@
23199 {#1{#2\color@block{\wd\z@}{\ht\z@}{\dp\z@}\box\z@}}\ifmmode\else\if@RTL\endL\fi\fi}
23200 \def\normalcolor{\let\current@color\default@color\ifhmode\if@RTL\beginL\aftergroup\endR\fi\fi}
23201 \DeclareRobustCommand\color
23202 {\ifhmode\if@RTL\beginL\aftergroup\endR\fi\fi@ifnextchar[\@undeclaredcolor\@declaredcolor]}
23203 \def\@undeclaredcolor[#1]#2%
23204 {\begingroup
23205 \let\@ccls\@empty
23206 \XC@getmodclr12{#1}{#2}{}}%
23207 {\ifblendcolors
23208 \ifx\colorblend\@empty\else
23209 \edef\@mix{\expandafter\@gobble\colorblend}\@tempwafalse
23210 \XC@coremodel\@mod\@clr\xcolor@{}}\@mod\@clr
23211 \fi
23212 \fi
23213 \ifconvertcolorsU
23214 \edef\@tmp{\XC@tgt@mod{\@mod}}%
23215 \convertcolorspec\@mod\@clr\@tmp\@clr \let\@mod\@tmp
23216 \fi
23217 \ifmaskcolors
23218 \convertcolorspec\@mod\@clr\XC@mmod\@clr
23219 \let\@mod\XC@mmod
23220 \XC@inflate\@mod\XC@mclr\@clr\@tmp
23221 \expandafter\XC@mul\@tmp,\@clr
23222 \fi
23223 \edef\@tmp{\noexpand\XC@undeclaredcolor{\@mod}{\@clr}}%
23224 \expandafter\endgroup\@tmp}}
23225 \def\@declaredcolor#1%
23226 {\XC@edef\XC@tmp{#1}\XC@tstfalse
23227 \ifcase\XC@type\XC@tmp\relax \XC@tsttrue\or \relax\else
23228 \ifblendcolors\XC@tsttrue\fi \ifmaskcolors\XC@tsttrue\fi
23229 \ifconvertcolorsU\XC@tsttrue\fi
23230 \fi
23231 \ifXC@tst
23232 \expandafter\XC@declaredcolor\else
23233 \expandafter\XC@declaredcolor\fi}
23234 \def\XC@undeclaredcolor#1#2%
23235 {\@ifundefinedmodel{#1}%
23236 {\c@lor@error{model `#1'}}%
23237 {\@nameuse{color@#1}\current@color{#2}%
23238 \edef\XC@current@color{\noexpand\xcolor@{}}{\current@color}{#1}{#2}}%
23239 \XC@display}\ifhmode\if@RTL\beginR\aftergroup\endL\fi\fi\ignorespaces}
23240 \def\XC@declaredcolor
23241 {\XC@let\Nc\XC@current@color{\string\color@\XC@tmp}%
23242 \edef\current@color{\XC@current@color}%
23243 \XC@display\ifhmode\if@RTL\beginR\aftergroup\endL\fi\fi\ignorespaces}
23244 \DeclareRobustCommand\bicolor
23245 {\@ifnextchar[\@bidiundeclaredcolor\@bidideclaredcolor]}
23246 \def\@bidiundeclaredcolor[#1]#2%
23247 {\begingroup
23248 \let\@ccls\@empty
23249 \XC@getmodclr12{#1}{#2}{}}%
23250 {\ifblendcolors
23251 \ifx\colorblend\@empty\else

```



```

23252         \edef\@@mix{\expandafter\@gobble\colorblend}\@tempwafalse
23253         \XC@coremodel\@@mod\@@clr\@xcolor@{\}\@@mod\@@clr
23254         \fi
23255     \fi
23256     \ifconvertcolorsU
23257         \edef\@@tmp{\XC@tgt@mod{\@@mod}}%
23258         \convertcolorspec\@@mod\@@clr\@@tmp\@@clr \let\@@mod\@@tmp
23259     \fi
23260     \ifmaskcolors
23261         \convertcolorspec\@@mod\@@clr\XC@mmod\@@clr
23262         \let\@@mod\XC@mmod
23263         \XC@inflate\@@mod\XC@mclr\@@clr\@@tmp
23264         \expandafter\XC@mul\@@tmp,\@clr
23265     \fi
23266     \edef\@@tmp{\noexpand\XC@bidiundeclaredcolor{\@@mod}{\@@clr}}%
23267     \expandafter\endgroup\@@tmp}}
23268 \def\XC@bidiundeclaredcolor#1#2%
23269 {\@ifundefinedmodel{#1}%
23270  {\c@lor@error{model `#1'}}%
23271  {\@nameuse{color@#1}\current@color{#2}}%
23272  \edef\XC@current@color{\noexpand\xcolor@{\}\current@color}{#1}{#2}}%
23273  \XC@display}}
23274 \def\@bidideclaredcolor#1%
23275 {\XC@edef\XC@@tmp{#1}\XC@@tstfalse
23276  \ifcase\XC@type\XC@@tmp\relax \XC@@tsttrue\or \relax\else
23277    \ifblendcolors\XC@@tsttrue\fi \ifmaskcolors\XC@@tsttrue\fi
23278    \ifconvertcolorsU\XC@@tsttrue\fi
23279  \fi
23280  \ifXC@@tst
23281    \expandafter\XC@bidideclaredcolor\else
23282    \expandafter\XC@bidideclaredc@lor\fi}
23283 \def\XC@bidideclaredcolor
23284 {\XC@split\XC@@tmp
23285  \edef\@@tmp{\noexpand\@bidiundeclaredcolor[\@@mod]{\@@clr}}%
23286  \expandafter\endgroup\@@tmp}
23287 \def\XC@bidideclaredc@lor
23288 {\XC@let\Nc\XC@current@color{\string\color@\XC@@tmp}%
23289  \edef\current@color{\XC@current@color}%
23290  \XC@display}
23291 \def\color@box#1#2{\color@b@x\relax{\bidicolor#1{#2}}}
23292 \def\color@fbox#1#2#3{\protect\color@fb@x{#1}{#2}{#3}}
23293 \def\color@fb@x#1#2#3#4%
23294 {\color@b@x{\fboxsep\z@\bidicolor#1{#2}\XC@fbox}%
23295  {\@ifxempty{#3}{\bidicolor#1}{\bidicolor#3}{#4}}}
23296 \def\color@setgroup{\begingroup\ifhmode\if@RTL\beginL\aftergroup\endR\fi\fi\set@color\ifhmode

```

## 153 File latex-xetex-bidi.def

```

23297 \ProvidesFile{latex-xetex-bidi.def}[2022/06/09 v1.4.5 bidi adaptations for `latex.ltx' for
23298 \newcommand{\TeXXeTOn}{\TeXXeTstate\@ne}
23299 \newcommand{\TeXXeTOff}{\TeXXeTstate\@z}
23300 \TeXXeTOn
23301 \def\bidi@RTL@everypar{\setbox\z@\lastbox\if@RTL\beginR\else\beginL\fi\ifvoid\z@\else\usebox\z@}
23302 \let\bidi@o@everypar=\everypar

```



