



# The bidi *Package*

Documentation for *version 30.1*

*to my Master, Ferdowsi The Great*

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# The *bid* Package

## Bidirectional typesetting in plain T<sub>E</sub>X and L<sup>A</sup>T<sub>E</sub>X, using XeT<sub>E</sub>X engine

Documentation for [version 30.1](#)

Vafa Khalighi  
[persian-tex@tug.org](mailto:persian-tex@tug.org)

February 25, 2017

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## Introduction

bidi provides a convenient interface for typesetting bidirectional texts in plain  $\text{\TeX}$  and  $\text{\LaTeX}$ , using the  $\text{\XeTeX}$  engine.

### bidi Info On The Terminal and In The Log File

If you use bidi package to write any input  $\text{\TeX}$  document, and then run `xelatex` on your document, bidi writes some information about itself to the terminal and to the log file. The information is something like:

```
*****
*
* bidi package (Bidirectional typesetting in
* plain TeX and LaTeX, using XeTeX engine)
*
* Description: A convenient interface for
* typesetting bidirectional texts in plain TeX
* and LaTeX. The package includes adaptations
* for use with many other commonly-used packages.
*
* Copyright (c) 2009--2017 Vafa Khalighi
*
* 2017/02/25, v30.1
*
* License: LaTeX Project Public License, version
* 1.3c or higher (your choice)
*
* Location on CTAN: /macros/xetex/latex/bidi
*
* Issue tracker: https://github.com/tex-xet/bidi/issues
*
* Support: persian-tex@tug.org
*****
```

## Part I

# $\text{\LaTeX}$ Manual

## 1 Basics

### 1.1 Loading The Package

You can load the package in the ordinary way;



```
\usepackage [Options] {bidi}
```

Where options of the package are explained later in [subsection 1.5](#).

When loading the package, it is important to know that:

- ❶ bidi should be the last package that you load, because otherwise you are certainly going to overwrite bidi's definitions and consequently, you will not get the expected output.
- ❷ In fact, bidi makes sure that some specific packages are loaded before bidi; these are those packages that bidi modifies them for bidirectional typesetting. If you load bidi before any of these packages, then you will get an error saying that you should load bidi as your last package.

For instance, consider the following minimal example:

```
1 \documentclass{minimal}
2 \usepackage{bidi}
3 \usepackage{graphicx}
4 \begin{document}
5 This is just a test.
6 \end{document}
```

Where graphicx is loaded after bidi. If you run xelatex on this document, you will get an error which looks like this:

```
! Package bidi Error: Oops! you have loaded package graphicx after
bidi package. Please load package graphicx before bidi package, and
then try to run xelatex on your document again.
```

```
See the bidi package documentation for explanation.
Type H <return> for immediate help.
...
```

```
1.4 \begin{document}
```

```
?
```

## 1.2 bidi's Symbol

As you may know lion symbolizes T<sub>E</sub>X but lion does not symbolizes bidi. **Simorgh**<sup>1</sup> (shown on the first page of this documentation) symbolizes bidi.

<sup>1</sup>Simorgh is an Iranian benevolent, mythical flying creature which has been shown on the titlepage of this documentation. For more details see <http://en.wikipedia.org/wiki/Simurgh>



### 1.3 Commands for Version number, and Date of The Package

`\bidiversion \bididate`

☞ `\bidiversion` gives the current version of the package.

☞ `\bididate` gives the current date of the package.

```
1 \documentclass{article}
2 \usepackage{bidi}
3 \begin{document}
4 This is typeset by \textsf{bidi} package, \bidiversion, \bididate.
5 \end{document}
```

### 1.4 Turning TeX--XeT features on and off

The bidirectional typesetting in Xe<sub>T</sub>EX is based on TeX--XeT algorithm and bidi package automatically turns the feature on for typesetting bidirectional texts. As the internal data structures built by TeX--XeT differ from those built by T<sub>E</sub>X, the typesetting of a document by TeX--XeT may therefore differ from that performed by T<sub>E</sub>X. So you may notice that some packages behave differently when TeX--XeT feature is on and you may want to turn the feature off for a part of the text so that you get the default behaviour of original T<sub>E</sub>X. Two commands are provided for this purpose:

`\TeXXeTOn \TeXXeTOff`

☞ `\TeXXeTOn` turns TeX--XeT feature on, which is active by default when bidi package is loaded.

☞ `\TeXXeTOff` turns TeX--XeT feature off.

### 1.5 Options of The Package

There are three options, namely `RTLdocument` and `rldocument`, which are essentially equivalent. If you pass any of these options to the package, you will be typesetting a document containing mainly RTL texts with some LTR texts. These options activate `\setRTL` (explained in [subsection 5.4](#)), `\RTLdblcol` (explained in [subsection 1.10](#)) and `\autofootnoterule` (explained in [subsubsection 1.9.1](#)).

It is clear that if you do not pass any of these options to the package, you will be typesetting a document containing mainly LTR texts with some RTL texts.

There is also `extrafootnotefeatures` option that allows footnotes to be typeset in different formats:



```

\normalfootnotes
\twocolumnfootnotes \threecolumnfootnotes \fourcolumnfootnotes
\fivecolumnfootnotes \sixcolumnfootnotes \sevendcolumnfootnotes
\eightcolumnfootnotes \nincolumnfootnotes \tencolumnfootnotes
\RTLcolumnfootnotes \LTRcolumnfootnotes
\paragraphfootnotes
\setLTRparagraphfootnotes \setRTLparagraphfootnotes

```

☞ `\normalfootnotes` typesets footnotes in Standard  $\LaTeX$  format.

☞ `\twocolumnfootnotes` to `\tencolumnfootnotes`, typeset footnotes in two-columns to ten-columns, respectively.

☞ `\RTLcolumnfootnotes` typesets footnotes columns RTL (first column on the RHS and each next column to the left of the previous column) and `\LTRcolumnfootnotes` typesets footnotes columns LTR (first column on the LHS and each next column to the right of the previous column). `\LTRcolumnfootnotes` is active by default.

☞ `\paragraphfootnotes` typesets footnotes in paragraph format.

☞ `\setLTRparagraphfootnotes` makes footnotes run from left to right. This command is active by default.

☞ `\setRTLparagraphfootnotes` makes footnotes run from right to left.

Please note that when using `extrafootnotefeatures` option, the footnote rule will be as wide as the text width and `\autofootnoterule`, `\rightfootnoterule`, `\leftfootnoterule`, and `\textwidthfootnoterule` commands have no effects. Please also note that if you redefine `\baselinestretch` command or change the value of `\baselineskip` primitive before `\paragraphfootnotes` command, then you may get Arithmetic Overflow error. You should change these after using `\paragraphfootnotes` command.

## 1.6 Paragraph Switching Commands

```

\setLTR \setLR \unsetRL \unsetRTL
\setRTL \setRL \unsetLTR

```

☞ With any of the commands in the first row, you can typeset LTR paragraphs.

☞ With any of the commands in the second row, you can typeset RTL paragraphs.

```

1 \documentclass{article}
2 \usepackage{bidi}
3 \begin{document}
4 \setRTL%

```





```

5 Anyone who reads Old and Middle English literary texts will be
6 familiar with the mid-brown volumes of the EETS, with the symbol
7 of Alfred's jewel embossed on the front cover.
8
9 \setLTR% Notice the blank line before \setLTR
10 Anyone who reads Old and Middle English literary texts will be
11 familiar with the mid-brown volumes of the EETS, with the symbol
12 of Alfred's jewel embossed on the front cover.
13 \end{document}

```

## 1.7 Paragraph Switching Environments

```

\begin{LTR}  <text>  \end{LTR}
\begin{RTL}  <text>  \end{RTL}

```

☞ With LTR environment, you can typeset LTR paragraphs.

☞ With RTL environment, you can typeset RTL paragraphs.

```

1 \documentclass{article}
2 \usepackage{bidi}
3 \begin{document}
4 \begin{RTL}
5 Anyone who reads Old and Middle English literary texts will be familiar
6 with the mid-brown volumes of the EETS, with the symbol
7 of Alfred's jewel embossed on the front cover.
8 \begin{LTR}
9 Anyone who reads Old and Middle English literary texts will be familiar
10 with the mid-brown volumes of the EETS, with the symbol
11 of Alfred's jewel embossed on the front cover.
12 \end{LTR}
13 And we are still typesetting RTL.
14 \end{RTL}
15 \end{document}

```

## 1.8 Typesetting Short LTR and RTL Texts

```

\LRE{<text>}  \LR{<text>}
\RLE{<text>}  \RL{<text>}

```

☞ With any of the commands in the first row, you can typeset short LTR text inside RTL paragraphs.

☞ With any of the commands in the second row, you can typeset short RTL text inside LTR paragraphs.



```

1 \begin{document}
2 \begin{RTL}
3 Anyone who reads Old and Middle English \LRE{Short LTR text} literary
4 texts will be familiar
5 with the mid-brown volumes of the EETS, with the symbol
6 of Alfred's jewel embossed on the front cover.
7 \begin{LTR}
8 Anyone who reads Old and Middle English \RLE{Short RTL text} literary
9 texts will be familiar
10 with the mid-brown volumes of the EETS, with the symbol
11 of Alfred's jewel embossed on the front cover.
12 \end{LTR}
13 \end{RTL}
14 \end{document}

```

## 1.9 Footnotes

```

\footnote [num] {\text} \LTRfootnote [num] {\text} \RTLfootnote [num] {\text}
\setfootnoteRL \setfootnoteLR \unsetfootnoteRL
\thanks{\text} \LTRthanks{\text} \RTLthanks{\text}

```

- ☞ `\footnote` in RTL mode produces an RTL footnote while in LTR mode it produces an LTR footnote.
- ☞ `\LTRfootnote` will always produce an LTR footnote, independent on the current mode.
- ☞ `\RTLfootnote` will always produce an RTL footnote, independent on the current mode.
- ☞ Specifying a `\setfootnoteRL` command anywhere will make `\footnote` produce an RTL footnote.
- ☞ Specifying either a `\setfootnoteLR` or an `\unsetfootnoteRL` command anywhere will make `\footnote` produce an LTR footnote.
- ☞ `\thanks` (to be used only inside `\author` or `\title` argument) in RTL mode produces an RTL footnote while in LTR mode it produces an LTR footnote.
- ☞ `\LTRthanks` (to be used only inside `\author` or `\title` argument) will always produce an LTR footnote, independent on the current mode.
- ☞ `\RTLthanks` (to be used only inside `\author` or `\title` argument) will always produce an RTL footnote, independent on the current mode.



```
\footnotetext [num] {<text>} \LTRfootnotetext [num] {<text>}  
\RTLfootnotetext [num] {<text>}
```

- ☞ `\footnotetext` used in conjunction with `\footnotemark`, in RTL mode produces an RTL footnote while in LTR mode it produces an LTR footnote.
- ☞ `\LTRfootnotetext` used in conjunction with `\footnotemark`, will always produce an LTR footnote, independent on the current mode.
- ☞ `\RTLfootnotetext` used in conjunction with `\footnotemark`, will always produce an RTL footnote, independent on the current mode.

### 1.9.1 Footnote Rule

The behavior of footnote rules can also be controlled.

```
\autofootnoterule \rightfootnoterule \leftfootnoterule  
\LRfootnoterule \textwidthfootnoterule \SplitFootnoteRule  
\debugfootnotedirection
```

- ☞ `\autofootnoterule` will draw the footnote rule right or left aligned based on the direction of the first footnote following the rule (i.e., put in the current page).
- ☞ `\rightfootnoterule` will put footnote rule on the right-hand side.
- ☞ `\leftfootnoterule` or `\LRfootnoterule` will put footnote rule on the left-hand side.
- ☞ `\textwidthfootnoterule` will draw the footnote rule with a width equal to `\textwidth`.
- ☞ `\SplitFootnoteRule` puts a full-width rule above the split-off part of a split footnote.
- ☞ `\debugfootnotedirection` writes the direction of the first footnote on each page, in the log file.

### 1.10 Two Column Typesetting

```
\RTLdblcol \LTRdblcol
```

If you pass the `twocolumn` option to the class file and if the main direction of the document is RTL, then you get RTL two column and if the main direction of the document is LTR, then you get LTR two column. In addition, `\RTLdblcol` allows you to have RTL two column typesetting and `\LTRdblcol` allows you to have LTR two column typesetting as the options of the class file.



Also please note that in `twocolumn` documents, the width of the `\footnoterule` will be equal to `\columnwidth` no matter which footnote-rule commands you use; indeed, in `twocolumn` documents only `\textwidthfootnoterule` is active and other footnote-rule commands will not be effective.

### 1.11 RTL cases

`\RTLcases` command was previously known as `\rcases` command but since there was a clash with `mathtools` package (`mathtools` defines `rcases` environment), we had to rename `\rcases` command to `\RTLcases` command.

```
\RTLcases{\text{\langle brach1\rangle}\cr\text{\langle brach2\rangle}\cr\text{\langle brach3\rangle}...}
\text{\langle main\rangle}
```

`\RTLcases` is defined in `bidi` for typesetting RTL cases. `\text` is defined in `amsmath` package, so this means that you need to load `amsmath` package too.

```
1 \documentclass{article}
2 \usepackage{amsmath}
3 \usepackage{bidi}
4 \begin{document}
5 \setRTL
6 \[ \RTLcases{\text{men}\cr\text{women}}
7 \text{Humans Beings}
8 \]
9 \end{document}
```

### 1.12 Typesetting Logos

```
\XeTeX \XeLaTeX
```

`bidi` defines  $\text{\XeTeX}$  and  $\text{\XeLaTeX}$  logos and in addition, it makes sure that logos,  $\text{\TeX}$ ,  $\text{\LaTeX}$ ,  $\text{\LaTeX}_{2\epsilon}$  are typeset LTR.

### 1.13 Separation Mark

```
\SepMark{\langle mark\rangle} \@SepMark
```

Generally in Standard  $\text{\LaTeX}$ , dot is used for separation between section numbers, equation numbers any anything else which needs to be separated. You can use `\SepMark` to use any other mark as the separation mark instead a dot.

```
1 \documentclass{article}
2 \usepackage{bidi}
3 \SepMark{-}
4 \begin{document}
5 \section{First}
6 \subsection{Second}
7 \subsubsection{Third}
8 \end{document}
```



If you decide to change the numbering of chapters, sections, subsections, equations, figures and ..., you should either load `amsmath` package and use `\numberwithin` macro to do this or do the ordinary way, but instead dot write `\@SepMark`. Using dot instead `\@SepMark` will certainly make trouble.

```

1 \documentclass{article}
2 \usepackage{bidi}
3 \SepMark{-}
4 \makeatletter
5 \renewcommand\theequation{\thesection\@SepMark\@arabic\c@equation}
6 \makeatother
7 \begin{document}
8 \section{First}
9 \begin{equation}
10 x^2+y^2=z^2
11 \end{equation}
12 \end{document}

```

#### 1.14 `\raggedright`, `\raggedleft` commands, `flushleft` and `flushright` Environments

`\raggedright` command and `flushleft` environment put the text on the left hand side and `\raggedleft` command and `flushright` environment put the text on the right hand side, independent on the current mode.

#### 1.15 Primitive-like commands

`\hboxR` `\hboxL` `\vboxR` `\vboxL`

- ☞ The syntax of `\hboxR` is exactly the same as the syntax of `\hbox`, but its contents is always typeset RTL.
- ☞ The syntax of `\hboxL` is exactly the same as the syntax of `\hbox`, but its contents is always typeset LTR.
- ☞ The syntax of `\vboxR` is exactly the same as the syntax of `\vbox`, but its contents is always typeset RTL.
- ☞ The syntax of `\vboxL` is exactly the same as the syntax of `\vbox`, but its contents is always typeset LTR.

#### 1.16 Something To know about `\hbox`

If you enable RTL typesetting and typeset an horizontal box at the beginning of the document:



```

1 \documentclass{article}
2 \usepackage{bidi}
3 \setRTL
4 \begin{document}
5 \hbox{This is a Test}
6 \end{document}

```

You see that even you have used `\setRTL`, the horizontal box appears LTR (It appears on the left hand side and its content is typeset left to right). This is because when  $\TeX$  starts, it is in the vertical mode so if you need to have that `\hbox` appear RTL, then write `\leavevmode` before `\hbox`:

```

1 \documentclass{article}
2 \usepackage{bidi}
3 \setRTL
4 \begin{document}
5 \leavevmode\hbox{This is a Test}
6 \end{document}

```

### 1.17 `\bidillap` and `\bidirlap` Commands

In RTL mode, `\llap` and `\rlap` do opposite things. Since these two macros are used in a lot of classes and packages, instead of modifying these two macros, we have created two new macros `\bidillap` and `\bidirlap` which give logical results.

### 1.18 `LTRitems` and `RTLitems` Environments

If you typeset an `itemize`, or an `enumerate`, or a `description` environment where all `\items` are one directional, you have no problem at all as shown below:

```

1 \documentclass{article}
2 \begin{document}
3 Anyone who reads Old and Middle English literary texts will be familiar
4 with the mid-brown volumes of the EETS, with the symbol of Alfred's
5 \begin{enumerate}
6 \item Anyone who reads Old and Middle English literary texts will be
7 familiar with the mid-brown volumes of the EETS, with the symbol of
8 Alfred's
9 \item Anyone who reads Old and Middle English literary texts will be
10 familiar with the mid-brown volumes of the EETS, with the symbol of
11 Alfred's
12 \end{enumerate}
13 \end{document}

```

However if the above example becomes bidirectional, as shown below:

```

1 \documentclass{article}
2 \usepackage{bidi}

```



```

3 \begin{document}
4 Anyone who reads Old and Middle English literary texts will be familiar
5 with the mid-brown volumes of the EETS, with the symbol of Alfred's
6 \begin{enumerate}
7 \item Anyone who reads Old and Middle English literary texts will be
8 familiar with the mid-brown volumes of the EETS, with the symbol of
9 Alfred's
10 \setRTL
11 \item Anyone who reads Old and Middle English literary texts will be
12 familiar with the mid-brown volumes of the EETS, with the symbol of
13 Alfred's
14 \end{enumerate}
15 \end{document}

```

Then some people may argue that this typographically does not look promising. For this purpose, RTLitems environment is provided which has the following syntax:

```

\begin{RTLitems}
\item <text>
...
\end{RTLitems}

```

By using the RTLitems environment, the previous example will look like the following:

```

1 \documentclass{article}
2 \usepackage{bidi}
3 \begin{document}
4 Anyone who reads Old and Middle English literary texts will be familiar
5 with the mid-brown volumes of the EETS, with the symbol of Alfred's
6 \begin{enumerate}
7 \item Anyone who reads Old and Middle English literary texts will be
8 familiar with the mid-brown volumes of the EETS, with the symbol of
9 Alfred's
10 \begin{RTLitems}
11 \item Anyone who reads Old and Middle English literary texts will be
12 familiar with the mid-brown volumes of the EETS, with the symbol of
13 Alfred's
14 \end{RTLitems}
15 \end{enumerate}
16 \end{document}

```

Similarly, LTRitems environment is defined which has the following syntax:

```

\begin{LTRitems}
\item <text>
...
\end{LTRitems}

```



## 1.19 LTRbibitems and RTLbibitems Environments

The syntax of LTRbibitems and RTLbibitems environments is exactly like the syntax of LTRitems and RTLitems environments but there are few differences:

- ☞ LTRitems and RTLitems environments should only be used for list-like environments (such as itemize, enumerate and description environments) but LTRbibitems and RTLbibitems environments should only be used for thebibliography environment.
- ☞ Clearly instead of `\item`, you have `\bibitem` inside LTRbibitems and RTLbibitems environments.

## 1.20 `\setLTRbibitems`, `\setRTLbibitems`, and `\setdefaultbibitems` commands

<code>\setLTRbibitems</code> <code>\setRTLbibitems</code> <code>\setdefaultbibitems</code>
--

- ☞ If your whole thebibliography environment is inside RTL mode, but all your `\bibitems` are LTR and you actually want to have `\bibname` to appear on the RHS, you can use `\setLTRbibitems` command before thebibliography environment.
- ☞ If your whole thebibliography environment is inside LTR mode, but all your `\bibitems` are RTL and you actually want to have `\bibname` to appear on the LHS, you can use `\setRTLbibitems` command before thebibliography environment.
- ☞ `\setdefaultbibitems` is the default, when your `\bibitems` are a mixture of LTR and RTL and it does not matter what mode (LTR or RTL) your thebibliography environment is in. Please note that you do not have to use `\setdefaultbibitems` command in this case at all.

Consider an example that your thebibliography environment is inside LTR mode and you have, say two `\bibitems`. The first `\bibitem` is LTR and the second `\bibitem` is RTL. One could typeset this senario as shown below:

```
1 \documentclass{article}
2 \usepackage{bidi}
3 \begin{document}
4 \begin{thebibliography}{99}
5 \bibitem This is the first bibitem which is LTR.
6 \begin{RTLbibitems}
7 \bibitem This is the second bibitem which is RTL.
8 \end{RTLbibitems}
9 \end{thebibliography}
10 \end{document}
```





### 1.21 Typesetting margin par

By default, in RTL mode, `\marginpar` appears on LHS and its content is typeset RTL and in LTR mode, `\marginpar` appears on RHS and its content is typeset LTR. In addition, the following commands are provided:

```
\setRTLmarginpar \setLTRmarginpar \setdefaultmarginpar
\LTRmarginpar[⟨left-text⟩]{⟨right-text⟩}
\RTLmarginpar[⟨left-text⟩]{⟨right-text⟩}
```

- ☞ `\setRTLmarginpar` always makes `\marginpar` to appear on LHS and the content of `\marginpar` is typeset RTL (this is independent of the current mode).
- ☞ `\setLTRmarginpar` always makes `\marginpar` to appear on RHS and the content of `\marginpar` is typeset LTR (this is independent of the current mode).
- ☞ `\setdefaultmarginpar` gives the default behaviour of `\marginpar` as described above.
- ☞ `\LTRmarginpar` typesets `⟨left-text⟩` and `⟨right-text⟩` always LTR.
- ☞ `\RTLmarginpar` typesets `⟨left-text⟩` and `⟨right-text⟩` always RTL.
- ☞ in RTL mode, places of `⟨left-text⟩` and `⟨right-text⟩` swaps.

### 1.22 Typesetting of Headers and Footers

If the main direction of the document is RTL, then headers and footers are typeset RTL and if the main direction of the document is LTR, then headers and footers are typeset LTR.

### 1.23 Tabular Typesetting

In RTL mode, tabular are typeset RTL and in LTR mode, tabular are typeset LTR.

### 1.24 Equation Numbers

For `reqno`, equation numbers are on the right hand side and for `leqno`, equation numbers are on the left hand side, independent on the current mode.

## 2 Support For Various Packages and Classes

The bidi package supports `amsmath`, `amstext`, `amsthm`, `array`, `arydshln`, `breqn`, `cals`, `caption`, `color`, `colortbl`, `crop`, `cuted`, `cutwin`, `dblfnote`, `draftwatermark`, `empheq`, `fancyhdr`, `fancybox`, `fix2col`, `float`, `floatrow`, `flowfram`, `framed`, `ftnright`, `geometry`, `graphicx`, `hvfloa`, `hyperref`, `lettrine`, `listings`, `mdframed`, `midfloat`, `minitoc`, `multicol`, `multienum`, `newfloat`, `pdfpages`, `pstricks`, `quotchap`, `pinyin`, `ragged2e`, `rotating`, `sidecap`, `stabular`,



subfig, subfigure, supertabular, xtab, tabs, tabulary, PGF & TIKZ, tocbibind, tocloft, tocstyle, wrapfig, xcolor, xltextra packages, amsart, amsbook, artikel1, artikel2, artikel3, extarticle, flashcards, standrad article, boek, boek3, standard book, bookest, extbook, extletter, scrlettr, standard letter, memoir, extreport, rapport1, rapport3, refrep, standard report, scrartcl, scrbook, scrreprt classes and any other packages and classes that relies on these packages and classes. This means, you can use all these packages and classes in addition to other packages and classes that rely on these packages and classes and use their functionality fully for your bidirectional documents. We now give some details that you should know about the supported packages or classes.

## 2.1 Color

You can use color and xcolor packages to typeset texts in colours and colour boxes produced by `\colorbox` and `\fcolorbox` commands. Please note that your Coloured text should not span more than a line, if your text spans more than a line, you will be in trouble which means your whole document, page or paragraph may be coloured. If your texts spans more than a line, then you should use xecolor package. Also if you are going to use `\color` command to colour the text at the beginning of a paragraph, then you should have `\leavevmode` before `\color` command. For having coloured tabular, you can use colortbl package.

## 2.2 The dblfnote package

The dblfnote package makes footnotes double-columned. In addition bidi package adds bidirectional support for the dblfnote package by providing the following commands:

<code>\RTLdfnmakecol</code>	<code>\LTRdfnmakecol</code>
-----------------------------	-----------------------------

☞ `\RTLdfnmakecol` makes footnotes double-columned RTL.

☞ `\LTRdfnmakecol` makes footnotes double-columned LTR.

☞ If the main direction of the document is RTL, `\RTLdfnmakecol` is active and if the main direction of the document is LTR, `\LTRdfnmakecol` is active.

Please note that when using dblfnote package, the footnote rule will be as wide as the footnote column and `\autofootnoterule`, `\rightfootnoterule`, `\leftfootnoterule`, and `\textwidthfootnoterule` commands have no effects.

## 2.3 Hyperref

The hyperref package works fine with bidirectional documents if and only if, your link will not span more than a line. If your link spans more than a line, then your whole document, or page or paragraph may be linked.



## 2.4 The listings package

Suppose that the main direction of the document is RTL, and you want to typeset a piece of C code in LTR mode but you also have the requirement that the caption of that particular code should be RTL. Since the direction of the code is LTR, then the direction of the caption also will be LTR and this is not something you want; sadly there is no easy way to do this. For this very reason, the `bidi` package adds a key to the listings package, namely `captiondirection`. This key can have the following values:

☞ `textdirection` follows the direction of the text (default).

☞ `RTL` sets the direction of the caption to RTL.

☞ `LTR` sets the direction of the caption to LTR.

Giving any other values gives you an error.

## 2.5 flowfram Package

You can use `flowfram` package for your bidirectional documents. Please note that `flowfram` package provides support for bidirectional column typesetting, for details, see its manual.

## 2.6 Multicolumn Typesetting

In the previous versions of `bidi` package, it was recommended that you need to use `fmultico` package instead the original `multicol` package for RTL multicolumn typesetting. This is not the case any more and you should not use buggy `fmultico` package any more. Simply load the original `multicol` package before loading `bidi`. `bidi` now supports `multicol` package and you can typeset bidirectional multi columns. When using `multicol` package, the following two additional commands are provided:

`\RTLmulticolcolumns`   `\LTRmulticolcolumns`

If the main direction of the document is RTL, then you get RTL multi columns and if the main direction of the document is LTR, then you get LTR multi columns. In addition, `\RTLmulticolcolumns` allows you to have RTL multi columns and `\LTRmulticolcolumns` allows you to have LTR multi columns. In addition, you also can use `vwcol` package for variable width bidirectional column typesetting.

# 3 Extra bidi Packages and Classes

## 3.1 bidentu bundle

A modified version of `tufte-latex`, `bidentu` bundle, mainly for RTL typesetting, is provided. If you never used `bidentu` bundle or `tufte-latex` package and you want



to use biditufte bundle, then you need to look at tufte-latex package's manual and examples. In addition, for using biditufte bundle, you need to know the following notes:

- ☞ You need to use biditufte-book class instead tufte-book class and biditufte-handout class instead tufte-handout class.
- ☞ biditufte bundle provides the following extra commands:

`\LTRsidenote \RTLsidenote \LTRmarginnote \RTLmarginnote`

- ☞ biditufte bundle unlike tufts-latex package, only provides justified lines.
- ☞ Some features of tufte-latex that does not make any sense in RTL, do not exist in biditufte bundle (no need for soul, letterspace and macrotype packages).
- ☞ If you want to configure biditufte-book class for your own needs, then you can create a file with the name biditufte-book.cfg and put your  $\LaTeX$  macros in that file; similarly, if you want to configure biditufte-handout class for your own needs, then you can create a file with the name biditufte-handout.cfg and put your  $\LaTeX$  macros in that file.

### 3.2 Typesetting $\TeX$ and $\LaTeX$ Codes

The  $\LaTeX$  codes in this manual are typeset using the bidicode package. In standard  $\LaTeX$  you can not use footnotes inside `\chapter`, `\part`, `\section`, `\subsection`, `\subsubsection` and any other section-like commands, `\caption` and tabular environment.

bidi package provides bidiftnxtra package that solves the issue of footnote in standard  $\LaTeX$ . bidiftnxtra package should be loaded after bidi package.

### 3.3 Typesetting Poems

The bidi package provides bidipoem package for typesetting Persian poems. It provides four environments, `traditionalpoem`, `modernpoem` and starred version of these. In the starred version of these environments you do not need to type `\\` and that is the only difference with the normal version of the environments. The `traditionalpoem` environment and its starred version are also useful for typesetting Classic Arabic poetry, in fact this package may also be useful for other RTL languages.

When using bidipoem package, at least you need to run `xelatex` twice on your document. In fact, if you run `xelatex` just once on your document, you get a message saying "Unjustified poem. Rerun XeLaTeX to get poem right".

When you typeset your poems, you might get underfull `\hbox` messages. This is absolutely normal and if you want to get rid of these underfull `\hbox` messages, then you would need to use Kashida.

If you need to change the default distance between two verses, you can do just that by:



```
\renewcommand\poemcolsepskip{\langle length \rangle}
```

```
\begin{traditionalpoem}  
  \langle verse1 \rangle & \langle verse2 \rangle \\  
  \langle verse3 \rangle & \langle verse4 \rangle \\  
  ...  
\end{traditionalpoem}
```

```
\begin{traditionalpoem*}  
  \langle verse1 \rangle & \langle verse2 \rangle  
  \langle verse3 \rangle & \langle verse4 \rangle  
  ...  
\end{traditionalpoem*}
```

### 3.4 Typesetting Résumé

The bidi package provides `bidimoderncv`<sup>2</sup> class for typesetting resums. There are two examples, namely `test-casualcv.tex` and `test-classiccv.tex`, in the `doc` folder than you can look and learn how you can use it.

### 3.5 Print Two Pages On A Single Page

bidi package provides `bidi2in1` package for printing two pages on a single (landscape) A4 page. Page numbers appear on the included pages, and not on the landscape 'container' page.

### 3.6 Producing Presentations

At the moment, there is only one class that you can prepare your presentations with.

## 4 Some Useful Internal Macros and Programming Tips

There are some useful internal macros and programming tips that might be helpful for you. This section, explains all these useful internals and programming tips.

### 4.1 Equating Conditionals

```
\eqnewif{\langle newconditional1 \rangle}{\langle newconditional2 \rangle}
```

In standard  $\text{\LaTeX}$ , `\newif` command is provided that you can define a new conditional with it. `\eqnewif` command is similar to `\newif` command but:

- ☞ With `\eqnewif` command, you can define two new conditionals instead one, so clearly it has two mandatory arguments.

<sup>2</sup>This class is the modified version of `moderncv` class.



☞ `\newconditional1` will be identical to `\newconditional2`, so that whenever `\newconditional1` is true, then `\newconditional2` is also true and whenever `\newconditional1` is false, then `\newconditional2` is also false and vice versa.

## 4.2 RTL Conditional

`\if@RTL`

`\if@RTL` conditional is true inside RTL mode and it is false in LTR mode.

## 4.3 Main RTL Conditional

`\if@RTLmain`

If the main direction of the document is RTL, `\if@RTLmain` is true and if the main direction of the document is LTR, `\if@RTLmain` is false.

## 4.4 Latin Conditional

`\if@nonlatin`

The packages should set the value of `\if@nonlatin` inside any environment that uses LTR script to false (`\@nonlatinfalse`) and inside any environment that uses RTL script to true (`\@nonlatintrue`).

## 4.5 Tags Internal Macro

```
\@iftagsloaded{<tags name>}{<do thing(s) if the tag is loaded>}{<do thing(s) if the tag is not loaded>}
```

As you can see, the syntax of `\@iftagsloaded` is exactly the same as the syntax of `\@ifpackageloaded` and `\@ifclassloaded`. By tags, we mean things like `leqno` or `reqno`. Please note that in the argument `<tags name>`, the extension `clo` should not be given.

## 4.6 Definition File Loaded Internal Macro

```
\@ifdefinitionfileloaded{<definition file name>}{<do thing(s) if the definition file is loaded>}{<do thing(s) if the definition file is not loaded>}
```

As you can see, the syntax of `\@ifdefinitionfileloaded` is exactly the same as the syntax of `\@ifpackageloaded` and `\@ifclassloaded`. By definition file, we mean things like `hyperref-bidi.def` or `wrapfig-bidi.def`. Please note that in the argument `<definition file name>`, the extension `def` should not be given.



## 4.7 Tabular Conditional

`\if@RTLtab`

If the tabular is typeset RTL, `\if@RTLtab` is true and if the tabular is typeset LTR, `\if@RTLtab` is false.

## 4.8 Footnote Conditional

`\if@RTL@footnote`

When footnotes are typeset RTL, `\if@RTL@footnote` is true and when footnotes are typeset LTR, `\if@RTL@footnote` is false.

## 4.9 Direction Ensuring Macros

`\@ensure@RTL{<text>} \@ensure@RL{<text>} \@ensure@LTR{<text>}`  
`\@ensure@LR{<text>} \@ensure@dir{<text>} \@ensure@maindir{<text>}`

- ☞ `\@ensure@RTL` and `\@ensure@RL` internals make sure that `<text>` is always typeset RTL, independent on the current mode.
- ☞ `\@ensure@LTR` and `\@ensure@LR` internals make sure that `<text>` is always typeset LTR, independent on the current mode.
- ☞ `\@ensure@dir` and `\@ensure@maindir` if used in RTL mode, they put `<text>` inside `\RLE` and if used in LTR mode, they put the text as it is.

## 4.10 Reset Direction Macro

`\save@dir \saved@@dir \reset@dir`

- ☞ `\save@dir`, if the direction of typesetting is RTL, defines `\saved@@dir` to be RTL and if the direction of typesetting is LTR, defines `\saved@@dir` to be LTR.
- ☞ `\reset@dir`, if `\saved@@dir` is defined as RTL, inserts `\setRTL` otherwise, if `\saved@@dir` is defined as LTR, inserts `\setLTR`, otherwise does nothing.

## Part II

# Plain T<sub>E</sub>X Manual

## 5 Basics



## 5.1 Loading The Package

You can load the package in the ordinary way;

```
\input bidi
```

When loading the package, it is important to know that: `bidi` should be the last package that you load, because otherwise you are certainly going to overwrite `bidi`'s definitions and consequently, you will not get the expected output.

## 5.2 Commands for Version number, and Date of The Package

```
\bidiversion \bididate
```

☞ `\bidiversion` gives the current version of the package.

☞ `\bididate` gives the current date of the package.

```
1 \input bidi
2 This is typeset by \textsf{bidi} package, \bidiversion, \bididate.
3 \end
```

## 5.3 Turning TeX--XeT features on and off

The bidirectional typesetting in XeTeX is based on TeX--XeT algorithm and `bidi` package automatically turns the feature on for typesetting bidirectional texts. As the internal data structures built by TeX--XeT differ from those built by TeX, the typesetting of a document by TeX--XeT may therefore differ from that performed by TeX. So you may notice that some packages behave differently when TeX--XeT feature is on and you may want to turn the feature off for a part of the text so that you get the default behaviour of original TeX. Two commands are provided for this purpose:

```
\TeXXeTOn \TeXXeTOff
```

☞ `\TeXXeTOn` turns TeX--XeT feature on, which is active by default when `bidi` package is loaded.

☞ `\TeXXeTOff` turns TeX--XeT feature off.

## 5.4 Paragraph Switching Commands

```
\setLTR \setLR \unsetRL \unsetRTL
\setRTL \setRL \unsetLTR
```

☞ With any of the commands in the first row, you can typeset LTR paragraphs.





☞ With any of the commands in the second row, you can typeset RTL paragraphs.

```
1 \input bidi
2 \setRTL%
3 Anyone who reads Old and Middle English literary texts will be
4 familiar with the mid-brown volumes of the EETS, with the symbol
5 of Alfred's jewel embossed on the front cover.
6
7 \setLTR% Notice the blank line before \setLTR
8 Anyone who reads Old and Middle English literary texts will be
9 familiar with the mid-brown volumes of the EETS, with the symbol
10 of Alfred's jewel embossed on the front cover.
11 \end
```

## 5.5 Paragraph Switching Environments

<code>\LTR</code>	<code>\RTL</code>
<code>\endLTR</code>	<code>\endRTL</code>

☞ With LTR environment, you can typeset LTR paragraphs.

☞ With RTL environment, you can typeset RTL paragraphs.

```
1 \input bidi
2 \RTL
3 Anyone who reads Old and Middle English literary texts will be familiar
4 with the mid-brown volumes of the EETS, with the symbol
5 of Alfred's jewel embossed on the front cover.
6 \LTR
7 Anyone who reads Old and Middle English literary texts will be familiar
8 with the mid-brown volumes of the EETS, with the symbol
9 of Alfred's jewel embossed on the front cover.
10 \endLTR
11 And we are still typesetting right to left.
12 \endRTL
13 \end
```

## 5.6 Typesetting Short LTR and RTL Texts

<code>\LRE{&lt;text&gt;}</code>	<code>\LR{&lt;text&gt;}</code>
<code>\RLE{&lt;text&gt;}</code>	<code>\RL{&lt;text&gt;}</code>

☞ With any of the commands in the first row, you can typeset short LTR text inside RTL paragraphs.



- ☞ With any of the commands in the second row, you can typeset short RTL text inside LTR paragraphs.

```

1 \input bidi
2 \RTL
3 Anyone who reads Old and Middle English \LRE{Short left to right text}
4 literary texts will be familiar
5 with the mid-brown volumes of the EETS, with the symbol
6 of Alfred's jewel embossed on the front cover.
7 \LTR
8 Anyone who reads Old and Middle English \RLE{Short right to left text}
9 literary texts will be familiar
10 with the mid-brown volumes of the EETS, with the symbol
11 of Alfred's jewel embossed on the front cover.
12 \endLTR
13 \endRTL
14 \end

```

## 5.7 Primitive-like commands

`\hboxR` `\hboxL` `\vboxR` `\vboxL`

- ☞ The syntax of `\hboxR` is exactly the same as the syntax of `\hbox`, but its contents is always typeset RTL.
- ☞ The syntax of `\hboxL` is exactly the same as the syntax of `\hbox`, but its contents is always typeset LTR.
- ☞ The syntax of `\vboxR` is exactly the same as the syntax of `\vbox`, but its contents is always typeset RTL.
- ☞ The syntax of `\vboxL` is exactly the same as the syntax of `\vbox`, but its contents is always typeset LTR.

## 5.8 Something To know about `\hbox`

If you enable RTL typesetting and typeset an horizontal box at the beginning of the document:

```

1 \input bidi
2 \setRTL
3 \hbox{This is a Test}
4 \end

```

You see that even you have used `\setRTL`, the horizontal box appears LTR (It appears on the left hand side and its content is typeset left to right). This is because when  $\text{\TeX}$  starts, it is in the vertical mode so if you need to have that `\hbox` appear RTL, then write `\leavevmode` before `\hbox`:



```

1 \input bidi
2 \setRTL
3 \leavevmode\hbox{This is a Test}
4 \end

```

## 5.9 Typesetting Logos

`\XeTeX`

bidi defines XeTeX logo and in addition, it makes sure that the logo, TeX is typeset LTR.

## 6 Some Useful Internal Macros and Programming Tips

There are some useful internal macros and programming tips that might be helpful for you. This section, explains all these useful internals and programming tips.

### 6.1 RTL Conditional

`\if@RTL`

`\if@RTL` conditional is true inside RTL mode and it is false in LTR mode.

### 6.2 Main RTL Conditional

`\if@RTLmain`

If the main direction of the document is RTL, `\if@RTLmain` is true and if the main direction of the document is LTR, `\if@RTLmain` is false.

### 6.3 Direction Ensuring Macros

```

\@ensure@RTL{<text>} \@ensure@RL{<text>} \@ensure@LTR{<text>}
\@ensure@LR{<text>} \@ensure@dir{<text>} \@ensure@maindir{<text>}

```

☞ `\@ensure@RTL` and `\@ensure@RL` internals make sure that `<text>` is always typeset RTL, independent on the current mode.

☞ `\@ensure@LTR` and `\@ensure@LR` internals make sure that `<text>` is always typeset LTR, independent on the current mode.

☞ `\@ensure@dir` and `\@ensure@maindir` if used in RTL mode, they put `<text>` inside `\RLE` and if used in LTR mode, they put the text as it is.



## 6.4 Reset Direction Macro

`\save@dir \saved@@dir \reset@dir`

- ☞ `\save@dir`, if the direction of typesetting is RTL, defines `\saved@@dir` to be RTL and if the direction of typesetting is LTR, defines `\saved@@dir` to be LTR.
- ☞ `\reset@dir`, if `\saved@@dir` is defined as RTL, inserts `\setRTL` otherwise, if `\saved@@dir` is defined as LTR, inserts `\setLTR`, otherwise does nothing.

## 7 bidi implementation

### 7.1 amsart-xetex-bidi.def

```
1 \ProvidesFile{amsart-xetex-bidi.def}[2015/11/14 v0.9 bidi adaptations for amsart class for Xe
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\rightskip\else\leftskip\fi#3\relax \advance\if@RTL\rightskip\else\l
13    \if@RTL\leftskip\else\rightskip\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 \ifRTL@footnote\@RTLtrue\else\@RTLfalse\fi%
37 \bidi@footnotetext@font% \normalfont\footnotesize
38 \interlinepenalty\interfootnotelinepenalty
39 \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
40 \floatingpenalty\@MM \hsize\columnwidth
41 \@parboxrestore \parindent\normalparindent \sloppy
42 \protected@edef\@currentlabel{%
43   \csname p@footnote\endcsname\@thefnmark}%
44 \@makefnmark{%
45   \rule{z@footnotesep\ignorespaces#1\unskip\strut\par}}
46
47 \long\def\@RTLfootnotetext#1{%
48   \insert\footins{%
49     \@RTLtrue%
50     \bidi@RTLfootnotetext@font% \normalfont\footnotesize
51     \interlinepenalty\interfootnotelinepenalty
52     \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
53     \floatingpenalty\@MM \hsize\columnwidth
54     \@parboxrestore \parindent\normalparindent \sloppy
55     \protected@edef\@currentlabel{%
56       \csname p@footnote\endcsname\@thefnmark}%
57     \@makefnmark{%
58       \rule{z@footnotesep\ignorespaces#1\unskip\strut\par}}}
59
60
61
62 \long\def\@LTRfootnotetext#1{%
63   \insert\footins{%
64     \@RTLfalse%
65     \bidi@LTRfootnotetext@font% \normalfont\footnotesize
66     \interlinepenalty\interfootnotelinepenalty
67     \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
68     \floatingpenalty\@MM \hsize\columnwidth
69     \@parboxrestore \parindent\normalparindent \sloppy
70     \protected@edef\@currentlabel{%
71       \csname p@footnote\endcsname\@thefnmark}%
72     \@makefnmark{%
73       \rule{z@footnotesep\ignorespaces#1\unskip\strut\par}}}
74
75
76 \footdir@temp\footdir@ORG@bidi@amsart@footnotetext\@footnotetext{\bidi@footdir@footnote}%
77 \footdir@temp\footdir@ORG@bidi@amsart@RTLfootnotetext\@RTLfootnotetext{R}%
78 \footdir@temp\footdir@ORG@bidi@amsart@LTRfootnotetext\@LTRfootnotetext{L}%
79
80 \renewenvironment{thebibliography}[1]{%
81   \@bibtitlestyle
82   \normalfont\bibliofont\labelsep .5em\relax
83   \renewcommand\theenumiv{\arabic{enumiv}}\let\p@enumiv\@empty
84   \ifRTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
85   \list{\@biblabel{\theenumiv}}{\settowidth\labelwidth{\@biblabel{#1}}%

```



```

86 \leftmargin\labelwidth \advance\leftmargin\labelsep
87 \usecounter{enumiv}}}%
88 \sloppy \clubpenalty\@M \widowpenalty\clubpenalty
89 \sfcode`\.=\@m
90 }{%
91 \def\@noitemerr{\@latex@warning{Empty `thebibliography' environment}}%
92 \endlist
93 }
94 \def\theindex{\@restonecoltrue\if@twocolumn\@restonecolfalse\fi
95 \columnseprule\z@ \columnsep 35\p@
96 \@indextitlestyle
97 \thispagestyle{plain}%
98 \let\item\@idxitem
99 \parindent\z@ \parskip\z@\@plus.3\p@\relax
100 \if@RTL\raggedleft\else\raggedright\fi
101 \hyphenpenalty\@M
102 \footnotesize}
103 \def\@idxitem{\par\hangindent \if@RTL-\fi2em}
104 \def\subitem{\par\hangindent \if@RTL-\fi2em\hspace*{1em}}
105 \def\subsubitem{\par\hangindent \if@RTL-\fi3em\hspace*{2em}}
106 \def\maketitle{\par
107 \@topnum\z@ % this prevents figures from falling at the top of page 1
108 \@setcopyright
109 \thispagestyle{firstpage}% this sets first page specifications
110 \uppercase\nonmath\shorttitle
111 \ifx\@empty\shortauthors \let\shortauthors\shorttitle
112 \else \andify\shortauthors
113 \fi
114 \@maketitle@hook
115 \begingroup
116 \@maketitle
117 \toks@\@xp{\shortauthors}\@temptokena\@xp{\shorttitle}%
118 \toks4{\def\{\{ \ignorespaces}}}% defend against questionable usage
119 \edef\@tempa{%
120 \nx\markboth{\the\toks4
121 \nx\MakeUppercase{\the\toks@}}{\the\@temptokena}}%
122 \@tempa
123 \endgroup
124 \c@footnote\z@
125 \cleartopmattertags
126 }

```

## 7.2 adjmulticol-xetex-bidi.def

```

127 \ProvidesFile{adjmulticol-xetex-bidi.def}[2015/04/25 v0.1 bidi adaptations for adjmulticol pa
128 \def\adjmulticols#1#2#3{\col@number#1\relax
129 \def\@tempa{#2}%
130 \ifx\@tempa\@empty\adjmc@inner\z@\else\adjmc@inner#2\fi
131 \def\@tempa{#3}%
132 \ifx\@tempa\@empty\adjmc@outer\z@\else\adjmc@outer#3\fi

```



```

133 \ifnum\col@number<\@ne
134   \PackageWarning{adjmulticol}%
135     {Using ``\number\col@number'
136      columns doesn't seem a good idea.^^J
137      I therefore use one columns instead}%
138   \col@number\@ne\fi
139 \ifnum\col@number>10
140   \PackageError{adjmulticol}%
141     {Too many columns}%
142     {Current implementation doesn't
143      support more than 10 columns.%
144      \MessageBreak
145      I therefore use 10 columns instead}%
146   \col@number10 \fi
147   \ifx\@footnotetext\mult@footnotetext\else
148     \let\orig@footnotetext\@footnotetext
149     \let\@footnotetext\mult@footnotetext
150   \fi
151   \ifx\@LTRfootnotetext\mult@LTRfootnotetext\else
152     \let\orig@LTRfootnotetext\@LTRfootnotetext
153     \let\@LTRfootnotetext\mult@LTRfootnotetext
154   \fi
155   \ifx\@RTLfootnotetext\mult@RTLfootnotetext\else
156     \let\orig@RTLfootnotetext\@RTLfootnotetext
157     \let\@RTLfootnotetext\mult@RTLfootnotetext
158   \fi
159   \ifnextchar[\@adjmult@cols{\@adjmult@cols[]}]
160 \let\adjmc@page@sofar@orig=\page@sofar

```

### 7.3 algorithm2e-xetex-bidi.def

```

161 \ProvidesFile{algorithm2e-xetex-bidi.def}[2015/02/01 v0.1 bidi adaptations for algorithm2e pa
162 \expandafter\ifx\csname algocf@within\endcsname\relax% if \algocf@within doesn't exist
163 \else%
164   \renewcommand\thealgocf{\csname the\algocf@within\endcsname\@SepMark\@arabic\c@algocf}%
165 \fi%
166
167 \def\@algocf@pre@boxed{\noindent\begin{bidi@lrbox}{\algocf@algoframe}}
168 \def\@algocf@post@boxed{\end{bidi@lrbox}\framebox[\hsize]{\box\algocf@algoframe}\par}%
169 \def\@algocf@pre@boxruled{\noindent\begin{bidi@lrbox}{\algocf@algoframe}}%
170 \def\@algocf@post@boxruled{\end{bidi@lrbox}\framebox[\hsize]{\box\algocf@algoframe}\par}%
171 \renewcommand{\@algocf@start}{%
172   \@algoskip%
173   \begin{bidi@lrbox}{\algocf@algobox}%
174   \setlength{\algowidth}{\hsize}%
175   \vbox\bgroup% save all the algo in a box
176   \hbox to\algowidth\bgroup\hbox to \algomargin{\hfill}\vtop\bgroup%
177   \ifthenelse{\boolean{algocf@slide}}{\parskip 0.5ex\color{black}}{}%
178   % initialization
179   \addtolength{\hsize}{-1.5\algomargin}%

```



```

180 \let\@mathsemicolon=\;\def\;\{\ifmmode\@mathsemicolon\else\@endalgoln\fi}%
181 \raggedright\AlFnt{%
182 \ifthenelse{\boolean{algocf@slide}}{\IncMargin{\skipalgocfslide}}{%
183 \@algoinsideskip%
184 % \let\@emathdisplay=\]\def\]\{\algocf@endline\@emathdisplay\nl}%
185 }%
186 \renewcommand{\@algocf@finish}{%
187 \@algoinsideskip%
188 \egroup%end of vtop which contain all the text
189 \hfill\egroup%end of hbox wich contains [margin][vtop]
190 \ifthenelse{\boolean{algocf@slide}}{\DecMargin{\skipalgocfslide}}{%
191 %
192 \egroup%end of main vbox
193 \end{bidi@lrbox}%
194 \algocf@makethealgo% print the algo
195 \@algoskip%
196 % restore dimension and macros
197 \setlength{\hsize}{\algowidth}%
198 \lineskip\normallineskip\setlength{\skiptotal}{\@defaultskiptotal}%
199 \let\;=\@mathsemicolon%
200 \let\]=\@emathdisplay%
201 }%

```

## 7.4 amsbook-xetex-bidi.def

```

202 \ProvidesFile{amsbook-xetex-bidi.def}[2015/11/14 v1.0 bidi adaptations for amsbook class for
203 \def\@tocline#1#2#3#4#5#6#7{\relax
204 \ifnum #1>\c@tocdepth % then omit
205 \else
206 \par \addpenalty\@secpenalty\addvspace{#2}%
207 \begingroup \hyphenpenalty\@M
208 \@ifempty{#4}{%
209 \@tempdima\csname r@tocindent\number#1\endcsname\relax
210 }{%
211 \@tempdima#4\relax
212 }%
213 \parindent\z@ \ifRTL\righskip\else\leftskip\fi#3\relax \advance\ifRTL\righskip\else\l
214 \ifRTL\leftskip\else\righskip\fi\@pnumwidth plus4em \parfillskip-\@pnumwidth
215 #5\leavevmode\hskip-\@tempdima #6\nobreak\relax
216 \hfil\hbox to\@pnumwidth{\@tocpagenum{#7}}\par
217 \nobreak
218 \endgroup
219 \fi}
220 \renewcommand\thesubsection {\thesection\@SepMark\arabic{subsection}}
221 \renewcommand\thesubsubsection {\thesubsection \@SepMark\arabic{subsubsection}}
222 \renewcommand\theparagraph {\thesubsubsection\@SepMark\arabic{paragraph}}
223 \renewcommand\thesubparagraph {\theparagraph\@SepMark\arabic{subparagraph}}
224 \def\theindex{\@restonecoltrue\if@twocolumn\@restonecolfalse\fi
225 \columnseprule\z@ \columnsep 35\p@
226 \@indextitlestyle

```





```

227 \thispagestyle{plain}%
228 \let\item\@idxitem
229 \parindent\z@ \parskip\z@\@plus.3\p@\relax
230 \if@RTL\raggedleft\else\raggedright\fi
231 \hyphenpenalty\@M
232 \footnotesize}
233 \def\@idxitem{\par\hangindent \if@RTL-\fi2em}
234 \def\subitem{\par\hangindent \if@RTL-\fi2em\hspace*{1em}}
235 \def\subsubitem{\par\hangindent \if@RTL-\fi3em\hspace*{2em}}
236 \def\right@footnoterule{%
237 \kern-.4\p@
238 \hbox to \columnwidth{\hskip \dimexpr\columnwidth-5pc\relax \hrulefill }
239 \kern11\p@\kern-\footnotesep}
240 \def\left@footnoterule{\kern-.4\p@
241 \hrule\@width 5pc\kern11\p@\kern-\footnotesep}
242
243 \long\def\@footnotetext#1{%
244 \insert\footins{%
245 \if@RTL\footnote\@RTLtrue\else\@RTLfalse\fi%
246 \bidi@footnotetext@font% \normalfont\footnotesize
247 \interlinepenalty\interfootnotelinepenalty
248 \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
249 \floatingpenalty\@MM \hsize\columnwidth
250 \@parboxrestore \parindent\normalparindent \sloppy
251 \protected@edef\@currentlabel{%
252 \csname p@footnote\endcsname\@thefnmark}%
253 \@makefntext{%
254 \rule\z@\footnotesep\ignorespaces#1\unskip\strut\par}}}
255
256 \long\def\@RTLfootnotetext#1{%
257 \insert\footins{%
258 \@RTLtrue%
259 \bidi@RTLfootnotetext@font% \normalfont\footnotesize
260 \interlinepenalty\interfootnotelinepenalty
261 \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
262 \floatingpenalty\@MM \hsize\columnwidth
263 \@parboxrestore \parindent\normalparindent \sloppy
264 \protected@edef\@currentlabel{%
265 \csname p@footnote\endcsname\@thefnmark}%
266 \@makefntext{%
267 \rule\z@\footnotesep\ignorespaces#1\unskip\strut\par}}}
268
269
270 \long\def\@LTRfootnotetext#1{%
271 \insert\footins{%
272 \@RTLfalse%
273 \bidi@LTRfootnotetext@font% \normalfont\footnotesize
274 \interlinepenalty\interfootnotelinepenalty
275 \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
276 \floatingpenalty\@MM \hsize\columnwidth

```



```

277 \parboxrestore \parindent\normalparindent \sloppy
278 \protected@edef\@currentlabel{%
279 \csname p@footnote\endcsname\@thefnmark}%
280 \@makefnfntext{%
281 \rule\z@\footnotesep\ignorespaces#1\unskip\strut\par}}
282
283
284
285 \footdir@temp\footdir@ORG@bidi@amsbook@footnotetext\@footnotetext{\bidi@footdir@footnote}%
286 \footdir@temp\footdir@ORG@bidi@amsbook@RTLfootnotetext\@RTLfootnotetext{R}%
287 \footdir@temp\footdir@ORG@bidi@amsbook@LTRfootnotetext\@LTRfootnotetext{L}%
288
289 \renewenvironment{thebibliography}[1]{%
290 \bibtitlestyle
291 \normalfont\bibliofont\labelsep .5em\relax
292 \renewcommand\theenumiv{\arabic{enumiv}}\let\p@enumiv\@empty
293 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
294 \list{\@biblabel{\theenumiv}}{\settowidth\labelwidth{\@biblabel{#1}}%
295 \leftmargin\labelwidth \advance\leftmargin\labelsep
296 \usecounter{enumiv}}%
297 \sloppy \clubpenalty\@M \widowpenalty\clubpenalty
298 \sfcode\@.=\@m
299 }{%
300 \def\@noitemerr{\@latex@warning{Empty `thebibliography' environment}}%
301 \endlist
302 }
303 \def\@makechapterhead#1{\global\topskip 7.5pc\relax
304 \begingroup
305 \fontsize{\@xivpt}{18}\bfseries\centering
306 \ifnum\c@secnumdepth>\m@ne
307 \leavevmode \hskip-\if@RTL\righskip\else\leftskip\fi
308 \rlap{\vbox to\z@{\vss
309 \centerline{\normalsize\mdseries
310 \uppercase\exp{\chaptername}\enspace\thechapter}
311 \vskip 3pc}}\hskip\if@RTL\righskip\else\leftskip\fi\fi
312 #1\par \endgroup
313 \skip@34\p@ \advance\skip@-\normalbaselineskip
314 \vskip\skip@ }
315 \def\maketitle{\par
316 \@topnum\z@ % this prevents figures from falling at the top of page 1
317 \begingroup
318 \@maketitle
319 \endgroup
320 \c@footnote\z@
321 \def\do##1{\let##1\relax}%
322 \do\maketitle \do\@maketitle \do\title \do\xtitle \do\@title
323 \do\author \do\@xauthor \do\address \do\@xaddress
324 \do\email \do\@xemail \do\curraddr \do\@xcurraddr
325 \do\dedicatory \do\@dedicatory \do\thanks \do\@thanks
326 \do\keywords \do\@keywords \do\subjclass \do\@subjclass

```



```
327 }
```

## 7.5 amsmath-xetex-bidi.def

```
328 \ProvidesFile{amsmath-xetex-bidi.def}[2016/09/12 v1.0 bidi adaptations for amsmath package for  
329 \let\veqno=\eqno  
330 \iftagsleft@ \let\veqno=\leqno \fi  
331 \renewcommand{\numberwithin}[3][\arabic]{%  
332   \ifundefined{c@#2}{\@nocounterr{#2}}{%  
333     \ifundefined{c@#3}{\@nocnterr{#3}}{%  
334       \@addtoreset{#2}{#3}%  
335       \exp\xdef\csname the#2\endcsname{%  
336         \exp\xdef\csname the#3\endcsname \@nx\@SepMark\@nx#1{#2}}}%  
337 }  
338 \def\tagform@#1{\maketag@@@{\if@nonlatin\beginR\fi(\ignorespaces#1\unskip\@italiccorr)\if@no
```

## 7.6 amstext-xetex-bidi.def

```
339 \ProvidesFile{amstext-xetex-bidi.def}[2016/09/12 v0.2 bidi adaptations for amstext package for  
340 \def\textdef@#1#2#3{\hbox{%  
341   \everymath{#1}%  
342   \let\f@size#2\selectfont  
343   \if@nonlatin\beginR\fi#3\if@nonlatin\endR\fi}}}
```

## 7.7 amsthm-xetex-bidi.def

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

## 7.8 animate-xetex-bidi.def

```
346 \ProvidesFile{animate-xetex-bidi.def}[2016/05/03 v0.2 bidi adaptations for animate package for  
347  
348  
349 %user command for embedding animation sequence  
350 % #1: options  
351 % #2: frame rate (fps)  
352 % #3: basename of graphics file sequence (without frame number and extension)  
353 % #4: first frame (integer)  
354 % #5: last frame (integer)  
355 \renewcommand{\animategraphics}[5][{}]{%  
356   \@anim@endsanitize%  
357   \leavevmode%  
358   \ifpdf\else%  
359     \if@anim@grxloaded%  
360       \if@anim@xetex%  
361         \DeclareGraphicsRule{.mps}{eps}{*}{*}%  
362       \fi%  
363     \else%  
364       \if@anim@xetex%  
365         \@anim@missing[xetex]{graphicx}%  
366       \else%  
367         \if@anim@dvpdvmx%
```



```

368         \@anim@missing[dvipdfmx]{graphicx}%
369         \else%
370         \@anim@missing{graphicx}%
371         \fi%
372     \fi%
373 \fi%
374 \fi%
375 \@anim@reset% to default settings
376 \begingroup% make use of graphic[xs] search path
377 \beginL%
378 \ifcsname Ginput@path\endcsname%
379     \let\input@path\Ginput@path%
380 \fi%
381 %
382 \setkeys{anim@user}{#1}%
383 \ifthenelse{\boolean{@anim@autoplay}\OR\boolean{@anim@autoresume}}{%
384     \setboolean{@anim@autoplayorresume}{true}%
385 }{}%
386 \ifthenelse{\boolean{@anim@controls}\OR\boolean{@anim@palindrome}}{%
387     \setboolean{@anim@morejs}{true}%
388 }{}%
389 \ifx\empty\@anim@label\empty\else%
390     \setboolean{@anim@morejs}{true}%
391 \fi%
392 \ifthenelse{\NOT\boolean{@anim@controls}\AND\boolean{@anim@step}}{%
393     \setboolean{@anim@loop}{true}%
394 }{}%
395 \def\@anim@base{#3}%
396 \def\@anim@first{#4}%
397 \def\@anim@last{#5}%
398 %
399 \@anim@checkmultipage{\@anim@base}{\@anim@ftype}%test for multipage file
400 \if@anim@multipage\else% cope with wrong user input
401     \ifthenelse{equal{#4}{}\OR\equal{#5}{}}{%
402         \PackageError{animate}{%
403             Missing frame number in \protect\animategraphics\space command%
404         }{}%
405     }{}%
406     \ifthenelse{\@anim@first<\z@\OR\@anim@last<\z@}{%
407         \PackageError{animate}{%
408             Negative frame numbers not allowed%
409         }{}%
410     }{}%
411 \fi%
412 \def\@anim@relop{>}%
413 \edef\@anim@numtemplate{\@anim@first}%
414 \ifnum\@anim@first>\@anim@last\relax%
415     \edef\@anim@every{-\@anim@every}%
416 \def\@anim@relop{<}%
417 \edef\@anim@numtemplate{\@anim@last}%

```



```

418 \fi%
419 \global\@anim@curframe=\@anim@first%
420 \global\@anim@curframe@zb=\z@%
421 %
422 \if@anim@draft%
423   \if@anim@multipage%
424     %store file in a box
425     \@anim@filebox{\@anim@pathtofile}{\@anim@first}%
426   \else%
427     %get file name extension
428     \@anim@getpath{\@anim@base\@anim@first}{\@anim@ftype}%
429     \@anim@filebox{\@anim@pathtofile}{1}%
430   \fi%
431   \@anim@scale{\@anim@box}%
432   %draw draftbox according to dimensions of the first frame
433   \@anim@draftbox%
434 \else%
435   \if@anim@controls%
436     %create button faces only once in the current colour combination
437     \ifcsname
438       btncol:\@anim@bgcolour:\@anim@fgcolour\endcsname\else%
439       \@anim@makebuttons{the\@anim@num}%
440       \@anim@newkey{btncol:\@anim@bgcolour:\@anim@fgcolour}{the\@anim@num}%
441     \fi%
442   \fi%
443   \xdef\@anim@nfps{#2\space}% current frame rate
444   \xdef\@anim@nfps{\expandafter\zap@space\@anim@nfps\@empty}%
445   \ifdim\@anim@nfps\p<\z@%
446     \PackageError{animate}{%
447       Negative frame rate '\@anim@nfps' is not allowed%
448     }{}%
449   \fi%
450   \xdef\@anim@fps{\@anim@nfps}%
451   %
452   %read all frames of the sequence
453   \loop\ifnum\@anim@curframe\@anim@relop\@anim@last\relax\else%
454     \if@anim@multipage%
455       %embed graphics
456       \@anim@ximage{the\@anim@num}{the\@anim@curframe@zb}{%
457         \@anim@pathtofile}{the\@anim@curframe}%
458     \else%
459       %get path to current file end its extension
460       \@anim@getpath{%
461         \@anim@base\@anim@pad{\@anim@numtemplate}{the\@anim@curframe}%
462       }\@anim@ftype}%
463       %embed graphics
464       \@anim@ximage{the\@anim@num}{the\@anim@curframe@zb}{%
465         \@anim@pathtofile}{1}%
466     \fi%
467   \global\advance\@anim@curframe by \@anim@every%

```



```

468     \global\advance\@anim@curframe@zb by \@ne%
469     \repeat%
470     \xdef\@anim@frames{\the\@anim@curframe@zb}% total number
471     \global\@anim@tmpcnt=\@anim@frames%
472     \global\advance\@anim@tmpcnt by -\@ne%
473     \xdef\@anim@maxframe{\the\@anim@tmpcnt}% highest frame index
474     %build timeline from optional timeline file
475     \@anim@sanitizeJS%
476     \if\@anim@timeline\@anim@buildtmln{\the\@anim@num}\fi%
477     % if last frame used as poster, write frame num to aux file
478     \ifnum\@anim@poster=\@anim@mone\relax%
479         \@anim@keytoaux{a\the\@anim@num.poster}{\@anim@maxframe}%
480     \fi%
481     %insert animation widget & controls
482     \@anim@insertwidgets{\the\@anim@num}{%
483         \@anim@getkeyval{btncol:\@anim@bgcolour:\@anim@fgcolour}}%
484     \@anim@endsanitize%
485 \fi%
486 \endL%
487 \endgroup%
488 \global\advance\@anim@num by \@ne%
489 }%
490 %adjust catcode of `:' character within \animategraphics
491 \let\@anim@animategraphics\animategraphics
492 \def\animategraphics{\@anim@sanitizeColon\@anim@animategraphics}
493
494
495
496 %user environment for animating inline graphics
497 % #1: options
498 % #2: frame rate (fps)
499 \renewenvironment{animateinline}[2][\%
500     \@anim@endsanitize%
501     \leavevmode%
502     \@anim@reset% to default settings
503     \begingroup%
504     \beginL%
505     % make use of graphic[xs] search path
506     \ifcsname Ginput@path\endcsname%
507         \let\input@path\Ginput@path%
508     \fi%
509     \setkeys{anim@user}{#1}%
510     \ifthenelse{\boolean{\@anim@autoplay}\OR\boolean{\@anim@autoresume}}{%
511         \setboolean{\@anim@autoplayorresume}{true}%
512     }{}%
513     \ifthenelse{\boolean{\@anim@controls}\OR\boolean{\@anim@palindrome}}{%
514         \setboolean{\@anim@morejs}{true}%
515     }{}%
516     \ifx\empty\@anim@label\empty\else%
517         \setboolean{\@anim@morejs}{true}%

```



```

518 \fi%
519 \ifthenelse{\NOT\boolean{@anim@controls}}\AND\boolean{@anim@step}}{%
520   \setboolean{@anim@loop}{true}%
521 }{%
522 \global\@anim@curframe@zb=\z@%
523 \global\@anim@skipfram=\z@%
524 \if@anim@draft\else%
525   %create button faces if necessary
526   \if@anim@controls%
527     \ifcsname
528       btncol:\@anim@bgcolour:\@anim@fgcolour\endcsname\else%
529       \@anim@makebuttons{\the\@anim@num}%
530       \@anim@newkey{btncol:\@anim@bgcolour:\@anim@fgcolour}{\the\@anim@num}%
531     \fi%
532   \fi%
533   \if@anim@step\else%
534     \xdef\@anim@nfps{-1}%
535     \@anim@processfpsarg{#2}%
536   \fi%
537 \fi%
538 \ifdefined\NoHyper\NoHyper\fi% silently suppress any hyperref specials
539 \let\newframe\@anim@@newframe%
540 \let\multiframe\@anim@multiframe%
541 \@anim@beginframe%
542 \ignorespaces%
543 }{%
544   \unskip%
545   \@anim@endframe{\the\@anim@num}{\the\@anim@curframe@zb}%
546   \ifdefined\endNoHyper\endNoHyper\fi%
547   \global\advance\@anim@curframe@zb by \@ne%
548   \if@anim@draft\else%
549     \xdef\@anim@frames{\the\@anim@curframe@zb}% total number
550     \global\@anim@tmpcnt=\@anim@frames%
551     \global\advance\@anim@tmpcnt by -\@ne%
552     \xdef\@anim@maxframe{\the\@anim@tmpcnt}% highest frame index
553     %build timeline from optional timeline file
554     \@anim@sanitizeJS%
555     \if@anim@timeline\@anim@buildtmln{\the\@anim@num}\fi%
556     %insert animation widget & controls
557     \@anim@insertwidgets{\the\@anim@num}{%
558       \@anim@getkeyval{btncol:\@anim@bgcolour:\@anim@fgcolour}}%
559     \@anim@endsanitize%
560     % if last frame used as poster, write frame num to aux file
561     \ifnum\@anim@poster=\@anim@mone\relax%
562       \@anim@keytoaux{a\the\@anim@num.poster}{\@anim@maxframe}%
563     \fi%
564   \fi%
565   \endL%
566   \endgroup%
567   \global\advance\@anim@num by \@ne%

```



```

568 }
569 \let\@anim@animateinline\animateinline
570 \def\animateinline{\@anim@sanitizeColon\@anim@animateinline}

```

## 7.9 array-xetex-bidi.def

```

571 \ProvidesFile{array-xetex-bidi.def}[2015/11/07 v0.3 bidi adaptations for array package for Xe
572 \def\@testpach{\@chclass
573 \ifnum \@lastchclass=6 \@ne \@chnum \@ne \else
574 \ifnum \@lastchclass=7 5 \else
575 \ifnum \@lastchclass=8 \tw@ \else
576 \ifnum \@lastchclass=9 \thr@@
577 \else \z@
578 \ifnum \@lastchclass = 10 \else
579 \edef\@nextchar{\expandafter\string\@nextchar}%
580 \@chnum
581 \if \@nextchar c\z@ \else
582 \if \@nextchar \if@RTLtab r\else l\fi\@ne \else
583 \if \@nextchar \if@RTLtab l\else r\fi\@tw@ \else
584 \z@ \@chclass
585 \if \@nextchar |\@ne \else
586 \if \@nextchar !6 \else
587 \if \@nextchar @7 \else
588 \if \@nextchar <8 \else
589 \if \@nextchar >9 \else
590 10
591 \@chnum
592 \if \@nextchar m\thr@@\else
593 \if \@nextchar p4 \else
594 \if \@nextchar b5 \else
595 \z@ \@chclass \z@ \@preamerr \z@ \fi \fi \fi \fi
596 \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi
597 \def\@tabular{%
598 \leavevmode
599 \hbox \bgroup\if@RTLtab\beginR \fi $\col@sep\tabc@sep \let\d@llarbegin\beginR
600 \let\d@llarend\endR
601 \@tabarray}
602 \def\endtabular{\endarray $\if@RTLtab\endR\fi\egroup}
603 \expandafter\let\csname endtabular*\endcsname=\endtabular
604 \def\@array[#1]#2{%
605 \@tempdima \ht \strutbox
606 \advance \@tempdima by\extrarowheight
607 \setbox \@arstrutbox \hbox{\vrule
608 \@height \arraystretch \@tempdima
609 \@depth \arraystretch \dp \strutbox
610 \@width \z@}%
611 \beginR
612 \mkpream{#2}%
613 \xdef\@preamble{\noexpand \ialign \@halignto
614 \bgroup \@arstrut \@preamble

```





```

615 \tabskip \z@ \cr}%
616 \endgroup
617 \@arrayleft
618 \if #1t\top \else \if#1b\bottom \else \vcenter \fi \fi
619 \bgroup
620 \let \@sharp ##\let \protect \relax
621 \lineskip \z@
622 \baselineskip \z@
623 \m@th
624 \let\\\@arraycr \let\tabularnewline\\\let\par\empty \if@RTLtab\hbox\bgroup\beginR\@hboxRco
625 \def\@tabarray{\@ifnextchar[{\@array}{\@array[c]}}
626 \def\endarray{\crrc \egroup\if@RTLtab\egroup\endR\egroup\fi \egroup \@arrayright \gdef\@pream
627 \def\array{\colsep\arraycolsep
628 \def\dollarbegin{$}\let\dollarend\dollarbegin\gdef\@halignto{}}%
629 \@RTLtabfalse\@tabarray}

```

## 7.10 article-xetex-bidi.def

```

630 \ProvidesFile{article-xetex-bidi.def}[2015/11/14 v0.5 bidi adaptations for standard article c
631 \if@titlepage
632 \renewcommand\maketitle{\begin{titlepage}%
633 \let\footnotesize\small
634 \let\right@footnoterule\relax
635 \let\left@footnoterule\relax
636 \let\textwidth\footnoterule\relax
637 \let \footnote \thanks
638 \let \LTRfootnote \LTRthanks
639 \let \RTLfootnote \RTLthanks
640 \null\vfil
641 \vskip 60\p@
642 \begin{center}%
643 {\LARGE \@title \par}%
644 \vskip 3em%
645 {\large
646 \lineskip .75em%
647 \begin{tabular}[t]{c}%
648 \@author
649 \end{tabular}\par}%
650 \vskip 1.5em%
651 {\large \@date \par}% % Set date in \large size.
652 \end{center}\par
653 \thanks
654 \vfil\null
655 \end{titlepage}%
656 \setcounter{footnote}{0}%
657 \global\let\thanks\relax
658 \global\let\LTRthanks\relax
659 \global\let\RTLthanks\relax
660 \global\let\maketitle\relax
661 \global\let\@thanks\@empty

```



```

662 \global\let\@author\@empty
663 \global\let\@date\@empty
664 \global\let\@title\@empty
665 \global\let\title\relax
666 \global\let\author\relax
667 \global\let\date\relax
668 \global\let\and\relax
669 }
670 \else
671 \renewcommand\maketitle{\par
672 \begingroup
673 \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
674 \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
675 \long\def\@makefnmark##1{\parindent 1em\noindent
676 \hspace{1.8em}%
677 \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
678 \if@twocolumn
679 \ifnum \col@number=\@ne
680 \@maketitle
681 \else
682 \twocolumn[\@maketitle]%
683 \fi
684 \else
685 \newpage
686 \global\@topnum\z@ % Prevents figures from going at top of page.
687 \@maketitle
688 \fi
689 \thispagestyle{plain}\@thanks
690 \endgroup
691 \setcounter{footnote}{0}%
692 \global\let\thanks\relax
693 \global\let\LTRthanks\relax
694 \global\let\RTLthanks\relax
695 \global\let\maketitle\relax
696 \global\let\@maketitle\relax
697 \global\let\@thanks\@empty
698 \global\let\@author\@empty
699 \global\let\@date\@empty
700 \global\let\@title\@empty
701 \global\let\title\relax
702 \global\let\author\relax
703 \global\let\date\relax
704 \global\let\and\relax
705 }
706 \def\@maketitle{%
707 \newpage
708 \null
709 \vskip 2em%
710 \begin{center}%
711 \let \footnote \thanks

```



```

712 \let \LTRfootnote \LTRthanks
713 \let \RTLfootnote \RTLthanks
714 {\LARGE \@title \par}%
715 \vskip 1.5em%
716 {\large
717 \lineskip .5em%
718 \begin{tabular}[t]{c}%
719 \@author
720 \end{tabular}\par}%
721 \vskip 1em%
722 {\large \@date}%
723 \end{center}%
724 \par
725 \vskip 1.5em}
726 \fi
727 \renewcommand*\l@part[2]{%
728 \ifnum \c@tocdepth >-2\relax
729 \addpenalty\@secpenalty
730 \addvspace{2.25em \@plus\p@}%
731 \setlength\@tempdima{3em}%
732 \begingroup
733 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
734 \parfillskip -\@pnumwidth
735 {\leavevmode
736 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
737 \nobreak
738 \if@compatibility
739 \global\@nobreaktrue
740 \everypar{\global\@nobreakfalse\everypar{}}%
741 \fi
742 \endgroup
743 \fi}
744 \renewcommand*\l@section[2]{%
745 \ifnum \c@tocdepth >\z@
746 \addpenalty\@secpenalty
747 \addvspace{1.0em \@plus\p@}%
748 \setlength\@tempdima{1.5em}%
749 \begingroup
750 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
751 \parfillskip -\@pnumwidth
752 \leavevmode \bfseries
753 \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
754 \hskip -\if@RTL\rightskip\else\leftskip\fi
755 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
756 \endgroup
757 \fi}
758 \renewcommand\left@footnoterule{%
759 \kern-3\p@
760 \hrule\@width.4\columnwidth
761 \kern2.6\p@}

```



```

762 \renewcommand\right@footnoterule{%
763   \kern-3\p@
764   \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
765   \kern2.6\p@}
766 \renewcommand\thesubsection   {\thesection\@SepMark\@arabic\c@section}
767 \renewcommand\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
768 \renewcommand\theparagraph    {\thesubsubsection\@SepMark\@arabic\c@paragraph}
769 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
770 \def\@part[#1]#2{%
771   \ifnum \c@secnumdepth >\m@ne
772     \refstepcounter{part}%
773     \addcontentsline{toc}{part}{\thepart\hspace{1em}#1}%
774   \else
775     \addcontentsline{toc}{part}{#1}%
776   \fi
777   {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
778    \interlinepenalty \@M
779    \normalfont
780    \ifnum \c@secnumdepth >\m@ne
781      \Large\bfseries \partname\nobreakspace\thepart
782      \par\nobreak
783    \fi
784    \huge \bfseries #2%
785    \markboth{}{}\par}%
786  \nobreak
787  \vskip 3ex
788  \@afterheading}
789 \renewenvironment{thebibliography}[1]
790   {\section*{\refname}%
791    \@mkboth{\MakeUppercase\refname}{\MakeUppercase\refname}%
792    \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
793    \list{\@biblabel{\@arabic\c@enumiv}}%
794      {\settowidth\labelwidth{\@biblabel{#1}}%
795       \leftmargin\labelwidth
796       \advance\leftmargin\labelsep
797       \@openbib@code
798       \usecounter{enumiv}%
799       \let\p@enumiv\@empty
800       \renewcommand\theenumiv{\@arabic\c@enumiv}}%
801   \sloppy
802   \clubpenalty4000
803   \@clubpenalty \clubpenalty
804   \widowpenalty4000%
805   \sfcode`.\@m}
806   {\def\@noitemerr
807    {\@latex@warning{Empty `thebibliography' environment}}%
808    \endlist}
809 \renewenvironment{theindex}
810   {\if@twocolumn
811    \@restonecolfalse

```



```

812         \else
813             \@restonecoltrue
814         \fi
815         \columnseprule \z@
816         \columnsep 35\p@
817         \twocolumn[\section*{\indexname}]%
818         \@mkboth{\MakeUppercase\indexname}%
819                 {\MakeUppercase\indexname}%
820         \thispagestyle{plain}\parindent\z@
821         \parskip\z@ \@plus .3\p@\relax
822         \let\item\@idxitem}
823     {\if@restonecol\onecolumn\else\clearpage\fi}

```

## 7.11 artikel1-xetex-bidi.def

```

824 \ProvidesFile{artikel1-xetex-bidi.def}[2015/11/14 v0.3 bidi adaptations for artikel1 class fo
825 \renewenvironment{theindex}{\%
826     \if@twocolumn
827         \@restonecolfalse
828     \else
829         \@restonecoltrue
830     \fi
831     \columnseprule \z@
832     \columnsep 35\p@
833     \twocolumn[\section*{\indexname}]%
834     \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
835     \thispagestyle{plain}\parindent\z@
836     \parskip\z@ \@plus .3\p@\relax
837     \let\item\@idxitem
838 }{\%
839     \if@restonecol\onecolumn\else\clearpage\fi}
840 \renewcommand*\head@style{\%
841     \interlinepenalty \@M
842     \hyphenpenalty=\@M \exhyphenpenalty=\@M
843     \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
844 \if@titlepage
845     \renewenvironment{abstract}{\%
846         \titlepage
847         \null\vfil
848         \section*{\SectFont\abstractname}
849         \noindent\ignorespaces}
850     {\par\vfil\null\endtitlepage}
851 \else
852     \renewenvironment{abstract}{\%
853         \if@twocolumn
854             \section*{\abstractname}%
855         \else
856             \bgroup\if@RTL\leftskip\else\rightskip\fi=\unitindent
857             \section*{\small\SectFont\abstractname}%
858             \noindent\ignorespaces