```

23303 \newtoks\bidin@everypar
23304 \bidin@everypar\expandafter{\the\bidio@everypar}
23305 \bidio@everypar{\bid RTL@everypar\the\bidin@everypar}
23306 \let\everypar=\bidin@everypar
23307 \def\moreLRE{\bracetext \aftergroup\endL \beginL\@RTLfalse}
23308 \def\moreRLE{\bracetext \aftergroup\endR \beginR\@RTLtrue}
23309 \protected\def\hboxR{\hbox\bgroup
23310 \everyhbox{%
23311 \aftergroup\egroup
23312 \everyhbox{}}%
23313 \beginR
23314 \@hboxRconstructtrue
23315 \bgroup
23316 \aftergroup\endR
23317 \aftergroup\egroup
23318 }\hbox}
23319 \protected\def\hboxL{\hbox\bgroup
23320 \everyhbox{%
23321 \aftergroup\egroup
23322 \everyhbox{}}%
23323 \beginL
23324 \@hboxRconstructfalse
23325 \bgroup
23326 \aftergroup\endL
23327 \aftergroup\egroup
23328 }\hbox}
23329 \protected\def\vboxR{\vbox\bgroup
23330 \everyvbox{%
23331 \aftergroup\egroup
23332 \everyvbox{}}%
23333 \@RTLtrue
23334 \@RTLtabtrue
23335 \bgroup
23336 \aftergroup\egroup
23337 }\vbox}
23338 \protected\def\vboxL{\vbox\bgroup
23339 \everyvbox{%
23340 \aftergroup\egroup
23341 \everyvbox{}}%
23342 \@RTLfalse
23343 \@RTLtabfalse
23344 \bgroup
23345 \aftergroup\egroup
23346 }\vbox}
23347 \newcommand*{\bidil@leftskip}{\if@RTL\rightskip\else\leftskip\fi}
23348 \newcommand*{\bidir@rightskip}{\if@RTL\leftskip\else\rightskip\fi}
23349 \def\LTR{\par\@RTLfalse\@RTL@footnotefalse\@RTLtabfalse\hsize\linewidth\parshape\z@\bidibea
23350 \def\endLTR{\par}
23351 \newenvironment{LTR*}{\LTR
23352 \everypar{%
23353 {\setbox\z@\lastbox
23354 \ifvoid\z@
23355 \kern-\parindent
23356 \fi}%

```



```

23357 }%
23358 }\endLTR\@endpetrue}
23359 \def\RTL{\par\@RTLtrue\@RTLfootnotetrue\@RTLtabtrue\hsize\linewidth\parshape\z@\bidi@beamer}
23360 \def\endRTL{\par}
23361 \newenvironment{RTL*}{\RTL
23362   \everypar{%
23363     {\setbox\z@\lastbox
23364       \ifvoid\z@
23365         \kern-\parindent
23366       \fi}%
23367   }%
23368 }\endRTL\@endpetrue}
23369 \def\setRTL{\@RTLtrue\@RTLfootnotetrue\@RTLtabtrue\bidi@beamer@ragged}
23370 \def\setLTR{\@RTLfalse\@RTLfootnotefalse\@RTLtabfalse\bidi@beamer@ragged}
23371 \let\unsetRTL=\setRTL
23372 \let\unsetLTR=\setRTL
23373 \let\LR=\LRE
23374 \let\RL=\RLE
23375 \def\@ensure@RTL#1{\if@RTL#1\else\RLE{#1}\fi}
23376 \def\@ensure@LTR#1{\if@RTL\LRE{#1}\else#1\fi}
23377 \let\@ensure@RL=\@ensure@RTL
23378 \let\@ensure@LR=\@ensure@LTR
23379 \def\@ensure@dir#1{\if@RTL\RLE{#1}\else{#1}\fi}
23380 \let\@ensure@maindir=\@ensure@dir
23381 \def\@RTL{RTL}
23382 \def\@LTR{LTR}
23383 \def\save@dir{\if@RTL\gdef\saved@dir{RTL}\else\gdef\saved@dir{LTR}\fi}
23384 \def\reset@dir{\ifx\saved@dir\@RTL\setRTL\else\ifx\saved@dir\@LTR\setLTR\else\relax\fi}
23385 \let\@TeX\TeX
23386 \def\TeX{\@ensure@LTR{\@TeX}}
23387 \let\@LaTeX\LaTeX
23388 \def\LaTeX{\@ensure@LTR{\@LaTeX}}
23389 \let\@LaTeXe\LaTeXe
23390 \def\LaTeXe{\@ensure@LTR{\@LaTeXe}}
23391 \long\def\bidi@reflect@box#1{%
23392   \leavevmode
23393   \setbox\z@\hbox{#1}}%
23394 \setbox\tw@\hbox{\special{x:gsave}\special{x:scale -1 1}\rlap{\copy\z@}\special{x:grestore}}
23395 \hb@xt@\wd\z@{\kern\wd\z@\box\tw@\hss}%
23396 }
23397 \bidi@newrobustcmd*\XeTeX{\LR{\leavevmode$\smash{\hbox{X}\lower.5ex
23398   \hbox{\kern-.125em\bidi@reflect@box{E}}\kern-.1667em \TeX}}$}}
23399 \bidi@newrobustcmd*\XeLaTeX{\LR{\leavevmode$\smash{\hbox{X}\lower.5ex
23400   \hbox{\kern-.125em\bidi@reflect@box{E}}\kern-.1667em \LaTeX}}$}}
23401 \let\setRL=\setRTL
23402 \let\setLR=\setLTR
23403 \let\unsetRL=\setLTR
23404 \def\bidi@tabular@RTLcases{\let\@halignto\@empty\@bidi@tabular@RTLcases}
23405 \@ifpackageloaded{array}{%
23406 \def\@bidi@tabular@RTLcases{\@RTLtabtrue%
23407   \leavevmode
23408   \hbox\bgroup $\left.\col@sep\tabc@sep \let\d@llarbegin\begin\group
23409     \let\d@llarend\end\group
23410   \@tabarray}

```



```

23411 \def\endbidi@tabular@RTLcases{\endarray \right\rbrace$\egroup}
23412 }{%
23413 \def\@bidi@tabular@RTLcases{\@RTLtabtrue%
23414   \leavevmode \hbox \bgroup
23415   $\left.\let\@acol\@tabacol
23416   \let\@classz\@tabclassz
23417   \let\@classiv\@tabclassiv \let\\\@tabularcr\@tabarray}
23418
23419 \def\endbidi@tabular@RTLcases{\crr\egroup\if@RTLtab\egroup\endR\egroup\fi
23420   \egroup\right\rbrace $\egroup}}
23421 \def\RTLcases#1{\left.\vcenter{\normalbaselines\m@th
23422   \ialign{##\hfil$\quad{##}\hfil\crr#1\crr}}\right\}
23423 \renewenvironment{RTLcases}{%
23424   \bidi@matrix@check\RTLcases\env@RTLcases
23425 }{%
23426   \endbidi@tabular@RTLcases%
23427 }
23428 \def\env@RTLcases{%
23429   \let\@ifnextchar\bidi@new@ifnextchar
23430   \def\arraystretch{1.2}%
23431   \bidi@tabular@RTLcases{\@{}r{\quad}r{\{}}}%
23432 }
23433 \def\SepMark#1{\gdef\@SepMark{#1}}
23434 \SepMark{.}
23435 \def\@thmcountersep{\@SepMark}
23436 \def\setRTLbibitems{\@RTLbibitemstrue\@LTRbibitemsfalse}
23437 \def\setLTRbibitems{\@LTRbibitemstrue\@RTLbibitemsfalse}
23438 \def\setdefaultbibitems{\@RTLbibitemsfalse\@LTRbibitemsfalse}
23439 \newcommand*{\bidi@thebibliography@font@hook}{}
23440 \def\list#1#2{%
23441   \ifnum \@listdepth >5\relax
23442     \@toodeep
23443   \else
23444     \global\advance\@listdepth\@ne
23445   \fi
23446   \rightmargin\z@
23447   \listparindent\z@
23448   \itemindent\z@
23449   \csname @list\romannumeral\the\@listdepth\endcsname
23450   \def\@itemlabel{#1}%
23451   \let\makelabel\@mklab
23452   \@nmbrrlistfalse
23453   #2\relax
23454   \@trivlist
23455   \parskip\parsep
23456   \parindent\listparindent
23457   \advance\linewidth -\rightmargin
23458   \advance\linewidth -\leftmargin
23459   \if@bidi@list@minipage@parbox
23460     \if@RTL
23461       \advance\@totalleftmargin \leftmargin
23462     \else
23463       \advance\@totalleftmargin \rightmargin
23464     \fi

```