```



```

859     \fi}
860     {\if@twocolumn\else\par\egroup\fi}
861 \fi
862 \renewcommand*\@regtocline[3]{%
863   \ifnum #1>\c@tocdepth
864   \else
865     \vskip\z@\@plus.2\p@
866     {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
867     \if@RTL\rightskip\else\leftskip\fi\unitindent
868     \if@RTL\leftskip\else\rightskip\fi\unitindent\@plus 1fil
869     \parfillskip\z@
870     \@tempdima\unitindent
871     \parindent\z@
872     \leavevmode
873     \hbox{\hskip -\if@RTL\rightskip\else\leftskip\fi\relax#2\nobreak
874     \hskip 1em \nobreak{\slshape #3}\par
875     }%
876   \fi}
877 \if@oldtoc
878 \renewcommand*\l@part[2]{%
879   \ifnum \c@tocdepth >-2\relax
880     \addpenalty\@secpenalty
881     \addvspace{2.25em \@plus\p@}%
882     \begingroup
883       \setlength\@tempdima{3em}%
884       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
885       \parfillskip -\@pnumwidth
886       {\leavevmode
887         \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
888         \nobreak
889         \if@compatibility
890           \global\@nobreaktrue
891           \everypar{\global\@nobreakfalse\everypar{}}%
892       \fi
893     \endgroup
894   \fi}
895 \else
896   \renewcommand*\l@part{%
897     \ifnum \c@tocdepth >-2\relax
898       \addpenalty\@secpenalty
899       \addvspace{2.25em \@plus \p@}%
900       \@regtocline{0}%
901     \fi}
902 \fi
903 \if@oldtoc
904 \renewcommand*\l@section[2]{%
905   \addpenalty\@secpenalty
906   \addvspace{1.0em \@plus\p@}%
907   \setlength\@tempdima{1.5em}%
908   \begingroup

```



```

909 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
910 \parfillskip -\@pnumwidth
911 \leavevmode \bfseries
912 \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
913 \hskip -\if@RTL\rightskip\else\leftskip\fi
914 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
915 \endgroup}
916 \else
917 \renewcommand*\l@section{\@regtocline{1}}
918 \fi
919 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
920 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
921 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
922 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
923 \renewenvironment{thebibliography}[1]
924 {\section*\refname}%
925 \mkboth{\MakeUppercase\refname}{\MakeUppercase\refname}%
926 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
927 \list{\@biblabel{\@arabic\c@enumiv}}%
928 {\settowidth\labelwidth{\@biblabel{#1}}%
929 \leftmargin\labelwidth
930 \advance\leftmargin\labelsep
931 \@openbib@code
932 \usecounter{enumiv}%
933 \let\p@enumiv\@empty
934 \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
935 \sloppy\clubpenalty4000\widowpenalty4000%
936 \sfcode`\.\@m}
937 {\def\@noitemerr
938 {\@latex@warning{Empty `thebibliography' environment}}}%
939 \endlist}
940 \renewcommand*\left@footnoterule{%
941 \kern-3\p@
942 \kern.5\baselineskip
943 \hrule\@width\unitindent
944 \kern.4\baselineskip
945 }
946 \renewcommand*\right@footnoterule{%
947 \kern-3\p@
948 \kern.5\baselineskip
949 \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
950 \kern.4\baselineskip}
951 \if@titlepage
952 \renewcommand*\TitleFont{\rmfamily}
953 \renewcommand*\maketitle{%
954 \begin{titlepage}%
955 \let\footnotesize\small
956 \let\right@footnoterule\relax
957 \let\left@footnoterule\relax
958 \let\textwidth\footnoterule\relax

```



```

959 \let \footnote \thanks
960 \long\def\@makefntext##1{\parindent\z@
961 \def\labelitemi{\textendash}\@revlabeltrue
962 \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
963 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
964 \if@compatibility\setcounter{page}{0}\fi
965 \null\vfil
966 \vskip 60\p@
967 \begin{center}%
968 \TitleFont
969 {\LARGE \def\\{\penalty -\@M}
970 \if@allcaps
971 \expandafter\uc@nothanks\@title\thanks\relax
972 \else
973 \@title
974 \fi\par}%
975 \vskip 3em%
976 {\large
977 \lineskip .75em \parindent\z@
978 \begin{tabular}[t]{c}%
979 \if@allcaps
980 \expandafter\uc@authornothanks\@author\and\relax
981 \else
982 \@author
983 \fi
984 \end{tabular}\par}%
985 \vskip 1.5em%
986 {\large
987 \if@allcaps
988 \uppercase\expandafter{\@date}%
989 \else
990 \@date
991 \fi\par}%
992 \end{center}\par
993 \@thanks
994 \vfil\null
995 \end{titlepage}%
996 \setcounter{footnote}{0}%
997 \global\let\thanks\relax
998 \global\let\maketitle\relax
999 \global\let\@thanks\@empty
1000 \global\let\@author\@empty
1001 \global\let\@title\@empty
1002 \global\let\@date\@empty
1003 \global\let\title\relax
1004 \global\let\author\relax
1005 \global\let\date\relax
1006 \global\let\and\relax
1007 }
1008 \def\uc@nothanks#1\thanks{\uppercase{#1}\futurelet\@tempa\uc@tx}

```





```

1009 \def\uc@authornothanks#1\and{\uc@nothanks#1\thanks\relax
1010     \futurelet\@tempa\uc@ax}
1011 \def\uc@ax{%
1012     \ifx\@tempa\relax
1013     \else
1014         \\\andname \\\expandafter\uc@authornothanks
1015     \fi}
1016 \def\uc@tx{\ifx\@tempa\relax
1017     \else \expandafter\uc@ty \fi}
1018 \def\uc@ty#1{\thanks{#1}\uc@nothanks}
1019 \else
1020 \renewcommand*\maketitle{\par
1021     \begingroup
1022     \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
1023     \def\@makefnmark{\rlap{%
1024         \@textsuperscript{\normalfont\@thefnmark}}}%
1025     \long\def\@makefntext{\@xmakefntext{%
1026         \@textsuperscript{\normalfont\@thefnmark}}}%
1027     \if@twocolumn
1028         \ifnum \col@number=\@ne
1029             \@maketitle
1030         \else
1031             \twocolumn[\@maketitle]%
1032         \fi
1033     \else
1034         \newpage
1035         \global\@topnum\z@
1036         \@maketitle
1037     \fi
1038     \thispagestyle{plain}\@thanks
1039 \endgroup
1040 \setcounter{footnote}{0}%
1041 \global\let\thanks\relax
1042 \global\let\maketitle\relax
1043 \global\let\@maketitle\relax
1044 \global\let\@thanks\@empty
1045 \global\let\@author\@empty
1046 \global\let\@title\@empty
1047 \global\let\@date\@empty
1048 \global\let\title\relax
1049 \global\let\author\relax
1050 \global\let\date\relax
1051 \global\let\and\relax
1052 }
1053 \def\@maketitle{%
1054     \newpage
1055     \null
1056     \vskip 2em%
1057     \begin{center}%
1058         \let \footnote \thanks

```



```

1059     {\LARGE \TitleFont \@title \par}%
1060     \vskip 1.5em%
1061     {\large \TitleFont
1062      \lineskip .5em%
1063      \begin{tabular}[t]{c}%
1064        \@author
1065      \end{tabular}\par}%
1066     \vskip 1em%
1067     {\large \TitleFont \@date}%
1068 \end{center}%
1069 \par
1070 \vskip 1.5em}
1071 \fi

```

## 7.12 artikel2-xetex-bidi.def

```

1072 \ProvidesFile{artikel2-xetex-bidi.def}[2015/11/14 v0.3 bidi adaptations for artikel2 class fo
1073 \renewenvironment{theindex}{%
1074   \if@twocolumn
1075     \@restonecolfalse
1076   \else
1077     \@restonecoltrue
1078   \fi
1079   \columnseprule \z@
1080   \columnsep 35\p@
1081   \twocolumn[\section*{\indexname}]%
1082   \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
1083   \thispagestyle{plain}\parindent\z@
1084   \parskip\z@ \@plus .3\p@\relax
1085   \let\item\@idxitem
1086 }{%
1087   \if@restonecol\onecolumn\else\clearpage\fi}
1088 \renewcommand*{\regtocline}[3]{%
1089   \ifnum #1>\c@tocdepth
1090   \else
1091     \vskip\z@ \@plus .2\p@
1092     {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
1093      \if@RTL\rightskip\else\leftskip\fi\unitindent
1094      \if@RTL\leftskip\else\rightskip\fi\unitindent\@plus 1fil
1095      \parfillskip\z@
1096      \@tempdima\unitindent
1097      \advance\@tempdima by \othermargin
1098      \parindent\z@
1099      \leavevmode
1100      \hbox{\hskip -\if@RTL\rightskip\else\leftskip\fi\relax#2\nobreak
1101       \hskip 1em \nobreak{\slshape #3}\par
1102     }%
1103   \fi}
1104 \if@oldtoc
1105 \renewcommand*{\l@section}[2]{%

```



```

1106 \addpenalty\@secpenalty
1107 \addvspace{1.0em \@plus\p@}%
1108 \setlength\@tempdima{1.5em}%
1109 \begingroup
1110 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
1111 \parfillskip -\@pnumwidth
1112 \leavevmode \bfseries
1113 \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
1114 \hskip -\if@RTL\rightskip\else\leftskip\fi
1115 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
1116 \endgroup}
1117 \else
1118 \renewcommand*\l@section{\@regtocline{1}}
1119 \fi
1120 \if@oldtoc
1121 \renewcommand*\l@part[2]{%
1122 \ifnum \c@tocdepth >-2\relax
1123 \addpenalty\@secpenalty
1124 \addvspace{2.25em \@plus\p@}%
1125 \begingroup
1126 \setlength\@tempdima{3em}%
1127 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
1128 \parfillskip -\@pnumwidth
1129 {\leavevmode
1130 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
1131 \nobreak
1132 \if@compatibility
1133 \global\@nobreaktrue
1134 \everypar{\global\@nobreakfalse\everypar{}}%
1135 \fi
1136 \endgroup
1137 \fi}
1138 \else
1139 \renewcommand*\l@part{%
1140 \ifnum \c@tocdepth >-2\relax
1141 \addpenalty\@secpenalty
1142 \addvspace{2.25em \@plus \p@}%
1143 \@regtocline{0}%
1144 \fi}
1145 \fi
1146 \renewcommand*\head@style{%
1147 \interlinepenalty \@M
1148 \hyphenpenalty=\@M \exhyphenpenalty=\@M
1149 \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
1150 \if@titlepage
1151 \renewenvironment{abstract}{%
1152 \titlepage
1153 \null\vfil
1154 \section*{\SectFont\abstractname}%
1155 \noindent\ignorespaces}

```



```

1156     {\par\vfil\null\endtitlepage}
1157 \else
1158   \renewenvironment{abstract}{%
1159     \if@twocolumn
1160       \section*{\abstractname}%
1161     \else
1162       \section*{\hskip\unitindent\small\SectFont\abstractname}%
1163       \list{}{\setlength\listparindent{\unitindent}%
1164         \setlength\parindent{\z@}%
1165         \setlength\leftmargin{\unitindent}%
1166         \setlength\rightmargin{\unitindent}%
1167         \setlength\parsep{\z@}}%
1168       \item[]%
1169     \fi}
1170   {\if@twocolumn\else\par\endlist\fi}
1171 \fi
1172 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
1173 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
1174 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
1175 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
1176 \renewcommand*\left@footnoterule{%
1177   \kern-3\p@
1178   \hrule\@width 3\unitindent
1179   \kern 2.6\p@
1180 }
1181 \renewcommand*\right@footnoterule{%
1182   \kern-3\p@
1183   \hbox to \columnwidth{\hskip \dimexpr\columnwidth-3\unitindent\relax \hrulefill }
1184   \kern 2.6\p@}
1185 \renewenvironment{thebibliography}[1]
1186   {\section*{\refname}%
1187     \@mkboth{\MakeUppercase\refname}{\MakeUppercase\refname}%
1188     \ifRTL\if@LTbibitems\@RTLfalse\else\fi\else\if@RTLBibitems\@RTLtrue\else\fi\fi
1189     \list{\@biblabel{\@arabic\c@enumiv}}%
1190       {\settowidth\labelwidth{\@biblabel{#1}}%
1191         \leftmargin\labelwidth
1192         \advance\leftmargin\labelsep
1193         \@openbib@code
1194         \usecounter{enumiv}%
1195         \let\p@enumiv\@empty
1196         \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
1197     \sloppy\clubpenalty4000\widowpenalty4000%
1198     \sfcode\.\@m}
1199   {\def\@noitemerr
1200     {\@latex@warning{Empty `thebibliography' environment}}%
1201     \endlist}
1202 \if@titlepage
1203 \renewcommand*\TitleFont{\rmfamily}
1204 \renewcommand*\maketitle{%
1205   \begin{titlepage}%

```



```

1206 \let\footnotesize\small
1207 \let\right@footnoterule\relax
1208 \let\left@footnoterule\relax
1209 \let\textwidth@footnoterule\relax
1210 \let \footnote \thanks
1211 \long\def\@makefntext##1{\parindent\z@
1212     \def\labelitemi{\textendash}\@revlabeltrue
1213     \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
1214 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
1215 \if@compatibility\setcounter{page}{0}\fi
1216 \null\vfil
1217 \vskip 60p@
1218 \begin{center}%
1219     \TitleFont
1220     {\LARGE \def\{\{\penalty -\@M}
1221     \if@allcaps
1222         \expandafter\uc@nothanks\@title\thanks\relax
1223     \else
1224         \@title
1225     \fi\par}%
1226 \vskip 3em%
1227 {\large
1228     \lineskip .75em \parindent\z@
1229     \begin{tabular}[t]{c}%
1230         \if@allcaps
1231             \expandafter\uc@authornothanks\@author\and\relax
1232         \else
1233             \@author
1234         \fi
1235     \end{tabular}\par}%
1236 \vskip 1.5em%
1237 {\large
1238     \if@allcaps
1239         \uppercase\expandafter{\@date}%
1240     \else
1241         \@date
1242     \fi\par}%
1243 \end{center}\par
1244 \@thanks
1245 \vfil\null
1246 \end{titlepage}%
1247 \setcounter{footnote}{0}%
1248 \global\let\thanks\relax
1249 \global\let\maketitle\relax
1250 \global\let\@thanks\@empty
1251 \global\let\@author\@empty
1252 \global\let\@title\@empty
1253 \global\let\@date\@empty
1254 \global\let\title\relax
1255 \global\let\author\relax

```



```

1256 \global\let\date\relax
1257 \global\let\and\relax
1258 }
1259 \def\uc@nothanks#1\thanks{\uppercase{#1}\futurelet\@tempa\uc@tx}
1260 \def\uc@authornothanks#1\and{\uc@nothanks#1\thanks\relax
1261 \futurelet\@tempa\uc@ax}
1262 \def\uc@ax{%
1263 \ifx\@tempa\relax
1264 \else
1265 \\\andname \\\expandafter\uc@authornothanks
1266 \fi}
1267 \def\uc@tx{\ifx\@tempa\relax
1268 \else \expandafter\uc@ty \fi}
1269 \def\uc@ty#1{\thanks{#1}\uc@nothanks}
1270 \else
1271 \renewcommand*\maketitle{\par
1272 \beginingroup
1273 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
1274 \long\def\@makefntext##1{\parindent\z@
1275 \def\labelitemi{\textendash}%
1276 \leavevmode\hb@xt@.5\unitindent{%
1277 \@textsuperscript{\normalfont\@thefnmark}\hfil}##1}
1278 \if@twocolumn
1279 \ifnum \col@number=\@ne
1280 \@maketitle
1281 \else
1282 \twocolumn[\@maketitle]%
1283 \fi
1284 \else
1285 \newpage
1286 \global\@topnum\z@
1287 \@maketitle
1288 \fi
1289 \thispagestyle{plain}\@thanks
1290 \endgroup
1291 \setcounter{footnote}{0}%
1292 \global\let\thanks\relax
1293 \global\let\maketitle\relax
1294 \global\let\@maketitle\relax
1295 \global\let\@thanks\@empty
1296 \global\let\@author\@empty
1297 \global\let\@title\@empty
1298 \global\let\@date\@empty
1299 \global\let\title\relax
1300 \global\let\author\relax
1301 \global\let\date\relax
1302 \global\let\and\relax
1303 }
1304 \def\@maketitle{%
1305 \newpage

```



```

1306 \null
1307 \vskip 2em%
1308 \begin{center}%
1309 \let \footnote \thanks
1310 {\LARGE \TitleFont \@title \par}%
1311 \vskip 1.5em%
1312 {\large \TitleFont
1313 \lineskip .5em%
1314 \begin{tabular}[t]{c}%
1315 \@author
1316 \end{tabular}\par}%
1317 \vskip 1em%
1318 {\large \TitleFont \@date}%
1319 \end{center}%
1320 \par
1321 \vskip 1.5em}
1322 \fi

```

### 7.13 artikel3-xetex-bidi.def

```

1323 \ProvidesFile{artikel3-xetex-bidi.def}[2015/11/14 v0.4 bidi adaptations for artikel3 class fo
1324 \renewenvironment{theindex}{%
1325 \if@twocolumn
1326 \@restonecolfalse
1327 \else
1328 \@restonecoltrue
1329 \fi
1330 \columnseprule \z@
1331 \columnsep 35\p@
1332 \twocolumn[\section*{\indexname}]{%
1333 \mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
1334 \thispagestyle{plain}\parindent\z@
1335 \parskip\z@ \@plus .3\p@\relax
1336 \let\item\@idxitem
1337 }{%
1338 \if@restonecol\onecolumn\else\clearpage\fi}
1339 \renewcommand*\head@style{%
1340 \interlinepenalty \@M
1341 \hyphenpenalty=\@M \exhyphenpenalty=\@M
1342 \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
1343 \renewcommand*\regtocline[3]{%
1344 \ifnum #1>\c@tocdepth
1345 \else
1346 \vskip\z@\@plus.2\p@
1347 {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
1348 \if@RTL\rightskip\else\leftskip\fi\unitindent
1349 \if@RTL\leftskip\else\rightskip\fi\unitindent\@plus 1fil
1350 \parfillskip\z@
1351 \@tempdima\unitindent
1352 \parindent\z@

```



```

1353     \leavevmode
1354     \hbox{}\hskip -\if@RTL\rightskip\else\leftskip\fi\relax#2\nobreak
1355     \hskip 1em \nobreak{\slshape #3}\par
1356   }%
1357 \fi}
1358 \if@oldtoc
1359 \renewcommand*\l@part[2]{%
1360   \ifnum \c@tocdepth >-2\relax
1361     \addpenalty\@secpenalty
1362     \addvspace{2.25em \@plus\p@}%
1363     \begingroup
1364       \setlength\@tempdima{3em}%
1365       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
1366       \parfillskip -\@pnumwidth
1367       {\leavevmode
1368         \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
1369         \nobreak
1370         \if@compatibility
1371           \global\@nobreaktrue
1372           \everypar{\global\@nobreakfalse\everypar{}}%
1373         \fi
1374       \endgroup
1375     \fi}
1376 \else
1377 \renewcommand*\l@part{%
1378   \ifnum \c@tocdepth >-2\relax
1379     \addpenalty\@secpenalty
1380     \addvspace{2.25em \@plus \p@}%
1381     \@regtocline{0}%
1382   \fi}
1383 \fi
1384
1385 \if@oldtoc
1386 \renewcommand*\l@section[2]{%
1387   \addpenalty\@secpenalty
1388   \addvspace{1.0em \@plus\p@}%
1389   \setlength\@tempdima{1.5em}%
1390   \begingroup
1391     \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
1392     \parfillskip -\@pnumwidth
1393     \leavevmode \bfseries
1394     \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
1395     \hskip -\if@RTL\rightskip\else\leftskip\fi
1396     #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
1397   \endgroup}
1398 \else
1399 \renewcommand*\l@section{\@regtocline{1}}
1400 \fi
1401 \if@titlepage
1402 \renewenvironment{abstract}{%

```





```

1403     \titlepage
1404     \null\vfil
1405     \section*{\SectFont\abstractname}%
1406     \noindent\ignorespaces}
1407     {\par\vfil\null\endtitlepage}
1408 \else
1409   \renewenvironment{abstract}{%
1410     \if@twocolumn
1411       \section*{\abstractname}%
1412     \else
1413       \bgroup\if@RTL\leftskip\else\rightskip\fi=\unitindent
1414       \section*{\small\SectFont\abstractname}%
1415       \noindent\ignorespaces
1416     \fi}
1417     {\if@twocolumn\else\par\egroup\fi}
1418 \fi
1419 \renewcommand*\left@footnoterule{%
1420   \kern-3\p@
1421   \kern.5\baselineskip
1422   \hrule\@width\unitindent
1423   \kern.4\baselineskip
1424 }
1425 \renewcommand*\right@footnoterule{%
1426   \kern-3\p@
1427   \kern.5\baselineskip
1428   \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
1429   \kern.4\baselineskip}
1430 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@section}
1431 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
1432 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
1433 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
1434 \renewenvironment{thebibliography}[1]
1435   {\section*{\refname}%
1436     \@mkboth{\MakeUppercase\refname}{\MakeUppercase\refname}%
1437     \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
1438     \list{\@biblabel{\@arabic\c@enumiv}}%
1439       {\settowidth\labelwidth{\@biblabel{#1}}%
1440        \leftmargin\labelwidth
1441        \advance\leftmargin\labelsep
1442        \@openbib@code
1443        \usecounter{enumiv}%
1444        \let\p@enumiv\@empty
1445        \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
1446     \sloppy\clubpenalty4000\widowpenalty4000
1447     \sfcode`\.\@m}
1448   {\def\@noitemerr
1449     {\@latex@warning{Empty `thebibliography' environment}}}%
1450     \endlist}
1451 \if@titlepage
1452 \renewcommand*\TitleFont{\rmfamily}

```



```

1453 \renewcommand*\maketitle{%
1454   \begin{titlepage}%
1455     \let\footnotesize\small
1456     \let\right@footnoterule\relax
1457     \let\left@footnoterule\relax
1458     \let\textwidth@footnoterule\relax
1459     \let \footnote \thanks
1460     \long\def\@makefnmark##1{\parindent\z@
1461       \def\labelitemi{\textendash}\@revlabeltrue
1462       \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
1463     \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
1464     \if@compatibility\setcounter{page}{0}\fi
1465     \null\vfil
1466     \vskip 60\p@
1467     \begin{center}%
1468       \TitleFont
1469       {\LARGE \def\\{\penalty -\@M}
1470         \if@allcaps
1471           \expandafter\uc@nothanks\@title\thanks\relax
1472         \else
1473           \@title
1474         \fi\par}%
1475       \vskip 3em%
1476       {\large
1477         \lineskip .75em \parindent\z@
1478         \begin{tabular}[t]{c}%
1479           \if@allcaps
1480             \expandafter\uc@authornothanks\@author\and\relax
1481           \else
1482             \@author
1483           \fi
1484         \end{tabular}\par}%
1485       \vskip 1.5em%
1486       {\large
1487         \if@allcaps
1488           \uppercase\expandafter{\@date}%
1489         \else
1490           \@date
1491         \fi\par}%
1492       \end{center}\par
1493       \@thanks
1494       \vfil\null
1495     \end{titlepage}%
1496     \setcounter{footnote}{0}%
1497     \global\let\thanks\relax
1498     \global\let\maketitle\relax
1499     \global\let\@thanks\@empty
1500     \global\let\@author\@empty
1501     \global\let\@title\@empty
1502     \global\let\@date\@empty

```



```

1503 \global\let\title\relax
1504 \global\let\author\relax
1505 \global\let\date\relax
1506 \global\let\and\relax
1507 }
1508 \def\uc@nothanks#1\thanks{\uppercase{#1}\futurelet\@tempa\uc@tx}
1509 \def\uc@authornothanks#1\and{\uc@nothanks#1\thanks\relax
1510 \futurelet\@tempa\uc@ax}
1511 \def\uc@ax{%
1512 \ifx\@tempa\relax
1513 \else
1514 \\\andname \\\expandafter\uc@authornothanks
1515 \fi}
1516 \def\uc@tx{\ifx\@tempa\relax
1517 \else \expandafter\uc@ty \fi}
1518 \def\uc@ty#1{\thanks{#1}\uc@nothanks}
1519 \else
1520 \renewcommand*\maketitle{\par
1521 \begingroup
1522 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
1523 \def\@makefnmark{\rlap{%
1524 \@textsuperscript{\normalfont\@thefnmark}}}%
1525 \long\def\@makefntext{\@xmakefntext{%
1526 \@textsuperscript{\normalfont\@thefnmark}}}%
1527 \if@twocolumn
1528 \ifnum \col@number=\@ne
1529 \@maketitle
1530 \else
1531 \twocolumn[\@maketitle]%
1532 \fi
1533 \else
1534 \newpage
1535 \global\@topnum\z@
1536 \@maketitle
1537 \fi
1538 \thispagestyle{plain}\@thanks
1539 \endgroup
1540 \setcounter{footnote}{0}%
1541 \global\let\thanks\relax
1542 \global\let\maketitle\relax
1543 \global\let\@maketitle\relax
1544 \global\let\@thanks\@empty
1545 \global\let\@author\@empty
1546 \global\let\@title\@empty
1547 \global\let\@date\@empty
1548 \global\let\title\relax
1549 \global\let\author\relax
1550 \global\let\date\relax
1551 \global\let\and\relax
1552 }

```



```

1553 \def\@maketitle{%
1554   \newpage
1555   \null
1556   \vskip 2em%
1557   \if@titlecentered
1558     \begin{center}%
1559       \let \footnote \thanks
1560       {\LARGE \TitleFont \@title \par}%
1561       \vskip 1.5em%
1562       {\large \TitleFont
1563         \lineskip .5em%
1564         \begin{tabular}[t]{c}%
1565           \@author
1566           \end{tabular}\par}%
1567       \vskip 1em%
1568       {\large \TitleFont \@date}%
1569     \end{center}%
1570   \else
1571     {\LARGE \TitleFont \headstyle \@title \par} \vskip 1.5em
1572     {\large \TitleFont \lineskip .5em \tabcolsep\z@
1573       \def\and{%% \begin{tabular} has already started
1574         \end{tabular}\hskip 1em plus .17fil
1575         \if@RTL\begin{tabular}[t]{r}\else\begin{tabular}[t]{l}\fi}% \end{tabular}
1576         \if@RTL\begin{tabular}[t]{r}\else\begin{tabular}[t]{l}\fi\@author\end{tabular}\p
1577       \vskip 1em {\large \TitleFont \@date}
1578     \fi
1579     \par
1580     \vskip 1.5em}
1581 \fi

```

## 7.14 arydshln-xetex-bidi.def

```

1582 \ProvidesFile{arydshln-xetex-bidi.def}[2010/08/01 v0.2 bidi adaptations for arydshln package
1583 \def\endarray{\adl@endarray \egroup \adl@arrayrestore \if@RTLtab\egroup\endR\egroup\fi\egroup}
1584 \def\endtabular{\endarray $\if@RTLtab\endR\fi\egroup}
1585 \expandafter\let\csname endtabular*\endcsname\endtabular
1586 \let\adl@array\@array
1587 \def\@array{\adl@everyvbox\everyvbox
1588   \everyvbox{\adl@arrayinit \the\adl@everyvbox \everyvbox\adl@everyvbox}%
1589   \ifadl@inactive \adl@inactivate \else \adl@activate \fi
1590   \let\adl@noalign\noalign
1591   \adl@array}
1592 \ifadl@usingarypkg
1593 \def\@testpach{\@chclass
1594   \ifnum \@lastchclass=6 \@ne \@chnum \@ne \else
1595     \ifnum \@lastchclass=7 5 \else
1596       \ifnum \@lastchclass=8 \tw@ \else
1597         \ifnum \@lastchclass=9 \thr@@
1598         \else \z@
1599         \ifnum \@lastchclass = 10 \else

```



```

1600 \edef\@nextchar{\expandafter\string\@nextchar}%
1601 \@chnum
1602 \if \@nextchar c\z@ \else
1603 \if \@nextchar \if@RTLtab r\else l\fi\@one \else
1604 \if \@nextchar \if@RTLtab l\else r\fi\tw@ \else
1605 \z@ \@chclass
1606 \if\@nextchar |\@one \let\@arrayrule\adl@arrayrule \else
1607 \if\@nextchar :\@one \let\@arrayrule\adl@arraydashrule \else
1608 \if\@nextchar ;\@one \let\@arrayrule\adl@argarraydashrule \else
1609 \if \@nextchar !6 \else
1610 \if \@nextchar @7 \else
1611 \if \@nextchar <8 \else
1612 \if \@nextchar >9 \else
1613 10
1614 \@chnum
1615 \if \@nextchar m\thr@@\else
1616 \if \@nextchar p4 \else
1617 \if \@nextchar b5 \else
1618 \z@ \@chclass \z@ \@preamerr \z@ \fi \fi \fi \fi \fi \fi
1619 \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi
1620
1621 \def\@classz{\@classx
1622 \@tempcnta \count@
1623 \prepnext@tok
1624 \@addtopreamble{\ifcase \@chnum
1625 \hfil
1626 \adl@putlrc{\d@llarbegin \insert@column \d@llarend}\hfil \or
1627 \hskip1sp\adl@putlrc{\d@llarbegin \insert@column \d@llarend}\hfil \or
1628 \hfil\hskip1sp\adl@putlrc{\d@llarbegin \insert@column \d@llarend}\or
1629 \setbox\adl@box\hbox \adl@startmbox{\@nextchar}\insert@column
1630 \adl@endmbox\or
1631 \setbox\adl@box\vtop \@startpbox{\@nextchar}\insert@column \@endpbox \or
1632 \setbox\adl@box\vbox \@startpbox{\@nextchar}\insert@column \@endpbox
1633 \fi}\prepnext@tok}
1634 \def\adl@class@start{4}
1635 \def\adl@class@iiiorvii{7}
1636
1637 \else
1638 \def\@testpach#1{\@chclass \ifnum \@lastchclass=\tw@ 4\relax \else
1639 \ifnum \@lastchclass=\thr@@ 5\relax \else
1640 \z@ \if #1c\@chnum \z@ \else
1641 \if \if@RTLtab#1r\else#1l\fi\@chnum \@one \else
1642 \if \if@RTLtab#1l\else#1r\fi\@chnum \tw@ \else
1643 \@chclass
1644 \if #1|\@one \let\@arrayrule\adl@arrayrule \else
1645 \if #1:\@one \let\@arrayrule\adl@arraydashrule \else
1646 \if #1;\@one \let\@arrayrule\adl@argarraydashrule \else
1647 \if #1@\tw@ \else
1648 \if #1p\thr@@ \else \z@ \@preamerr 0\fi
1649 \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi}

```



```

1650
1651 \def\@arrayclassz{\ifcase \@lastchclass \@acolampacol \or \@ampacol \or
1652 \or \or \@addamp \or
1653 \@acolampacol \or \@firstampfalse \@acol \fi
1654 \edef\@preamble{\@preamble
1655 \ifcase \@chnum
1656 \hfil\adl@putlrc{\$relax\@sharp$}\hfil
1657 \or \adl@putlrc{\$relax\@sharp$}\hfil
1658 \or \hfil\adl@putlrc{\$relax\@sharp$}\fi}}
1659 \def\@tabclassz{\ifcase \@lastchclass \@acolampacol \or \@ampacol \or
1660 \or \or \@addamp \or
1661 \@acolampacol \or \@firstampfalse \@acol \fi
1662 \edef\@preamble{\@preamble
1663 \ifcase \@chnum
1664 \hfil\adl@putlrc{\@sharp\unskip}\hfil
1665 \or \adl@putlrc{\@sharp\unskip}\hfil
1666 \or \hfil\hskip\z@ \adl@putlrc{\@sharp\unskip}\fi}}
1667 \def\adl@class@start{6}
1668 \def\adl@class@iiiorvii{3}
1669 \fi
1670 \ifpackageloaded{colortbl}{%
1671 \def\adl@inactivate{\adl@org@inactivate \let\CT@setup\adl@CT@setup}
1672 \def\adl@activate{\adl@org@activate \let\CT@setup\adl@act@CT@setup
1673 \let\@endpbox\adl@org@endpbox}
1674 \let\adl@CT@setup\CT@setup
1675 \def\CT@setup{\adl@CT@setup
1676 \@tempdima\ht\z@ \advance\@tempdima\minrowclearance
1677 \ifdim\adl@height<\@tempdima \global\adl@height\@tempdima \fi
1678 \ifdim\adl@depth<\dp\z@ \global\adl@depth\dp\z@\fi}
1679 \let\adl@act@CT@setup\CT@setup
1680 \def\@classz{\@classx
1681 \@tempcnta\count@ \prepnext@tok
1682 \expandafter\CT@extract\the\toks\@tempcnta\columncolor!\@nil
1683 \expandafter\adl@extract\arc\the\toks\@tempcnta\arrayrulecolor!\@nil
1684 \expandafter\adl@extract\drsc
1685 \the\toks\@tempcnta\doublerulesepcolor!\@nil
1686 \expandafter\adl@extract@dgc\the\toks\@tempcnta\dashgapcolor!\@nil
1687 \addtopreamble{\if@RTL\beginL\fi%
1688 \setbox\z@\hbox\bgroup\bgroup\if@RTL\beginR\fi
1689 \ifcase \@chnum
1690 \hskip\stretch{.5}\kern\z@
1691 \dollarbegin
1692 \insert@column
1693 \dollarend\hskip\stretch{.5}%
1694 \or \dollarbegin \insert@column \dollarend \hfill
1695 \or \hfill \kern\z@ \dollarbegin \insert@column \dollarend
1696 \or $\vcenter
1697 \startpbox{\@nextchar}\insert@column \endpbox $\%
1698 \or \vtop \startpbox{\@nextchar}\insert@column \endpbox
1699 \or \vbox \startpbox{\@nextchar}\insert@column \endpbox

```



```

1700         \fi
1701         \if@RTL\endR\fi\egroup\egroup
1702         \begingroup
1703             \CT@setup
1704             \CT@column@color
1705             \CT@row@color
1706             \CT@cell@color
1707             \CT@do@color
1708         \endgroup
1709         \@tempdima\ht\z@
1710         \advance\@tempdima\minrowclearance
1711         \vrule\@height\@tempdima\@width\z@
1712         \unhbox\z@\if@RTL\endL\fi}%
1713     \prepnext@tok}
1714 \let\adl@act@classz\@classz
1715 \let\adl@org@classz\@classz
1716 }{}

```

## 7.15 bidi.sty

```

1717 \NeedsTeXFormat{LaTeX2e}
1718 \def\bididate{2017/02/25}
1719 \def\bidiversion{v30.1}
1720 \ProvidesPackage{bidi}[\bididate\space \bidiversion\space
1721 Bidirectional typesetting in plain TeX and LaTeX]
1722 \edef\@bidi@info{*****~J%
1723 * ~J%
1724 * bidi package (Bidirectional typesetting in~J%
1725 * plain TeX and LaTeX, using XeTeX engine)~J%
1726 * ~J%
1727 * Description: A convenient interface for~J%
1728 * typesetting bidirectional texts in plain TeX~J%
1729 * and LaTeX. The package includes adaptations~J%
1730 * for use with many other commonly-used packages.~J%
1731 * ~J%
1732 * Copyright (c) 2009--2017 Vafa Khalighi~J%
1733 * ~J%
1734 * \bididate, \bidiversion~J%
1735 * ~J%
1736 * License: LaTeX Project Public License, version~J%
1737 * 1.3c or higher (your choice)~J%
1738 * ~J%
1739 * Location on CTAN: /macros/xetex/latex/bidi~J%
1740 * ~J%
1741 * Issue tracker: https://github.com/tex-xet/bidi/issues~J%
1742 * ~J%
1743 * Support: persian-tex@tug.org~J%
1744 *****}
1745 \typeout{\@bidi@info}
1746 \edef\@bidi@everyjob{\the\everyjob}

```



```

1747 \everyjob{\bidi@everyjob\typeout{\@bidi@info}}
1748 \edef\bidi@strip@v@bidiversion{\expandafter\@gobble\bidiversion}
1749 \newcommand*\IfbidiPackageVersionLater}[1]{%
1750   \ifdim\bidi@strip@v@bidiversion pt > #1 pt %
1751     \expandafter\@firstoftwo
1752   \else
1753     \expandafter\@secondoftwo
1754   \fi}
1755 \newcommand*\IfbidiPackageVersionBefore}[1]{%
1756   \ifdim\bidi@strip@v@bidiversion pt < #1 pt %
1757     \expandafter\@firstoftwo
1758   \else
1759     \expandafter\@secondoftwo
1760   \fi}
1761 \newcommand*\IfbidiPackageVersion}[1]{%
1762   \ifdim\bidi@strip@v@bidiversion pt = #1 pt %
1763     \expandafter\@firstoftwo
1764   \else
1765     \expandafter\@secondoftwo
1766   \fi}
1767 \RequirePackage{iftex}
1768 \RequireXeTeX
1769 \RequirePackage{biditools}
1770 \RequirePackage{zref-abspage}
1771 \RequirePackage{auxhook}
1772 \RequirePackage{ltxcmds}
1773 \RequirePackage{xkeyval}
1774 \eqnewif{\if@RTLmain}{\if@rlmain}
1775 \eqnewif{\if@RTL}{\if@rl}
1776 \newif\if@nonlatin
1777 \newcommand*\setlatin{\@nonlatinfalse}
1778 \newcommand*\setnonlatin{\@nonlatintrue}
1779 \eqnewif{\if@RTLtab}{\if@tab@rl}
1780 \newif\if@hboxRconstruct
1781 \newcommand*\setRTLtable{\@RTLtabtrue}
1782 \newcommand*\setLTRtable{\@RTLtabfalse}
1783 \newif\if@RTLmarginpar
1784 \newif\if@LTRmarginpar
1785 \newif\if@LTRbibitems
1786 \newif\if@RTLbibitems
1787 \newif\if@extrafootnotefeatures
1788 \newif\if@parafootRTL
1789 \newif\if@RTLcolumnfootnotes
1790 \eqnewif{\if@RTL@footnote}{\if@rl@footnote}
1791 \newif\if@bidi@list@minipage@parbox
1792 \newif\if@bidi@list@minipage@parbox@not@nob
1793 \@RTLmainfalse
1794 \AtBeginDocument{%
1795   \if@RTLmain\else
1796     \if@RTL\@RTLmaintrue%

```





```

1797     \else\@RTLmainfalse%
1798     \fi%
1799 \fi%
1800 }
1801 \let\n@xt=\
1802 \bidi@newrobustcmd*{\LRE}{\protect\pLRE}%
1803 \def\pLRE{\protect\afterassignment\moreLRE \let\n@xt= }
1804 \bidi@newrobustcmd*{\RLE}{\protect\pRLE}
1805 \def\pRLE{\protect\afterassignment\moreRLE \let\n@xt= }
1806 \def\bracetext{\ifcat\n@xt{\else\ifcat\n@xt}\fi
1807   \errmessage{Missing left brace has been substituted}\fi \bgroup}
1808 \input{latex-xetex-bidi.def}
1809 \input{loadingorder-xetex-bidi.def}
1810 \define@choicekey{bidi.sty}{RTLdocument}[\bidi@tempa\bidi@tempb]{on,off}[on]{%
1811   \ifcase\bidi@tempb\relax
1812     \@RTLtrue
1813   \or
1814     \@RTLfalse
1815   \fi}
1816 \define@choicekey{bidi.sty}{documentdirection}[\bidi@tempa\bidi@tempb]{righttoleft,lefttorigh
1817   \ifcase\bidi@tempb\relax
1818     \@RTLtrue
1819   \or
1820     \@RTLfalse
1821   \fi}
1822 \define@choicekey{bidi.sty}{tabledirection}[\bidi@tempa\bidi@tempb]{righttoleft,lefttoright}{
1823   \ifcase\bidi@tempb\relax
1824     \@RTLtabtrue
1825   \or
1826     \@RTLtabfalse
1827   \fi}
1828 \define@choicekey{bidi.sty}{script}[\bidi@tempa\bidi@tempb]{latin,nonlatin}[latin]{%
1829   \ifcase\bidi@tempb\relax
1830     \@nonlatinfalse
1831   \or
1832     \@nonlatintrue
1833   \fi}
1834 \define@choicekey{bidi.sty}{rldocument}[\bidi@tempa\bidi@tempb]{on,off}[on]{%
1835   \ifcase\bidi@tempb\relax
1836     \@RTLtrue
1837   \or
1838     \@RTLfalse
1839   \fi}
1840 \define@choicekey{bidi.sty}{footnoterule}[\bidi@tempa\bidi@tempb]{automatic,left,right,split,
1841   \ifcase\bidi@tempb\relax
1842     \autofootnoterule
1843   \or
1844     \leftfootnoterule
1845   \or
1846     \rightfootnoterule

```



```

1847 \or
1848 \SplitFootnoteRule
1849 \or
1850 \textwidthfootnoterule
1851 \fi}
1852 \define@choicekey{bidi.sty}{footnotedirection}[\bidi@tempa\bidi@tempb]{righttoleft,lefttorigh
1853 \ifcase\bidi@tempb\relax
1854 \@RTL@footnotetrue
1855 \or
1856 \@RTL@footnotefalse
1857 \fi}
1858 \define@choicekey{bidi.sty}{debugfootnotedirection}[\bidi@tempa\bidi@tempb]{on,off}[on]{%
1859 \ifcase\bidi@tempb\relax
1860 \footdir@debugtrue
1861 \or
1862 \footdir@debugfalse
1863 \fi}
1864 \define@choicekey{bidi.sty}{extrafootnotefeatures}[\bidi@tempa\bidi@tempb]{on,off}[on]{%
1865 \ifcase\bidi@tempb\relax
1866 \@extrafootnotefeaturestrue
1867 \or
1868 \@extrafootnotefeaturesfalse
1869 \fi}
1870
1871 \ProcessOptionsX
1872
1873 \if@extrafootnotefeatures
1874 \input{extrafootnotefeatures-xetex-bidi.def}
1875 \fi
1876 \newcount\bidi@digits
1877 \XeTeXinterchartokenstate=\@ne
1878 \newXeTeXintercharclass\bidi@digits@charclass
1879 \newXeTeXintercharclass\bidi@dot@charclass
1880 \newXeTeXintercharclass\bidi@dash@charclass
1881 \XeTeXcharclass`\.\bidi@dot@charclass
1882 \XeTeXcharclass`\-\bidi@dash@charclass
1883 \bidi@digits=\0\loop\XeTeXcharclass\bidi@digits\bidi@digits@charclass\ifnum\bidi@digits
1884 \bidi@digits=\0\loop\XeTeXcharclass\bidi@digits\bidi@digits@charclass\ifnum\bidi@digits
1885 \XeTeXinterchartoks\bidi@digits@charclass\bidi@dot@charclass={\DigitsDotDashInterCharTok
1886 \XeTeXinterchartoks\bidi@dot@charclass\bidi@digits@charclass={\DigitsDotDashInterCharTok
1887 \XeTeXinterchartoks\bidi@digits@charclass\bidi@dash@charclass={\DigitsDotDashInterCharTok
1888 \XeTeXinterchartoks\bidi@dash@charclass\bidi@digits@charclass={\DigitsDotDashInterCharTok
1889 \newcommand*{\DigitsDotDashInterCharToks}{\if@nonlatin\char"200F\fi}

```

## 7.16 bidi.tex

```

1890 \def\bididate{2015/10/16}
1891 \def\bidiversion{v0.3}
1892 \catcode`\@=11
1893 \let\protect\relax

```



```

1894 \newlinechar`^^J
1895 \edef\@bidi@info{*****^^J%
1896 * ^^J%
1897 * bidi package (Bidirectional typesetting in^^J%
1898 * plain TeX and LaTeX, using XeTeX engine)^^J%
1899 * ^^J%
1900 * Description: A convenient interface for^^J%
1901 * typesetting bidirectional texts in plain TeX^^J%
1902 * and LaTeX. The package includes adaptations^^J%
1903 * for use with many other commonly-used packages.^^J%
1904 * ^^J%
1905 * Copyright (c) 2009--2015 Vafa Khalighi^^J%
1906 * ^^J%
1907 * \bididate, \bidiversion^^J%
1908 * ^^J%
1909 * License: LaTeX Project Public License, version^^J%
1910 * 1.3c or higher (your choice)^^J%
1911 * ^^J%
1912 * Location on CTAN: /macros/xetex/latex/bidi^^J%
1913 * ^^J%
1914 * Issue tracker: https://github.com/tex-xetex/bidi/issues^^J%
1915 * ^^J%
1916 * Support: persian-tex@tug.org^^J%
1917 *****}
1918 \message{\@bidi@info}
1919 \edef\bidi@everyjob{\the\everyjob}
1920 \everyjob{\bidi@everyjob\message{\@bidi@info}}
1921 \input iftex.sty
1922 \RequireXeTeX
1923 \newif\if@RTLmain
1924 \newif\if@RTL
1925 \newif\if@hboxRconstruct
1926 \newif\if@sentsdir
1927 \newif\if@RTL@footnote
1928 \@RTLmainfalse
1929 \def\setRTLmain{%
1930   \if@RTLmain\else
1931     \if@RTL\@RTLmaintrue%
1932     \else\@RTLmainfalse%
1933   \fi%
1934   \fi%
1935 }
1936 \let\n@xt=\
1937 \protected\def\LRE{\protect\pLRE}%
1938 \def\pLRE{\protect\afterassignment\moreLRE \let\n@xt= }
1939 \protected\def\RLE{\protect\pRLE}
1940 \def\pRLE{\protect\afterassignment\moreRLE \let\n@xt= }
1941 \def\bracetext{\ifcat\n@xt{\else\ifcat\n@xt}\fi
1942   \errmessage{Missing left brace has been substituted}\fi \bgroup}
1943 \input plain-xetex-bidi.def

```



```
1944 \catcode\@=12
```

## 7.17 bidi2in1.sty

```
1945 \NeedsTeXFormat{LaTeX2e}
1946 \ProvidesPackage{bidi2in1}
1947 \pagestyle{plain}
1948 \newcount\evenpage
1949 \newcount\oddpag
1950 \twocolumn
1951 \def\@oddfoot{\evenpage=\thepage%
1952 \multiply\evenpage by 2%
1953 \oddpag=\the\evenpage%
1954 \advance\oddpag by -1%
1955 \hfil\the\evenpage\hfil\hfil\the\oddpag\hfil}%
1956 \def\@evenfoot{\evenpage=\thepage%
1957 \multiply\evenpage by 2%
1958 \oddpag=\the\evenpage%
1959 \advance\oddpag by -1%
1960 \hfil\the\oddpag\hfil\hfil\the\evenpage\hfil}%
1961 \textwidth 9.49in
1962 \textheight 6.7in
1963 \columnsep 0.9in
1964 \columnseprule 0.125pt
1965 \headheight 0cm
1966 \topmargin 0in
1967 \marginparwidth 0in
1968 \marginparsep 0in
1969 \hoffset 0.05in % Corrected
1970 \voffset -0.5in %top margin space is 1.0in by default
1971 \oddsidemargin 0in
1972 \evensidemargin 0in
1973 \headsep 0cm
1974 \topskip 0cm
1975 \parskip 0.15in %
1976 \headsep 0pt
1977 \special{papersize=11.69in,8.26in}
1978 \renewcommand\maketitle{\par
1979 \begingroup
1980 \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
1981 \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
1982 \long\def\@makefntext##1{\parindent 1em\noindent
1983 \hb@xt@1.8em{%
1984 \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
1985 \@maketitle
1986 \@thanks
1987 \endgroup
1988 \setcounter{footnote}{0}%
1989 \global\let\thanks\relax
1990 \global\let\maketitle\relax
```



```

1991 \global\let\@maketitle\relax
1992 \global\let\@thanks\@empty
1993 \global\let\@author\@empty
1994 \global\let\@date\@empty
1995 \global\let\@title\@empty
1996 \global\let\title\relax
1997 \global\let\author\relax
1998 \global\let\date\relax
1999 \global\let\and\relax
2000 }

```

## 7.18 bidicode.sty

```

2001 \NeedsTeXFormat{LaTeX2e}
2002 \ProvidesPackage{bidicode}
2003 \RequirePackage{xcolor}
2004 \RequirePackage{showexpl}
2005 \definecolor{hellgelb}{rgb}{1,1,0.85}
2006 \definecolor{colKeys}{rgb}{0,0,1}
2007 \definecolor{colIdentifier}{rgb}{0,0,0}
2008 \definecolor{colComments}{rgb}{1,0,0}
2009 \definecolor{colString}{rgb}{0,0.5,0}
2010 \lstset{
2011     language=[LaTeX] TEX,
2012     float=hbp,
2013     basicstyle=\ttfamily\small,
2014     identifierstyle=\color{colIdentifier},
2015     keywordstyle=\color{colKeys},
2016     stringstyle=\color{colString},
2017     commentstyle=\color{colComments},
2018     columns=flexible,
2019     tabsize=4,
2020     gobble =1,
2021     extendedchars=true,
2022     showspaces=false,
2023     showstringspaces=false,
2024     numbers=left,
2025     numbersep=0.9em,
2026     numberstyle=\tiny, %
2027     frame=single,
2028     captionpos=b,
2029     xleftmargin=1em,
2030     breaklines=true,
2031     breakautoindent=false,
2032     breakindent=Opt,
2033     escapeinside=**,
2034     pos=r,
2035     explpreset={%
2036     xleftmargin=1em,columns=flexible,language=[LaTeX] TEX},
2037     morekeywords={setLTR,setLR,setRTL,setRL,LRE,LR,RLE,RL,lr,bidiversion,bididate}

```



```

2038 }
2039 \newcommand\HLON{%
2040   \gdef\lst@alloverstyle##1{%
2041     \fboxrule=0pt
2042     \fboxsep=0pt
2043     \fcolorbox{hellgelb}{hellgelb}{\bfseries\strut##1}%
2044   }}
2045 \newcommand\HLOFF{%
2046   \xdef\lst@alloverstyle##1{##1}%
2047 }
2048 \newcommand\Larg [1]{\normalfont\itshape#1/}
2049 \newcommand\Larga[1]{\langle$Larg{#1}$\rangle$}
2050 \newcommand\Largb[1]{\lcb\Larg{#1}\rcb}
2051 \newcommand\Largs[1]{\lsb\Larg{#1}\rsb}
2052 \newcommand\Largr[1]{\lrb\Larg{#1}\rrb}
2053 \newcommand\LBEG[1]{\normalfont\ttfamily\bs{ }begin\lcb#1\rcb}
2054 \newcommand\LEND[1]{\normalfont\ttfamily\bs{ }end\lcb#1\rcb}
2055
2056 \DeclareRobustCommand\bs{\normalfont\ttfamily\symbol{92}}
2057 \DeclareRobustCommand\lcb{\normalfont\ttfamily\char`{ }
2058 \DeclareRobustCommand\rcb{\normalfont\ttfamily\char` }
2059 \DeclareRobustCommand\lsb{\normalfont\ttfamily[ }
2060 \DeclareRobustCommand\rsb{\normalfont\ttfamily] }
2061 \DeclareRobustCommand\lrb{\normalfont\ttfamily( }
2062 \DeclareRobustCommand\rrb{\normalfont\ttfamily) }
2063
2064 \def\Lcs#1{\nxLcs{#1}}
2065 \def\LcsStar#1{\nxLcs{#1}\OptArg*{ }}
2066 \def\nxLcs#1{\texttt{\symbol{92}#1}}
2067
2068 \def\Coordx#1{$x_{#1}$}
2069 \def\Coordy#1{$y_{#1}$}
2070 \def\Coordz#1{$z_{#1}$}
2071 \def\Coord#1{\Coordx{#1},\kern 1pt\Coordy{#1}}
2072 \def\Coordn{\Coordx{n},\kern 1pt\Coordy{n}}
2073 \def\CoordIII#1{\Coordx{#1},\kern 1pt\Coordy{#1},\kern 1pt\Coordz{#1}}
2074 \def\CAny{\Coordx{ },\kern 1pt\Coordy{ }}
2075 \def\CIIIAny{\Coordx{ },\kern 1pt\Coordy{ },\kern 1pt\Coordz{ }}
2076 \def\coord#1{(\Coordx{#1},\kern 1pt\Coordy{#1})}
2077 \def\coordin{(\Coordx{n},\kern 1pt\Coordy{n})}
2078 \def\coordiia#1{(\Coordx{#1},\kern 1pt\Coordy{#1},\kern 1pt\Coordz{#1})}
2079 \def\coordx#1{($x_{#1}$)}
2080 \def\coordy#1{($y_{#1}$)}
2081 \def\coordz#1{($z_{#1}$)}
2082 \def\cAny{(\Coordx{ },\kern 1pt\Coordy{ })}
2083 \def\ciiiaAny{(\Coordx{ },\kern 1pt\Coordy{ },\kern 1pt\Coordz{ })}
2084
2085 \newsavebox{\boxdef}
2086 \newenvironment{BDef}
2087   {\begin{lrbox}\boxdef

```



```

2088     \def\arraystretch{1.0}
2089     \begin{tabular}{@{}l@{}l@{}l@{}}
2090   }
2091   {\end{tabular}\end{lrbox}
2092
2093   {\BCmd\fbbox{\usebox\boxdef}\endBCmd}
2094   \aftergroup\@afterindentfalse\aftergroup\@afterheading
2095   }
2096
2097 \newenvironment{BDef*}
2098   {\begin{lrbox}\boxdef
2099     \def\arraystretch{1.0}
2100     \begin{tabular}{@{}l@{}l@{}l@{}}
2101   }
2102   {\end{tabular}\end{lrbox}
2103   {\begin{BCmd*}\fbbox{\usebox\boxdef}\end{BCmd*}}
2104   \aftergroup\@afterindentfalse\aftergroup\@afterheading
2105   }
2106 \newenvironment{BCmd}{
2107   \@beginparpenalty-\@lowpenalty
2108   \topsep\BDefaboveskip
2109   \fbboxsep3pt
2110   \flushleft}
2111   {\@endparpenalty\@M
2112   \@topsepadd\BDefbelowskip
2113   \endflushleft}
2114
2115 \newenvironment{BCmd*}{
2116   \@beginparpenalty\@M
2117   \topsep\BDefinlineskip
2118   \fbboxsep3pt
2119   \flushleft}
2120   {\@endparpenalty5000
2121   \endflushleft}
2122
2123 \newskip\BDefaboveskip
2124 \newskip\BDefbelowskip
2125 \newskip\BDefinlineskip
2126 \setlength\BDefaboveskip{10pt plus 4pt}
2127 \setlength\BDefbelowskip{6pt}
2128 \setlength\BDefinlineskip{6pt}
2129
2130 \def\OptArgs{\colorbox{black!20}{\texttt{[Options]}}\kern1pt}
2131 \def\OptArg{\@ifnextchar*\OptArg@i{\OptArg@ii*}}
2132 \def\OptArg@i*#1{\colorbox{black!20}{\texttt{#1}}\kern1pt}
2133 \def\OptArg@ii*#1{\colorbox{black!20}{\texttt{[#1]}}\kern1pt}

```

## 7.19 bidi<sub>tn</sub>xtra.sty

```

2134 \NeedsTeXFormat{LaTeX2e}

```



```

2135 \ProvidesPackage{bidiftnextra}
2136 \newtoks\bidip@ftn
2137 \let\FN@sffootnote\footnote
2138 \let\FN@sffootnote\LTRfootnote
2139 \let\FN@sffootnote\RTLfootnote
2140 \def\footnote{\ifx\protect\@typeset@protect
2141   \expandafter\FN@sffootnote
2142   \else
2143   \expandafter\FN@sfgobble@opt
2144   \fi
2145 }
2146 \def\LTRfootnote{\ifx\protect\@typeset@protect
2147   \expandafter\FN@sffootnote
2148   \else
2149   \expandafter\FN@sfgobble@opt
2150   \fi
2151 }
2152 \def\RTLfootnote{\ifx\protect\@typeset@protect
2153   \expandafter\FN@sffootnote
2154   \else
2155   \expandafter\FN@sfgobble@opt
2156   \fi
2157 }
2158 \edef\FN@sfgobble@opt{\noexpand\protect
2159   \expandafter\noexpand\csname FN@sfgobble@opt \endcsname}
2160 \expandafter\def\csname FN@sfgobble@opt \endcsname{%
2161   \@ifnextchar[%]
2162     \FN@sfgobble@twobrace
2163     \@gobble
2164 }
2165 \def\FN@sfgobble@twobrace[#1]#2{
2166 \let\FN@sffootnotemark\footnotemark
2167 \def\footnotemark{\ifx\protect\@typeset@protect
2168   \expandafter\FN@sffootnotemark
2169   \else
2170   \expandafter\FN@sfgobble@optonly
2171   \fi
2172 }
2173 \edef\FN@sfgobble@optonly{\noexpand\protect
2174   \expandafter\noexpand\csname FN@sfgobble@optonly \endcsname}
2175 \expandafter\def\csname FN@sfgobble@optonly \endcsname{%
2176   \@ifnextchar[%]
2177     \FN@sfgobble@brace
2178     {}%
2179 }
2180 \def\FN@sfgobble@brace[#1]{
2181 \def\@tabular{
2182   \leavevmode \hbox \bgroup
2183   \let\@footnotetext\bidip@ftntext
2184   \let\@LTRfootnotetext\bidip@LTRftntext

```





```

2185 \let\@RTLfootnotetext\@bidi@p@RTLftntext
2186 \let\@xfootnotenext\@bidi@p@xftntext
2187 \let\@xfootnote\@bidi@p@xfootnote
2188 \let\@xLTRfootnotenext\@bidi@p@xLTRftntext
2189 \let\@xLTRfootnote\@bidi@p@xLTRfootnote
2190 \let\@xRTLfootnotenext\@bidi@p@xRTLftntext
2191 \let\@xRTLfootnote\@bidi@p@xRTLfootnote
2192 \if@RTLtab\beginR \fi
2193 $\let\@acol\@tabacol
2194 \let\@classz\@tabclassz
2195 \let\@classiv\@tabclassiv \let\\\@tabularcr\@tabarray}
2196 \def\endtabular{\crrc\egroup\if@RTLtab\egroup\endR\egroup\fi
2197 \egroup $\if@RTLtab\endR\fi\egroup
2198 \ifx\@capytype\@undefined
2199 \global\@bidi@p@ftn\expandafter{\expandafter}\the\@bidi@p@ftn\fi}
2200 \long\def\@bidi@p@ftntext#1{%
2201 \edef\@tempy{\the\@bidi@p@ftn\noexpand\footnotetext[\the\csname c@\@mpfn\endcsname]}}%
2202 \global\@bidi@p@ftn\expandafter{\@tempy{#1}}}%
2203 \long\def\@bidi@p@LTRftntext#1{%
2204 \edef\@tempyi{\the\@bidi@p@ftn\noexpand\LTRfootnotetext[\the\csname c@\@mpfn\endcsname]}}%
2205 \global\@bidi@p@ftn\expandafter{\@tempyi{#1}}}%
2206 \long\def\@bidi@p@RTLftntext#1{%
2207 \edef\@tempyii{\the\@bidi@p@ftn\noexpand\RTLfootnotetext[\the\csname c@\@mpfn\endcsname]}}%
2208 \global\@bidi@p@ftn\expandafter{\@tempyii{#1}}}%
2209
2210
2211 \long\def\@bidi@p@xftntext[#1]#2{%
2212 \global\@bidi@p@ftn\expandafter{\the\@bidi@p@ftn\footnotetext[#1]{#2}}}
2213
2214 \long\def\@bidi@p@xLTRftntext[#1]#2{%
2215 \global\@bidi@p@ftn\expandafter{\the\@bidi@p@ftn\LTRfootnotetext[#1]{#2}}}
2216
2217 \long\def\@bidi@p@xRTLftntext[#1]#2{%
2218 \global\@bidi@p@ftn\expandafter{\the\@bidi@p@ftn\RTLfootnotetext[#1]{#2}}}
2219
2220
2221 \def\@bidi@p@xfootnote[#1]{%
2222 \begingroup
2223 \csname c@\@mpfn\endcsname #1\relax
2224 \unrestored@protected@xdef\@thefnmark{\thempfn}%
2225 \endgroup
2226 \@footnotemark\@bidi@p@xftntext[#1]}
2227
2228
2229 \def\@bidi@p@xLTRfootnote[#1]{%
2230 \begingroup
2231 \csname c@\@mpfn\endcsname #1\relax
2232 \unrestored@protected@xdef\@thefnmark{\thempfn}%
2233 \endgroup
2234 \@footnotemark\@bidi@p@xLTRftntext[#1]}

```



```

2235
2236
2237 \def\ bidi@p@xRTLfootnote[#1]{%
2238   \begingroup
2239     \csname c@%mpfn\endcsname #1\relax
2240     \unrestored@protected@xdef\@thefnmark{\thempfn}%
2241   \endgroup
2242   \@footnotemark\ bidi@p@xRTLftntext[#1]}
2243
2244 \def\@xfloat #1[#2]{%
2245   \@nodocument
2246   \def \@captype {#1}%
2247   \def \@fps {#2}%
2248   \@onelevel@sanitize \@fps
2249   \def \reserved@a {!}%
2250   \ifx \reserved@a \@fps
2251     \@fpsadddefault
2252   \else
2253     \ifx \@fps \@empty
2254       \@fpsadddefault
2255     \fi
2256   \fi
2257   \ifhmode
2258     \@bsphack
2259     \@floatpenalty -\@Mii
2260   \else
2261     \@floatpenalty-\@Miii
2262   \fi
2263   \ifinner
2264     \@parmoderr\@floatpenalty\z@
2265   \else
2266     \@next\@currbox\@freelist
2267     {%
2268       \@tempcnta \sixt@@n
2269       \expandafter \@tfor \expandafter \reserved@a
2270       \expandafter :\expandafter =\@fps
2271       \do
2272       {%
2273         \if \reserved@a h%
2274           \ifodd \@tempcnta
2275         \else
2276           \advance \@tempcnta \@ne
2277         \fi
2278       \fi
2279       \if \reserved@a t%
2280         \setfpsbit \tw@
2281       \fi
2282       \if \reserved@a b%
2283         \setfpsbit 4%
2284       \fi

```



```

2285         \if \reserved@a p%
2286         \setfpsbit 8%
2287         \fi
2288         \if \reserved@a !%
2289         \ifnum \@tempcnta>15
2290         \advance\@tempcnta -\sixt@@n\relax
2291         \fi
2292         \fi
2293         }%
2294         \@tempcntb \csname ftype@\@capytype \endcsname
2295         \multiply \@tempcntb \@xxxii
2296         \advance \@tempcnta \@tempcntb
2297         \global \count\@currbox \@tempcnta
2298         }%
2299     \@fltovf
2300 \fi
2301 \global \setbox\@currbox
2302 \color@vbox
2303 \normalcolor
2304 \vbox \bgroup
2305 \let\@footnotetext\@bidi@p@ftntext
2306 \let\@LTRfootnotetext\@bidi@p@LTRftntext
2307 \let\@RTLfootnotetext\@bidi@p@RTLftntext
2308 \let\@xfootnotenext\@bidi@p@xftntext
2309 \let\@xfootnote\@bidi@p@xfootnote
2310 \let\@xLTRfootnotenext\@bidi@p@xLTRftntext
2311 \let\@xLTRfootnote\@bidi@p@xLTRfootnote
2312 \let\@xRTLfootnotenext\@bidi@p@xRTLftntext
2313 \let\@xRTLfootnote\@bidi@p@xRTLfootnote
2314 \hsize\columnwidth
2315 \@parboxrestore
2316 \@floatboxreset
2317 }
2318 \def \@endfloatbox{%
2319     \par\vskip\z@skip      %% \par\vskip\z@ added 15 Dec 87
2320     \@minipagefalse
2321     \outer@nobreak
2322     \egroup                %% end of vbox
2323     \global\@bidi@p@ftn\expandafter{\expandafter}\the\@bidi@p@ftn
2324     \color@endbox
2325 }

```

## 7.20 bidimoderncv.cls

```

2326 \NeedsTeXFormat{LaTeX2e}
2327 \ProvidesClass{bidimoderncv}
2328 \newif\if@DEBUG\@DEBUGfalse
2329 \DeclareOption{a4paper}{
2330     \setlength\paperheight{297mm}
2331     \setlength\paperwidth{210mm}}

```



```

2332 \DeclareOption{a5paper}{
2333   \setlength\paperheight{210mm}
2334   \setlength\paperwidth{148mm}}
2335 \DeclareOption{b5paper}{
2336   \setlength\paperheight{250mm}
2337   \setlength\paperwidth{176mm}}
2338 \DeclareOption{letterpaper}{
2339   \setlength\paperheight{11in}
2340   \setlength\paperwidth{8.5in}}
2341 \DeclareOption{legalpaper}{
2342   \setlength\paperheight{14in}
2343   \setlength\paperwidth{8.5in}}
2344 \DeclareOption{executivepaper}{
2345   \setlength\paperheight{10.5in}
2346   \setlength\paperwidth{7.25in}}
2347 \DeclareOption{landscape}{
2348   \setlength\@tempdima{\paperheight}
2349   \setlength\paperheight{\paperwidth}
2350   \setlength\paperwidth{\@tempdima}}
2351 \newcommand\@ptsize{}
2352 \DeclareOption{10pt}{\renewcommand\@ptsize{0}}
2353 \DeclareOption{11pt}{\renewcommand\@ptsize{1}}
2354 \DeclareOption{12pt}{\renewcommand\@ptsize{2}}
2355 \DeclareOption{draft}{\setlength\overfullrule{5pt}}
2356 \DeclareOption{final}{\setlength\overfullrule{0pt}}
2357 \newif\if@colour\@colourtrue
2358 \DeclareOption{nocolour}{\@colourfalse}
2359 \ExecuteOptions{a4paper,11pt,colour,final}
2360 \ProcessOptions\relax
2361 \input{size1\@ptsize.clo}
2362 \RequirePackage{color}
2363 \RequirePackage{graphicx}
2364 \RequirePackage{ifthen}
2365 \RequirePackage{marvosym}
2366 \addtolength{\oddsidemargin}{-54pt}
2367 \addtolength{\textwidth}{109pt}
2368 \addtolength{\topmargin}{-70pt}
2369 \addtolength{\textheight}{122pt}
2370 \addtolength{\marginparsep}{-5pt}
2371 \addtolength{\marginparwidth}{-10pt}
2372 \RequirePackage{url}
2373 \RequirePackage{hyperref}
2374 \hypersetup{
2375   breaklinks,
2376   baseurl      = http://,%
2377   pdfborder    = 0 0 0,%
2378   pdfpagemode  = UseNone,%
2379   pdfstartpage = 1}
2380 \AtEndOfClass{
2381   \AtBeginDocument{

```



```

2382 \hypersetup{%
2383     pdfauthor      = \@firstname~\@familyname,%
2384     pdftitle       = \@title,%
2385     pdfsubject     = \@firstname~\@familyname,%
2386     pdfkeywords    = \@resumename~\@firstname~\@familyname}}
2387 \urlstyle{tt}
2388 \RequirePackage{fancyhdr}
2389 \fancypagestyle{plain}{%
2390     \renewcommand{\headrulewidth}{0pt}
2391     \renewcommand{\footrulewidth}{0pt}
2392     \fancyhf{}}
2393 \pagestyle{plain}
2394 \setlength\lineskip{1\p@}
2395 \setlength\normallineskip{1\p@}
2396 \renewcommand\baselinestretch{}
2397 \setlength{\parindent}{0pt}
2398 \setlength{\parskip}{0pt}
2399 \setlength\columnsep{10\p@}
2400 \setlength\columnseprule{0\p@}
2401 \pagestyle{empty}
2402 \pagenumbering{arabic}
2403 \raggedbottom
2404 \onecolumn
2405 \providecommand*\listitemsymbol{\textbullet}
2406 \providecommand*\addresssymbol{}
2407 \providecommand*\mobilesymbol{\Mobilefone}
2408 \providecommand*\phonesymbol{\Telefon}
2409 \providecommand*\faxsymbol{\FAX}
2410 \providecommand*\emailsymbol{\Letter}
2411 \definecolor{firstnamecolour}{rgb}{0,0,0}
2412 \def\firstnamecolour#1{\gdef\@firstnamecolour{\addfontfeature{Color=#1}}}
2413 \def\familynamecolour#1{\gdef\@familynamecolour{\addfontfeature{Color=#1}}}
2414 \def\titlecolour#1{\gdef\@titlecolour{\addfontfeature{Color=#1}}}
2415 \def\addresscolour#1{\gdef\@addresscolour{\addfontfeature{Color=#1}}}
2416 \def\quotecolour#1{\gdef\@quotecolour{\addfontfeature{Color=#1}}}
2417 \def\sectiontitlecolour#1{\gdef\@sectiontitlecolour{\addfontfeature{Color=#1}}}
2418 \definecolor{sectionrectanglecolor}{rgb}{0,0,0}
2419 \def\subsectioncolour#1{\gdef\@subsectioncolour{\addfontfeature{Color=#1}}}
2420 \def\hintcolour#1{\gdef\@hintcolour{\addfontfeature{Color=#1}}}
2421 \providecommand*\firstnamefont{}
2422 \providecommand*\familynamefont{}
2423 \providecommand*\titlefont{}
2424 \providecommand*\addressfont{}
2425 \providecommand*\quotefont{}
2426 \providecommand*\sectionfont{}
2427 \providecommand*\subsectionfont{}
2428 \providecommand*\hintfont{\small}
2429 \providecommand*\firstnamestyle[1]{\{\@firstnamefont\@firstnamecolour#1\}}
2430 \providecommand*\familynamestyle[1]{\{\@familynamefont\@familynamecolour#1\}}
2431 \providecommand*\titlestyle[1]{\{\@titlefont\@titlecolour#1\}}

```



```

2432 \providecommand*{\addresstyle}[1]{\addressfont\addresscolour#1}}
2433 \providecommand*{\quotestyle}[1]{\quote\font\quotecolour#1}}
2434 \providecommand*{\sectionstyle}[1]{\sectionfont\sectiontitlecolour#1}}
2435 \providecommand*{\subsectionstyle}[1]{\subsectionfont\subsectioncolour#1}}
2436 \providecommand*{\hintstyle}[1]{\hintfont\hintcolour#1}}
2437 \newcommand*{\cvtheme}[2][{}{
2438   \def\cvtheme{#2}
2439   \def\cvthemeoptions{#1}}
2440 \cvtheme{bidi-casual}
2441 \AtBeginDocument{\RequirePackage[\cvthemeoptions]{cvtheme\cvtheme}}
2442 \newcommand*{\resumename}[1]{\def\resumename{#1}}
2443 \newcommand*{\firstname}[1]{\def\firstname{#1}}
2444 \newcommand*{\familyname}[1]{\def\familyname{#1}}
2445 \renewcommand*{\title}[1]{\def\title{#1}}
2446 \newcommand*{\address}[1]{\def\address{#1}}
2447 \newcommand*{\mobile}[1]{\def\mobile{#1}}
2448 \newcommand*{\phone}[1]{\def\phone{#1}}
2449 \renewcommand*{\fax}[1]{\def\fax{#1}}
2450 \newcommand*{\email}[1]{\def\email{#1}}
2451 \newcommand*{\extrainfo}[1]{\def\extrainfo{#1}}
2452 \def\photowidth{0pt}
2453 \newcommand*{\photo}[2][64pt]{\def\photowidth{#1}\def\photo{#2}}
2454 \newcommand*{\quote}[1]{\def\quote{#1}}
2455 \newlength{\quotewidth}
2456 \newlength{\hintscolumnwidth}
2457 \newlength{\separatorcolumnwidth}
2458 \setlength{\separatorcolumnwidth}{0.025\textwidth}
2459 \newlength{\maincolumnwidth}
2460 \newlength{\doubleitemmaincolumnwidth}
2461 \newlength{\listitemsymbolwidth}
2462 \settowidth{\listitemsymbolwidth}{\listitemsymbol{~}}
2463 \newlength{\listitemmaincolumnwidth}
2464 \newlength{\listdoubleitemmaincolumnwidth}
2465 \newcommand*{\recomputethemelengths}{}
2466 \newcommand*{\recomputelengths}{%
2467   \setlength{\quotewidth}{0.65\textwidth}%
2468   \setlength{\maincolumnwidth}{\textwidth}%
2469   \addtolength{\maincolumnwidth}{-\separatorcolumnwidth}%
2470   \addtolength{\maincolumnwidth}{-\hintscolumnwidth}%
2471   \setlength{\listitemmaincolumnwidth}{\maincolumnwidth}%
2472   \addtolength{\listitemmaincolumnwidth}{-\listitemsymbolwidth}%
2473   \setlength{\doubleitemmaincolumnwidth}{\maincolumnwidth}%
2474   \addtolength{\doubleitemmaincolumnwidth}{-\hintscolumnwidth}%
2475   \addtolength{\doubleitemmaincolumnwidth}{-\separatorcolumnwidth}%
2476   \setlength{\doubleitemmaincolumnwidth}{0.5\doubleitemmaincolumnwidth}%
2477   \setlength{\listdoubleitemmaincolumnwidth}{\maincolumnwidth}%
2478   \addtolength{\listdoubleitemmaincolumnwidth}{-\listitemsymbolwidth}%
2479   \setlength{\listdoubleitemmaincolumnwidth}{0.475\listdoubleitemmaincolumnwidth}%
2480   \renewcommand{\headwidth}{\textwidth}%
2481   \recomputethemelengths}

```



```

2482 \setlength{\hintscolumnwidth}{0.15\textwidth}
2483 \recomputelengths
2484 \title{}
2485 \renewcommand*{\maketitle}{}
2486 \newcommand*{\section}[1]{%
2487 \vspace*{2.5ex \@plus 1ex \@minus .2ex}%
2488 \phantomsection{}%
2489 \addcontentsline{toc}{part}{#1}%
2490 \parbox[m]{\hintscolumnwidth}{\bidi@raggedleft\hintfont{\leavevmode\color{sectionrectanglec
2491 \hspace{\separatorcolumnwidth}%
2492 \parbox[m]{\maincolumnwidth}{\sectionstyle{#1}}\[\[1ex]]
2493 \newcommand*{\subsection}[1]{%
2494 \cvline[0.45em]{}{\subsectionstyle{#1}}
2495 \newcommand*{\cvline}[3][.25em]{%
2496 \begin{tabular}{@{}p{\hintscolumnwidth}@{\hspace{\separatorcolumnwidth}}p{\maincolumnwidth}
2497 \bidi@raggedleft\hintfont{#2} &{#3}%
2498 \end{tabular}\[\[#1]]
2499 \newcommand*{\cvdoubleitem}[4]{%
2500 \cvline{#1}{\begin{minipage}[t]{\doubleitemmaincolumnwidth}#2\end{minipage}}%
2501 \hfill%
2502 \begin{minipage}[t]{\hintscolumnwidth}\bidi@raggedleft\hintfont{#3}\end{minipage}\hspace*{\s
2503 \newcommand*{\cvlistitem}[2][\listitemsymbol]{}%
2504 \cvline[0pt]{}{#1~\begin{minipage}[t]{\listitemmaincolumnwidth}#2\end{minipage}}
2505 \newcommand*{\cvlistdoubleitem}[3][\listitemsymbol]{}%
2506 \cvline[0pt]{}{#1~\begin{minipage}[t]{\listdoubleitemmaincolumnwidth}#2\end{minipage}}%
2507 \hfill%
2508 \ifthenelse{\equal{#3}{} }%
2509 {}%
2510 {#1~\begin{minipage}[t]{\listdoubleitemmaincolumnwidth}#3\end{minipage}}}}
2511 \newcommand*{\cventry}[6]{%
2512 \cvline{#1}{%
2513 {\bfseries#2}%
2514 \ifx#3\else{, {\slshape#3}}\fi%
2515 \ifx#4\else{, #4}\fi%
2516 \ifx#5\else{, #5}\fi%
2517 .%
2518 \ifx#6\else{\newline{}\begin{minipage}[t]{\linewidth}\small#6\end{minipage}}\fi
2519 }%
2520 \newcommand*{\cvlanguage}[3]{%
2521 \cvline{#1}{\begin{minipage}[t]{.225\maincolumnwidth}\textbf{#2}\end{minipage}\hfill\begin{
2522 \newcommand*{\cvcomputer}[4]{%
2523 \cvdoubleitem{#1}{\small#2}{#3}{\small#4}}
2524 \newcommand*{\link}[2][ ]{}%
2525 \ifthenelse{\equal{#1}{} }%
2526 {\href{#2}{#2}}%
2527 {\href{#2}{#1}}
2528 \newcommand*{\httplink}[2][ ]{}%
2529 \ifthenelse{\equal{#1}{} }%
2530 {\href{http://#2}{#2}}%
2531 {\href{http://#2}{#1}}

```



```

2532 \newcommand*{\emaillink}[2][{}]{%
2533   \ifthenelse{\equal{#1}{}}{%
2534     {\href{mailto:#2}{#2}}%
2535     {\href{mailto:#2}{#1}}}
2536 \newif\if@displaypagenumbers\@displaypagenumberstrue
2537 \newcommand*{\nopagenumbers}{\@displaypagenumbersfalse}
2538 \AtBeginDocument{%
2539   \if@displaypagenumbers%
2540     \ifundefined{r@lastpage}{}%
2541     \ifthenelse{\pageref{lastpage} > 1}{%
2542       \fancypagestyle{plain}{%
2543         \fancyfoot[r]{\beginL\addressfont\@quotecolour\footnotesize\thepage\beginL/\endL\page
2544         \pagestyle{plain}}}%
2545     \AtEndDocument{\label{lastpage}}%
2546   \fi}
2547 \newlength{\bibindent}
2548 \setlength{\bibindent}{1.5em}
2549 \newcommand*{\bibliographyitemlabel}{\includegraphics{bibitem.pdf}}
2550 \newenvironment{thebibliography}[1]{%
2551   {%
2552     \section{\refname}%
2553     \small%
2554     \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
2555     \begin{list}{\bibliographyitemlabel}%
2556       {%
2557         \setlength{\topsep}{0pt}%
2558         \setlength{\labelwidth}{\hintscolumnwidth}%
2559         \setlength{\labelsep}{\separatorcolumnwidth}%
2560         \leftmargin\labelwidth%
2561         \advance\leftmargin\labelsep%
2562         \@openbib@code%
2563         \usecounter{enumiv}%
2564         \let\p@enumiv\@empty%
2565         \renewcommand\theenumiv{\@arabic\c@enumiv}}%
2566         \sloppy\clubpenalty4000\widowpenalty4000%
2567       }%
2568     {%
2569       \def\@noitemerr{\@latex@warning{Empty `thebibliography' environment}}%
2570       \end{list}%
2571     }
2572 \newcommand\newblock{\hskip .11em\@plus.33em\@minus.07em}
2573 \let\@openbib@code\@empty