```

23465 \else
23466 \if@hboxRconstruct
23467 \if@bidi@list@minipage@parbox@not@nob
23468 \if@RTL
23469 \advance\@totalleftmargin \rightmargin
23470 \else
23471 \advance\@totalleftmargin \leftmargin
23472 \fi
23473 \else
23474 \if@RTL
23475 \advance\@totalleftmargin \leftmargin
23476 \else
23477 \advance\@totalleftmargin \rightmargin
23478 \fi\fi
23479 \else
23480 \if@RTL
23481 \advance\@totalleftmargin \rightmargin
23482 \else
23483 \advance\@totalleftmargin \leftmargin
23484 \fi\fi\fi
23485 \parshape \@ne \@totalleftmargin \linewidth
23486 \ignorespaces}
23487 \long\def\@iiiparbox#1#2[#3]#4#5{%
23488 \leavevmode
23489 \@pboxswfalse
23490 \if@hboxRconstruct
23491 \@bidi@list@minipage@parbox@not@nobtrue
23492 \fi
23493 \if@RTL
23494 \ifx#1t%
23495 \@bidi@list@minipage@parboxtrue
23496 \else
23497 \ifx#1b%
23498 \@bidi@list@minipage@parboxtrue
23499 \fi
23500 \fi
23501 \fi
23502 \setlength\@tempdima{#4}%
23503 \@begin@tempboxa\vbox{\hsize\@tempdima\@parboxrestore#5\@par}%
23504 \ifx\relax#2\else
23505 \setlength\@tempdimb{#2}%
23506 \edef\@parboxto{to\the\@tempdimb}%
23507 \fi
23508 \if#1b\vbox
23509 \else\if #1t\vtop
23510 \else\ifmmode\vcenter
23511 \else\@pboxswtrue $\vcenter
23512 \fi\fi\fi
23513 \@parboxto{\let\hss\vss\let\unhbox\unvbox
23514 \csname bm@#3\endcsname}%
23515 \if@pboxsw \m@th$\fi
23516 \@end@tempboxa}
23517 \newenvironment{LTRitems}
23518 {\par\@RTLfalse\@RTLtabfalse\@bidi@beamer@ragged

```





```

23519         \if@bidi@list@minipage@parbox
23520         \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth
23521         \else \if@hboxRconstruct\if@bidi@list@minipage@parbox@not@nob
23522         \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\else
23523         \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\fi
23524         \else \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\fi
23525         \ignorespaces}{\vskip\z@}
23526 \newenvironment{RTLitems}
23527 {
23528     \par\@RTLtrue\@RTLtabtrue\@bidi@beamer@ragged
23529     \if@bidi@list@minipage@parbox
23530     \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth
23531     \else \if@hboxRconstruct\if@bidi@list@minipage@parbox@not@nob
23532     \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\else
23533     \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\fi
23534     \else \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\fi
23535     \ignorespaces}{\vskip\z@}
23536 \newenvironment{LTRbibitems}
23537 {
23538     \par\@RTLfalse\@RTLtabfalse\@bidi@beamer@ragged
23539     \if@bidi@list@minipage@parbox
23540     \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth
23541     \else \if@hboxRconstruct\if@bidi@list@minipage@parbox@not@nob
23542     \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\else
23543     \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\fi
23544     \else \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\fi
23545     \ignorespaces}{\vskip\z@}
23546 \newenvironment{RTLbibitems}
23547 {
23548     \par\@RTLtrue\@RTLtabtrue\@bidi@beamer@ragged
23549     \if@bidi@list@minipage@parbox
23550     \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth
23551     \else \if@hboxRconstruct\if@bidi@list@minipage@parbox@not@nob
23552     \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\else
23553     \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\fi
23554     \else \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\fi
23555     \ignorespaces}{\vskip\z@}
23556 \def\raggedright{%
23557     \let\\\@centercr\@rightskip\@flushglue \rightskip\@rightskip
23558     \leftskip\z@skip
23559     \parindent\z@\parfillskip\z@skip}
23560 \let\@bidi@orig@raggedleft\raggedleft
23561 \let\@bidi@orig@raggedright\raggedright
23562 \renewcommand\raggedleft{\if@bidi@list@minipage@parbox\@bidi@orig@raggedright\else\if@hboxRconstruct\@bidi@orig@raggedleft\else\if@hboxRconstruct\@bidi@orig@raggedright\fi}
23563 \renewcommand\raggedright{\if@bidi@list@minipage@parbox\@bidi@orig@raggedleft\else\if@hboxRconstruct\@bidi@orig@raggedright\else\if@hboxRconstruct\@bidi@orig@raggedleft\fi}
23564 \newcommand{\bidi@raggedright}{\if@RTL\raggedleft\else\raggedright\fi}
23565 \newcommand{\bidi@raggedleft}{\if@RTL\raggedright\else\raggedleft\fi}
23566 \def\centerline#1{%
23567     \if@RTL\@@line{\hss\beginR#1\endR\hss}
23568     \else\@@line{\hss#1\hss}\fi}
23569 \def\leftline#1{%
23570     \if@RTL\@@line{\beginR#1\endR\hss}
23571     \else\@@line{#1\hss}\fi}
23572 \def\rightline#1{%
23573     \if@RTL\@@line{\hss\beginR#1\endR}
23574     \else\@@line{\hss#1}\fi}
23575 \let\@bidi@orig@leftline\leftline

```



```

23573 \let\ bidi@orig@rightline\rightline
23574 \def\leftline#1{\ifhmode\if@RTL\ bidi@orig@rightline{#1}\else\ bidi@orig@leftline{#1}\fi\else\
23575 \def\rightline#1{\ifhmode\if@RTL\ bidi@orig@leftline{#1}\else\ bidi@orig@rightline{#1}\fi\else\
23576 \def\bidirlap#1{\hb@xt@{z@}{\if@RTL\hss\fi#1\if@RTL\else\hss\fi}}
23577 \def\bidillap#1{\hb@xt@{z@}{\if@RTL\else\hss\fi#1\if@RTL\hss\fi}}
23578 \def\hangfrom#1{\setbox\@tempboxa\hbox{{#1}}}%
23579 \hangindent \if@RTL-\else\fi\wd\@tempboxa\noindent\box\@tempboxa}
23580 \def\narrower{%
23581 \advance\if@RTL\rightskip\else\leftskip\fi\parindent
23582 \advance\if@RTL\leftskip\else\rightskip\fi\parindent}
23583 \def\underline#1{%
23584 \relax
23585 \ifmmode\@@underline{#1}%
23586 \else
23587 \if@RTL $\@@underline{\hbox{\beginR#1\endR}}\m@th$\relax
23588 \else
23589 $\@@underline{\hbox{#1}}\m@th$\relax\fi\fi}
23590 \if@compatibility
23591 \let\undertext=\underline
23592 \fi
23593 \def\@tabular{%
23594 \leavevmode \hbox \bgroup \if@RTLtab\beginR \fi
23595 $\let\@acol\@tabacol
23596 \let\@classz\@tabclassz
23597 \let\@classiv\@tabclassiv \let\\\@tabularcr\@tabarray}
23598 \def\endtabular{\crr\egroup\if@RTLtab\egroup\endR\egroup\fi
23599 \egroup $\if@RTLtab\endR\fi\egroup}
23600 \expandafter \let \csname endtabular*\endcsname = \endtabular
23601 \def\@array[#1]#2{%
23602 \if #1t\vtop \else \if#1b\vbox \else \vcenter \fi\fi
23603 \bgroup
23604 \setbox\@arstrutbox\hbox{%
23605 \vrule \@height\arraystretch\ht\strutbox
23606 \@depth\arraystretch \dp\strutbox
23607 \@width\z@}%
23608 \mkpream{#2}%
23609 \edef\@preamble{%
23610 \ialign \noexpand\@halignto
23611 \bgroup \@arstrut \@preamble \tabskip\z@skip \cr}%
23612 \let\@startpbox\@startpbox \let\@endpbox\@endpbox
23613 \let\@tabularnewline\\%
23614 \let\par\@empty
23615 \let\@sharp##%
23616 \set@typeset@protect
23617 \lineskip\z@skip\baselineskip\z@skip
23618 \ifhmode \@preamerr\z@ \@@par\fi
23619 \if@RTLtab\hbox\bgroup\beginR\@hboxRconstructtrue\if #1t\vtop \else \vbox \fi\bgroup\fi
23620 \@preamble}
23621 \def\array{\let\@acol\@arrayacol \let\@classz\@arrayclassz
23622 \let\@classiv\@arrayclassiv
23623 \let\\\@arraycr\let\@halignto\@empty\@RTLtabfalse\@tabarray}
23624 \def\@testpach#1{\@chclass \ifnum \@lastchclass=\tw@ 4 \else
23625 \ifnum \@lastchclass=3 5 \else
23626 \z@ \if #1c\@chnum \z@ \else

```