```

## 7.21 biditools.sty

```

2574 \NeedsTeXFormat{LaTeX2e}
2575 \ProvidesPackage{biditools}[2016/11/30 v0.9 Programming tools for bidi package]
2576 \providecommand{\@bidi@saveprimitive}[2]{\begingroup\escapechar`\relax
2577   \edef\@tempa{\string#1}\edef\@tempb{\meaning#1}%
2578   \ifx\@tempa\@tempb \global\let#2#1%

```





```

2579 \else
2580 \edef\@tempb{\meaning#2}%
2581 \ifx\@tempa\@tempb
2582 \else
2583 \@latex@error{Unable to properly define \string#2; primitive
2584 \noexpand#1no longer primitive}\@eha
2585 \fi
2586 \fi
2587 \endgroup}
2588 \newtoks\@bidi@envbody
2589 \newtoks\@bidi@emptytoks
2590 \def\bidi@addto@envbody#1{\global\@bidi@envbody\expandafter{\the\@bidi@envbody#1}}
2591 \def\bidi@collect@body#1{%
2592 \@bidi@envbody{\expandafter#1\expandafter{\the\@bidi@envbody}}%
2593 \edef\bidi@process@envbody{\the\@bidi@envbody\noexpand\end{\@currenvir}}%
2594 \@bidi@envbody\@bidi@emptytoks \def\begin@bidi@stack{b}%
2595 \begingroup
2596 \expandafter\let\csname\@currenvir\endcsname\bidi@collect@body
2597 \edef\bidi@process@envbody{\expandafter\noexpand\csname\@currenvir\endcsname}%
2598 \bidi@process@envbody
2599 }
2600 \def\bidi@push@begins#1\begin#2{%
2601 \ifx\end#2\else b\expandafter\bidi@push@begins\fi
2602 }
2603 \def\bidi@collect@@body#1\end#2{%
2604 \edef\begin@bidi@stack{\bidi@push@begins#1\begin\end \expandafter\@gobble\begin@bidi@stack}
2605 \ifx\@empty\begin@bidi@stack
2606 \endgroup
2607 \@checkend{#2}%
2608 \bidi@addto@envbody{#1}%
2609 \else
2610 \bidi@addto@envbody{#1\end{#2}}%
2611 \fi
2612 \bidi@process@envbody % A little tricky! Note the grouping
2613 }
2614 \long\def\bidi@addto@long@envbody#1{\global\@bidi@envbody\expandafter{\the\@bidi@envbody#1}}
2615 \long\def\bidi@collect@long@body#1{%
2616 \@bidi@envbody{\expandafter#1\expandafter{\the\@bidi@envbody}}%
2617 \edef\bidi@process@envbody{\the\@bidi@envbody\noexpand\end{\@currenvir}}%
2618 \@bidi@envbody\@bidi@emptytoks \def\begin@bidi@stack{b}%
2619 \begingroup
2620 \expandafter\let\csname\@currenvir\endcsname\bidi@collect@long@body
2621 \edef\bidi@process@envbody{\expandafter\noexpand\csname\@currenvir\endcsname}%
2622 \bidi@process@envbody
2623 }
2624 \long\def\bidi@push@long@begins#1\begin#2{%
2625 \ifx\end#2\else b\expandafter\bidi@push@long@begins\fi
2626 }
2627 \long\def\bidi@collect@long@@body#1\end#2{%
2628 \edef\begin@bidi@stack{\bidi@push@long@begins#1\begin\end \expandafter\@gobble\begin@bidi@stack}

```



```

2629 \ifx\@empty\begin@bidi@stack
2630 \endgroup
2631 \@checkend{#2}%
2632 \bidi@addto@long@envbody{#1}%
2633 \else
2634 \bidi@addto@long@envbody{#1\end{#2}}%
2635 \fi
2636 \bidi@process@envbody % A little tricky! Note the grouping
2637 }
2638 \long\def\bidi@new@ifnextchar#1#2#3{%
2639 \let\reserved@d= #1%
2640 \def\reserved@a{#2}\def\reserved@b{#3}%
2641 \futurelet\@let@token\bidi@new@ifnch
2642 }
2643 \def\bidi@new@ifnch{%
2644 \ifx\@let@token\reserved@d \let\reserved@b\reserved@a \fi
2645 \reserved@b
2646 }
2647 \def\bidi@matrix@check#1{%
2648 \expandafter\ifx\csname\@currenvir\endcsname#1%
2649 \else\bidi@matrix@error#1%
2650 \expandafter\@gobble
2651 \fi
2652 }
2653 \def\bidi@matrix@error#1{%
2654 \PackageError{biditools}{%
2655 Old form ``\string#1' should be \string\begin{\expandafter\@gobble\string#1}%
2656 }{%
2657 ``\string#1{...}' is old bidi package syntax whose use is
2658 ill-advised in the old versions of bidi package.%
2659 }%
2660 }
2661 \def\@tagsextension{clo}
2662 \def\@definitionfileextension{def}
2663 \def\@texfileextension{tex}
2664 \def\@iftagsloaded{\@ifl@aded\@tagsextension}
2665 \def\@ifdefinitionfileloaded{\@ifl@aded\@definitionfileextension}
2666 \def\@iftexfileloaded{\@ifl@aded\@texfileextension}
2667 \def\eqnewif#1#2{%
2668 \count@\escapechar \escapechar\m@ne
2669 \let#1\iffalse
2670 \let#2\iffalse
2671 \eq@if#1#2\iftrue
2672 \eq@if#1#2\iffalse
2673 \escapechar\count@}
2674 \def\eq@if#1#2#3{%
2675 \expandafter\def\csname\expandafter\@gobbletwo\string#1%
2676 \expandafter\@gobbletwo\string#3\endcsname
2677 {\let#1#3%
2678 \let#2#3}%

```



```

2679 \expandafter\def\csname\expandafter@gobbletwo\string#2%
2680 \expandafter@gobbletwo\string#3\endcsname
2681 {\let#2#3%
2682 \let#1#3}}
2683 \newcommand*\SetBoolean}[2]{%
2684 \lowercase{\def\@tempa{#2}}%
2685 \ifundefined{\tempswa\@tempa}%
2686 {\PackageError{biditools}%
2687 {You can only set a boolean to `true' or `false'}\@ehc}%
2688 {\ifundefined{#1\@tempa}%
2689 {\PackageError{biditools}{Boolean #1 undefined}\@ehc}%
2690 {\csname#1\@tempa\endcsname}}}
2691 \newcommand*\GlobalSetBoolean}[2]{%
2692 \lowercase{\def\@tempa{#2}}%
2693 \ifundefined{\tempswa\@tempa}%
2694 {\PackageError{biditools}%
2695 {You can only set a boolean to `true' or `false'}\@ehc}%
2696 {\ifundefined{#1\@tempa}%
2697 {\PackageError{biditools}{Boolean #1 undefined}\@ehc}%
2698 {\global\csname#1\@tempa\endcsname}}}
2699 \newcommand*\SetatBoolean}[2]{%
2700 \lowercase{\def\@tempa{#2}}%
2701 \ifundefined{\tempswa\@tempa}%
2702 {\PackageError{biditools}%
2703 {You can only set a boolean to `true' or `false'}\@ehc}%
2704 {\ifundefined{@#1\@tempa}%
2705 {\PackageError{biditools}{Boolean @#1 undefined}\@ehc}%
2706 {\csname @#1\@tempa\endcsname}}}
2707 \newcommand*\GlobalSetatBoolean}[2]{%
2708 \lowercase{\def\@tempa{#2}}%
2709 \ifundefined{\tempswa\@tempa}%
2710 {\PackageError{biditools}%
2711 {You can only set a boolean to `true' or `false'}\@ehc}%
2712 {\ifundefined{@#1\@tempa}%
2713 {\PackageError{biditools}{Boolean @#1 undefined}\@ehc}%
2714 {\global\csname @#1\@tempa\endcsname}}}
2715 \def\@bidi@removefromreset#1#2{%
2716 \expandafter\let\csname c@#1\endcsname\@bidi@removefromreset
2717 \def\@elt##1{%
2718 \expandafter\ifx\csname c@##1\endcsname\@bidi@removefromreset
2719 \else
2720 \noexpand\@elt{##1}%
2721 \fi}%
2722 \expandafter\xdef\csname cl@#2\endcsname{%
2723 \csname cl@#2\endcsname}}}
2724 \newcommand*\ifRtoL{%
2725 \if@RTL
2726 \expandafter\@firstoftwo
2727 \else
2728 \expandafter\@secondoftwo

```



```

2729 \fi}
2730 \newcommand*{\ifLtoR}{%
2731 \if@RTL
2732 \expandafter\@secondoftwo
2733 \else
2734 \expandafter\@firstoftwo
2735 \fi}
2736 \newcommand*{\ifRtoLtable}{%
2737 \if@RTLtab
2738 \expandafter\@firstoftwo
2739 \else
2740 \expandafter\@secondoftwo
2741 \fi}
2742 \newcommand*{\ifLtoRtable}{%
2743 \if@RTLtab
2744 \expandafter\@secondoftwo
2745 \else
2746 \expandafter\@firstoftwo
2747 \fi}
2748 \newcommand*{\ifRtoLhboxconstruct}{%
2749 \if@hboxRconstruct
2750 \expandafter\@firstoftwo
2751 \else
2752 \expandafter\@secondoftwo
2753 \fi}
2754 \newcommand*{\ifLtoRhboxconstruct}{%
2755 \if@hboxRconstruct
2756 \expandafter\@secondoftwo
2757 \else
2758 \expandafter\@firstoftwo
2759 \fi}
2760 \newcommand*{\iflatin}{%
2761 \if@nonlatin
2762 \expandafter\@secondoftwo
2763 \else
2764 \expandafter\@firstoftwo
2765 \fi}
2766 \newcommand*{\ifnonlatin}{%
2767 \if@nonlatin
2768 \expandafter\@firstoftwo
2769 \else
2770 \expandafter\@secondoftwo
2771 \fi}
2772
2773 \newcommand*{\bidi@@convert@dimen@t@unit}[2]{%
2774 \strip@pt\dimexpr #1*65536/\dimexpr 1#2\relax #2}
2775
2776 \newcommand*{\bidi@@convert@dimen@t@pt}[1]{%
2777 \dimexpr #1*65536/\dimexpr 1pt\relax}
2778

```



```

2779 \newcommand*{\if@bidi@csdef}[1]{%
2780   \ifcsname#1\endcsname
2781   \expandafter\@firstoftwo
2782   \else
2783   \expandafter\@secondoftwo
2784   \fi}
2785 \newcommand*{\if@bidi@csundef}[1]{%
2786   \ifcsname#1\endcsname
2787   \expandafter\ifx\csname#1\endcsname\relax
2788   \expandafter\expandafter
2789   \expandafter\@firstoftwo
2790   \else
2791   \expandafter\expandafter
2792   \expandafter\@secondoftwo
2793   \fi
2794   \else
2795   \expandafter\@firstoftwo
2796   \fi}
2797 \newcommand{\if@bidi@def}[1]{%
2798   \ifdefined#1%
2799   \expandafter\@firstoftwo
2800   \else
2801   \expandafter\@secondoftwo
2802   \fi}
2803 \newcommand{\if@bidi@undef}[1]{%
2804   \ifdefined#1%
2805   \ifx#1\relax
2806   \expandafter\expandafter
2807   \expandafter\@firstoftwo
2808   \else
2809   \expandafter\expandafter
2810   \expandafter\@secondoftwo
2811   \fi
2812   \else
2813   \expandafter\@firstoftwo
2814   \fi}
2815 \newcommand{\if@bidi@blank}[1]{% from url.sty
2816   \bidi@ifblank@i#1&&\@secondoftwo\@firstoftwo:}
2817 \long\def\bidi@ifblank@i#1#2&#3#4#5:{#4}
2818 \newcommand{\bidi@notblank}[1]{%
2819   \bidi@ifblank@i#1&&\@firstoftwo\@secondoftwo:}
2820 \newcommand{\if@bidi@defmacro}{%
2821 \long\edef\if@bidi@defmacro#1{%
2822   \noexpand\expandafter\noexpand\bidi@ifdefmacro
2823   \noexpand\meaning#1\detokenize{macro}:&}
2824 \edef\bidi@ifdefmacro{%
2825   \def\noexpand\bidi@ifdefmacro##1\detokenize{macro}:##2&
2826   \bidi@ifdefmacro{\bidi@notblank{#2}}
2827 \newcommand*{\if@bidi@csmacro}[1]{%
2828   \if@bidi@csdef{#1}

```



```

2829     {\expandafter\if@bidi@defmacro\csname#1\endcsname}
2830     {\@secondoftwo}}
2831 \newcommand{\if@bidi@defprimitive}[1]{%
2832   \ifprimitive#1%
2833   \expandafter\@firstoftwo
2834   \else
2835   \expandafter\@secondoftwo
2836   \fi}
2837 \newcommand{\if@bidi@csprimitive}[1]{%
2838   \beginngroup\expandafter\expandafter\expandafter\endgroup%
2839   \expandafter\ifprimitive\csname#1\endcsname%
2840   \expandafter\@firstoftwo
2841   \else
2842   \expandafter\@secondoftwo
2843   \fi}
2844 \newcommand*{\bidi@csdefcs}[2]{%
2845   \expandafter\@ifdefinable \csname#1\endcsname{%
2846     \expandafter\def\csname#1\expandafter\endcsname{\csname#2\endcsname}}
2847   \newcommand*{\bidi@csletcs}[2]{%
2848     \expandafter\@ifdefinable \csname#1\endcsname{%
2849       \expandafter\let\csname#1\expandafter\endcsname\csname#2\endcsname}}
2850   \newcommand*{\bidi@cslet}[2]{%
2851     \expandafter\@ifdefinable \csname#1\endcsname{%
2852       \expandafter\let\csname#1\endcsname#2}}
2853   \newcommand{\bidi@namelongdef}[1]{%
2854     \long\expandafter\def\csname #1\endcsname}
2855   \def\bidi@ensure@newcommand{\@star@or@long\bidi@ensure@new@command}
2856   \def\bidi@ensure@new@command#1{%
2857     \beginngroup \escapechar\m@ne\xdef\@gtempa{\string#1}\endgroup
2858     \expandafter\if@bidi@csundef\@gtempa
2859       {\new@command#1}{\relax%
2860       \let\@ifdefinable\@rc@ifdefinable%
2861       \new@command#1}}
2862   \def\bidi@ensure@newlength#1{\if@bidi@undef#1{\newskip#1}{}}
2863
2864   \protected\def\bidi@error{\PackageError{bidi}}
2865   \protected\def\bidi@warning{\PackageWarning{bidi}}
2866   \protected\def\bidi@info{\PackageInfo{bidi}}
2867
2868
2869 \newcommand*{\setbaselineskip}[1]{%
2870   \linespread{\strip@pt\dimexpr\numexpr\dimexpr#1\relax*65536/\dimexpr\baselineskip\relax}
2871   \selectfont
2872 }
2873
2874
2875 \newcommand*{\bidi@newrobustcmd}{}
2876 \protected\def\bidi@newrobustcmd{\@star@or@long\bidi@new@command}
2877
2878 \def\bidi@new@command#1{\@testopt{\bidi@newcommand#1}0}

```



```

2879
2880 \def\bidinewcommand#1[#2]{%
2881   \@ifnextchar[%]
2882     {\bidixargdef#1[#2]}
2883     {\ifx\l@ngrel@x\relax
2884       \let\l@ngrel@x\protected
2885     \else
2886       \protected\def\l@ngrel@x{\protected\long}%
2887     \fi
2888     \@argdef#1[#2]}}
2889
2890 \long\def\bidixargdef#1[#2][#3]#4{%
2891   \@ifdefinable#1{%
2892     \expandafter\protected
2893     \expandafter\def
2894     \expandafter#1%
2895     \expandafter{%
2896       \expandafter\@testopt
2897       \csname\string#1\endcsname{#3}}%
2898     \expandafter\@yargdef\csname\string#1\endcsname\tw{#2}{#4}}}
2899
2900 \bidinewrobustcmd*{\bidirenewrobustcmd}{\@star@or@long\bidirenew@command}
2901
2902 \def\bidirenew@command#1{%
2903   \if@bidi@undef{#1}
2904     {\biderror{\string#1 undefined}\@ehc}
2905     {}%
2906   \let\@ifdefinable\@rc@ifdefinable
2907   \bidinew@command#1}
2908
2909
2910
2911 \bidinewrobustcmd*{\bidiproviderobustcmd}{\@star@or@long\bidiprovide@command}
2912
2913 \def\bidiprovide@command#1{%
2914   \if@bidi@undef{#1}
2915     {\def\reserved@a{\bidinew@command#1}}
2916     {\def\reserved@a{\bidirenew@command\reserved@a}}%
2917   \reserved@a}
2918
2919 \newcommand*{\bidicsuse}[1]{%
2920   \ifcsname#1\endcsname
2921     \csname#1\expandafter\endcsname
2922   \fi}
2923
2924 \newcommand{\bidieexpandonce}[1]{%
2925   \unexpanded\expandafter{#1}}
2926
2927 \def\bidiprotected{%
2928   \let\@@protect\protect

```



```

2929 \let\protect\@unexpandable@protect
2930 \afterassignment\restore@protect}
2931
2932 \bidi@newrobustcmd{\bidi@appto}[2]{%
2933   \if@bidi@undef{#1}
2934     {\edef#1{\unexpanded{#2}}}
2935     {\edef#1{\bidi@expandonce#1\unexpanded{#2}}}}
2936 \bidi@newrobustcmd{\bidi@eappto}[2]{%
2937   \if@bidi@undef{#1}
2938     {\edef#1{#2}}
2939     {\edef#1{\bidi@expandonce#1#2}}}
2940 \bidi@newrobustcmd{\bidi@gappto}[2]{%
2941   \if@bidi@undef{#1}
2942     {\xdef#1{\unexpanded{#2}}}
2943     {\xdef#1{\bidi@expandonce#1\unexpanded{#2}}}}
2944 \bidi@newrobustcmd{\bidi@xappto}[2]{%
2945   \if@bidi@undef{#1}
2946     {\xdef#1{#2}}
2947     {\xdef#1{\bidi@expandonce#1#2}}}
2948
2949 \bidi@newrobustcmd*{\bidi@protected@eappto}{\bidi@protected\bidi@eappto}
2950 \bidi@newrobustcmd*{\bidi@protected@xappto}{\bidi@protected\bidi@xappto}
2951
2952
2953
2954 \bidi@newrobustcmd{\bidi@preto}[2]{%
2955   \if@bidi@undef{#1}
2956     {\edef#1{\unexpanded{#2}}}
2957     {\edef#1{\unexpanded{#2}\bidi@expandonce#1}}}
2958 \bidi@newrobustcmd{\bidi@epreto}[2]{%
2959   \if@bidi@undef{#1}
2960     {\edef#1{#2}}
2961     {\edef#1{#2\bidi@expandonce#1}}}
2962 \bidi@newrobustcmd{\bidi@gpreto}[2]{%
2963   \if@bidi@undef{#1}
2964     {\xdef#1{\unexpanded{#2}}}
2965     {\xdef#1{\unexpanded{#2}\bidi@expandonce#1}}}
2966 \bidi@newrobustcmd{\bidi@xpreto}[2]{%
2967   \if@bidi@undef{#1}
2968     {\xdef#1{#2}}
2969     {\xdef#1{#2\bidi@expandonce#1}}}
2970
2971 \bidi@newrobustcmd*{\bidi@protected@epreto}{\bidi@protected\bidi@epreto}
2972 \bidi@newrobustcmd*{\bidi@protected@xpreto}{\bidi@protected\bidi@xpreto}
2973
2974
2975
2976 \bidi@newrobustcmd*{\bidi@csappto}[1]{\expandafter\bidi@appto\csname#1\endcsname}
2977 \bidi@newrobustcmd*{\bidi@cseappto}[1]{\expandafter\bidi@eappto\csname#1\endcsname}
2978 \bidi@newrobustcmd*{\bidi@csgappto}[1]{\expandafter\bidi@gappto\csname#1\endcsname}

```





```

2979 \bidi@newrobustcmd*{\bidi@csxappto}[1]{\expandafter\bidi@xappto\csname#1\endcsname}
2980 \bidi@newrobustcmd*{\bidi@protected@cseappto}{\bidi@protected\bidi@cseappto}
2981 \bidi@newrobustcmd*{\bidi@protected@csxappto}{\bidi@protected\bidi@csxappto}
2982
2983
2984
2985 \bidi@newrobustcmd*{\bidi@cspreto}[1]{\expandafter\bidi@preto\csname#1\endcsname}
2986 \bidi@newrobustcmd*{\bidi@csepreto}[1]{\expandafter\bidi@epreto\csname#1\endcsname}
2987 \bidi@newrobustcmd*{\bidi@csgpreto}[1]{\expandafter\bidi@gpreto\csname#1\endcsname}
2988 \bidi@newrobustcmd*{\bidi@csxpreto}[1]{\expandafter\bidi@xpreto\csname#1\endcsname}
2989 \bidi@newrobustcmd*{\bidi@protected@csepreto}{\bidi@protected\bidi@csepreto}
2990 \bidi@newrobustcmd*{\bidi@protected@csxpreto}{\bidi@protected\bidi@csxpreto}
2991
2992
2993
2994 \bidi@newrobustcmd{\if@bidi@patchable}{%
2995   \bidi@dbg@trce\if@bidi@patchable
2996   \begingroup
2997   \@makeother\#%
2998   \@ifstar\bidi@ifpatchable@i\bidi@ifpatchable}
2999
3000 \long\def\bidi@ifpatchable#1#2{%
3001   \endgroup
3002   \bidi@dbg@init#1%
3003   \if@bidi@undef{#1}
3004     {\bidi@dbg@fail{def}}\@secondoftwo}
3005   {\bidi@dbg@info{def}%
3006     \if@bidi@defmacro{#1}
3007       {\bidi@dbg@info{mac}%
3008         \bidi@ifscanable{#1}
3009         {\bidi@ifhashcheck{#2}
3010           {\bidi@dbg@info{tok}%
3011             \bidi@ifpattern#1{#2}
3012             {\bidi@dbg@info{pat}%
3013               \bidi@dbg@info{pos}}\@firstoftwo}
3014             {\bidi@dbg@fail{pat}}\@secondoftwo}}
3015           {\bidi@dbg@fail{hsh}}\@secondoftwo}}
3016         {\bidi@dbg@fail{tok}}\@secondoftwo}}
3017       {\bidi@dbg@fail{mac}}\@secondoftwo}}}}
3018
3019 \long\def\bidi@ifpatchable@i#1{%
3020   \endgroup
3021   \bidi@dbg@init#1%
3022   \if@bidi@undef{#1}
3023     {\bidi@dbg@fail{def}}\@secondoftwo}
3024   {\bidi@dbg@info{def}%
3025     \if@bidi@defmacro{#1}
3026       {\bidi@dbg@info{mac}%
3027         \if@bidi@defparam{#1}
3028           {\bidi@dbg@info{prm}%

```



```

3029         \bidi@ifscanable{#1}
3030         {\bidi@dbg@info{tok}%
3031          \bidi@dbg@info{pos}\@firstoftwo}
3032         {\bidi@dbg@fail{tok}\@secondoftwo}}
3033     {\bidi@dbg@info{prl}%
3034      \if@bidi@defprotected{#1}
3035      {\bidi@dbg@info{pro}}
3036      {}%
3037      \bidi@dbg@info{pos}\@firstoftwo}}
3038     {\bidi@dbg@fail{mac}\@secondoftwo}}
3039
3040 \bidi@newrobustcmd*{\bidi@patchcmd}{%
3041  \bidi@dbg@trce\bidi@patchcmd
3042  \begingroup
3043  \@makeother\##
3044  \bidi@@patchcmd}
3045
3046 \newcommand{\bidi@@patchcmd}[4][#####1]{%
3047  \bidi@ifpatchable#2{#3}
3048  {\bidi@dbg@succ{ret}%
3049   \begingroup
3050   \edef\bidi@resrvda{%
3051     \def\noexpand\bidi@resrvda####1\detokenize{macro:}####2->####3&{%
3052       #1\def\string\bidi@resrvda\space####2{\noexpand\bidi@resrvdb####3&}}%
3053     \def\noexpand\bidi@resrvdb####1\detokenize{#3}####2&{%
3054       #####1\detokenize{#4}####2}%
3055     \edef\noexpand\bidi@resrvda{%
3056       \noexpand\bidi@resrvda\meaning#2&}}%
3057   \bidi@resrvda
3058   \bidi@patchcmd@scantoks\bidi@resrvda
3059   \let#2\bidi@resrvda
3060   \bidi@undef\bidi@resrvda
3061   \@firstoftwo}
3062  {\@secondoftwo}}
3063
3064 \def\bidi@patchcmd@scantoks#1{%
3065  \edef\bidi@resrvda{\endgroup
3066   \unexpanded{\makeatletter\scantokens}{#1}%
3067   \catcode\number`\@=\the\catcode`\@relax}%
3068  \bidi@resrvda}
3069
3070 \newcommand\bidi@isloaded[2][]{
3071  \expandafter\ifx\csname if@bidi@#2loaded@endcsname\relax
3072  \expandafter\newif\csname if@bidi@#2loaded@endcsname
3073  \fi
3074  \@ifpackageloaded{#2}
3075  {\csname @bidi@#2loaded@true@endcsname #1}
3076  {\csname @bidi@#2loaded@false@endcsname}}
3077
3078 \protected\def\bidi@ifscanable#1{%

```



```

3079 \begingroup
3080 \edef\bidi@resrvda{%
3081   \def\noexpand\bidi@resrvda####1\detokenize{macro}:####2->####3&{%
3082     ####1\def\string\bidi@resrvda####2{####3}}}%
3083   \edef\noexpand\bidi@resrvda{\noexpand\bidi@resrvda\meaning#1&}}%
3084 \bidi@resrvda
3085 \makeatletter
3086 \scantokens\expandafter{\bidi@resrvda}%
3087 \expandafter\endgroup\ifx#1\bidi@resrvda
3088   \expandafter\@firstoftwo
3089 \else
3090   \expandafter\@secondoftwo
3091 \fi}
3092
3093
3094 \protected\long\def\bidi@ifhashcheck#1{%
3095   \begingroup
3096   \edef\bidi@resrvda{\detokenize{#1}}%
3097   \expandafter\endgroup
3098   \expandafter\bidi@ifhashcheck@i\meaning\bidi@resrvda&}
3099
3100 \edef\bidi@ifhashcheck@i#1&{%
3101   \noexpand\expandafter
3102   \noexpand\bidi@ifhashcheck@ii
3103   \noexpand\strip@prefix#1\string#\string#&}
3104
3105 \edef\bidi@ifhashcheck@ii{%
3106   \def\noexpand\bidi@ifhashcheck@ii##1\string#\string##2&}
3107 \bidi@ifhashcheck@ii{\if@bidi@blank{#2}}
3108
3109
3110 \protected\long\def\bidi@ifpattern#1#2{%
3111   \begingroup
3112   \edef\bidi@resrvda{%
3113     \def\noexpand\bidi@resrvda####1\detokenize{#2}####2&{%
3114       \endgroup\noexpand\noexpand\noexpand\noexpand\if@bidi@blank{####2}}}%
3115     \edef\noexpand\bidi@resrvda{\noexpand\bidi@resrvda
3116       \expandafter\strip@prefix\meaning#1\detokenize{#2}&}%
3117     \noexpand\bidi@resrvda}
3118   \bidi@resrvda\@secondoftwo\@firstoftwo}
3119
3120
3121 \newcommand{\if@bidi@defparam}{%
3122 \long\edef\if@bidi@defparam#1{%
3123   \noexpand\expandafter\noexpand\bidi@ifdefparam
3124   \noexpand\meaning#1\detokenize{macro}:->&}
3125 \edef\bidi@ifdefparam{%
3126   \def\noexpand\bidi@ifdefparam##1\detokenize{macro}:##2->##3&}
3127 \bidi@ifdefparam{\bidi@notblank{#2}}
3128

```



```

3129
3130 \newcommand{\if@bidi@defprotected}{%
3131 \long\edef\if@bidi@defprotected#1{%
3132 \noexpand\expandafter\noexpand\bidi@ifdefprotected
3133 \noexpand\meaning#1\string\protected&}
3134 \edef\bidi@ifdefprotected{%
3135 \def\noexpand\bidi@ifdefprotected##1\string\protected##2&}
3136 \bidi@ifdefprotected{\bidi@notblank{#2}}
3137
3138
3139 \bidi@newrobustcmd{\bidi@undef}[1]{\let#1\bidi@undefined}
3140
3141 \let\bidi@dbg@trce\@gobble
3142 \let\bidi@dbg@init\@gobble
3143 \let\bidi@dbg@info\@gobble
3144 \let\bidi@dbg@succ\@gobble
3145 \let\bidi@dbg@fail\@gobble
3146
3147
3148
3149 \bidi@newrobustcmd*{\bidi@apptocmd}{%
3150 \bidi@dbg@trce\bidi@apptocmd
3151 \begingroup
3152 \@makeother\#%
3153 \bidi@hooktocmd\bidi@append}
3154
3155
3156
3157 \bidi@newrobustcmd*{\bidi@pretocmd}{%
3158 \bidi@dbg@trce\bidi@pretocmd
3159 \begingroup
3160 \@makeother\#%
3161 \bidi@hooktocmd\bidi@prepend}
3162
3163 \long\def\bidi@hooktocmd#1#2#3{%
3164 \endgroup
3165 \bidi@dbg@init#2%
3166 \if@bidi@undef{#2}
3167 {\bidi@dbg@fail{def}\@secondoftwo}
3168 {\bidi@dbg@info{def}%
3169 \if@bidi@defmacro{#2}
3170 {\bidi@dbg@info{mac}%
3171 \if@bidi@defparam{#2}
3172 {\bidi@dbg@info{prm}%
3173 \bidi@ifscanable{#2}
3174 {\bidi@ifhashcheck{#3}
3175 {\bidi@dbg@info{tok}%
3176 \bidi@dbg@succ{ret}%
3177 \bidi@hooktocmd{i#1#2{#3}%
3178 \@firstoftwo}

```



```

3179         {\bidi@dbg@fail{hsh}\@secondoftwo}}
3180         {\bidi@dbg@fail{tok}\@secondoftwo}}
3181     {\bidi@dbg@info{prl}}%
3182     \if@bidi@defprotected{#2}
3183         {\bidi@dbg@info{pro}}%
3184         \bidi@dbg@succ{red}}%
3185     \protected}
3186     {\bidi@dbg@succ{red}}}%
3187     \edef#2{#1{\bidi@expandonce#2}{\unexpanded{#3}}}%
3188     \@firstoftwo}}
3189     {\bidi@dbg@fail{mac}\@secondoftwo}}}}
3190
3191 \long\def\bidi@hooktocmd@i#1#2#3{%
3192     \begingroup
3193     \edef\bidi@resrvda{%
3194         \def\noexpand\bidi@resrvda####1\detokenize{macro}:####2->####3&{%
3195             ####1\def\string\bidi@resrvda\space####2{#1{####3}{\detokenize{#3}}}}}%
3196         \edef\noexpand\bidi@resrvda{%
3197             \noexpand\bidi@resrvda\meaning#2&}}}%
3198     \bidi@resrvda
3199     \bidi@patchcmd@scantoks\bidi@resrvda
3200     \let#2\bidi@resrvda
3201     \bidi@undef\bidi@resrvda}
3202
3203 \long\def\bidi@append#1#2{#1#2}
3204 \long\def\bidi@prepend#1#2{#2#1}
3205
3206 \bidi@newrobustcmd*{\bidi@AtEndPreamble}{\bidi@gappto\bidi@endpreamblehook}
3207 \newcommand*{\bidi@endpreamblehook}{}
3208
3209 \bidi@preto\document{%
3210     \endgroup
3211     \let\bidi@AtEndPreamble\@firstofone
3212     \bidi@endpreamblehook
3213     \protected\def\bidi@AtEndPreamble{\@notprerr\@gobble}%
3214     \bidi@undef\bidi@endpreamblehook
3215     \begingroup}
3216
3217 \bidi@newrobustcmd*{\bidi@AfterPreamble}{\AtBeginDocument}
3218 \bidi@AtEndPreamble{\let\bidi@AfterPreamble\@firstofone}
3219
3220 \bidi@newrobustcmd*{\bidi@AfterEndPreamble}{\bidi@gappto\bidi@afterendpreamblehook}
3221 \newcommand*{\bidi@afterendpreamblehook}{}
3222
3223 \bidi@appto\document{%
3224     \let\bidi@AfterEndPreamble\@firstofone
3225     \bidi@afterendpreamblehook
3226     \protected\def\bidi@AfterEndPreamble{\@notprerr\@gobble}%
3227     \bidi@undef\bidi@afterendpreamblehook
3228     \ignorespaces}

```



```

3229
3230 \AtEndDocument{\let\bid@AfterEndPreamble\@gobble}
3231
3232 \bid@newrobustcmd*{\bid@AfterEndDocument}{\bid@gappto\bid@afterenddocumenthook}
3233 \newcommand*{\bid@afterenddocumenthook}{%
3234
3235 \bid@patchcmd\enddocument
3236 {\deadcycles}
3237 {\let\bid@AfterEndDocument\@firstofone
3238 \bid@afterenddocumenthook
3239 \deadcycles}
3240 {}
3241 {\let\bid@@end\@end
3242 \def\@end{%
3243 \let\bid@AfterEndDocument\@firstofone
3244 \bid@afterenddocumenthook
3245 \bid@@end}}
3246
3247 \bid@newrobustcmd{\bid@AtBeginEnvironment}[1]{%
3248 \bid@csgappto{\bid@begin@#1@hook}}
3249
3250 \bid@patchcmd\begin
3251 {\csname #1\endcsname}
3252 {\bid@csuse{\bid@begin@#1@hook}%
3253 \csname #1\endcsname}
3254 {}
3255 {\bid@warning{%
3256 Patching '\string\begin' failed!\MessageBreak
3257 '\string\bid@AtBeginEnvironment' will not work\@gobble}}
3258
3259
3260
3261 \bid@newrobustcmd{\bid@AtEndEnvironment}[1]{%
3262 \bid@csgappto{\bid@end@#1@hook}}
3263
3264 \bid@patchcmd\end
3265 {\csname end#1\endcsname}
3266 {\bid@csuse{\bid@end@#1@hook}%
3267 \csname end#1\endcsname}
3268 {}
3269 {\bid@warning{%
3270 Patching '\string\end' failed!\MessageBreak
3271 '\string\bid@AtEndEnvironment' will not work\@gobble}}
3272
3273
3274
3275 \bid@newrobustcmd{\bid@BeforeBeginEnvironment}[1]{%
3276 \bid@csgappto{\bid@beforebegin@#1@hook}}
3277
3278 \bid@pretocmd\begin

```



```

3279 {\bidi@csuse{@bidi@beforebegin@#1@hook}}
3280 {}
3281 {\bidi@warning{%
3282     Patching '\string\begin' failed!\MessageBreak
3283     '\string\bidi@BeforeBeginEnvironment' will not work\@gobble}}
3284
3285
3286
3287 \bidi@newrobustcmd{\bidi@AfterEndEnvironment}[1]{%
3288     \bidi@csgappto{@bidi@afterend@#1@hook}}
3289
3290 \bidi@patchcmd\end
3291     {\if@ignore}
3292     {\bidi@csuse{@bidi@afterend@#1@hook}%
3293     \if@ignore}
3294     {}
3295     {\bidi@warning{%
3296         Patching '\string\end' failed!\MessageBreak
3297         '\string\bidi@AfterEndEnvironment' will not work\@gobble}}
3298
3299 \CheckCommand{\InputIfFileExists}[2]{%
3300     \IfFileExists{#1}%
3301     {#2\@addtofilelist{#1}\@input \@filef@und}}
3302
3303 \renewcommand{\InputIfFileExists}[2]{%
3304     \begingroup\expandafter\expandafter\expandafter\endgroup
3305     \expandafter\ifx\csname #1-@bidi@alias\endcsname\relax
3306     \expandafter\@secondoftwo
3307     \else
3308     \bidi@replacefile@msg{\csname #1-@bidi@alias\endcsname}{#1}%
3309     \expandafter\@firstoftwo
3310     \fi
3311     {%
3312     \expandafter\InputIfFileExists\expandafter{\csname
3313     #1-@bidi@alias\endcsname}{#2}%
3314     }%
3315     {\IfFileExists{#1}{%
3316         \bidi@load@hook{before}{#1}%
3317         #2\@addtofilelist{#1}%
3318         \@input \@filef@und
3319         \bidi@load@hook{after}{#1}%
3320     }}%
3321 }
3322
3323 \newcommand*{\bidi@loadwithoptions}{}
3324 \newcommand*{\bidi@loadwithoptions}{}
3325 \let\bidi@loadwithoptions\loadwithoptions
3326
3327 \renewcommand*{\@loadwithoptions}[3]{%
3328     \begingroup\expandafter\expandafter\expandafter\endgroup

```



```

3329 \expandafter\ifx\csname #3.#1-@bidi@aliasname\endcsname\relax
3330 \def\bidi@loadwithoptions{\bidi@loadwithoptions{#1}{#2}{#3}}%
3331 \else
3332 \bidi@replacefile@msg{\csname #3.#1-@bidi@aliasname\endcsname.#1}{#3.#1}%
3333 \def\bidi@loadwithoptions{%
3334 \loadwithoptions{#1}{#2}{\csname #3.#1-@bidi@aliasname\endcsname}%
3335 }%
3336 \fi
3337 \bidi@@loadwithoptions
3338 }
3339
3340 \newcommand*{\bidi@onefilewithoptions}{%
3341 \let\bidi@onefilewithoptions@onefilewithoptions
3342 \def\bidi@onefilewithoptions#1[#2][#3]#4{%
3343 \begin{group}\expandafter\expandafter\expandafter\endgroup
3344 \expandafter\ifx\csname #1.#4-@bidi@aliasname\endcsname\relax
3345 \def\bidi@onefilewithoptions{\bidi@onefilewithoptions{#1}}%
3346 \else
3347 \bidi@replacefile@msg{\csname #1.#4-@bidi@aliasname\endcsname.#4}{#1.#4}%
3348 \edef\bidi@onefilewithoptions{%
3349 \noexpand\bidi@onefilewithoptions{\csname #1.#4-@bidi@aliasname\endcsname}}%
3350 \fi
3351 \bidi@@onefilewithoptions[#2][#3]{#4}%
3352 \bidi@load@hook{lateafter}{#1.#4}%
3353 }
3354
3355 \newcommand*{\bidi@ReplaceInput}[2]{%
3356 \expandafter\edef\csname #1-@bidi@alias\endcsname{#2}%
3357 }
3358
3359 \newcommand*{\bidi@UnReplaceInput}[1]{%
3360 \ifcsname #1-@bidi@alias\endcsname
3361 \expandafter\let\csname #1-@bidi@alias\endcsname\relax
3362 \fi
3363 }
3364
3365 \newcommand*{\@bidi@replacefilewithtext}[3]{%
3366 \expandafter\edef\csname #1.#3-@bidi@aliasname\endcsname{#2}%
3367 }
3368 \newcommand*{\bidi@ReplacePackage}[2]{%
3369 \@bidi@replacefilewithtext{#1}{#2}\@pkgextension
3370 }
3371 \newcommand*{\bidi@ReplaceClass}[2]{%
3372 \@bidi@replacefilewithtext{#1}{#2}\@clsextension
3373 }
3374 \newcommand*{\@bidi@unreplacefilewithtext}[2]{%
3375 \ifcsname #1.#2-@bidi@aliasname\endcsname
3376 \expandafter\let\csname #1.#2-@bidi@aliasname\endcsname\relax
3377 \fi
3378 }