```

23627             \if \ifRTLtab#1r\else#1l\fi\@chnum \@ne \else
23628             \if \ifRTLtab#1l\else#1r\fi\@chnum \tw@ \else
23629             \@chclass \if #1|\@ne \else
23630             \if #1@\tw@ \else
23631             \if #1p3 \else \z@ \@preamerr 0\fi
23632 \fi \fi \fi \fi \fi \fi
23633 \fi}
23634 \def\bm@l{\ifRTL\hss\unhbox\@tempboxa\else\unhbox\@tempboxa\hss\fi}
23635 \def\bm@r{\ifRTL\unhbox\@tempboxa\hss\else\hss\unhbox\@tempboxa\fi}
23636 \def\bm@t{\unhbox\@tempboxa\hss}
23637 \def\bm@b{\hss\unhbox\@tempboxa}
23638 \def\@dottedtocline#1#2#3#4#5{%
23639 \ifnum #1>\c@tocdepth \else
23640 \vskip \z@ \@plus.2\p@
23641 {\ifRTL\righskip\else\leftskip\fi #2\relax \ifRTL\leftskip\else\righskip\fi \@tocma
23642 \parindent #2\relax\@afterindenttrue
23643 \interlinepenalty\@M
23644 \leavevmode
23645 \@tempdima #3\relax
23646 \advance\ifRTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\ifRTL\righ
23647 {#4}\nobreak
23648 \leaders\hbox{$\m@th
23649 \mkern \@dotsep mu\hbox{.}\mkern \@dotsep
23650 mu$}\hfill
23651 \nobreak
23652 \hb@xt@\@pnumwidth{\hfil\normalfont \normalcolor #5}}%
23653 \par}%
23654 \fi}
23655
23656 \newcount\ bidi@column@check@number
23657
23658 \def\ bidi@column@status#1{\gdef\ bidi@current@column@status{#1}}
23659
23660 \def\ bidi@set@column@status#1#2{%
23661 \global\expandafter\let\csname #1\endcsname\ bidi@current@column@status}
23662
23663 \if@twocolumn
23664 \newcommand\DetectColumn[3][1]{%
23665 \ifx\ bidi@firstcolumn@status@write\relax
23666 \PackageError{bidi}%
23667 {Option 'DetectColumn' not selected}%
23668 {\string\DetectColumn\space
23669 requires the use of the 'DetectColumn'
23670 option on the package}%
23671 \fi
23672 \global\advance\ bidi@column@check@number\@ne
23673 \edef\ bidi@column@type{\expandafter\ifx
23674 \csname bidi@column-\the\ bidi@column@check@number\endcsname\relax
23675 0\else
23676 \csname bidi@column-\the\ bidi@column@check@number\endcsname
23677 \fi}%
23678 \ifcase \ bidi@column@type\relax
23679 \ifcase #1\or #2\or#3\fi % 0 not known use first column as default
23680 \or

```



```

23681      #2% % 1 First column
23682 \or
23683      #3% % 2 Second (Last column)
23684 \else
23685 \ERROR
23686 \fi
23687 \edef\next{\write\@auxout
23688     {\string\bidiset@column@status{\bidi@column-\the\bidi@column@check@number}%
23689     {\bidi@column@type}}}%
23690 \next
23691 }
23692
23693 \AtEndDocument{\def\bidi@set@column@status#1#2{%
23694     \ifnum #2=\bidi@current@column@status\else
23695         \@tempwatrue
23696     \fi}%
23697 }
23698 \fi
23699
23700 \def\RTL@outputdblcol{%
23701     \if@firstcolumn
23702         \global\@firstcolumnfalse
23703         \global\setbox\@leftcolumn\copy\@outputbox
23704         \splitmaxdepth\maxdimen
23705         \vbadness\maxdimen
23706         \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
23707         \setbox\@outputbox\vsplit\@outputbox to\maxdimen
23708         \toks@\expandafter{\topmark}%
23709         \xdef\@firstcoltopmark{\the\toks@}%
23710         \toks@\expandafter{\splitfirstmark}%
23711         \xdef\@firstcolfirstmark{\the\toks@}%
23712         \ifx\@firstcolfirstmark\@empty
23713             \global\let\@setmarks\relax
23714         \else
23715             \gdef\@setmarks{%
23716                 \let\firstmark\@firstcolfirstmark
23717                 \let\topmark\@firstcoltopmark}%
23718         \fi
23719     \else
23720         \global\@firstcolumntrue
23721         \setbox\@outputbox\vbox{%
23722             \hb@xt@\textwidth{%
23723                 \hskip \columnwidth
23724                 \hfil
23725                 {\normalcolor\vrule \@width\columnseprule}%
23726                 \hfil
23727                 \hb@xt@\columnwidth{%
23728                     \bidi@firstcolumn@status@write%
23729                     \box\@leftcolumn \hss}%
23730                 \hskip -\textwidth
23731                 \hb@xt@\columnwidth{%
23732                     \bidi@lastcolumn@status@write%
23733                     \box\@outputbox \hss}%
23734                 \hskip \columnsep

```



```

23735     \hskip \columnwidth } }%
23736 \@@combinedblfloats
23737     \@setmarks
23738     \@outputpage
23739     \beginngroup
23740     \@dblfloatplacement
23741     \@startdblcolumn
23742     \@whiles\if@fcolmade \fi{\@outputpage
23743     \@startdblcolumn}%
23744     \endgroup
23745 \fi}%
23746
23747 \def\LTR@outputdblcol{%
23748     \if@firstcolumn
23749         \global\@firstcolumnfalse
23750         \global\setbox\@leftcolumn\copy\@outputbox
23751         \splitmaxdepth\maxdimen
23752         \vbadness\maxdimen
23753         \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
23754         \setbox\@outputbox\vsplit\@outputbox to\maxdimen
23755         \toks@\expandafter{\topmark}%
23756         \xdef\@firstcoltopmark{\the\toks@}%
23757         \toks@\expandafter{\splitfirstmark}%
23758         \xdef\@firstcolfirstmark{\the\toks@}%
23759         \ifx\@firstcolfirstmark\@empty
23760             \global\let\@setmarks\relax
23761         \else
23762             \gdef\@setmarks{%
23763                 \let\firstmark\@firstcolfirstmark
23764                 \let\topmark\@firstcoltopmark}%
23765         \fi
23766     \else
23767         \global\@firstcolumntrue
23768         \setbox\@outputbox\vbox{%
23769             \hb@xt@\textwidth{%
23770                 \hb@xt@\columnwidth{%
23771                     \bidi@firstcolumn@status@write%
23772                     \box\@leftcolumn \hss}%
23773                 \hfil
23774                 {\normalcolor\vrule \@width\columnseprule}%
23775                 \hfil
23776                 \hb@xt@\columnwidth{%
23777                     \bidi@lastcolumn@status@write%
23778                     \box\@outputbox \hss}}}%
23779     \@@combinedblfloats
23780     \@setmarks
23781     \@outputpage
23782     \beginngroup
23783     \@dblfloatplacement
23784     \@startdblcolumn
23785     \@whiles\if@fcolmade \fi{\@outputpage
23786     \@startdblcolumn}%
23787     \endgroup
23788 \fi}%

```