```





```

3379 \newcommand*{\bidi@UnReplacePackage}[1]{%
3380   \@bidi@unreplacefilewithext{#1}\@pkgextension
3381 }
3382 \newcommand*{\bidi@UnReplaceClass}[1]{%
3383   \@bidi@unreplacefilewithext{#1}\@clsextension
3384 }
3385 \newcommand*{\bidi@replacefile@msg}[2]{%
3386   \PackageInfo{biditools}{inputing `#1' instead of `#2'}%
3387 }
3388
3389 \newcommand*{\bidi@load@hook}[2]{%
3390   \ifundefined{#2-@#1}{}%
3391     \@nameuse{#2-@#1}%
3392     \expandafter\let\csname #2-@#1\endcsname=\relax}}
3393 \newcommand*{\bidi@set@load@hook}[2]{%
3394   \ifundefined{#2-@#1}{\@namedef{#2-@#1}{}}{}}%
3395   \expandafter\g@addto@macro\csname #2-@#1\endcsname}
3396 \newcommand*{\bidi@BeforeFile}{\bidi@set@load@hook{before}}
3397 \newcommand*{\bidi@AfterFile}{\bidi@set@load@hook{after}}
3398 \newcommand*{\bidi@BeforeClass}[1]{%
3399   \bidi@set@load@hook{before}{#1.\@clsextension}}
3400 \newcommand*{\bidi@AfterClass}{%
3401   \ifstar {\@s@bidi@AfterClass}{%
3402     \@ifnextchar +{\@bidi@AfterClass}%
3403     \@ifnextchar !{\@@bidi@AfterClass\bidi@AfterClass
3404       }%
3405   }%
3406 }
3407
3408 \newcommand*{\@@bidi@AfterClass}[2]{%
3409   \begingroup\ifx\csname #2.\@clsextension-h@@k\endcsname\relax
3410     \aftergroup\@s@bidi@AfterClass
3411   \else
3412     \aftergroup\bidi@AfterAtEndOfClass
3413   \fi
3414   \endgroup{#2}%
3415 }
3416
3417 \newcommand*{\bidi@AfterAtEndOfClass}[1]{%
3418   \bidi@set@load@hook{lateafter}{#1.\@clsextension}}
3419 \newcommand*{\@@bidi@AfterClass}[2]{%
3420   \begingroup
3421     \expandafter\ifx\csname #2.\@clsextension-h@@k\endcsname\relax
3422       \aftergroup\@s@bidi@AfterClass
3423     \else
3424       \aftergroup\bidi@AfterClass
3425     \fi
3426   \endgroup{#2}%
3427 }
3428

```



```

3429 \newcommand*{\@bidi@AfterClass}[1]{%
3430   \bidi@set@load@hook{after}{#1.\@clsextension}}
3431 \newcommand*{\@s@bidi@AfterClass}[1]{%
3432   \begingroup
3433     \ifclassloaded{#1}{%
3434       \aftergroup\@secondoftwo
3435     }{%
3436       \aftergroup\@bidi@AfterClass
3437     }%
3438   \endgroup
3439   {#1}%
3440 }
3441
3442
3443 \newcommand*{\bidi@BeforePackage}[1]{%
3444   \bidi@set@load@hook{before}{#1.\@pkgextension}}
3445 \newcommand*{\bidi@AfterPackage}{%
3446   \@ifstar {\@s@bidi@AfterPackage}{%
3447     \ifnextchar +{\@bidi@AfterPackage{%
3448       \ifnextchar !{\@bidi@AfterPackage\@bidi@AfterPackage
3449       }%
3450     }%
3451   }
3452 \newcommand*{\@@@bidi@AfterPackage}[2]{%
3453   \begingroup\ifx\csname #2.\@pkgextension-h@@k\endcsname\relax
3454     \aftergroup\@s@bidi@AfterPackage
3455   \else
3456     \aftergroup\bidi@AfterAtEndOfPackage
3457   \fi
3458   \endgroup{#2}%
3459 }
3460 \newcommand*{\bidi@AfterAtEndOfPackage}[1]{%
3461   \bidi@set@load@hook{lateafter}{#1.\@pkgextension}}
3462 \newcommand*{\@@@bidi@AfterPackage}[2]{%
3463   \begingroup
3464     \expandafter\ifx\csname #2.\@pkgextension-h@@k\endcsname\relax
3465       \aftergroup\@s@bidi@AfterPackage
3466     \else
3467       \aftergroup\@bidi@AfterPackage
3468     \fi
3469   \endgroup{#2}%
3470 }
3471 \newcommand*{\@bidi@AfterPackage}[1]{%
3472   \bidi@set@load@hook{after}{#1.\@pkgextension}}
3473 \newcommand*{\@s@bidi@AfterPackage}[1]{%
3474   \begingroup
3475     \ifpackageloaded{#1}{%
3476       \aftergroup\@secondoftwo
3477     }{%
3478       \aftergroup\@bidi@AfterPackage

```



```

3479     }%
3480 \endgroup
3481 {#1}%
3482 }
3483
3484 \newcommand*{\bidi@excludedpackages}{}
3485 \let\bidi@excludedpackages\@empty
3486 \newcommand*{\bidi@samed@RequirePackage}{}
3487 \newcommand*{\bidi@PreventPackageFromLoading}{%
3488   \ifstar{\@bidi@PreventPackageFromLoading\PackageInfo}%
3489     {\@bidi@PreventPackageFromLoading\PackageWarning}%
3490 }
3491 \newcommand*{\@bidi@PreventPackageFromLoading}[1]{%
3492   \ifnextchar [%]
3493     {\@bidi@PreventPackageFromLoading#1}{\@bidi@PreventPackageFromLoading#1 []}%
3494 }
3495 \newcommand*{\@bidi@PreventPackageFromLoading}{}
3496
3497 \def\@bidi@PreventPackageFromLoading#1[#2]#3{%
3498   \edef\reserved@a{\zap@space#3 \@empty}%
3499   \ifx \reserved@a\@empty
3500     #1{\bidi@tools}{%
3501       \string\bidi@PreventPackageFromLoading\space with empty packages\MessageBreak
3502       argument ignored%
3503     }%
3504   \else
3505     \ifx\bidi@excludedpackages\@empty
3506       \let\bidi@samed@RequirePackage\RequirePackage
3507       \let\RequirePackage\bidi@RequirePackage
3508       \def\reserved@a##1##{%
3509         \@latex@error
3510         {\noexpand \usepackage before \string\documentclass}%
3511         {\noexpand \usepackage may only appear in the document
3512          preamble, i.e.,\MessageBreak
3513          between \noexpand\documentclass and
3514          \string\begin{document}.}%
3515         \@gobble}%
3516       \ifx\reserved@a\usepackage\else
3517         \ifx\usepackage\bidi@samed@RequirePackage\else
3518           \PackageWarning{\bidi@tools}{%
3519             Maybe serious problem: unexpected definition of\MessageBreak
3520             \string\usepackage
3521           }%
3522         \fi
3523         \let\usepackage\RequirePackage
3524       \fi
3525     \fi
3526     \expandafter\@for \expandafter\reserved@a\expandafter:\expandafter=%
3527     \reserved@a\do {%
3528       \ifx\reserved@a\@empty

```



```

3529      #1{biditools}{%
3530      empty package argument for
3531      \string\bid@PreventPackageFromLoading\MessageBreak
3532      ignored%
3533      }%
3534      \else
3535      \expandafter\@ifpackageloaded\expandafter{\reserved@a}{%
3536      #1{biditools}{%
3537      package `\'reserved@a' already loaded.\MessageBreak
3538      Cannot prevent it from being loaded%
3539      }%
3540      }{%
3541      \edef\bid@excludedpackages{\bid@excludedpackages,%
3542      \reserved@a}%
3543      \if\relax\detokenize{#2}\relax\else
3544      \@ifundefined{bid@exclude@package@\reserved@a @do}{%
3545      \@namedef{bid@exclude@package@\reserved@a @do}{}%
3546      }{}%
3547      \expandafter\def
3548      \csname bid@exclude@package@\reserved@a
3549      @do\expandafter\expandafter\expandafter\endcsname
3550      \expandafter\expandafter\expandafter{%
3551      \csname bid@exclude@package@\reserved@a @do\endcsname
3552      #2%
3553      }%
3554      \fi
3555      }%
3556      \fi
3557      }%
3558      \ifx\bid@excludedpackages\@empty
3559      \bid@ResetPreventPackageFromLoading
3560      \fi
3561      \fi
3562      }
3563
3564      \@onlypreamble\bid@PreventPackageFromLoading
3565      \newcommand*{\bid@ResetPreventPackageFromLoading}{%
3566      \let\bid@excludedpackages\@empty
3567      \ifx\RequirePackage\bid@RequirePackage
3568      \ifx\usepackage\RequirePackage
3569      \let\usepackage\bid@saved@RequirePackage
3570      \fi
3571      \let\RequirePackage\bid@saved@RequirePackage
3572      \fi
3573      }
3574      \@onlypreamble\bid@ResetPreventPackageFromLoading
3575      \newcommand*{\bid@StorePreventPackageFromLoading}[1]{%
3576      \let#1\bid@excludedpackages
3577      }
3578      \@onlypreamble\bid@StorePreventPackageFromLoading

```



```

3579 \newcommand*{\bidi@UnPreventPackageFromLoading}{%
3580   \ifstar {\@tempswatrue\bidi@UnPreventPackageFromLoading}%
3581           {\@tempswafalse\bidi@UnPreventPackageFromLoading}%
3582 }
3583
3584 \newcommand*{\@bidi@UnPreventPackageFromLoading}[1]{%
3585   \edef\reserved@b{\zap@space#1 \@empty}%
3586   \if@tempswa
3587     \@for\reserved@a:=\reserved@b\do {%
3588       \ifx\reserved@a\@empty \else
3589         \ifcsname bidi@exclude@package@\reserved@a @do\endcsname
3590           \expandafter\let
3591           \csname bidi@exclude@package@\reserved@a @do\endcsname
3592           \undefined
3593         \fi
3594       \fi
3595     }%
3596   \fi
3597   \ifcsname bidi@excludedpackages\endcsname
3598     \let\reserved@a\bidi@excludedpackages
3599     \let\bidi@excludedpackages\@empty
3600     \expandafter\@for\expandafter\reserved@c
3601     \expandafter:\expandafter=\reserved@a
3602     \do{%
3603       \ifx\reserved@c\@empty\else
3604         \@expandtwoargs\in@{,\reserved@c,}{,\reserved@b,}%
3605         \ifin@
3606         \else
3607           \edef\bidi@excludedpackages{%
3608             \bidi@excludedpackages,\reserved@c
3609           }%
3610         \fi
3611       \fi
3612     }%
3613     \ifx\bidi@excludedpackages\@empty\bidi@ResetPreventPackageFromLoading\fi
3614   \fi
3615 }
3616
3617
3618 \newcommand*{\bidi@RequirePackage}[2][\@empty]{%
3619   \let\reserved@c\@empty
3620   \let\reserved@d\@empty
3621   \edef\reserved@b{\zap@space#2 \@empty}%
3622   \expandafter\@for\expandafter\reserved@b\expandafter:\expandafter=\reserved@b
3623   \do {%
3624     \begingroup
3625       \@tempswatrue
3626       \@for\reserved@a:=\bidi@excludedpackages\do {%
3627         \ifx\reserved@a\reserved@b
3628           \@tempswafalse

```



```

3629         \fi
3630     }%
3631     \if@tempswa
3632         \xdef\reserved@c{\reserved@c,\reserved@b}%
3633     \else
3634         \ifx\reserved@b\@empty\else
3635             \PackageInfo{biditools}{Excluding package `\'reserved@b'\MessageBreak
3636                 from loading}%
3637             \@ifundefined{bidi@exclude@package@\reserved@b @do}{%
3638                 }{%
3639                     \expandafter\g@addto@macro\expandafter\reserved@d
3640                     \csname bidi@exclude@package@\reserved@b @do\endcsname
3641                 }%
3642         \fi
3643     \fi
3644 \endgroup
3645 }%
3646 \ifx\reserved@c\@empty
3647     \let\reserved@a\bidi@gobbleopt
3648 \else
3649     \edef\reserved@a{\noexpand\bidi@saved@RequirePackage[#1]{%
3650         \expandafter\@gobble\reserved@c\@empty}}%
3651 \fi
3652 \expandafter\reserved@d
3653 \reserved@a
3654 }
3655
3656 \newcommand{\bidi@gobbleopt}[1][]{ }
3657 \AtEndDocument{%
3658     \let\bidi@saved@checkend=\@checkend
3659     \renewcommand*{\@checkend}[1]{%
3660         \def\reserved@a{#1}\def\reserved@b{document}%
3661         \bidi@saved@checkend{#1}%
3662         \ifx\reserved@a\reserved@b
3663             \let\bidi@saved@clearpage=\clearpage
3664             \renewcommand*{\clearpage}{\bidi@saved@clearpage
3665                 \bidi@hook@bcma
3666                 \bidi@restore@newpage
3667                 \let\clearpage=\bidi@saved@clearpage}%
3668         \fi%
3669         \let\bidi@saved@dofilelist\@dofilelist
3670         \def\@dofilelist{%
3671             \bidi@hook@acma
3672             \let\@dofilelist\bidi@saved@dofilelist
3673             \bidi@saved@dofilelist
3674         }%
3675     }%
3676 }
3677
3678

```



```

3679 \newcommand*{\bidi@saved@checkend}{%
3680 \newcommand*{\bidi@saved@dofilelist}{%
3681 \newcommand*{\bidi@redefine@newpage}{%
3682   \let\bidi@saved@newpage\newpage
3683   \def\bidi@restore@newpage{%
3684     \renewcommand*{\newpage}{%
3685       \PackageWarningNoLine{%
3686         biditools%
3687       }{%
3688         \string\newpage\space at main aux file!\MessageBreak
3689         You have output material at the main aux file.\MessageBreak
3690         Note, that the \string\bidi@BeforeClosingMainAux\space commands\MessageBreak
3691         are processed before the output from aux file%
3692       }%
3693       \let\newpage\bidi@saved@newpage
3694       \newpage
3695     }%
3696   }%
3697   \renewcommand*{\newpage}{%
3698     \PackageError{%
3699       biditools%
3700     }{%
3701       \string\newpage\space at \string\bidi@BeforeClosingMainAux
3702     }{%
3703       You should never use \string\newpage\space or
3704       \string\clear(double)page or other output material at the\MessageBreak
3705       argument of \string\bidi@BeforeClosingMainAux!\MessageBreak
3706       If you'll continue, the \string\newpage\space will be ignored to
3707       avoid corruption of\MessageBreak
3708       every prior use of \string\bidi@BeforeClosingMainAux.
3709     }%
3710   }%
3711 }
3712
3713 \newcommand*{\bidi@restore@newpage}{%
3714 \newcommand*{\bidi@hook@bcma}{%
3715 \newcommand*{\bidi@hook@acma}{%
3716 \newcommand*{\bidi@BeforeClosingMainAux}{%
3717   \ifx\bidi@hook@bcma\@empty
3718     \gdef\bidi@hook@bcma{%
3719       \renewcommand*{\bidi@BeforeClosingMainAux}[1]{####1}%
3720       \let\protected@write\bidi@protected@immediate@write
3721       \bidi@redefine@newpage
3722     }%
3723   \fi
3724   \g@addto@macro\bidi@hook@bcma%
3725 }
3726
3727 \newcommand*{\bidi@AfterReadingMainAux}{%
3728   \ifx\bidi@hook@acma\@empty

```



```

3729 \gdef\bidhook@acma{%
3730 \renewcommand*{\bid@AfterReadingMainAux}[1]{###1}%
3731 \let\protected@write\bid@protected@immediate@write
3732 }%
3733 \fi
3734 \g@addto@macro\bidhook@acma%
3735 }
3736
3737 \long\def\bid@protected@immediate@write#1#2#3{%
3738 \begingroup
3739 #2%
3740 \let\protect\@unexpandable@protect
3741 \edef\reserved@a{\immediate\write#1{#3}}%
3742 \reserved@a
3743 \endgroup
3744 \if@nobreak\ifvmode\nobreak\fi\fi
3745 }
3746
3747 \def\bid@patch@counter{0}%
3748 \if@bid@csundef{numexpr}{%
3749 \def\bid@patch@stepcounter{%
3750 \begingroup
3751 \count@\bid@patch@counter\relax
3752 \advance\count@\@ne\relax
3753 \edef\x{\endgroup
3754 \noexpand\def\noexpand\bid@patch@counter{\the\count@}%
3755 }%
3756 \x
3757 }%
3758 }{%
3759 \def\bid@patch@stepcounter{%
3760 \edef\bid@patch@counter{%
3761 \the\numexpr\bid@patch@counter+\@ne\relax
3762 }%
3763 }%
3764 }
3765 \def\bid@patch@list{}
3766 \def\bid@patch@Add{%
3767 \bid@appto\bid@patch@list
3768 }
3769 \def\bid@patch@AfterPackage#1{%
3770 \@ifpackageloaded{#1}{%
3771 \@firstofone
3772 }{%
3773 \bid@patch@AfterPackage{#1}%
3774 }%
3775 }
3776 \def\bid@patch@AfterPackage#1{%
3777 \edef\bid@patch@temp{#1}%
3778 \bid@patch@stepcounter

```





```

3779 \expandafter\bidipatch@@AfterPackage
3780 \csname bidipatch@\bidipatch@counter\expandafter\endcsname{%
3781   \bidipatch@temp
3782 }%
3783 }
3784 \def\bidipatch@@AfterPackage#1#2#3{%
3785   \begingroup
3786     \toks@{#3}%
3787     \xdef\bidipatch@gtemp{%
3788       \noexpand\@ifpackageloaded{#2}{%
3789         \noexpand\let\noexpand#1\noexpand\relax
3790         \the\toks@
3791       }{}%
3792     }%
3793   \endgroup
3794   \let#1\bidipatch@gtemp
3795   \bidipatch@Add#1%
3796   \bidipatch@try{\bidipatch@AfterPackage}{#2}#1%
3797 }
3798
3799 \def\bidipatch@try#1#2#3{%
3800   \if@bidipatch@csundef{#1}{}%
3801   \csname #1\endcsname{#2}{#3}%
3802 }%
3803 }
3804
3805 \AtBeginDocument{\bidipatch@list}
3806
3807 \bidipatch@AtEndPreamble{\bidipatch@list}%
3808
3809 \bidipatch@AfterEndPreamble{%
3810   \let\bidipatch@OrgIfPackageLoaded\@ifpackageloaded
3811   \let\bidipatch@OrgIfPackageLater\@ifpackagelater
3812   \let\bidipatch@OrgIfClassLoaded\@ifclassloaded
3813   \let\bidipatch@OrgIfClassLater\@ifclasslater
3814   \bidipatch@list
3815   \let\@ifpackageloaded\bidipatch@OrgIfPackageLoaded
3816   \let\@ifpackagelater\bidipatch@OrgIfPackageLater
3817   \let\@ifclassloaded\bidipatch@OrgIfClassLoaded
3818   \let\@ifclasslater\bidipatch@OrgIfClassLater
3819 }%

```

## 7.22 bidituftefloat.sty

```

3820 \NeedsTeXFormat{LaTeX2e}
3821 \ProvidesPackage{bidituftefloat}[2011/06/14 v0.1
3822   bidi implementation of tufte float]
3823 \RequirePackage{xifthen}
3824 \newcommand{\@bidituftefloat@pkgname}{bidituftefloat}
3825 \newcommand{\bidituftefloatError}[2]{\PackageError{\@bidituftefloat@pkgname}{#1}{#2}}

```



```

3826 \newcommand{\biditytfloatDebugInfoNL}[1]{\ifthenelse{\boolean{@biditytfloat@debug}}{\bidity
3827 \newcommand{\biditytfloatInfoNL}[1]{\PackageInfo{\@biditytfloat@pkgname}{#1\@gobble}}
3828 \newboolean{@biditytfloat@reversegeometry}
3829 \setboolean{@biditytfloat@reversegeometry}{false}
3830 \DeclareOption{reversegeometry}{\setboolean{@biditytfloat@reversegeometry}{true}}
3831 \newboolean{@biditytfloat@afourpaper}
3832 \DeclareOption{a4paper}{\setboolean{@biditytfloat@afourpaper}{true}}
3833 \newboolean{@biditytfloat@bfivepaper}
3834 \DeclareOption{b5paper}{\setboolean{@biditytfloat@bfivepaper}{true}}
3835 \newboolean{@biditytfloat@symmetric}
3836 \newboolean{@biditytfloat@twoside}
3837 \DeclareOption{twoside}{%
3838 \@twosidefalse \mparswitchtrue%
3839 \setboolean{@biditytfloat@twoside}{true}%
3840 \setboolean{@biditytfloat@symmetric}{true}%
3841 }
3842 \DeclareOption{oneside}{%
3843 \@twosidefalse \mparswitchfalse%
3844 \setboolean{@biditytfloat@twoside}{false}%
3845 \setboolean{@biditytfloat@symmetric}{false}%
3846 }
3847 \@ifclassloaded{book}{\ExecuteOptions{twoside}}{}
3848 \newboolean{@biditytfloat@debug}
3849 \newcommand*{\@biditytfloat@caption@justification}{\@biditytfloat@justification@autodetect}
3850 \ProcessOptions
3851 %% Globally sets the length
3852 \newcommand*{\gsetlength}[2]{%
3853   \setlength{#1}{#2}%
3854   \global#1=#1\relax%
3855 }
3856
3857 %% Set the font sizes and baselines to match biditytfloat's books
3858 \renewcommand\normalsize{%
3859   \@setfontsize\normalsize\@xpt{14}%
3860   \abovedisplayskip 10\p@ \@plus2\p@ \@minus5\p@
3861   \abovedisplayshortskip \z@ \@plus3\p@
3862   \belowdisplayshortskip 6\p@ \@plus3\p@ \@minus3\p@
3863   \belowdisplayskip \abovedisplayskip
3864   \let\@listi\@listI}
3865 \normalbaselineskip=14pt
3866 \normalsize
3867 \renewcommand\footnotesize{%
3868   \@setfontsize\footnotesize\@viipt{10}%
3869   \abovedisplayskip 6\p@ \@plus2\p@ \@minus4\p@
3870   \abovedisplayshortskip \z@ \@plus\p@
3871   \belowdisplayshortskip 3\p@ \@plus\p@ \@minus2\p@
3872   \def\@listi{\leftmargin\leftmarginI
3873             \topsep 3\p@ \@plus\p@ \@minus\p@
3874             \parsep 2\p@ \@plus\p@ \@minus\p@
3875             \itemsep \parsep}%

```



```

3876 \belowdisplayskip \abovedisplayskip
3877 }
3878 %% Paragraph indentation and separation for marginal text
3879 \newcommand{\@bidiuftefloat@margin@par}{%
3880 \setlength{\RaggedRightParindent}{0.5pc}%
3881 \setlength{\JustifyingParindent}{0.5pc}%
3882 \setlength{\parindent}{0.5pc}%
3883 \setlength{\parskip}{0pt}%
3884 }
3885 \RequirePackage{ragged2e}
3886 \ifthenelse{\boolean{@bidiuftefloat@reversegeometry}}{%
3887 \RequirePackage[letterpaper,right=1in,top=1in,headsep=2\baselineskip,textwidth=26pc,marginpar
3888 \ifthenelse{\boolean{@bidiuftefloat@afourpaper}}
3889 {\geometry{a4paper,right=24.8mm,top=27.4mm,headsep=2\baselineskip,textwidth=107mm,marginpar
3890 {}
3891 \ifthenelse{\boolean{@bidiuftefloat@bfivepaper}}
3892 {\geometry{paperwidth=176mm,paperheight=250mm,right=14.66mm,top=13.88mm,textwidth=102.66mm,
3893 {}}%
3894 \RequirePackage[letterpaper,left=1in,top=1in,headsep=2\baselineskip,textwidth=26pc,marginpars
3895 \ifthenelse{\boolean{@bidiuftefloat@afourpaper}}
3896 {\geometry{a4paper,left=24.8mm,top=27.4mm,headsep=2\baselineskip,textwidth=107mm,marginpars
3897 {}
3898 \ifthenelse{\boolean{@bidiuftefloat@bfivepaper}}
3899 {\geometry{paperwidth=176mm,paperheight=250mm,left=14.66mm,top=13.88mm,textwidth=102.66mm,m
3900 {}}}
3901 \ifthenelse{\boolean{@bidiuftefloat@symmetric}}
3902 {}
3903 {\geometry{asymmetric}}}% forces internal LaTeX `twoside'
3904 \setlength\marginparpush{10pt}
3905 %% Font for margin items
3906 \newcommand{\@bidiuftefloat@marginfont}{\normalfont\footnotesize}
3907 \newcommand*{\@bidiuftefloat@caption@font}{\@bidiuftefloat@marginfont}
3908 \newcommand*{\setcaptionfont}[1]{\renewcommand*{\@bidiuftefloat@caption@font}{#1}}
3909 \newcommand{\@bidiuftefloat@justification}{\justifying}%
3910 \setlength\abovedisplayskip{6pt plus 2pt minus 4pt}
3911 \setlength\belowdisplayskip{6pt plus 2pt minus 4pt}
3912 \newboolean{@bidiuftefloat@changepage}
3913 \IfFileExists{changepage.sty}{%
3914 \bidiuftefloatDebugInfoNL{Found changepage.sty}
3915 \RequirePackage[strict]{changepage}
3916 \setboolean{@bidiuftefloat@changepage}{true}
3917 }{%
3918 \bidiuftefloatDebugInfoNL{Found chngpage.sty}
3919 \RequirePackage[strict]{chngpage}
3920 \setboolean{@bidiuftefloat@changepage}{false}
3921 }
3922 \newboolean{@bidiuftefloat@odd@page}
3923 \setboolean{@bidiuftefloat@odd@page}{true}
3924 \newcommand*{\@bidiuftefloat@checkoddpag}{%
3925 \checkoddpag%

```



```

3926 \ifthenelse{\boolean{@bidiutfefloat@changepage}}{%
3927   \ifoddpage%
3928     \setboolean{@bidiutfefloat@odd@page}{true}%
3929   \else%
3930     \setboolean{@bidiutfefloat@odd@page}{false}%
3931   \fi%
3932 }{%
3933   \ifcpoddpage%
3934     \setboolean{@bidiutfefloat@odd@page}{true}%
3935   \else%
3936     \setboolean{@bidiutfefloat@odd@page}{false}%
3937   \fi%
3938 }%
3939 }
3940 \newlength{\@bidiutfefloat@overhang}% used by the fullwidth environment and the running head
3941 \newlength{\@bidiutfefloat@fullwidth}
3942 \newlength{\@bidiutfefloat@caption@fill}
3943 \newcommand{\bidiutfefloatRecalculate}{%
3944   \setlength{\@bidiutfefloat@overhang}{\marginparwidth}
3945   \addtolength{\@bidiutfefloat@overhang}{\marginparsep}
3946
3947   \setlength{\@bidiutfefloat@fullwidth}{\textwidth}
3948   \addtolength{\@bidiutfefloat@fullwidth}{\marginparsep}
3949   \addtolength{\@bidiutfefloat@fullwidth}{\marginparwidth}
3950
3951   \setlength{\@bidiutfefloat@caption@fill}{\textwidth}
3952   \addtolength{\@bidiutfefloat@caption@fill}{\marginparsep}
3953 }
3954 \AtBeginDocument{\bidiutfefloatRecalculate}
3955 \RequirePackage{optparams}% provides multiple optional arguments for commands
3956 \RequirePackage{placeins}
3957 \newsavebox{\@bidiutfefloat@margin@floatbox}
3958 \newenvironment{@bidiutfefloat@margin@float}[2][{-1.2ex}%
3959   {\FloatBarrier% process all floats before this point so the figure/table numbers stay in or
3960   \begin{lrbox}{\@bidiutfefloat@margin@floatbox}%
3961   \begin{minipage}{\marginparwidth}%
3962     \@bidiutfefloat@caption@font%
3963     \def\@capttype{#2}%
3964     \hbox{\vspace*{#1}%
3965     \@bidiutfefloat@caption@justification%
3966     \@bidiutfefloat@margin@par%
3967     \noindent%
3968   }
3969   {\end{minipage}%
3970   \end{lrbox}%
3971   \marginpar{\usebox{\@bidiutfefloat@margin@floatbox}}%
3972 }
3973 \newenvironment{marginfigure}[1][{-1.2ex}%
3974   {\begin{@bidiutfefloat@margin@float}[#1]{figure}}
3975   {\end{@bidiutfefloat@margin@float}}

```



```

3976 \newenvironment{margintable}[1][-1.2ex]%
3977   {\begin{@biditytfloat@margin@float}[#1]{table}}
3978   {\end{@biditytfloat@margin@float}}
3979 \newcommand*{@biditytfloat@justification@autodetect}{\justifying}%
3980
3981 \newcommand{@biditytfloat@float@debug@info}{}% contains debug info generated as the float
3982 \newcommand{@biditytfloat@float@debug}[1]{% adds debug info to the queue for output
3983   \ifthenelse{\equal{@biditytfloat@float@debug@info}{}}%
3984     {\def{@biditytfloat@float@debug@info}{#1}}%
3985     {\g@addto@macro{@biditytfloat@float@debug@info}{\MessageBreak#1}}%
3986 }
3987 \newcommand{@floatalignment}{x}% holds the current float alignment (t, b, h, p)
3988 \newcommand{@setfloatalignment}[1]{\global\def@floatalignment{#1}@biditytfloat@float@debug
3989 \newboolean{@biditytfloat@float@recto}
3990 \newcommand{@forcerectofloat}{\GlobalSetBoolean{@biditytfloat@float@recto}{true}@bidityt
3991 \newcommand{@forceversofloat}{\GlobalSetBoolean{@biditytfloat@float@recto}{false}@bidityt
3992 \newsavebox{@biditytfloat@figure@box}
3993 \newsavebox{@biditytfloat@caption@box}
3994 \let{@biditytfloat@orig@float}@float
3995 \let{@biditytfloat@orig@endfloat}@endfloat
3996 \newlength{@biditytfloat@caption@vertical@offset}
3997 \setlength{@biditytfloat@caption@vertical@offset}{0pt}
3998 \newcommand{@biditytfloat@stored@shortcaption}{}
3999 \newcommand{@biditytfloat@stored@caption}{}
4000 \newcommand{@biditytfloat@stored@label}{}
4001 \long\def@biditytfloat@caption[#1][#2]#3{%
4002   \ifthenelse{\isempty{#1}}%
4003     {\gdef@biditytfloat@stored@shortcaption{#3}}%
4004     {\gdef@biditytfloat@stored@shortcaption{#1}}%
4005     \gsetlength{@biditytfloat@caption@vertical@offset}{-#2}% we want a positive offset to lo
4006     \gdef@biditytfloat@stored@caption{#3}%
4007 }
4008 \newcommand{@biditytfloat@label}[1]{%
4009   \gdef@biditytfloat@stored@label{#1}%
4010 }
4011 \newcommand{@biditytfloat@fps}{}
4012 \newboolean{@biditytfloat@float@star}
4013 \newlength{@biditytfloat@float@contents@width}
4014 \newenvironment{@biditytfloat@float}[3][htbp]%
4015   {% begin @biditytfloat@float
4016     % Should this float be full-width or just text-width?
4017     \ifthenelse{\equal{#3}{star}}%
4018       {\GlobalSetBoolean{@biditytfloat@float@star}{true}}%
4019       {\GlobalSetBoolean{@biditytfloat@float@star}{false}}%
4020     % Check page side (recto/verso) and store detected value -- can be overridden in environme
4021     \@biditytfloat@checkoddpagelength%
4022     \ifthenelse{\boolean{@biditytfloat@odd@page}}%
4023       {\GlobalSetBoolean{@biditytfloat@float@recto}{true}@biditytfloat@float@debug{Dete
4024       {\GlobalSetBoolean{@biditytfloat@float@recto}{false}@biditytfloat@float@debug{Dete
4025     % If the float placement specifier is 'b' and only 'b', then bottom-align the mini-pages,

```



```

4026 \renewcommand{\@bidiutefloat@fps}{#1}%
4027 \@bidiutefloat@float@debug{Allowed positions: [#1]}%
4028 \ifthenelse{\equal{#1}{b}\OR\equal{#1}{B}}%
4029   {\renewcommand{\floatalignment}{b}\@bidiutefloat@float@debug{Presumed position: [bottom]}}%
4030   {\renewcommand{\floatalignment}{t}\@bidiutefloat@float@debug{Presumed position: [top]}}%
4031 % Capture the contents of the \caption and \label commands to use later
4032 \global\let\@bidiutefloat@orig@caption\caption%
4033 \global\let\@bidiutefloat@orig@label\label%
4034 \renewcommand{\caption}{\optparams{\@bidiutefloat@caption}{[] [Opt]}}%
4035 \renewcommand{\label}[1]{\@bidiutefloat@label{##1}}%
4036 % Handle subfigure package compatibility
4037 \ifthenelse{\boolean{\@bidiutefloat@packages@subfigure}}{%
4038   % don't move the label while inside a \subfigure or \subtable command
4039   \global\let\label\@bidiutefloat@orig@label%
4040 }{% subfigure package is not loaded
4041   \@bidiutefloat@orig@float{#2}[#1]%
4042   \ifthenelse{\boolean{\@bidiutefloat@float@star}}%
4043     {\setlength{\@bidiutefloat@float@contents@width}{\@bidiutefloat@fullwidth}}%
4044     {\setlength{\@bidiutefloat@float@contents@width}{\textwidth}}%
4045   \begin{lrbox}{\@bidiutefloat@figure@box}%
4046     \begin{minipage}[\floatalignment]{\@bidiutefloat@float@contents@width}\hbox{}%
4047 }{% end \@bidiutefloat@float
4048   \par\hbox{}\vspace{-\baselineskip}\ifthenelse{\prevdepth>0}{\vspace{-\prevdepth}}{}% al
4049   \end{minipage}%
4050   \end{lrbox}%
4051 % build the caption box
4052 \begin{lrbox}{\@bidiutefloat@caption@box}%
4053   \begin{minipage}[\floatalignment]{\marginparwidth}\hbox{}%
4054     \ifthenelse{\NOT\equal{\@bidiutefloat@stored@caption}{}}{\@bidiutefloat@orig@caption}%
4055     \ifthenelse{\NOT\equal{\@bidiutefloat@stored@label}{}}{\@bidiutefloat@orig@label}%
4056     \par\vspace{-\prevdepth}% TODO: DOUBLE-CHECK FOR SAFETY
4057   \end{minipage}%
4058   \end{lrbox}%
4059 % now typeset the stored boxes
4060 \begin{fullwidth}%
4061   \begin{minipage}[\floatalignment]{\linewidth}%
4062     \ifthenelse{\boolean{\@bidiutefloat@float@star}}%
4063       {\@bidiutefloat@float@fullwidth[\@bidiutefloat@caption@vertical@offset]{\@bidiutefloat@float@textwidth[\@bidiutefloat@caption@vertical@offset]{\@bidiutefloat@float@contents@width}}}%
4064       {\@bidiutefloat@float@textwidth[\@bidiutefloat@caption@vertical@offset]{\@bidiutefloat@float@contents@width}}%
4065   \end{minipage}%
4066 \end{fullwidth}%
4067 \@bidiutefloat@orig@endfloat% end original LaTeX float environment
4068 % output debug info
4069 \ifthenelse{\boolean{\@bidiutefloat@debug}}{%
4070   \typeout{^^J^^J----- bidiutefloat package float information -----}%
4071   \ifthenelse{\equal{\@bidiutefloat@stored@label}{}}%
4072     {\typeout{Warning: Float unlabeled!}}%
4073     {\typeout{Float label: [\@bidiutefloat@stored@label]}}%
4074   \typeout{Page number: [\thepage]}%
4075   \def\MessageBreak{^^J}%

```



```

4076 \typeout{\@biditytfloat@float@debug@info}%
4077 \ifthenelse{\boolean{@biditytfloat@symmetric}}{%
4078   {\typeout{Symmetric: [true]}}%
4079   {\typeout{Symmetric: [false]}}%
4080 \typeout{-----^^J^^J}%
4081 }}%
4082 % reset commands and temp boxes and captions
4083 \gdef\@biditytfloat@float@debug@info{}%
4084 \let\caption\@biditytfloat@orig@caption%
4085 \let\label\@biditytfloat@orig@label%
4086 \begin{lrbox}{\@biditytfloat@figure@box}\hbox{}\end{lrbox}%
4087 \begin{lrbox}{\@biditytfloat@caption@box}\hbox{}\end{lrbox}%
4088 \gdef\@biditytfloat@stored@shortcaption{}%
4089 \gdef\@biditytfloat@stored@caption{}%
4090 \gdef\@biditytfloat@stored@label{}%
4091 \gsetlength{\@biditytfloat@caption@vertical@offset}{0pt}% reset caption offset
4092 }
4093 \newcommand{\@biditytfloat@float@textwidth}[3][0pt]{%
4094 \ifthenelse{\NOT\boolean{@biditytfloat@symmetric}}\OR\boolean{@biditytfloat@float@recto}%
4095 % asymmetric or page is odd, so caption is on the right
4096 \hbox{%
4097   \usebox{#2}%
4098   \hspace{\marginparsep}%
4099   \smash{\raisebox{#1}{\usebox{#3}}}%
4100 }
4101 \@biditytfloat@float@debug{Caption position: [right]}%
4102 }{% symmetric pages and page is even, so caption is on the left
4103 \hbox{%
4104   \smash{\raisebox{#1}{\usebox{#3}}}%
4105   \hspace{\marginparsep}%
4106   \usebox{#2}%
4107 }
4108 \@biditytfloat@float@debug{Caption position: [left]}%
4109 }%
4110 }
4111 \newcommand{\@biditytfloat@float@fullwidth}[3][0pt]{%
4112 \ifthenelse{\equal{\floatalignment}{b}}{%
4113   {% place caption above figure
4114     \ifthenelse{\NOT\boolean{@biditytfloat@symmetric}}\OR\boolean{@biditytfloat@float@re}%
4115     {\hfill\smash{\raisebox{#1}{\usebox{#3}}}\par\usebox{#2}\@biditytfloat@float@debug{
4116       {\smash{\raisebox{#1}{\usebox{#3}}}\hfill\par\usebox{#2}\@biditytfloat@float@debug{
4117       }% place caption below figure
4118       \ifthenelse{\NOT\boolean{@biditytfloat@symmetric}}\OR\boolean{@biditytfloat@float@re}%
4119       {\usebox{#2}\par\hfill\smash{\raisebox{#1}{\usebox{#3}}}\@biditytfloat@float@debug{
4120       {\usebox{#2}\par\smash{\raisebox{#1}{\usebox{#3}}}\hfill\@biditytfloat@float@debug{
4121       }%
4122     }
4123 \renewenvironment{figure}[1][htbp]%
4124 {\ifvmode\else\unskip\fi\begin{@biditytfloat@float}[#1]{figure}{}}
4125 {\end{@biditytfloat@float}}

```



```

4126 \renewenvironment{table}[1][htbp]
4127   {\ifvmode\else\unskip\fi\begin{@biditytfloat@float}[#1]{table}{}}
4128   {\end{@biditytfloat@float}}
4129 \renewenvironment{figure*}[1][htbp]%
4130   {\ifvmode\else\unskip\fi\begin{@biditytfloat@float}[#1]{figure}{star}}
4131   {\end{@biditytfloat@float}}
4132 \renewenvironment{table*}[1][htbp]%
4133   {\ifvmode\else\unskip\fi\begin{@biditytfloat@float}[#1]{table}{star}}
4134   {\end{@biditytfloat@float}}
4135 \newenvironment{fullwidth}
4136   {\ifthenelse{\boolean{@biditytfloat@symmetric}}%
4137     {\ifthenelse{\boolean{@biditytfloat@changepage}}{\begin{adjustwidth*}{-}\@biditytfloat@overhang}}%
4138     {\begin{adjustwidth}{-}\@biditytfloat@overhang}}%
4139   }%
4140   {\ifthenelse{\boolean{@biditytfloat@symmetric}}%
4141     {\ifthenelse{\boolean{@biditytfloat@changepage}}{\end{adjustwidth*}}{\end{adjustwidth}}}%
4142     {\end{adjustwidth}}}%
4143   }
4144 \long\def\@caption#1[#2]#3{%
4145   \par%
4146   \addcontentsline{\csname ext@#1\endcsname}{#1}%
4147     {\protect\numberline{\csname the#1\endcsname}{\ignorespaces #2}}%
4148   \begingroup%
4149     \@parboxrestore%
4150     \if@minipage%
4151       \setminipage%
4152     \fi%
4153     \@biditytfloat@caption@font\@biditytfloat@caption@justification%
4154     \noindent\csname fnum@#1\endcsname: \ignorespaces#3\par%
4155     %\@makecaption{\csname fnum@#1\endcsname}{\ignorespaces #3}\par
4156   \endgroup}
4157 %%
4158 % Turns newlines into spaces. Based on code from the `titlesec' package.
4159 \DeclareRobustCommand{\@biditytfloat@newlinetospace}{%
4160   \ifstar{\@biditytfloat@newlinetospace@i}{\@biditytfloat@newlinetospace@i}%
4161 }
4162 \def\@biditytfloat@newlinetospace@i{%
4163   \ifdim\lastskip>z@\else\space\fi
4164   \ignorespaces%
4165 }
4166 \DeclareRobustCommand{\newlinetospace}[1]{%
4167   \let\@biditytfloat@orig@cr\% save the original meaning of \
4168   \def\{\@biditytfloat@newlinetospace}% turn \ and \* into \space
4169   \let\newline\% turn \newline into \space
4170   #1%
4171   \let\\\@biditytfloat@orig@cr% revert to original meaning of \
4172 }
4173 \RequirePackage{fancyhdr}
4174 \pagestyle{fancy}
4175 \AtBeginDocument{%

```





```

4176 \ifthenelse{\boolean{@bidiutfefloat@symmetric}}
4177   {\fancyhfoffset[LE,RO]{\@bidiutfefloat@overhang}}
4178   {\fancyhfoffset[RE,RO]{\@bidiutfefloat@overhang}}
4179 }
4180 % The running heads/feet don't have rules
4181 \renewcommand{\headrulewidth}{0pt}
4182 \renewcommand{\footrulewidth}{0pt}
4183 % The 'fancy' page style is the default style for all pages.
4184 \fancyhf{} % clear header and footer fields
4185   \ifthenelse{\boolean{@bidiutfefloat@symmetric}}
4186     {\fancyhead[LE]{\thepage\quad\textsl{\newlinetospace{\plainauthor}}}%
4187     \fancyhead[RO]{\textsl{\newlinetospace{\plaintitle}}\quad\thepage}}%
4188     {\fancyhead[RE,RO]{\textsl{\newlinetospace{\plaintitle}}\quad\thepage}}%
4189 % The 'plain' page style is used on chapter opening pages.
4190 % In Tufte's /Beautiful Evidence/ he never puts page numbers at the
4191 % bottom of pages -- the folios are unexpressed.
4192 \fancypagestyle{plain}{
4193   \fancyhf{} % clear header and footer fields
4194   % Uncomment the following five lines of code if you want the opening page
4195   % of the chapter to express the folio in the lower outside corner.
4196   % \ifthenelse{\boolean{@bidiutfefloat@symmetric}}
4197   %   {\fancyfoot[LE,RO]{\thepage}}
4198   %   {\fancyfoot[RE,RO]{\thepage}}
4199 }
4200 % The 'empty' page style suppresses all headers and footers.
4201 % It's used on title pages and 'intentionally blank' pages.
4202 \fancypagestyle{empty}{
4203   \fancyhf{} % clear header and footer fields
4204 }
4205 \def\morefloats{% provides a total of 52 floats
4206   \ifthenelse{\isundefined{\bx@S}}{%
4207     \bidiutfefloatDebugInfoNL{Adding 34 more float slots.}
4208     \newinsert\bx@S
4209     \newinsert\bx@T
4210     \newinsert\bx@U
4211     \newinsert\bx@V
4212     \newinsert\bx@W
4213     \newinsert\bx@X
4214     \newinsert\bx@Y
4215     \newinsert\bx@Z
4216     \newinsert\bx@a
4217     \newinsert\bx@b
4218     \newinsert\bx@c
4219     \newinsert\bx@d
4220     \newinsert\bx@e
4221     \newinsert\bx@f
4222     \newinsert\bx@g
4223     \newinsert\bx@h
4224     \newinsert\bx@i
4225     \newinsert\bx@j

```



```

4226 \newinsert\bx@k
4227 \newinsert\bx@l
4228 \newinsert\bx@m
4229 \newinsert\bx@n
4230 \newinsert\bx@o
4231 \newinsert\bx@p
4232 \newinsert\bx@q
4233 \newinsert\bx@r
4234 \newinsert\bx@s
4235 \newinsert\bx@t
4236 \newinsert\bx@u
4237 \newinsert\bx@v
4238 \newinsert\bx@w
4239 \newinsert\bx@x
4240 \newinsert\bx@y
4241 \newinsert\bx@z
4242 \gdef\@freelist{\@elt\bx@A\@elt\bx@B\@elt\bx@C\@elt\bx@D\@elt\bx@E
4243 \@elt\bx@F\@elt\bx@G\@elt\bx@H\@elt\bx@I\@elt\bx@J
4244 \@elt\bx@K\@elt\bx@L\@elt\bx@M\@elt\bx@N
4245 \@elt\bx@O\@elt\bx@P\@elt\bx@Q\@elt\bx@R
4246 \@elt\bx@S\@elt\bx@T\@elt\bx@U\@elt\bx@V
4247 \@elt\bx@W\@elt\bx@X\@elt\bx@Y\@elt\bx@Z
4248 \@elt\bx@a\@elt\bx@b\@elt\bx@c\@elt\bx@d\@elt\bx@e
4249 \@elt\bx@f\@elt\bx@g\@elt\bx@h\@elt\bx@i\@elt\bx@j
4250 \@elt\bx@k\@elt\bx@l\@elt\bx@m\@elt\bx@n
4251 \@elt\bx@o\@elt\bx@p\@elt\bx@q\@elt\bx@r
4252 \@elt\bx@s\@elt\bx@t\@elt\bx@u\@elt\bx@v
4253 \@elt\bx@w\@elt\bx@x\@elt\bx@y\@elt\bx@z}%
4254 }{% we've already added another 34 floats, so we'll add 26 more, but that's it!
4255 \ifthenelse{isundefined{\bx@AA}}{%
4256 \biditytfloatDebugInfoNL{Adding 26 more float slots.}
4257 \newinsert\bx@AA
4258 \newinsert\bx@BB
4259 \newinsert\bx@CC
4260 \newinsert\bx@DD
4261 \newinsert\bx@EE
4262 \newinsert\bx@FF
4263 \newinsert\bx@GG
4264 \newinsert\bx@HH
4265 \newinsert\bx@II
4266 \newinsert\bx@JJ
4267 \newinsert\bx@KK
4268 \newinsert\bx@LL
4269 \newinsert\bx@MM
4270 \newinsert\bx@NN
4271 \newinsert\bx@OO
4272 \newinsert\bx@PP
4273 \newinsert\bx@QQ
4274 \newinsert\bx@RR
4275 \newinsert\bx@SS

```



```

4276 \newinsert\bx@TT
4277 \newinsert\bx@UU
4278 \newinsert\bx@VV
4279 \newinsert\bx@WW
4280 \newinsert\bx@XX
4281 \newinsert\bx@YY
4282 \newinsert\bx@ZZ
4283 \gdef\@freelist{\@elt\bx@A\@elt\bx@B\@elt\bx@C\@elt\bx@D\@elt\bx@E
4284 \@elt\bx@F\@elt\bx@G\@elt\bx@H\@elt\bx@I\@elt\bx@J
4285 \@elt\bx@K\@elt\bx@L\@elt\bx@M\@elt\bx@N
4286 \@elt\bx@O\@elt\bx@P\@elt\bx@Q\@elt\bx@R
4287 \@elt\bx@S\@elt\bx@T\@elt\bx@U\@elt\bx@V
4288 \@elt\bx@W\@elt\bx@X\@elt\bx@Y\@elt\bx@Z
4289 \@elt\bx@a\@elt\bx@b\@elt\bx@c\@elt\bx@d\@elt\bx@e
4290 \@elt\bx@f\@elt\bx@g\@elt\bx@h\@elt\bx@i\@elt\bx@j
4291 \@elt\bx@k\@elt\bx@l\@elt\bx@m\@elt\bx@n
4292 \@elt\bx@o\@elt\bx@p\@elt\bx@q\@elt\bx@r
4293 \@elt\bx@s\@elt\bx@t\@elt\bx@u\@elt\bx@v
4294 \@elt\bx@w\@elt\bx@x\@elt\bx@y\@elt\bx@z
4295 \@elt\bx@AA\@elt\bx@BB\@elt\bx@CC\@elt\bx@DD\@elt\bx@EE
4296 \@elt\bx@FF\@elt\bx@GG\@elt\bx@HH\@elt\bx@II\@elt\bx@JJ
4297 \@elt\bx@KK\@elt\bx@LL\@elt\bx@MM\@elt\bx@NN
4298 \@elt\bx@OO\@elt\bx@PP\@elt\bx@QQ\@elt\bx@RR
4299 \@elt\bx@SS\@elt\bx@TT\@elt\bx@UU\@elt\bx@VV
4300 \@elt\bx@WW\@elt\bx@XX\@elt\bx@YY\@elt\bx@ZZ}%
4301 }{%
4302 \biditytfloatError{You may only call \string\morefloats\space twice. See the\MessageB
4303 {There are already 78 float slots allocated. Try using \string\FloatBarrier\space or\
4304 }%
4305 }%
4306 }
4307 \newboolean{@biditytfloat@packages@subfigure}
4308 \setboolean{@biditytfloat@packages@subfigure}{false}
4309 \AtBeginDocument{%
4310 \ifpackageloaded{subfigure}
4311 {\GlobalSetBoolean{@biditytfloat@packages@subfigure}{true}}
4312 {\GlobalSetBoolean{@biditytfloat@packages@subfigure}{false}}%
4313 }
4314 \AtBeginDocument{%
4315 \ifpackageloaded{float}{%
4316 % Save the redefined float environment (instead of the LaTeX float environment)
4317 \let\@biditytfloat@orig@float\float
4318 \let\@biditytfloat@orig@endfloat\endfloat
4319
4320 % Define Tuftian float styles (with the caption in the margin)
4321 \newcommand{\floatc@biditytfloatplain}[2]{%
4322 \begin{lrbox}{\@biditytfloat@caption@box}%
4323 \begin{minipage}[floatalignment]{\marginparwidth}\hbox{%
4324 \@biditytfloat@caption@font{\@fs@cfont #1:} #2\par%
4325 \end{minipage}%

```



```

4326 \end{lrbox}%
4327 \smash{\hspace{\@biditytfloat@caption@fill}\usebox{\@biditytfloat@caption@box}}%
4328 }
4329 \newcommand{\fs@biditytfloatplain}{%
4330 \def\@fs@cfont{\@biditytfloat@caption@font}%
4331 \let\@fs@capt\floatc@biditytfloatplain%
4332 \def\@fs@pre{}%
4333 \def\@fs@post{}%
4334 \def\@fs@mid{}%
4335 \let\@fs@iftopcapt\iftrue%
4336 }
4337 \let\fs@biditytfloatplaintop=\fs@biditytfloatplain
4338 \let\floatc@biditytfloatplaintop=\floatc@biditytfloatplain
4339 \newcommand\floatc@biditytfloatruled[2]{%
4340 {\@fs@cfont #1} #2\par%
4341 }
4342 \newcommand\fs@biditytfloatruled{%
4343 \def\@fs@cfont{\@biditytfloat@caption@font}%
4344 \let\@fs@capt\floatc@biditytfloatplain%
4345 \def\@fs@pre{\hrule height.8pt depth0pt width\textwidth \kern2pt}%
4346 \def\@fs@post{\kern2pt\hrule width\textwidth\relax}%
4347 \def\@fs@mid{}%
4348 \let\@fs@iftopcapt\iftrue%
4349 }
4350 \newcommand\fs@biditytfloatboxed{%
4351 \def\@fs@cfont{}%
4352 \let\@fs@capt\floatc@biditytfloatplain%
4353 \def\@fs@pre{%
4354 \setbox\@currbox\vbox{\hbadness10000
4355 \moveleft3.4pt\vbox{\advance\hsize by6.8pt
4356 \hrule \hbox to\hsize{\vrule\kern3pt
4357 \vbox{\kern3pt\box\@currbox\kern3pt}\kern3pt\vrule}\hrule}}
4358 }%
4359 \def\@fs@mid{\kern2pt}%
4360 \def\@fs@post{}%
4361 \let\@fs@iftopcapt\iftrue%
4362 }
4363 }{%
4364 % Nothing to do
4365 }
4366 }
4367 \AtBeginDocument{%
4368 \ifpackageloaded{algorithm}{%
4369 % Set the float style to the Tufte version
4370 \ifthenelse{\equal{\ALG@floatstyle}{plain}}{\OR\equal{\ALG@floatstyle}{ruled}}{\OR\equal{\ALG@floatstyle}{ALG}}
4371 \biditytfloatInfoNL{Switching algorithm float style from \ALG@floatstyle\MessageBreak
4372 \floatstyle{biditytfloat\ALG@floatstyle}%
4373 \restylefloat{algorithm}%
4374 }{}%
4375 }{%

```



```

4376 % Nothing to do
4377 }
4378 }
4379 \PassOptionsToPackage{caption=false}{subfig}

```

## 7.23 **bidituftesidenote.sty**

```

4380 \NeedsTeXFormat{LaTeX2e}
4381 \ProvidesPackage{bidituftesidenote}[2015/04/30 v0.3
4382 bidi implementation of tufte sidenote]
4383 \RequirePackage{xifthen}
4384 \RequirePackage{ragged2e}
4385 \RequirePackage{setspace}
4386 \RequirePackage{biditools}
4387 \def\bidituftesidenotemarginpar{%
4388   \ifhmode
4389     \@bsphack
4390     \@floatpenalty -\@Mii
4391   \else
4392     \@floatpenalty-\@Miii
4393   \fi
4394   \ifinner
4395     \@parmoderr
4396     \@floatpenalty\z@
4397   \else
4398     \@next\@currbox\@freelist{}\{}%
4399     \@next\@marbox\@freelist{\global\count\@marbox\m@ne}%
4400     {\@floatpenalty\z@
4401       \@fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}%
4402   \fi
4403   \@ifnextchar [\@bidituftesidenotexmpar\@bidituftesidenoteympar}
4404 \long\def\@bidituftesidenotexmpar[#1]#2{%
4405   \@bidituftesidenotesavemarbox\@marbox{#1}%
4406   \@bidituftesidenotesavemarbox\@currbox{#2}%
4407   \@xympar}
4408 \long\def\@bidituftesidenoteympar#1{%
4409   \@bidituftesidenotesavemarbox\@marbox{#1}%
4410   \global\setbox\@currbox\copy\@marbox
4411   \@xympar}
4412 \long\def \@bidituftesidenotesavemarbox #1#2{%
4413   \global\setbox #1%
4414     \color@vbox
4415       \vtop{%
4416         \hsize\marginparwidth
4417         \@parboxrestore
4418         \@bidituftesidenotemarginparreset
4419         #2%
4420         \@minipagefalse
4421         \outer@nobreak
4422       }%

```



```

4423     \color@endbox
4424 }
4425 \def \@bidityftesidenotemarginparreset {%
4426     \reset@font
4427     \normalsize
4428     \@minipagetrue
4429     \everypar{\@minipagefalse\everypar{}\if@RTL@footnote\beginR\else\beginL\fi}%
4430 }
4431 \def\LTRbidityftesidenotemarginpar{%
4432     \ifhmode
4433     \@@bsphack
4434     \@floatpenalty -\@Mii
4435     \else
4436     \@floatpenalty-\@Miii
4437     \fi
4438     \ifinner
4439     \@parmoderr
4440     \@floatpenalty\z@
4441     \else
4442     \@next\@currbox\@freelist{}\fi}%
4443     \@next\@marbox\@freelist{\global\count\@marbox\m@ne}%
4444     {\@floatpenalty\z@
4445     \@fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}}%
4446 \fi
4447 \@@ifnextchar [\@LTRbidityftesidenotexmpar\@LTRbidityftesidenoteympar}
4448 \long\def\@LTRbidityftesidenotexmpar[#1]#2{%
4449     \@LTRbidityftesidenotesavemarbox\@marbox{#1}%
4450     \@LTRbidityftesidenotesavemarbox\@currbox{#2}%
4451     \@xympar}
4452 \long\def\@LTRbidityftesidenoteympar#1{%
4453     \@LTRbidityftesidenotesavemarbox\@marbox{#1}%
4454     \global\setbox\@currbox\copy\@marbox
4455     \@xympar}
4456 \long\def \@LTRbidityftesidenotesavemarbox #1#2{%
4457     \global\setbox #1%
4458     \color@vbox
4459     \vtop{%
4460         \hsize\marginparwidth
4461         \@parboxrestore
4462         \@LTRbidityftesidenotemarginparreset
4463         #2%
4464         \@minipagefalse
4465         \outer@nobreak
4466     }%
4467     \color@endbox
4468 }
4469 \def \@LTRbidityftesidenotemarginparreset {%
4470     \reset@font
4471     \normalsize
4472     \@minipagetrue

```



```

4473         \everypar{\@minipagefalse\everypar{}\beginL}%
4474 }
4475 \def\RTLbidityftesidenotemarginpar{%
4476   \ifhmode
4477     \@bsphack
4478     \@floatpenalty -\@Mii
4479   \else
4480     \@floatpenalty-\@Miii
4481   \fi
4482   \ifinner
4483     \@parmoderr
4484     \@floatpenalty\z@
4485   \else
4486     \@next\@currbox\@freelist{}\{}%
4487     \@next\@marbox\@freelist{\global\count\@marbox\m@ne}%
4488     {\@floatpenalty\z@
4489       \@fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}%
4490   \fi
4491   \@ifnextchar [\@RTLbidityftesidenotexmpar\@RTLbidityftesidenoteympar}
4492 \long\def\@RTLbidityftesidenotexmpar[#1]#2{%
4493   \@RTLbidityftesidenotesavemarbox\@marbox{#1}%
4494   \@RTLbidityftesidenotesavemarbox\@currbox{#2}%
4495   \@xympar}
4496 \long\def\@RTLbidityftesidenoteympar#1{%
4497   \@RTLbidityftesidenotesavemarbox\@marbox{#1}%
4498   \global\setbox\@currbox\copy\@marbox
4499   \@xympar}
4500 \long\def \@RTLbidityftesidenotesavemarbox #1#2{%
4501   \global\setbox #1%
4502     \color@vbox
4503     \vtop{%
4504       \hsize\marginparwidth
4505       \@parboxrestore
4506       \@RTLbidityftesidenotemarginparreset
4507       #2%
4508       \@minipagefalse
4509       \outer@nobreak
4510     }%
4511   \color@endbox
4512 }
4513 \def \@RTLbidityftesidenotemarginparreset {%
4514   \reset@font
4515   \normalsize
4516   \@minipagetrue
4517   \everypar{\@minipagefalse\everypar{}\beginR}%
4518 }
4519 \newcommand*{\@bidityftesidenote@marginfont}{\normalfont\footnotesize}
4520 \newcommand*{\@bidityftesidenote@LTRmarginfont}{\normalfont\footnotesize}
4521 \newcommand*{\@bidityftesidenote@RTLmarginfont}{\normalfont\footnotesize}
4522 \newcommand*{\@bidityftesidenote@sidenote@font}{\@bidityftesidenote@marginfont}

```



```

4523 \newcommand*{\@bidiuftesidenote@LTRsidenote@font}{\@bidiuftesidenote@LTRmarginfont}
4524 \newcommand*{\@bidiuftesidenote@RTLsidenote@font}{\@bidiuftesidenote@RTLmarginfont}
4525 \newcommand*{\@bidiuftesidenote@marginnote@font}{\@bidiuftesidenote@marginfont}
4526 \newcommand*{\@bidiuftesidenote@LTRmarginnote@font}{\@bidiuftesidenote@LTRmarginfont}
4527 \newcommand*{\@bidiuftesidenote@RTLmarginnote@font}{\@bidiuftesidenote@RTLmarginfont}
4528 \newcommand*{\@bidiuftesidenote@citation@font}{\@bidiuftesidenote@marginfont}
4529 \newcommand*{\@bidiuftesidenote@LTRcitation@font}{\@bidiuftesidenote@LTRmarginfont}
4530 \newcommand*{\@bidiuftesidenote@RTLcitation@font}{\@bidiuftesidenote@RTLmarginfont}
4531 \newcommand*{\setsidenotefont}[1]{\renewcommand*{\@bidiuftesidenote@sidenote@font}{#1}}
4532 \newcommand*{\setLTRsidenotefont}[1]{\renewcommand*{\@bidiuftesidenote@LTRsidenote@font}{#1}}
4533 \newcommand*{\setRTLsidenotefont}[1]{\renewcommand*{\@bidiuftesidenote@RTLsidenote@font}{#1}}
4534 \newcommand*{\setmarginnotefont}[1]{\renewcommand*{\@bidiuftesidenote@marginnote@font}{#1}}
4535 \newcommand*{\setLTRmarginnotefont}[1]{\renewcommand*{\@bidiuftesidenote@LTRmarginnote@font}}
4536 \newcommand*{\setRTLmarginnotefont}[1]{\renewcommand*{\@bidiuftesidenote@RTLmarginnote@font}}
4537 \newcommand*{\setcitationfont}[1]{\renewcommand*{\@bidiuftesidenote@citation@font}{#1}}
4538 \newcommand*{\setLTRcitationfont}[1]{\renewcommand*{\@bidiuftesidenote@LTRcitation@font}{#1}}
4539 \newcommand*{\setRTLcitationfont}[1]{\renewcommand*{\@bidiuftesidenote@RTLcitation@font}{#1}}
4540 \newcommand*{\@bidiuftesidenote@sidenote@justification}{\@bidiuftesidenote@justification@au}
4541 \newcommand*{\@bidiuftesidenote@marginnote@justification}{\@bidiuftesidenote@justification@}
4542 \newcommand*{\@bidiuftesidenote@citation@justification}{\@bidiuftesidenote@justification@au}
4543 \newcommand*{\@bidiuftesidenote@justification@autodetect}{\justifying}%
4544 \newcommand{\@bidiuftesidenote@margin@par}{%
4545   \setlength{\RaggedRightParindent}{0.5pc}%
4546   \setlength{\JustifyingParindent}{0.5pc}%
4547   \setlength{\parindent}{0.5pc}%
4548   \setlength{\parskip}{0pt}%
4549 }
4550 %%
4551 % Globally sets the length
4552 \@ifundefined{gsetlength}{%
4553 \newcommand*{\gsetlength}[2]{%
4554   \setlength{#1}{#2}%
4555   \global#1=#1\relax%
4556 }%
4557 }{}
4558
4559 %%
4560 % A function that removes leading and trailing spaces from the supplied macro.
4561 % Based on code written by Michael Downes (See ``Around the Bend'', #15.)
4562 % Executing \@bidiuftesidenote@trim@spaces\xyzzy will result in the contents of \xyzzy
4563 % being trimmed of leading and trailing white space.
4564 \catcode`\Q=3
4565 \def\@bidiuftesidenote@trim@spaces#1{%
4566   % Use grouping to emulate a multi-token afterassignment queue
4567   \begingroup%
4568   % Put ``\toks 0 {' into the afterassignment queue
4569   \aftergroup\toks\aftergroup0\aftergroup{%
4570   % Apply \trimb to the replacement text of #1, adding a leading
4571   % \noexpand to prevent brace stripping and to serve another purpose
4572   % later.

```





```

4573 \expandafter\@bidityftesidenote@trim@b\expandafter\noexpand#1Q Q}%
4574 % Transfer the trimmed text back into #1.
4575 \edef#1{\the\toks0}%
4576 }
4577 % \trimb removes a trailing space if present, then calls \@bidityftesidenote@trim@c to
4578 % clean up any leftover bizarre Qs, and trim a leading space. In
4579 % order for \trimc to work properly we need to put back a Q first.
4580 \def\@bidityftesidenote@trim@b#1 Q{\@bidityftesidenote@trim@c#1Q}
4581 % Execute \vfuzz assignment to remove leading space; the \noexpand
4582 % will now prevent unwanted expansion of a macro or other expandable
4583 % token at the beginning of the trimmed text. The \endgroup will feed
4584 % in the \aftergroup tokens after the \vfuzz assignment is completed.
4585 \def\@bidityftesidenote@trim@c#1Q#2{\afterassignment\endgroup \vfuzz\the\vfuzz#1}
4586 \catcode\Q=11
4587 %%
4588 % Citations should go in the margin as sidenotes
4589
4590 \RequirePackage{natbib}
4591 \RequirePackage{bibentry} % allows bibitems to be typeset outside thebibliography envi
4592 % Redefine the \BR@b@bibitem command to fix a bug with bibentry+chicago style
4593 \renewcommand\BR@b@bibitem[2] []{%
4594   \ifthenelse{\isempty{#1}}{%
4595     {\BR@bibitem{#2}}%
4596     {\BR@bibitem{#1}{#2}}%
4597   \BR@c@bibitem{#2}%
4598 }
4599 \bidi@AtEndPreamble{\nobibliography*} % pre-loads the bibliography keys
4600 %%
4601 % Normal \cite behavior
4602 \newcounter{@bidityftesidenote@num@bibkeys}%
4603 \newcommand{\@bidityftesidenote@normal@cite}[2] [Opt]{%
4604   % Snag the last bibentry in the list for later comparison
4605   \let\@temp@last@bibkey\empty%
4606   \@for\@temp@bibkey:=#2\do{\let\@temp@last@bibkey\@temp@bibkey}%
4607   \sidenote[] [#1]{%
4608     % Loop through all the bibentries, separating them with semicolons and spaces
4609     \normalsize\normalfont\@bidityftesidenote@citation@font%
4610     \setcounter{@bidityftesidenote@num@bibkeys}{0}%
4611     \@for\@temp@bibkeyx:=#2\do{%
4612       \ifthenelse{\equal{\@temp@last@bibkey}{\@temp@bibkeyx}}{%
4613         {\ifthenelse{\equal{\value{@bidityftesidenote@num@bibkeys}}{0}}{\{}{and\ }}%
4614         \@bidityftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
4615         \bibentry{\@temp@bibkeyx}}%
4616         {\@bidityftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
4617         \bibentry{\@temp@bibkeyx};\ }}%
4618       \stepcounter{@bidityftesidenote@num@bibkeys}%
4619     }%
4620   }%
4621 }
4622 \newcommand{\@bidityfteLTRsidenote@normal@cite}[2] [Opt]{%

```



```

4623 % Snag the last bibentry in the list for later comparison
4624 \let\@temp@last@bibkey\@empty%
4625 \@for\@temp@bibkey:=#2\do{\let\@temp@last@bibkey\@temp@bibkey}%
4626 \LTRsidenote[] [#1]{%
4627   % Loop through all the bibentries, separating them with semicolons and spaces
4628   \normalsize\normalfont\@bidityftesidenote@LTRcitation@font%
4629   \setcounter{@bidityftesidenote@num@bibkeys}{0}%
4630   \@for\@temp@bibkeyx:=#2\do{%
4631     \ifthenelse{\equal{\@temp@last@bibkey}{\@temp@bibkeyx}}%
4632       {\ifthenelse{\equal{\value{@bidityftesidenote@num@bibkeys}}{0}}{\and\ }%
4633         \@bidityftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
4634         \bibentry{\@temp@bibkeyx}}%
4635       {\@bidityftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
4636         \bibentry{\@temp@bibkeyx};\ }%
4637     \stepcounter{@bidityftesidenote@num@bibkeys}%
4638   }%
4639 }%
4640 }
4641 \newcommand{\@bidityfterRTLsidenote@normal@cite}[2][Opt]{%
4642 % Snag the last bibentry in the list for later comparison
4643 \let\@temp@last@bibkey\@empty%
4644 \@for\@temp@bibkey:=#2\do{\let\@temp@last@bibkey\@temp@bibkey}%
4645 \RTLsidenote[] [#1]{%
4646   % Loop through all the bibentries, separating them with semicolons and spaces
4647   \normalsize\normalfont\@bidityftesidenote@citation@font%
4648   \setcounter{@bidityftesidenote@num@bibkeys}{0}%
4649   \@for\@temp@bibkeyx:=#2\do{%
4650     \ifthenelse{\equal{\@temp@last@bibkey}{\@temp@bibkeyx}}%
4651       {\ifthenelse{\equal{\value{@bidityftesidenote@num@bibkeys}}{0}}{\and\ }%
4652         \@bidityftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
4653         \bibentry{\@temp@bibkeyx}}%
4654       {\@bidityftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
4655         \bibentry{\@temp@bibkeyx};\ }%
4656     \stepcounter{@bidityftesidenote@num@bibkeys}%
4657   }%
4658 }%
4659 }
4660 %%
4661 % Macros for holding the list of cite keys until after the \sidenote
4662 \gdef\@bidityftesidenote@citations{}% list of cite keys
4663 \newcommand\@bidityftesidenote@add@citation[1]{\relax% adds a new bibkey to the list of cite
4664 \ifx\@bidityftesidenote@citations\@empty\else
4665   \g@addto@macro\@bidityftesidenote@citations{,}% separate by commas
4666 \fi
4667 \g@addto@macro\@bidityftesidenote@citations{#1}
4668 }
4669 \newcommand{\@bidityftesidenote@print@citations}[1][Opt]{% puts the citations in a margin not
4670 % Snag the last bibentry in the list for later comparison
4671 \let\@temp@last@bibkey\@empty%
4672 \@for\@temp@bibkey:=\@bidityftesidenote@citations\do{\let\@temp@last@bibkey\@temp@bibkey}%

```



```

4673 \marginpar{%
4674   \hbox{}\vspace*{#1}%
4675   \@bidityftesidenote@citation@font%
4676   \@bidityftesidenote@citation@justification%
4677   \@bidityftesidenote@margin@par% use parindent and parskip settings for marginal text
4678   \vspace*{-1\baselineskip}%
4679   % Loop through all the bibentries, separating them with semicolons and spaces
4680   \setcounter{@bidityftesidenote@num@bibkeys}{0}%
4681   \@for\@temp@bibkeyx:=\@bidityftesidenote@citations\do{%
4682     \ifthenelse{\equal{\@temp@last@bibkey}{\@temp@bibkeyx}}{%
4683       {\ifthenelse{\equal{\value{@bidityftesidenote@num@bibkeys}}{0}}{\and\ }%
4684         \@bidityftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
4685         \bibentry{\@temp@bibkeyx}}%
4686       {\@bidityftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
4687         \bibentry{\@temp@bibkeyx};\ }%
4688       \stepcounter{@bidityftesidenote@num@bibkeys}%
4689     }%
4690   }%
4691 }
4692 %%
4693 % \cite behavior when executed within a sidenote
4694 \newcommand{\@bidityftesidenote@sidenote@citations}{}% contains list of \cites in sidenote
4695 \newcommand{\@bidityftesidenote@infotnote@cite}[1]{%
4696   \@bidityftesidenote@add@citation{#1}
4697 }
4698 %%
4699 % Set the default \cite style. This is set and reset by the \sidenote command.
4700 \let\cite\@bidityftesidenote@normal@cite
4701 \let\LTRcite\@bidityfteLTRsidenote@normal@cite
4702 \let\RTLcite\@bidityfteRTLsidenote@normal@cite
4703 %%
4704 % Transform existing \footnotes into \sidenotes
4705 % Sidenote: ``Where God meant footnotes to go.' '---bidityftesidenote
4706 \RequirePackage{optparams}% for our new sidenote commands -- provides multiple optional argum
4707 \providecommand{\footnotelayout}{\@bidityftesidenote@sidenote@font\@bidityftesidenote@sidenot
4708 \renewcommand{\footnotelayout}{\@bidityftesidenote@sidenote@font\@bidityftesidenote@sidenote@
4709 % Override footmisc's definition to set the sidenote marks (numbers) inside the
4710 % sidenote's text block.
4711 \bidi@patch@AfterPackage{bidi}{\long\def\@makefntext#1{\@textsuperscript{\@bidityftesidenote@
4712 % Set the in-text footnote mark in the same typeface as the body text itself.
4713 \bidi@patch@AfterPackage{bidi}{\def\@makefnmark{\hbox{\@textsuperscript{\normalfont\footnotes
4714 \providecommand*\multiplefootnotemarker}{3sp}
4715 \providecommand*\multfootsep}{,}
4716 \bidi@patch@AfterPackage{bidi}{%
4717 \renewcommand{\@footnotemark}{%
4718   \leavevmode%
4719   \ifhmode%
4720     \edef\x@sf{\the\spacefactor}%
4721     \@bidityftesidenote@check@multiple@sidenotes%
4722     \nobreak%

```



```

4723 \fi%
4724 \@makefnmark%
4725 \ifhmode\spacefactor\@x@sf\fi%
4726 \relax%
4727 }%
4728 }
4729 \newcommand{\@bidiuftesidenote@check@multiple@sidenotes}{%
4730 \ifdim\lastkern=\multiplefootnotemarker\relax%
4731 \edef\@x@sf{\the\spacefactor}%
4732 \unkern%
4733 \textsuperscript{\multfootsep}%
4734 \spacefactor\@x@sf\relax%
4735 \fi
4736 }
4737 \bidi@patch@AfterPackage{bidi}{%
4738 \renewcommand\@footnotetext[2][0pt]{%
4739 \bidiuftesidenotemarginpar{%
4740 \hbox{}\vspace*{#1}%
4741 \def\baselinestretch{\setspace@singlespace}%
4742 \bidi@@footnotetext@font% \reset@font\footnotesize%
4743 \@bidiuftesidenote@margin@par% use parindent and parskip settings for marginal text
4744 \vspace*{-1\baselineskip}\noindent%
4745 \protected@edef\@currentlabel{%
4746 \csname p@footnote\endcsname\@thefnmark%
4747 }%
4748 \color@begingroup%
4749 \@makefnmark%
4750 \ignorespaces#2%
4751 }%
4752 \color@endgroup%
4753 }%
4754 }%
4755 \renewcommand\@LTRfootnotetext[2][0pt]{%
4756 \LTRbidiuftesidenotemarginpar{%
4757 \hbox{}\vspace*{#1}%
4758 \def\baselinestretch{\setspace@singlespace}%
4759 \bidi@LTRfootnotetext@font% \reset@font\footnotesize%
4760 \@bidiuftesidenote@margin@par% use parindent and parskip settings for marginal text
4761 \vspace*{-1\baselineskip}\noindent%
4762 \protected@edef\@currentlabel{%
4763 \csname p@footnote\endcsname\@thefnmark%
4764 }%
4765 \color@begingroup%
4766 \@makefnmark%
4767 \ignorespaces#2%
4768 }%
4769 \color@endgroup%
4770 }%
4771 }%
4772 \renewcommand\@RTLfootnotetext[2][0pt]{%

```



```

4773 \RTLbidituftesidenotemarginpar{%
4774   \hbox{}\vspace*{#1}%
4775   \def\baselinestretch {\setspace@singlespace}%
4776   \bidi@RTLfootnotetext@font% \reset@font\footnotesize%
4777   \@bidituftesidenote@margin@par% use parindent and parskip settings for marginal text
4778   \vspace*{-1\baselineskip}\noindent%
4779   \protected@edef\@currentlabel{%
4780     \csname p@footnote\endcsname\@thefnmark%
4781   }%
4782   \color@begingroup%
4783     \makefnfntext{%
4784       \ignorespaces#2%
4785     }%
4786   \color@endgroup%
4787 }%
4788 }%
4789 }
4790 %
4791 % Define \sidenote command. Can handle \cite.
4792 \newlength{\@bidituftesidenote@sidenote@vertical@offset}
4793 \setlength{\@bidituftesidenote@sidenote@vertical@offset}{0pt}
4794 % #1 = footnote num, #2 = vertical offset, #3 = footnote text
4795 \long\def\@bidituftesidenote@sidenote[#1][#2]#3{%
4796   \let\cite\@bidituftesidenote@infootnote@cite% use the in-sidenote \cite command
4797   \gdef\@bidituftesidenote@citations{}% clear out any old citations
4798   \ifthenelse{\NOT\isempty{#2}}{%
4799     \setlength{\@bidituftesidenote@sidenote@vertical@offset}{#2}%
4800   }{%
4801     \setlength{\@bidituftesidenote@sidenote@vertical@offset}{0pt}%
4802   }%
4803   \ifthenelse{\isempty{#1}}{%
4804     % no specific footnote number provided
4805     \stepcounter\@mpfn%
4806     \protected@xdef\@thefnmark{\thempfn}%
4807     \@footnotemark\@footnotetext[\@bidituftesidenote@sidenote@vertical@offset]{#3}%
4808   }{%
4809     % specific footnote number provided
4810     \begingroup%
4811       \csname c@\@mpfn\endcsname #1\relax%
4812       \unrestored@protected@xdef\@thefnmark{\thempfn}%
4813     \endgroup%
4814     \@footnotemark\@footnotetext[\@bidituftesidenote@sidenote@vertical@offset]{#3}%
4815   }%
4816   \@bidituftesidenote@print@citations% print any citations
4817   \let\cite\@bidituftesidenote@normal@cite% go back to using normal in-text \cite comma
4818   \let\LTRcite\@bidituftesidenote@normal@cite% go back to using normal in-text \LTRc
4819   \let\RTLcite\@bidituftesidenote@normal@cite% go back to using normal in-text \RTLc
4820   \unskip\ignorespaces% remove extra white space
4821   \kern-\multiplefootnotemarker% remove \kern left behind by sidenote
4822   \kern\multiplefootnotemarker\relax% add new \kern here to replace the one we yanked