```

23789
23790
23791 \renewcommand{\@outputdblcol}{\if@RTLmain\RTL@outputdblcol\else\LTR@outputdblcol\fi}
23792 \newcommand{\RTLdblcol}{\renewcommand{\@outputdblcol}{\RTL@outputdblcol}}
23793 \newcommand{\LTRdblcol}{\renewcommand{\@outputdblcol}{\LTR@outputdblcol}}
23794
23795 \bidi@patchcmd\@makecol{%
23796   \ifvoid\footins
23797     \setbox\@outputbox \box\@cclv
23798   \else
23799     \setbox\@outputbox \vbox {%
23800       \boxmaxdepth \@maxdepth
23801       \unvbox \@cclv
23802       \vskip \skip\footins
23803       \color@begingroup
23804         \normalcolor
23805         \footnoterule
23806         \unvbox \footins
23807       \color@endgroup
23808     }%
23809   \fi
23810 }{%
23811   \ifvoid\footins
23812     \ifvoid\@bidi@copyins@
23813       \setbox\@outputbox \box\@cclv
23814     \else
23815       \setbox\@outputbox \vbox {%
23816         \boxmaxdepth \@maxdepth
23817         \unvbox \@cclv
23818         \vskip \skip\@bidi@copyins@
23819         \color@begingroup
23820           \normalcolor
23821           \unvbox \@bidi@copyins@
23822         \color@endgroup
23823       }%
23824     \fi
23825   \else
23826     \setbox\@outputbox \vbox {%
23827       \boxmaxdepth \@maxdepth
23828       \unvbox \@cclv
23829       \vskip \skip\footins
23830       \color@begingroup
23831         \normalcolor
23832         \footnoterule
23833         \unvbox \footins
23834       \color@endgroup
23835     \ifvoid\@bidi@copyins@
23836     \else
23837       \vskip \skip\@bidi@copyins@
23838       \color@begingroup
23839         \normalcolor
23840         \unvbox \@bidi@copyins@
23841       \color@endgroup
23842     \fi

```



```

23843     }%
23844     \fi
23845 }{}{}
23846
23847 \def\LTRmarginpar{%
23848   \ifhmode
23849     \@bsphack
23850     \@floatpenalty -\@Mii
23851   \else
23852     \@floatpenalty-\@Miii
23853   \fi
23854   \ifinner
23855     \@parmoderr
23856     \@floatpenalty\z@
23857   \else
23858     \@next\@currbox\@freelist{}{}%
23859     \@next\@marbox\@freelist{\global\count\@marbox\m@ne}%
23860     {\@floatpenalty\z@
23861       \@fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}%
23862   \fi
23863   \ifnextchar [\@LTRxmpar\@LTRympar}
23864 \long\def\@LTRxmpar[#1]#2{%
23865   \@LTRsavemarbox\@marbox{#1}%
23866   \@LTRsavemarbox\@currbox{#2}%
23867   \@xympar}
23868 \long\def\@LTRympar#1{%
23869   \@LTRsavemarbox\@marbox{#1}%
23870   \global\setbox\@currbox\copy\@marbox
23871   \@xympar}
23872 \long\def \@LTRsavemarbox #1#2{%
23873   \global\setbox #1%
23874     \color@vbox
23875     \vtop{%
23876       \hsize\marginparwidth
23877       \@parboxrestore
23878       \@LTRmarginparreset
23879       #2%
23880       \@minipagefalse
23881       \outer@nobreak
23882     }%
23883   \color@endbox
23884 }
23885 \def \@LTRmarginparreset {%
23886   \reset@font
23887   \normalsize
23888   \@minipagetrue
23889   \everypar{\@minipagefalse\everypar{}\beginL}%
23890 }
23891 \def\RTLmarginpar{%
23892   \ifhmode
23893     \@bsphack
23894     \@floatpenalty -\@Mii
23895   \else
23896     \@floatpenalty-\@Miii

```



```

23897 \fi
23898 \ifinner
23899 \@parmoderr
23900 \@floatpenalty\z@
23901 \else
23902 \@next\@currbox\@freelist{}\{}%
23903 \@next\@marbox\@freelist{\global\count\@marbox\m@ne}%
23904 {\@floatpenalty\z@
23905 \@fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}%
23906 \fi
23907 \@ifnextchar [\@RTLxmpar\@RTLympar}
23908 \long\def\@RTLxmpar[#1]#2{%
23909 \@RTLSavemarbox\@marbox{#1}%
23910 \@RTLSavemarbox\@currbox{#2}%
23911 \@xympar}
23912 \long\def\@RTLympar#1{%
23913 \@RTLSavemarbox\@marbox{#1}%
23914 \global\setbox\@currbox\copy\@marbox
23915 \@xympar}
23916 \long\def \@RTLSavemarbox #1#2{%
23917 \global\setbox #1%
23918 \color@vbox
23919 \vtop{%
23920 \hsize\marginparwidth
23921 \@parboxrestore
23922 \@RTLmarginparreset
23923 #2%
23924 \@minipagefalse
23925 \outer@nobreak
23926 }%
23927 \color@endbox
23928 }
23929 \def \@RTLmarginparreset {%
23930 \reset@font
23931 \normalsize
23932 \@minipagetrue
23933 \everypar{\@minipagefalse\everypar{}\beginR}%
23934 }
23935 \def\@addmarginpar{\@next\@marbox\@currlist{\@cons\@freelist\@marbox
23936 \@cons\@freelist\@currbox}\@latexbug\@tempcnta\@ne
23937 \if@twocolumn
23938 \if@firstcolumn \@tempcnta\m@ne \fi
23939 \else
23940 \if@mparswitch
23941 \ifodd\c@page \else\@tempcnta\m@ne \fi
23942 \fi
23943 \if@reversemargin \@tempcnta -\@tempcnta \fi
23944 \fi
23945 \ifnum\@tempcnta <\z@ \global\setbox\@marbox\box\@currbox \fi
23946 \@tempdima\@parbottom
23947 \advance\@tempdima -\@pageht
23948 \advance\@tempdima\ht\@marbox
23949 \ifdim\@tempdima >\z@
23950 \@latex@warning@no@line {Marginpar on page \thepage\space moved}%

```





```

23951 \else
23952 \tempdima\z@
23953 \fi
23954 \global\@mparbottom\@pageht
23955 \global\advance\@mparbottom\tempdima
23956 \global\advance\@mparbottom\dp\@marbox
23957 \global\advance\@mparbottom\marginparpush
23958 \advance\tempdima -\ht\@marbox
23959 \global\setbox \@marbox
23960 \vbox {\vskip \tempdima
23961 \box \@marbox}%
23962 \global \ht\@marbox \z@
23963 \global \dp\@marbox \z@
23964 \kern -\@pagedp
23965 \nointerlineskip
23966 \hb@xt@\columnwidth
23967 {\if@RTL\if@LTRmarginpar\beginL\else\beginR\fi\else\if@RTLmarginpar\beginR\else\beginL
23968 \hskip\columnwidth \hskip\marginparsep
23969 \else
23970 \hskip -\marginparsep \hskip -\marginparwidth
23971 \fi
23972 \box\@marbox \hss\if@RTL\if@LTRmarginpar\endL\else\endR\fi\else\if@RTLmarginpar\endR
23973 \nointerlineskip
23974 \hbox{\vrule \@height\z@ \@width\z@ \@depth\@pagedp}}
23975 \long\def\@ympar#1{%
23976 \savemarbox\@marbox{\if@RTL\if@LTRmarginpar\@RTLfalse\else\@RTLtrue\fi\else\if@RTLmarginpar
23977 \global\setbox\@currbox\copy\@marbox
23978 \@xympar}
23979 \def\setRTLmarginpar{\@RTLmarginpartrue\@LTRmarginparfalse}
23980 \def\setLTRmarginpar{\@LTRmarginpartrue\@RTLmarginparfalse}
23981 \def\setdefaultmarginpar{\@RTLmarginparfalse\@LTRmarginparfalse}
23982 \def\@stopline{\unskip\@stopfield\if@rjfield \global\@rjfieldfalse
23983 \tempdima\@totalleftmargin \advance\tempdima\linewidth
23984 \hbox to\tempdima{\if@RTL\beginR\fi\@itemfudge\hskip\dimen\@curtabmar
23985 \box\@curline\hfil\box\@curfield\if@RTL\endR\fi}\else\@addfield
23986 \hbox to\linewidth{\if@RTL\beginR\fi\@itemfudge
23987 \hskip\dimen\@curtabmar\box\@curline\hfil\if@RTL\endR\fi}%
23988 \fi}
23989
23990 \newcommand*{\bidi@font@outputpage}{}
23991
23992 \def\@outputpage{%
23993 \begingroup % the \endgroup is put in by \aftergroup
23994 \let \protect \noexpand
23995 \resetactivechars
23996 \global\let\@if@newlist\if@newlist
23997 \global\@newlistfalse
23998 \parboxrestore
23999 \global\let\bidi@BeforeOutputPageShipOut\@firstofone
24000 \bidi@beforeoutputpageshipouthook
24001 \shipout \vbox{%
24002 \set@typeset@protect
24003 \aftergroup \endgroup
24004 \aftergroup \set@typeset@protect

```



```

24005                                     % correct? or just restore by ending
24006                                     % the group?
24007 \if@specialpage
24008   \global\@specialpagefalse\@nameuse{ps@\@specialstyle}%
24009 \fi
24010 \if@twoside
24011   \ifodd\count\z@ \let\@thehead\@oddhead \let\@thefoot\@oddfoot
24012   \ifRTLmain
24013     \let\@themargin\evensidemargin
24014   \else
24015     \let\@themargin\oddsidemargin
24016   \fi
24017 \else \let\@thehead\@evenhead \let\@thefoot\@evenfoot
24018   \ifRTLmain
24019     \let\@themargin\oddsidemargin
24020   \else
24021     \let\@themargin\evensidemargin
24022   \fi
24023 \fi
24024 \ifx\@thehead\@empty \let\@thehead\hfil \fi
24025 \ifx\@thefoot\@empty \let\@thefoot\hfil \fi
24026 \else %% not @twoside
24027 \ifx\@oddhead\@empty \let\@thehead\hfil \fi
24028 \ifx\@oddfoot\@empty \let\@thefoot\hfil \fi
24029 \fi
24030 \reset@font
24031 \normalsize
24032 \bidi@font@@outputpage
24033 \normalsfcodes
24034 \let\label\@gobble
24035 \let\index\@gobble
24036 \let\glossary\@gobble
24037 \baselineskip\z@skip \lineskip\z@skip \lineskiplimit\z@
24038 \@beginindv
24039 \vskip \topmargin
24040 \moveright\@themargin \vbox {%
24041   \global\let\bidi@BeforeHeader\@firstofone
24042   \bidi@beforeheaderhook
24043   \setbox\@tempboxa \vbox to\headheight{%
24044     \vfil
24045     \color@hbox
24046     \normalcolor
24047     \hb@xt@\textwidth{\ifRTLmain\@RTLtrue\beginR\else\@RTLfalse\beginL\fi\@thehead\if
24048     \color@endbox
24049   }%
24050   \dp\@tempboxa \z@
24051   \box\@tempboxa
24052   \vskip \headsep
24053   \global\let\bidi@BeforeOutputBoxOutputPage\@firstofone
24054   \bidi@beforeoutputboxoutputpagehook
24055   \box\@outputbox
24056   \global\let\bidi@AfterOutputBoxOutputPage\@firstofone
24057   \bidi@afteroutputboxoutputpagehook
24058   \global\let\bidi@BeforeFooter\@firstofone

```



```

24059 \bidi@beforefooterhook
24060 \baselineskip \footskip
24061 \color@hbox
24062 \normalcolor
24063 \hb@xt@{\textwidth}{\if@RTLmain\@RTLtrue\beginR\else\@RTLfalse\beginL\fi\@thefoot\if@RTL
24064 \color@endbox
24065 \global\let\bidi@AfterFooter\@firstofone
24066 \bidi@afterfooterhook
24067 }%
24068 }%
24069 \global\let\bidi@AfterOutputPageShipOut\@firstofone
24070 \bidi@afteroutputpageshipouthook
24071 \global\let\if@newlist\@if@newlist
24072 \global \colht \textheight
24073 \stepcounter{page}%
24074 \let\firstmark\botmark
24075 \global\let\bidi@AtEndOutputPage\@firstofone
24076 \bidi@atendoutputpagehook
24077 }
24078 \long\def\@makecaption#1#2{%
24079 \vskip\abovecaptionskip
24080 \sbox\@tempboxa{#1: #2}%
24081 \ifdim \wd\@tempboxa >\hsize
24082 \if@RTL\beginR\fi#1: #2\if@RTL\endR\fi\par
24083 \else
24084 \global \@minipagefalse
24085 \hb@xt@\hsize{\if@RTL\beginR\fi\hfil\box\@tempboxa\hfil\if@RTL\endR\fi}%
24086 \fi
24087 \vskip\belowcaptionskip}
24088 \let\bidi@saved@eqno=\eqno
24089 \let\bidi@saved@leqno=\leqno
24090 \def\eqno{\ifnum\predisplaydirection<\z@ \bidi@saved@leqno \else \bidi@saved@eqno \fi}
24091 \def\leqno{\ifnum\predisplaydirection<\z@ \bidi@saved@eqno \else \bidi@saved@leqno \fi}
24092 \ifpackageloaded{amsmath}{-}{-}
24093 \def\@eqnnum{\normalfont \normalcolor \if@RTL\beginR\fi(\theequation)\if@RTL\endR\fi}
24094 }
24095 \input{footnote-xetex-bidi.def}
24096 \if@twocolumn
24097 \let\autofooterule\relax
24098 \let\leftfootnoterule\relax
24099 \let\rightfootnoterule\relax
24100 \textwidthfootnoterule
24101 \fi
24102 \if@bidi@csundef{\@idxitem}{-}{-}%
24103 \renewcommand\@idxitem{\par\hangindent \if@RTL-\fi40\p}%
24104 }
24105 \ifpackageloaded{tocbasic}{\input{tocbasic-xetex-bidi.def}}{-}
24106 \ifclassloaded{article}{\ifclassloaded{svmult}}{-}{\input{article-xetex-bidi.def}}{-}
24107 \ifclassloaded{extarticle}{\input{extarticle-xetex-bidi.def}}{-}
24108 \ifclassloaded{artikel1}{\input{artikel1-xetex-bidi.def}}{-}
24109 \ifclassloaded{artikel2}{\input{artikel2-xetex-bidi.def}}{-}
24110 \ifclassloaded{artikel3}{\input{artikel3-xetex-bidi.def}}{-}
24111 \ifclassloaded{amsart}{\input{amsart-xetex-bidi.def}}{-}
24112 \ifclassloaded{beamer}{\input{beamer-xetex-bidi.def}}{-}

```



```

24113 \@ifclassloaded{letter}{\input{letter-xetex-bidi.def}}{}
24114 \@ifclassloaded{extletter}{\input{extletter-xetex-bidi.def}}{}
24115 \@ifclassloaded{memoir}{\input{memoir-xetex-bidi.def}}{}
24116 \@ifclassloaded{refrep}{\input{refrep-xetex-bidi.def}}{}
24117 \@ifclassloaded{extreport}{\input{extreport-xetex-bidi.def}}{}
24118 \@ifclassloaded{report}{\@ifpackageloaded{flowfram}{\input{report-xetex-bidi.def}}{}}{}
24119 \@ifclassloaded{rapport1}{\input{rapport1-xetex-bidi.def}}{}
24120 \@ifclassloaded{rapport3}{\input{rapport3-xetex-bidi.def}}{}
24121 \@ifclassloaded{scrartcl}{\input{scrartcl-xetex-bidi.def}}{}
24122 \@ifclassloaded{scrbook}{\input{scrbook-xetex-bidi.def}}{}
24123 \@ifclassloaded{scrreprt}{\input{scrreprt-xetex-bidi.def}}{}
24124 \@ifclassloaded{amsbook}{\input{amsbook-xetex-bidi.def}}{}
24125 \@ifclassloaded{extbook}{\input{extbook-xetex-bidi.def}}{}
24126 \@ifclassloaded{boek}{\input{boek-xetex-bidi.def}}{}
24127 \@ifclassloaded{boek3}{\input{boek3-xetex-bidi.def}}{}
24128 \@ifclassloaded{book}{\@ifpackageloaded{flowfram}{\input{book-xetex-bidi.def}}{}}{}
24129 \@ifclassloaded{bookest}{\input{bookest-xetex-bidi.def}}{}
24130 \@ifclassloaded{combine}{\input{combine-xetex-bidi.def}}{}
24131 \@ifclassloaded{imsproc}{\input{imsproc-xetex-bidi.def}}{}
24132 \@ifpackageloaded{amsmath}{\%
24133 \@iftagsloaded{leqno}{\input{leqno-xetex-bidi.def}}{}
24134 \@iftagsloaded{fleqn}{\input{fleqn-xetex-bidi.def}}{}
24135 }
24136 \@ifpackageloaded{mathtools}{\%
24137 \RequirePackage{graphicx}%
24138 \input{mathtools-xetex-bidi.def}%
24139 }{}
24140 \@ifpackageloaded{crop}{\RequirePackage{graphicx}}{}
24141 \@ifpackageloaded{lscap}{\RequirePackage{graphicx}}{}
24142 \@ifpackageloaded{sidecap}{\RequirePackage{ragged2e}}{}
24143 \@ifpackageloaded{floatrow}{\RequirePackage{color}}{}
24144 \@ifpackageloaded{algorithm2e}{\input{algorithm2e-xetex-bidi.def}}{}
24145 \@ifpackagewith{algorithm2e}{algonl}{\%
24146 \renewcommand{\theAlgoLine}{\expandafter\csname the\algocf@float\endcsname\@SepMark\arabic{A
24147 }{}
24148 \@ifpackagewith{algorithm2e}{algotpart}{\renewcommand{\algocf@within}{part}}{}
24149 \@ifpackagewith{algorithm2e}{algotchapter}{\renewcommand{\algocf@within}{chapter}}{}
24150 \@ifpackagewith{algorithm2e}{algotsection}{\renewcommand{\algocf@within}{section}}{}
24151 \@ifpackageloaded{amsmath}{\input{amsmath-xetex-bidi.def}}{}
24152 \@ifpackageloaded{amstext}{\input{amstext-xetex-bidi.def}}{}
24153 \@ifpackageloaded{amsthm}{\input{amsthm-xetex-bidi.def}}{}
24154 \@ifpackageloaded{breqn}{\input{breqn-xetex-bidi.def}}{}
24155 \@ifpackageloaded{cals}{\input{cals-xetex-bidi.def}}{}
24156 \@ifpackageloaded{caption}{\input{caption-xetex-bidi.def}}{}
24157 \@ifpackageloaded{caption3}{\input{caption3-xetex-bidi.def}}{}
24158 \@ifpackageloaded{floatrow}{\input{floatrow-xetex-bidi.def}}{}
24159 \@ifpackageloaded{crop}{\@ifclassloaded{memoir}{\input{crop-xetex-bidi.def}}{}}{}
24160 \@ifpackageloaded{color}{\input{color-xetex-bidi.def}}{}
24161 \@ifpackageloaded{cutwin}{\input{cutwin-xetex-bidi.def}}{}
24162 \@ifpackageloaded{cuted}{\input{cuted-xetex-bidi.def}}{}
24163 \@ifpackageloaded{xcolor}{\input{xcolor-xetex-bidi.def}}{}
24164 \@ifpackageloaded{colortbl}{\input{colortbl-xetex-bidi.def}}{}
24165 \@ifpackageloaded{float}{\@ifpackageloaded{floatrow}{\input{float-xetex-bidi.def}}{}}{}
24166 \@ifpackageloaded{flowfram}{\input{flowfram-xetex-bidi.def}}{}

```



```

24167 \@ifpackageloaded{xltextra}{\input{xltextra-xetex-bidi.def}}{}
24168 \@ifpackageloaded{wrapfig}{\input{wrapfig-xetex-bidi.def}}{}
24169 \@ifpackageloaded{graphicx}{\input{graphicx-xetex-bidi.def}}{}
24170 \@ifpackageloaded{geometry}{\input{geometry-xetex-bidi.def}}{}
24171 \@ifpackageloaded{hvfloat}{\input{hvfloat-xetex-bidi.def}}{}
24172 \@ifpackageloaded{ntheorem}{\input{ntheorem-xetex-bidi.def}}{}
24173 \@ifpackageloaded{tabularx}{\input{tabularx-xetex-bidi.def}}{}
24174 \@ifpackageloaded{longtable}{\input{longtable-xetex-bidi.def}}{}
24175 \@ifpackageloaded{lscape}{\input{lscape-xetex-bidi.def}}{}
24176 \@ifpackageloaded{hyperref}{\input{hyperref-xetex-bidi.def}}{}
24177 \@ifpackageloaded{footnotebackref}{\input{footnotebackref-xetex-bidi.def}}{}
24178 \@ifpackageloaded{ntheorem-hyper}{\input{ntheorem-hyper-xetex-bidi.def}}{}
24179 \@ifpackageloaded{fancybox}{\input{fancybox-xetex-bidi.def}}{}
24180 \@ifpackageloaded{fancyhdr}{\input{fancyhdr-xetex-bidi.def}}{}
24181 \@ifpackageloaded{fix2col}{\input{fix2col-xetex-bidi.def}}{}
24182 \@ifpackageloaded{ftnright}{\input{ftnright-xetex-bidi.def}}{}
24183 \@ifpackageloaded{midfloat}{\input{midfloat-xetex-bidi.def}}{}
24184 \@ifpackageloaded{draftwatermark}{\input{draftwatermark-xetex-bidi.def}}{}
24185 \@ifpackageloaded{dblfnote}{\input{dblfnote-xetex-bidi.def}}{}
24186 \@ifpackageloaded{diagbox}{\input{diagbox-xetex-bidi.def}}{}
24187 \@ifpackageloaded{eso-pic}{\input{eso-pic-xetex-bidi.def}}{}
24188 \@ifpackageloaded{empheq}{\input{empheq-xetex-bidi.def}}{}
24189 \@ifpackageloaded{framed}{\input{framed-xetex-bidi.def}}{}
24190 \@ifpackageloaded{overpic}{\input{overpic-xetex-bidi.def}}{}
24191 \@ifpackageloaded{pdfbase}{\input{pdfbase-xetex-bidi.def}}{}
24192 \@ifpackageloaded{pdfscape}{\input{pdfscape-xetex-bidi.def}}{}
24193 \@ifpackageloaded{pdfpages}{\input{pdfpages-xetex-bidi.def}}{}
24194 \@ifpackageloaded{lettrine}{\input{lettrine-xetex-bidi.def}}{}
24195 \@ifpackageloaded{lineno}{\input{lineno-xetex-bidi.def}}{}
24196 \@ifpackageloaded{listings}{\input{listings-xetex-bidi.def}}{}
24197 \@ifpackageloaded{media9}{\RequirePackage{bidi-media9}}{}
24198 \@iftexfileloaded{pstricks}{\input{pstricks-xetex-bidi.def}}{}
24199 \@iftexfileloaded{pgfcorescopes.code}{\input{pgfcorescopes.code-xetex-bidi.def}}{}
24200 \@ifpackageloaded{titlesec}{\input{titlesec-xetex-bidi.def}}{}
24201 \@ifpackageloaded{titletoc}{\input{titletoc-xetex-bidi.def}}{}
24202 \@ifpackageloaded{array}{\input{array-xetex-bidi.def}}{}
24203 \@ifpackageloaded{sidecap}{\input{sidecap-xetex-bidi.def}}{}
24204 \@ifpackagewith{sidecap}{innercaption}{%
24205 \if@RTL \renewcommand*{\SC@FLOAT}[2]{%
24206 \isSC@ODD{#2}\hspace{\sidecaptionsep}{#1}} {{#1}\hspace{\sidecaptionsep}{#2}}
24207 \renewcommand*{\SC@justify@caption{%
24208 \isSC@ODD{\RaggedRight}{\RaggedLeft}}\else
24209 \renewcommand*{\SC@FLOAT}[2]{%
24210 \isSC@ODD{#1}\hspace{\sidecaptionsep}{#2}} {{#2}\hspace{\sidecaptionsep}{#1}}
24211 \renewcommand*{\SC@justify@caption{%
24212 \isSC@ODD{\RaggedLeft}{\RaggedRight}}\fi
24213 }{}
24214 \@ifpackagewith{sidecap}{rightcaption}{%
24215 \if@RTL\renewcommand*{\SC@FLOAT}[2]{#1}\hspace{\sidecaptionsep}{#2}}
24216 \def\SC@justify@caption{\RaggedLeft}\else%
24217 \renewcommand*{\SC@FLOAT}[2]{#2}\hspace{\sidecaptionsep}{#1}}
24218 \def\SC@justify@caption{\RaggedRight}\fi%
24219 }{}
24220 \@ifpackagewith{sidecap}{leftcaption}{%

```



```

24221 \if@RTL \renewcommand*{\SC@FLOAT}[2][{\#2}\hspace{\sidecaptionsep}{\#1}}
24222 \def\SC@justify@caption{\RaggedRight}\else%
24223 \renewcommand*{\SC@FLOAT}[2][{\#1}\hspace{\sidecaptionsep}{\#2}}
24224 \def\SC@justify@caption{\RaggedLeft}\fi%
24225 }{}
24226 \@ifpackageloaded{soul}{\input{soul-xetex-bidi.def}}{}
24227 \@ifpackageloaded{stabular}{\input{stabular-xetex-bidi.def}}{}
24228 \@ifpackageloaded{subfigure}{\input{subfigure-xetex-bidi.def}}{}
24229 \@ifpackageloaded{arydshln}{\input{arydshln-xetex-bidi.def}}{}
24230 \@ifpackageloaded{mdframed}{\input{mdframed-xetex-bidi.def}}{}
24231 \@ifpackageloaded{multicol}{\input{multicol-xetex-bidi.def}}{}
24232 \@ifpackageloaded{adjmulticol}{\input{adjmulticol-xetex-bidi.def}}{}
24233 \@ifpackageloaded{multienum}{\input{multienum-xetex-bidi.def}}{}
24234 \@ifpackageloaded{natbib}{\input{natbib-xetex-bidi.def}}{}
24235 \@ifpackageloaded{newfloat}{\input{newfloat-xetex-bidi.def}}{}
24236 \@ifpackageloaded{minitoc}{\input{minitoc-xetex-bidi.def}}{}
24237 \@ifpackageloaded{pgfsys}{\input{pgfsys.code-xetex-bidi.def}}{}
24238 \@ifpackageloaded{picinpar}{\input{picinpar-xetex-bidi.def}}{}
24239 \@ifpackageloaded{quotchap}{\input{quotchap-xetex-bidi.def}}{}
24240 \@ifpackageloaded{ragged2e}{\input{ragged2e-xetex-bidi.def}}{}
24241 \@ifpackageloaded{rotating}{\input{rotating-xetex-bidi.def}}{}
24242 \@ifpackageloaded{tbls}{\input{tbls-xetex-bidi.def}}{}
24243 \@ifpackageloaded{tabulary}{\input{tabulary-xetex-bidi.def}}{}
24244 \@ifpackageloaded{tcolorbox}{\input{tcolorbox-xetex-bidi.def}}{}
24245 \@ifpackageloaded{tocstyle}{\input{tocstyle-xetex-bidi.def}}{}
24246 \@ifpackageloaded{tocbibind}{\@ifclassloaded{memoir}{\input{tocbibind-xetex-bidi.def}}{}}
24247 \@ifpackageloaded{tocloft}{\@ifclassloaded{memoir}{\input{tocloft-xetex-bidi.def}}{}}
24248 \@ifdefinitionfileloaded{tc-xetex}{\input{tc-xetex-bidi.def}}{}
24249 \@ifpackageloaded{todonotes}{\input{todonotes-xetex-bidi.def}}{}
24250 \@ifpackageloaded{beamerbaseauxtemplates}{\input{beamerbaseauxtemplates-xetex-bidi.def}}{}
24251 \@ifpackageloaded{beamerbaseboxes}{\input{beamerbaseboxes-xetex-bidi.def}}{}
24252 \@ifpackageloaded{beamerbasecolor}{\input{beamerbasecolor-xetex-bidi.def}}{}
24253 \@ifpackageloaded{beamerbaseframecomponents}{\input{beamerbaseframecomponents-xetex-bidi.def}}
24254 \@ifpackageloaded{beamerbaselocalstructure}{\input{beamerbaselocalstructure-xetex-bidi.def}}
24255 \@ifpackageloaded{beamerbasenavigation}{\input{beamerbasenavigation-xetex-bidi.def}}{}
24256 \@ifpackageloaded{beamerinnerthemedefault}{\input{beamerinnerthemedefault-xetex-bidi.def}}{}
24257 \@ifpackageloaded{beamerinnerthemecircles}{\input{beamerinnerthemecircles-xetex-bidi.def}}{}
24258 \@ifpackageloaded{beamerinnerthemeinmargin}{\input{beamerinnerthemeinmargin-xetex-bidi.def}}
24259 \@ifpackageloaded{beamerinnerthemerectangles}{\input{beamerinnerthemerectangles-xetex-bidi.d
24260 \@ifpackageloaded{beamerinnerthemerrounded}{\input{beamerinnerthemerrounded-xetex-bidi.def}}{}
24261 \@ifpackageloaded{beamerouterthemedefault}{\input{beamerouterthemedefault-xetex-bidi.def}}{}
24262 \@ifpackageloaded{beamerouterthemeinfolines}{\input{beamerouterthemeinfolines-xetex-bidi.def}
24263 \@ifpackageloaded{beamerouterthememiniframes}{\input{beamerouterthememiniframes-xetex-bidi.d
24264 \@ifpackageloaded{beamerouterthemesidebar}{\input{beamerouterthemesidebar-xetex-bidi.def}}{}
24265 \@ifpackageloaded{beamerouterthemesplit}{\input{beamerouterthemesplit-xetex-bidi.def}}{}
24266 \@ifpackageloaded{beamerouterthemeshadow}{\input{beamerouterthemeshadow-xetex-bidi.def}}{}
24267 \@ifpackageloaded{beamerouterthemesmoothbars}{\input{beamerouterthemesmoothbars-xetex-bidi.d
24268 \@ifpackageloaded{beamerouterthemesmoothtree}{\input{beamerouterthemesmoothtree-xetex-bidi.d
24269 \@ifpackageloaded{beamerouterthemetree}{\input{beamerouterthemetree-xetex-bidi.def}}{}
24270 \@ifpackageloaded{beamerthemeHannover}{\input{beamerthemeHannover-xetex-bidi.def}}{}
24271 \@ifpackageloaded{beamerthemeSingapore}{\input{beamerthemeSingapore-xetex-bidi.def}}{}

```

## 154 File xltextra-xetex-bidi.def



```

24272 \ProvidesFile{xltextra-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for xltextra package f
24273 \let\@XeTeX\XeTeX
24274 \def\XeTeX{\@ensure@LTR{\@XeTeX}}
24275 \let\@XeLaTeX\XeLaTeX
24276 \def\XeLaTeX{\@ensure@LTR{\@XeLaTeX}}

```

## 155 Index

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