```



```

4823 }
4824 \long\def\@LTRbidityftesidenote@sidenote[#1][#2]#3{%
4825   \let\cite\@bidityftesidenote@infootnote@cite%   use the in-sidenote \cite command
4826   \gdef\@bidityftesidenote@citations{}%           clear out any old citations
4827   \ifthenelse{\NOT\isempty{#2}}{%
4828     \gsetlength{\@bidityftesidenote@sidenote@vertical@offset}{#2}%
4829   }{%
4830     \gsetlength{\@bidityftesidenote@sidenote@vertical@offset}{Opt}%
4831   }%
4832   \ifthenelse{\isempty{#1}}{%
4833     % no specific footnote number provided
4834     \stepcounter\@mpfn%
4835     \protected@xdef\@thefnmark{\thempfn}%
4836     \@footnotemark\@LTRfootnotetext[\@bidityftesidenote@sidenote@vertical@offset]{#3}%
4837   }{%
4838     % specific footnote number provided
4839     \begingroup%
4840       \csname c@\@mpfn\endcsname #1\relax%
4841       \unrestored@protected@xdef\@thefnmark{\thempfn}%
4842     \endgroup%
4843     \@footnotemark\@LTRfootnotetext[\@bidityftesidenote@sidenote@vertical@offset]{#3}%
4844   }%
4845   \@bidityftesidenote@print@citations%             print any citations
4846   \let\cite\@bidityftesidenote@normal@cite%        go back to using normal in-text \cite command
4847   \let\LTRcite\@bidityfteLTRsidenote@normal@cite%  go back to using normal in-text \LTRcite
4848   \let\RTLcite\@bidityfteRTLsidenote@normal@cite%  go back to using normal in-text \RTLcite
4849   \unskip\ignorespaces%                            remove extra white space
4850   \kern-\multiplefootnotemarker%                   remove \kern left behind by sidenote
4851   \kern\multiplefootnotemarker\relax%               add new \kern here to replace the one we yanked
4852 }
4853 \long\def\@RTLbidityftesidenote@sidenote[#1][#2]#3{%
4854   \let\cite\@bidityftesidenote@infootnote@cite%   use the in-sidenote \cite command
4855   \gdef\@bidityftesidenote@citations{}%           clear out any old citations
4856   \ifthenelse{\NOT\isempty{#2}}{%
4857     \gsetlength{\@bidityftesidenote@sidenote@vertical@offset}{#2}%
4858   }{%
4859     \gsetlength{\@bidityftesidenote@sidenote@vertical@offset}{Opt}%
4860   }%
4861   \ifthenelse{\isempty{#1}}{%
4862     % no specific footnote number provided
4863     \stepcounter\@mpfn%
4864     \protected@xdef\@thefnmark{\thempfn}%
4865     \@footnotemark\@RTLfootnotetext[\@bidityftesidenote@sidenote@vertical@offset]{#3}%
4866   }{%
4867     % specific footnote number provided
4868     \begingroup%
4869       \csname c@\@mpfn\endcsname #1\relax%
4870       \unrestored@protected@xdef\@thefnmark{\thempfn}%
4871     \endgroup%
4872     \@footnotemark\@RTLfootnotetext[\@bidityftesidenote@sidenote@vertical@offset]{#3}%

```



```

4873 }%
4874 \@bidituftesidenote@print@citations%          print any citations
4875 \let\cite\@bidituftesidenote@normal@cite%      go back to using normal in-text \cite comma
4876 \let\LTRcite\@bidituftelTRsidenote@normal@cite% go back to using normal in-text \LTRc
4877 \let\RTLcite\@biditufterTLsidenote@normal@cite% go back to using normal in-text \RTLc
4878 \unskip\ignorespaces%                          remove extra white space
4879 \kern-\multiplefootnotemarker%                 remove \kern left behind by sidenote
4880 \kern\multiplefootnotemarker\relax%            add new \kern here to replace the one we yanked
4881 }
4882 \newcommand{\sidenote}{\optparams{\@bidituftesidenote@sidenote}{[] [Opt]}}
4883 \newcommand{\LTRsidenote}{\optparams{\@LTRbidituftesidenote@sidenote}{[] [Opt]}}
4884 \newcommand{\RTLsidenote}{\optparams{\@RTLbidituftesidenote@sidenote}{[] [Opt]}}
4885 \bidi@patch@AfterPackage{bidi}{%
4886 \renewcommand{\footnote}{\optparams{\@bidituftesidenote@sidenote}{[] [Opt]}}%
4887 \renewcommand{\LTRfootnote}{\optparams{\@LTRbidituftesidenote@sidenote}{[] [Opt]}}%
4888 \renewcommand{\RTLfootnote}{\optparams{\@RTLbidituftesidenote@sidenote}{[] [Opt]}}%
4889 }
4890 %%
4891 % Sidenote without the footnote mark
4892 \newcommand\marginnote[2] [Opt]{%
4893 \let\cite\@bidituftesidenote@infootnote@cite%  use the in-sidenote \cite command
4894 \gdef\@bidituftesidenote@citations{}}%         clear out any old citations
4895 \bidituftesidenotemarginpar{\hbox{}}\vspace*{#1}\@bidituftesidenote@marginnote@font\@biditu
4896 \@bidituftesidenote@print@citations%          print any citations
4897 \let\cite\@bidituftesidenote@normal@cite%      go back to using normal in-text \cite comma
4898 \let\LTRcite\@bidituftelTRsidenote@normal@cite% go back to using normal in-text \LTRc
4899 \let\RTLcite\@biditufterTLsidenote@normal@cite% go back to using normal in-text \RTLc
4900 }
4901 \newcommand\LTRmarginnote[2] [Opt]{%
4902 \let\cite\@bidituftesidenote@infootnote@cite%  use the in-sidenote \cite command
4903 \gdef\@bidituftesidenote@citations{}}%         clear out any old citations
4904 \LTRbidituftesidenotemarginpar{\hbox{}}\vspace*{#1}\@bidituftesidenote@LTRmarginnote@font\@b
4905 \@bidituftesidenote@print@citations%          print any citations
4906 \let\cite\@bidituftesidenote@normal@cite%      go back to using normal in-text \cite comma
4907 \let\LTRcite\@bidituftelTRsidenote@normal@cite% go back to using normal in-text \LTRc
4908 \let\RTLcite\@biditufterTLsidenote@normal@cite% go back to using normal in-text \RTLc
4909 }
4910 \newcommand\RTLmarginnote[2] [Opt]{%
4911 \let\cite\@bidituftesidenote@infootnote@cite%  use the in-sidenote \cite command
4912 \gdef\@bidituftesidenote@citations{}}%         clear out any old citations
4913 \RTLbidituftesidenotemarginpar{\hbox{}}\vspace*{#1}\@bidituftesidenote@RTLmarginnote@font\@b
4914 \@bidituftesidenote@print@citations%          print any citations
4915 \let\cite\@bidituftesidenote@normal@cite%      go back to using normal in-text \cite comma
4916 \let\LTRcite\@bidituftelTRsidenote@normal@cite% go back to using normal in-text \LTRc
4917 \let\RTLcite\@biditufterTLsidenote@normal@cite% go back to using normal in-text \RTLc
4918 }

```

## 7.24 bidituftetoc.sty

```

4919 \NeedsTeXFormat{LaTeX2e}

```



```

4920 \ProvidesPackage{bidityfttoc}[2011/06/17 v0.1
4921 bidi implementation of tuft toc]
4922 \RequirePackage{titlesec,titletoc,xifthen,biditytools}
4923 \newcommand{\@bidityfttoc@pkgname}{bidityfttoc}
4924 \newcommand{\bidityfttocError}[2]{\PackageError{\@bidityfttoc@pkgname}{#1}{#2}}
4925 %%
4926 % Turn off section numbering
4927 \setcounter{secnumdepth}{-1}
4928 \newboolean{@bidityfttoc@toc}
4929 \setboolean{@bidityfttoc@toc}{true}
4930 \DeclareOption{notoc}{\setboolean{@bidityfttoc@toc}{false}}
4931 \DeclareOption{toc}{\setboolean{@bidityfttoc@toc}{true}}
4932 \ProcessOptions
4933 %%
4934 % Make Tuftian-style section headings and TOC formatting
4935 \bidityfttoc@patch@AfterPackage{bidi}{%
4936 \titleformat{\chapter}%
4937 [display]% shape
4938 {\relax\ifthenelse{\NOT\boolean{@bidityftfloat@symmetric}}{\begin{fullwidth}}{}}% format a
4939 {\itshape\huge\thechapter}% label
4940 {0pt}% horizontal separation between label and title body
4941 {\huge\rmfamily\itshape}% before the title body
4942 [\ifthenelse{\NOT\boolean{@bidityftfloat@symmetric}}{\end{fullwidth}}{}}% after the title
4943 \titleformat{\section}%
4944 [hang]% shape
4945 {\normalfont\Large\itshape}% format applied to label+text
4946 {\thesection}% label
4947 {1em}% horizontal separation between label and title body
4948 {}% before the title body
4949 []% after the title body
4950 \titleformat{\subsection}%
4951 [hang]% shape
4952 {\normalfont\large\itshape}% format applied to label+text
4953 {\thesubsection}% label
4954 {1em}% horizontal separation between label and title body
4955 {}% before the title body
4956 []% after the title body
4957 \titleformat{\paragraph}%
4958 [runin]% shape
4959 {\normalfont\itshape}% format applied to label+text
4960 {\theparagraph}% label
4961 {1em}% horizontal separation between label and title body
4962 {}% before the title body
4963 []% after the title body
4964 \titlespacing*{\chapter}{0pt}{50pt}{40pt}
4965 \titlespacing*{\section}{0pt}{3.5ex plus 1ex minus .2ex}{2.3ex plus .2ex}
4966 \titlespacing*{\subsection}{0pt}{3.25ex plus 1ex minus .2ex}{1.5ex plus .2ex}
4967 }
4968 % Subsubsection and following section headings shouldn't be used.
4969 % See Bringhurst's _The Elements of Typography_, section 4.2.2.

```





```

4970 \renewcommand\subsubsection{%
4971   \biditytetocError{\noexpand\subsubsection is undefined by this class.%
4972   \MessageBreak See Robert Bringhurst's _The Elements of
4973   \MessageBreak Typographic Style_, section 4.2.2.
4974   \MessageBreak \noexpand\subsubsection was used}
4975   {From Bringhurst's _The Elements of Typographic Style_, section 4.2.2: Use as
4976   \MessageBreak many levels of headings as you need, no more and no fewer. Also see the ma
4977   \MessageBreak related threads on Ask E.T. at http://www.edwardbiditytetoc.com/.}
4978 }
4979 \renewcommand\subparagraph{%
4980   \biditytetocError{\noexpand\subparagraph is undefined by this class.%
4981   \MessageBreak See Robert Bringhurst's _The Elements of
4982   \MessageBreak Typographic Style_, section 4.2.2.
4983   \MessageBreak \noexpand\subparagraph was used}
4984   {From Bringhurst's _The Elements of Typographic Style_, section 4.2.2: Use as
4985   \MessageBreak many levels of headings as you need, no more and no fewer. Also see the ma
4986   \MessageBreak related threads on Ask E.T. at http://www.edwardbiditytetoc.com/.}
4987 }
4988 % Formatting for main TOC (printed in front matter)
4989 % {section} [left] {above} {before w/label} {before w/o label} {filler + page} [after]
4990 \ifthenelse{\boolean{@biditytetoc@toc}}{%
4991   \bidity@patch@AfterPackage{bidi}{%
4992     \titlecontents{part}% FIXME
4993     [0em] % distance from left margin
4994     {\vspace{1.5\baselineskip}\begin{fullwidth}\LARGE\rmfamily\itshape} % above (global forma
4995     {\contentslabel{2em}} % before w/label (label = ``II'')
4996     {} % before w/o label
4997     {\rmfamily\upshape\quad\thecontentspage} % filler + page (leaders and page num)
4998     [\end{fullwidth}] % after
4999     \titlecontents{chapter}%
5000     [0em] % distance from left margin
5001     {\vspace{1.5\baselineskip}\begin{fullwidth}\LARGE\rmfamily\itshape} % above (global forma
5002     {\hspace*{0em}\contentslabel{2em}} % before w/label (label = ``2'')
5003     {\hspace*{0em}} % before w/o label
5004     {\rmfamily\upshape\quad\thecontentspage} % filler + page (leaders and page num)
5005     [\end{fullwidth}] % after
5006     \titlecontents{section}% FIXME
5007     [0em] % distance from left margin
5008     {\vspace{0\baselineskip}\begin{fullwidth}\Large\rmfamily\itshape} % above (global format
5009     {\hspace*{2em}\contentslabel{2em}} % before w/label (label = ``2.6'')
5010     {\hspace*{2em}} % before w/o label
5011     {\rmfamily\upshape\quad\thecontentspage} % filler + page (leaders and page num)
5012     [\end{fullwidth}] % after
5013     \titlecontents{subsection}% FIXME
5014     [0em] % distance from left margin
5015     {\vspace{0\baselineskip}\begin{fullwidth}\large\rmfamily\itshape} % above (global format
5016     {\hspace*{4em}\contentslabel{4em}} % before w/label (label = ``2.6.1'')
5017     {\hspace*{4em}} % before w/o label
5018     {\rmfamily\upshape\quad\thecontentspage} % filler + page (leaders and page num)
5019     [\end{fullwidth}] % after

```



```

5020 \titlecontents{paragraph}% FIXME
5021 [0em] % distance from left margin
5022 {\vspace{0\baselineskip}\begin{fullwidth}\normalsize\rmfamily\itshape} % above (global fo
5023 {\hspace*{6em}\contentslabel{2em}} % before w/label (label = ``2.6.0.0.1'')
5024 {\hspace*{6em}} % before w/o label
5025 {\rmfamily\upshape\qquad\thecontentspage} % filler + page (leaders and page num)
5026 [\end{fullwidth}] % after
5027 }%
5028 }{}
5029 %%
5030 % Format lists of figures/tables
5031 \renewcommand\listoffigures{%
5032   \@ifundefined{chapter}%
5033     {\section*{\listfigurename}}%
5034     {\chapter*{\listfigurename}}%
5035 % \begin{fullwidth}%
5036   \@starttoc{lof}%
5037 % \end{fullwidth}%
5038 }
5039 \renewcommand\listoftables{%
5040   \@ifundefined{chapter}%
5041     {\section*{\listtablename}}%
5042     {\chapter*{\listtablename}}%
5043 % \begin{fullwidth}%
5044   \@starttoc{lot}%
5045 % \end{fullwidth}%
5046 }
5047 \newcommand{\@bidityfttoc@lof@line}[2]{%
5048   % #1 is the figure/table number and its caption text
5049   % #2 is the page number on which the figure/table appears
5050   \leftskip 0.0em
5051   \rightskip 0em
5052   \parfillskip 0em plus 1fil
5053   \parindent 0.0em
5054   \@afterindenttrue
5055   \interlinepenalty\@M
5056   \leavevmode
5057   \@tempdima 2.0em
5058   \ifRTL\advance\rightskip\@tempdima\else\advance\leftskip\@tempdima\fi
5059   \null\nobreak\hskip -\ifRTL\rightskip\else\leftskip\fi
5060   {#1}\nobreak\qquad\nobreak#2%
5061   \par%
5062 }
5063 \renewcommand*\l@figure{\@bidityfttoc@lof@line}
5064 \let\l@table\l@figure

```

## 7.25 bidityftgeneralstructure.sty

```

5065 \NeedsTeXFormat{LaTeX2e}
5066 \ProvidesPackage{bidityftgeneralstructure}[2011/06/18 v0.1

```



```

5067 bidi implementation of tufte general structure]
5068 \renewcommand\small{%
5069   \@setfontsize\small\@ixpt{12}%
5070   \abovedisplayskip 8.5\p@ \@plus3\p@ \@minus4\p@
5071   \abovedisplayskip 8.5\p@ \@plus3\p@ \@minus4\p@
5072   \belowdisplayshortskip 4\p@ \@plus2\p@ \@minus2\p@
5073   \def\@listi{\leftmargin\leftmargini
5074     \topsep 4\p@ \@plus2\p@ \@minus2\p@
5075     \parsep 2\p@ \@plus\p@ \@minus\p@
5076     \itemsep \parsep}%
5077   \belowdisplayskip \abovedisplayskip
5078 }
5079 \renewcommand\scriptsize{\@setfontsize\scriptsize\@viipt\@viipt}
5080 \renewcommand\tiny{\@setfontsize\tiny\@vpt\@vpt}
5081 \renewcommand\large{\@setfontsize\large\@xipt{15}}
5082 \renewcommand\Large{\@setfontsize\Large\@xiipt{16}}
5083 \renewcommand\LARGE{\@setfontsize\LARGE\@xivpt{18}}
5084 \renewcommand\huge{\@setfontsize\huge\@xxpt{30}}
5085 \renewcommand\Huge{\@setfontsize\Huge{24}{36}}
5086 \setlength\leftmargini {1pc}
5087 \setlength\leftmarginii {1pc}
5088 \setlength\leftmarginiii {1pc}
5089 \setlength\leftmarginiv {1pc}
5090 \setlength\leftmarginv {1pc}
5091 \setlength\leftmarginvi {1pc}
5092 \setlength\labelsep {0.5pc}
5093 \setlength\labelwidth {\leftmargini}
5094 \addtolength\labelwidth{-\labelsep}
5095 \setlength{\parindent}{1.0pc}%
5096 \setlength{\parskip}{0pt}%
5097 \RequirePackage{ragged2e}
5098 \setlength{\RaggedRightRightskip}{\z@ plus 0.08\hsize}
5099 % Paragraph indentation and separation for normal text
5100 \newcommand{\@bidiuftgeneralstructure@reset@par}{%
5101   \setlength{\RaggedRightParindent}{1.0pc}%
5102   \setlength{\JustifyingParindent}{1.0pc}%
5103   \setlength{\parindent}{1pc}%
5104   \setlength{\parskip}{0pt}%
5105 }
5106 \@bidiuftgeneralstructure@reset@par
5107 % Require paralist package for tighter lists
5108 \RequirePackage{paralist}
5109 % Add rightmargin to compactenum
5110 \def\@compactenum{%
5111   \expandafter\list\csname label\@enumctr\endcsname{%
5112     \usecounter{\@enumctr}%
5113     \rightmargin=2em% added this
5114     \parsep\plparsep
5115     \itemsep\plitemsep
5116     \topsep\pltopsep

```



```

5117 \partopsep\plpartopsep
5118 \def\makelabel##1{\hss\llap{##1}}
5119 %%
5120 % An environment for paragraph-style section
5121 \providecommand\newthought[1]{%
5122 \addvspace{1.0\baselineskip plus 0.5ex minus 0.2ex}%
5123 \noindent\textbf{#1}%
5124 }
5125 %%
5126 % Redefine the display environments (quote, quotation, etc.)
5127 \renewenvironment{verse}
5128     {\let\\\@centercr
5129     \list{}{\itemsep \z@
5130             \itemindent -1pc%
5131             \listparindent\itemindent
5132             \rightmargin \leftmargin
5133             \advance\leftmargin 1pc}%
5134     \small%
5135     \item\relax}
5136 {\endlist}
5137 \renewenvironment{quotation}
5138     {\list{}{\listparindent 1pc%
5139             \itemindent \listparindent
5140             \rightmargin \leftmargin
5141             \parsep \z@ \@plus\p@}%
5142     \small%
5143     \item\relax\noindent\ignorespaces}
5144 {\endlist}
5145 \renewenvironment{quote}
5146     {\list{}{\rightmargin\leftmargin}%
5147     \small%
5148     \item\relax}
5149 {\endlist}
5150 % Italicize description run-in headings (instead of the default bold)
5151 \renewcommand*\descriptionlabel[1]{\hspace\labelsep\normalfont\em #1}
5152 %%
5153 % Redefine \bibsection to not mark the running heads.
5154 % (Code modified from natbib.sty.)
5155 \ifundefined{chapter}%
5156     {\renewcommand\bibsection{\section*{\refname}}}
5157     {\ifundefined{NAT@sectionbib}%
5158         {\renewcommand\bibsection{\chapter{\bibname}}}
5159         {\renewcommand\bibsection{\section*{\bibname}}}}
5160 \RequirePackage{multicol}
5161 \renewenvironment{theindex}{%
5162 \ifundefined{chapter}%
5163     {\section*{\indexname}}%
5164     {\chapter{\indexname}}%
5165 \begin{fullwidth}%
5166 \small%

```



```

5167 \parskip0pt%
5168 \parindent0pt%
5169 \let\item\@idxitem%
5170 \begin{multicols}{3}%
5171 }{%
5172 \end{multicols}%
5173 \end{fullwidth}%
5174 }
5175 \AtBeginDocument{%
5176 \renewcommand\@idxitem{\par\hangindent \if@RTL-\fi2em}%
5177 \renewcommand\subitem{\par\hangindent \if@RTL-\fi3em\hspace*{1em}}%
5178 \renewcommand\subsubitem{\par\hangindent \if@RTL-\fi4em\hspace*{2em}}%
5179 \renewcommand\indexspace{\par\addvspace{1.0\baselineskip plus 0.5ex minus 0.2ex}\relax}%
5180 \newcommand\lettergroup[1]{}% swallow the letter heading in the index

```

## 7.26 bidentuftehyperref.sty

```

5181 \NeedsTeXFormat{LaTeX2e}
5182 \ProvidesPackage{bidentuftehyperref}[2011/06/18 v0.1
5183 bidi implementation of tufte hyperref]
5184 %%
5185 % Color
5186 \RequirePackage[usenames,dvipsnames,svgnames]{xcolor}%
5187 \newboolean{@bidentuftehyperref@loadhyper}
5188 \setboolean{@bidentuftehyperref@loadhyper}{true}
5189 \DeclareOption{hyper}{\setboolean{@bidentuftehyperref@loadhyper}{true}}
5190 \DeclareOption{nohyper}{\setboolean{@bidentuftehyperref@loadhyper}{false}}
5191 \ProcessOptions
5192 %% Loads the hyperref package and sets some default options.
5193 \newcommand{\bidentuftehyperrefLoadHyperref}{%
5194 \RequirePackage[hyperfootnotes=false,colorlinks=true]{hyperref}
5195 \hypersetup{%
5196     bookmarksdepth = section,
5197     citecolor = DarkGreen,
5198     linkcolor = DarkBlue,
5199 %     pagecolor = DarkBlue,
5200     urlcolor = DarkGreen,
5201 }%
5202 }
5203 \ifthenelse{\boolean{@bidentuftehyperref@loadhyper}}{%
5204 \bidentuftehyperrefLoadHyperref%
5205 }{% hyperfootnotes override our modifications to the \footnote* and \@footnote* commands.
5206 \PassOptionsToPackage{hyperfootnotes=false}{hyperref}
5207 }

```

## 7.27 bidentuftetitle.sty

```

5208 \NeedsTeXFormat{LaTeX2e}
5209 \ProvidesPackage{bidentuftetitle}[2011/06/18 v0.1
5210 bidi implementation of tufte title]
5211 \RequirePackage{biditools}

```



```

5212 %%
5213 % `titlepage' option -- creates a full title page with \maketitle
5214 \newboolean{@bidityttitle@titlepage}
5215 \DeclareOption{titlepage}{\setboolean{@bidityttitle@titlepage}{true}}
5216 \DeclareOption{notitlepage}{\setboolean{@bidityttitle@titlepage}{false}}
5217 % Default `book' and `handout' options
5218 \ifclassloaded{book}{%
5219 \ExecuteOptions{titlepage}}{%
5220 \ifclassloaded{article}{%
5221 \ExecuteOptions{notitlepage}}%
5222 {}}
5223 \ProcessOptions
5224 %%
5225 % Modified \title, \author, and \date commands. These store the
5226 % (footnote-less) values in \plaintitle, \plainauthor, and \thedata, respectively.
5227 \newcommand{\plaintitle}{}% plain-text-only title
5228 \newcommand{\plainauthor}{}% plain-text-only author
5229 \newcommand{\plainpublisher}{}% plain-text-only publisher
5230 \newcommand{\thanklesstitle}{}% full title text minus \thanks{}
5231 \newcommand{\thanklessauthor}{}% full author text minus \thanks{}
5232 \newcommand{\thanklesspublisher}{}% full publisher minus \thanks{}
5233 \newcommand{\@publisher}{}% full publisher with \thanks{}
5234 \newcommand{\thedata}{\today}
5235 \bidi@patch@AfterPackage{bidi}{%
5236 \renewcommand{\thanks}[1]{\footnote{#1}}
5237 \renewcommand{\LTRthanks}[1]{\LTRfootnote{#1}}
5238 \renewcommand{\RTLthanks}[1]{\RTLfootnote{#1}}
5239 }
5240 \renewcommand{\title}[2][]{%
5241 \gdef\@title{#2}%
5242 \begingroup%
5243 % TODO store contents of \thanks command
5244 \renewcommand{\thanks}[1]{}% swallow \thanks contents
5245 \renewcommand{\LTRthanks}[1]{}% swallow \LTRthanks contents
5246 \renewcommand{\RTLthanks}[1]{}% swallow \RTLthanks contents
5247 \protected@xdef\thanklesstitle{#2}%
5248 \endgroup%
5249 \ifthenelse{\isempty{#1}}{%
5250 {\renewcommand{\plaintitle}{\thanklesstitle}}% use thankless title
5251 {\renewcommand{\plaintitle}{#1}}% use provided plain-text title
5252 \@ifundefined{hypersetup}%
5253 {}% hyperref is not loaded; do nothing
5254 {\hypersetup{pdftitle={\plaintitle}}}% set the PDF metadata title
5255 }
5256 \let\@author\@empty% suppress default latex.ltx ``no author'' warning
5257 \renewcommand{\author}[2][]{%
5258 \ifthenelse{\isempty{#2}}{\gdef\@author{#2}}%
5259 \begingroup%
5260 % TODO store contents of \thanks command
5261 \renewcommand{\thanks}[1]{}% swallow \thanks contents

```



```

5262 \renewcommand{\LTRthanks}[1]{}% swallow \LTRthanks contents
5263 \renewcommand{\RTLthanks}[1]{}% swallow \RTLthanks contents
5264 \protected@xdef\thanklessauthor{#2}%
5265 \endgroup%
5266 \ifthenelse{\isempty{#1}}%
5267 {\renewcommand{\plainauthor}{\thanklessauthor}}% use thankless author
5268 {\renewcommand{\plainauthor}{#1}}% use provided plain-text author
5269 \@ifundefined{hypersetup}%
5270 {}% hyperref is not loaded; do nothing
5271 {\hypersetup{pdfauthor={\plainauthor}}}% set the PDF metadata author
5272 }
5273 \renewcommand{\date}[1]{}%
5274 \gdef\@date{#1}%
5275 \begingroup%
5276 % TODO store contents of \thanks command
5277 \renewcommand{\thanks}[1]{}% swallow \thanks contents
5278 \renewcommand{\LTRthanks}[1]{}% swallow \LTRthanks contents
5279 \renewcommand{\RTLthanks}[1]{}% swallow \RTLthanks contents
5280 \protected@xdef\thedata{#1}%
5281 \endgroup%
5282 }
5283 %%
5284 % Provides a \publisher command to set the publisher
5285 \newcommand{\publisher}[2]{}%
5286 \gdef\@publisher{#2}%
5287 \begingroup%
5288 \renewcommand{\thanks}[1]{}% swallow \thanks contents
5289 \renewcommand{\LTRthanks}[1]{}% swallow \LTRthanks contents
5290 \renewcommand{\RTLthanks}[1]{}% swallow \RTLthanks contents
5291 \protected@xdef\thanklesspublisher{#2}%
5292 \endgroup%
5293 \ifthenelse{\isempty{#1}}%
5294 {\renewcommand{\plainpublisher}{\thanklesspublisher}}% use thankless publisher
5295 {\renewcommand{\plainpublisher}{#1}}% use provided plain-text publisher
5296 }
5297 %%
5298 % Produces a full title page
5299 \newcommand{\maketitlepage}[0]{}%
5300 \cleardoublepage%
5301 {%
5302 \bfseries%
5303 \begin{fullwidth}%
5304 \fontsize{18}{20}\selectfont\par\noindent\thanklessauthor%
5305 \vspace{11.5pc}%
5306 \fontsize{36}{40}\selectfont\par\noindent\thanklesstitle%
5307 \vfill%
5308 \fontsize{14}{16}\selectfont\par\noindent\thanklesspublisher%
5309 \end{fullwidth}%
5310 }
5311 \thispagestyle{empty}%

```



```

5312 \clearpage%
5313 }
5314 %%
5315 % Title block
5316 \bidi@AfterEndPreamble{%
5317 \renewcommand{\maketitle}{%
5318 \newpage%
5319 \global\@topnum\z@% prevent floats from being placed at the top of the page
5320 \begingroup%
5321 \setlength{\parindent}{0pt}%
5322 \setlength{\parskip}{4pt}%
5323 \let\@title\empty%
5324 \let\@author\empty%
5325 \let\@date\empty%
5326 \gdef\@title{\LARGE\itshape\@title\par}%
5327 \gdef\@author{\Large\itshape\@author\par}%
5328 \gdef\@date{\Large\itshape\@date\par}%
5329 \@title%
5330 \@author%
5331 \@date%
5332 \endgroup%
5333 \thispagestyle{plain}% suppress the running head
5334 }%
5335 }
5336 %%
5337 % Title page (if the 'titlepage' option was passed to the bidentitetitle-handout
5338 % class.)
5339 \bidi@AfterEndPreamble{%
5340 \ifthenelse{\boolean{@bidentitetitle@titlepage}}
5341 {\renewcommand{\maketitle}{\maketitlepage}}
5342 {}
5343 }
5344 %%
5345 % When \cleardoublepage is called, produce a blank (empty) page -- i.e.,
5346 % without headers and footers
5347 \def\cleardoublepage{\clearpage\if@twoside\ifodd\c@page\else
5348 \hbox{}
5349 \vspace*{\fill}
5350 \begin{center}
5351 % This page intentionally contains only this sentence.
5352 \end{center}
5353 \vspace{\fill}
5354 \thispagestyle{empty}
5355 \newpage
5356 \if@twocolumn\hbox{}\newpage\fi\fi}

```

## 7.28 bidentufte-handout.cls

```

5357 \NeedsTeXFormat{LaTeX2e}[1994/06/01]
5358 \ProvidesClass{bidentufte-handout}[2011/06/18 v0.1 bidentufte-handout class]

```





```

5359 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{article}}
5360 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidiuftefloat}}
5361 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidiuftetoc}}
5362 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidiuftehyperref}}
5363 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidiuftetitle}}
5364 \ProcessOptions\relax
5365 \LoadClass{article}
5366 \RequirePackage{bidiuftefloat}
5367 \RequirePackage{bidiuftesidenote}
5368 \RequirePackage{bidiuftetoc}
5369 \RequirePackage{bidiuftegeneralstructure}
5370 \RequirePackage{bidiuftehyperref}
5371 \RequirePackage{bidiuftetitle}
5372 \renewenvironment{abstract}
5373   {\begin{quotation}}
5374   {\end{quotation}}
5375 \AtBeginDocument{%
5376 \IfFileExists{bidiufte-handout.cfg}
5377   {\input{bidiufte-handout.cfg}
5378    \ClassInfo{bidiufte-handout}{Loading bidiufte-handout configuration file \@gobble}}
5379   {}}%
5380 }

```

## 7.29 bidiufte-book.cls

```

5381 \NeedsTeXFormat{LaTeX2e}[1994/06/01]
5382 \ProvidesClass{bidiufte-book}[2011/06/18 v0.1 bidiufte-book class]
5383 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{book}}
5384 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidiuftefloat}}
5385 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidiuftetoc}}
5386 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidiuftehyperref}}
5387 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidiuftetitle}}
5388 \ProcessOptions\relax
5389 \LoadClass{book}
5390 \RequirePackage{bidiuftefloat}
5391 \RequirePackage{bidiuftesidenote}
5392 \RequirePackage{bidiuftetoc}
5393 \RequirePackage{bidiuftegeneralstructure}
5394 \RequirePackage{bidiuftehyperref}
5395 \RequirePackage{bidiuftetitle}
5396 %%
5397 % Set up any book-specific stuff now
5398 %%
5399 % The front matter in Tufte's /Beautiful Evidence/ contains everything up
5400 % to the opening page of Chapter 1. The running heads, when they appear,
5401 % contain only the (arabic) page number in the outside corner.
5402 %\newif\if@mainmatter \@mainmattertrue
5403 \renewcommand\frontmatter{%
5404   \cleardoublepage%
5405   \@mainmatterfalse%

```



```

5406 \pagenumbering{arabic}%
5407 %\pagestyle{plain}%
5408 \fancyhf{}%
5409 \ifthenelse{\boolean{@bidituftefloat@twoside}}%
5410 {\fancyhead[LE,RO]{\thepage}}%
5411 {\fancyhead[RE,RO]{\thepage}}%
5412 }
5413 %%
5414 % The main matter in Tufte's /Beautiful Evidence/ doesn't restart the page
5415 % numbering---it continues where it left off in the front matter.
5416 \renewcommand\mainmatter{%
5417 \cleardoublepage%
5418 \@mainmattertrue%
5419 \fancyhf{}%
5420 \ifthenelse{\boolean{@bidituftefloat@twoside}}%
5421 {\renewcommand\chaptermark}[1]{\markboth{##1}{}}%
5422 \fancyhead[LE]{\thepage\quad\smallcaps{\newlinetospace{\plaintitle}}}% book title
5423 \fancyhead[RO]{\smallcaps{\newlinetospace{\leftmark}}\quad\thepage}% chapter title
5424 {\fancyhead[RE,RO]{\smallcaps{\newlinetospace{\plaintitle}}\quad\thepage}}% book title
5425 }
5426 %%
5427 % The back matter contains appendices, indices, glossaries, endnotes,
5428 % bibliographies, list of contributors, illustration credits, etc.
5429 \renewcommand\backmatter{%
5430 \if@openright%
5431 \cleardoublepage%
5432 \else%
5433 \clearpage%
5434 \fi%
5435 \@mainmatterfalse%
5436 }
5437 %%
5438 % Only show the chapter titles in the table of contents
5439 \setcounter{tocdepth}{0}
5440 \AtBeginDocument{%
5441 \IfFileExists{biditufte-book.cfg}
5442 {\input{biditufte-book.cfg}}
5443 \ClassInfo{biditufte-book}{Loading biditufte-book configuration file \@gobble}}
5444 {}%
5445 }

```

### 7.30 bidipoem.sty

```

5446 \NeedsTeXFormat{LaTeX2e}
5447 \ProvidesPackage{bidipoem}%
5448 [2014/04/27 v0.9 Environments for typesetting Persian traditional and modern poems]
5449
5450 % Usage:
5451 %
5452 % \Setversedim #1#2 % define the layout (within a group):

```



```

5453 % #1 = length of both half-verses
5454 % #2 = separation distance = length of a connection, if present
5455 % Variant:
5456 % \Setversedim #1[#2]#3 % for half-verses of unequal length
5457 % #1 = length of first (=right) half-verse
5458 % #2 = length of second (=left) half-verse
5459 % #3 = separation distance = length of a connection, if present
5460 %
5461 % \traditionalhalfverses #1#2 % typeset two separated half-verses
5462 % #1 = text of first (=right) half-verse
5463 % #2 = text of second (=left) half-verse
5464 % Variant:
5465 % \traditionalhalfverses #1[#2]#3 % typeset two connected half-verses
5466 % #1 = text of first (=right) half-verse
5467 % #2 = text of connection
5468 % #3 = text of second (=left) half-verse
5469 %
5470 % Alternative (if preferred):
5471 %
5472 % \traditionalconnverses #1#2#3 % = \traditionalhalfverses #1[#2]#3
5473
5474
5475 \newcommand*{\bidipoem@spreadbox}[2]{\hbox to #1{#2}}
5476
5477 % define the layout, verses will be centered
5478
5479 \newdimen \bidipoem@hvlen \newdimen \bidipoem@hvsep
5480 \newdimen \bidipoem@hvind \newdimen \bidipoem@@hvlen
5481
5482 \newcommand*{\Setversedim}[2]{% set lengths of half-verse, [separation]
5483 \bidipoem@hvind \textwidth
5484 \bidipoem@hvlen #1\relax \advance \bidipoem@hvind -\bidipoem@hvlen
5485 \ifx [#2\def \bidipoem@next {\bidipoem@set@verseI []}\else
5486 \bidipoem@@hvlen \bidipoem@hvlen \def \bidipoem@next {\bidipoem@set@@verse {#2}}\fi \bidipoem
5487
5488 \def \bidipoem@set@verseI [#1]{% optional parameter
5489 \bidipoem@@hvlen #1\relax \bidipoem@set@@verse }
5490
5491 \newcommand*{\bidipoem@set@@verse}[1]{% separation
5492 \advance \bidipoem@hvind -\bidipoem@@hvlen \bidipoem@hvsep #1\relax
5493 \advance \bidipoem@hvind -\bidipoem@hvsep \divide \bidipoem@hvind 2 }
5494
5495 \newcommand*{\traditionalconnverses}[3]{% first half-verse, connection, second half-verse
5496 \ifdim Opt > \bidipoem@hvind %
5497 \bidipoem@spreadbox \bidipoem@hvlen {#1}\\ \hfill % first block
5498 \else
5499 \noindent \hskip \bidipoem@hvind \relax \bidipoem@spreadbox \bidipoem@hvlen {#1}\fi
5500 \bidipoem@spreadbox \bidipoem@hvsep {#2}% separator
5501 \bidipoem@spreadbox \bidipoem@@hvlen {#3}% second block
5502 \par }

```



```

5503
5504 % macro for two half verses
5505 \newcommand*{\traditionalhalfverses}[2]{% optional parameter?
5506 \ifx [#2\def\bidipoem@half@verses@next{\bidipoem@half@verses {#1}[]}%
5507 \else\def\bidipoem@half@verses@next{\bidipoem@half@verses {#1}[\hfill]{#2}}\fi%
5508 \bidipoem@half@verses@next}
5509
5510 \def \bidipoem@half@verses #1[#2]#3{% first[mid]second
5511 \traditionalconnverses {#1}{#2}{#3}}
5512
5513
5514 {\catcode\^^M=\active % these lines must end with %
5515 \gdef\traditionalpoem@obeylines{\catcode\^^M=\active \let^^M\traditionalpoem@par}%
5516 \global\let^^M\traditionalpoem@par} % this is in case ^^M appears in a \write
5517 {\catcode\^^M=\active % these lines must end with %
5518 \gdef\modernpoem@obeylines{\catcode\^^M=\active \let^^M\modernpoem@par}%
5519 \global\let^^M\modernpoem@par} % this is in case ^^M appears in a \write
5520 \def\poemcolsepskip{.1\versewidth plus .1\versewidth minus .05\versewidth}
5521 \def\poemmarginsskip{1em plus 1fil minus 1em}
5522 \def\poemextrabaselineskip{0\baselineskip}
5523 \def\poemskip{\medskip}
5524 \newcommand{\bidipoem@openbox}{\leavevmode
5525 \hbox to.77778em{%
5526 \hfil\vrule
5527 \vbox to.675em{\hrule width.6em\vfil\hrule}%
5528 \vrule\hfil}}
5529 \def\poemblocksep{\quad\hbox{\bidipoem@openbox}}
5530 \newdimen\versewidth
5531 \newtoks\bidipoem@p@ftn
5532 \def\poem@verse#1{%
5533 \ifdim\wd#1>\new@poem@width
5534 \xdef\new@poem@width{\the\wd#1}%
5535 \ifdim\new@poem@width>\poem@width
5536 \xdef\poem@width{\new@poem@width}%
5537 \global\let\poem@needrun\relax
5538 \fi
5539 \fi
5540 \hbox to\poem@width{\unhbox#1}%
5541 \global\bidipoem@p@ftn\expandafter{\expandafter}\the\bidipoem@p@ftn%
5542 }
5543 \def\poem@linebegin{\vadjust{}\hskip\@flushglue\hskip\poemmarginsskip\relax}
5544 \def\poem@lineend{\nobreak\hskip\poemmarginsskip\hskip\@flushglue\vadjust{}}
5545 \def\poem@lineversesep{%
5546 \nobreak
5547 \hskip\z@ plus 1filll%
5548 \penalty600%
5549 \hskip\poemcolsepskip
5550 \hskip\z@ plus -2filll%
5551 \vadjust{}}%
5552 \nobreak

```



```

5553 \hskip\z@ plus 1filll%
5554 }
5555 \def\poem@lineparsebegin{%
5556 \halign\bgroup
5557 \global\setbox\verse@i=\hbox{%
5558 \let\@footnotetext\bidipoem@p@ftntext%
5559 \let\@LTRfootnotetext\bidipoem@p@LTRftntext%
5560 \let\@RTLfootnotetext\bidipoem@p@RTLftntext%
5561 \let\@xfootnotenext\bidipoem@p@xftntext%
5562 \let\@xfootnote\bidipoem@p@xfootnote%
5563 \let\@xLTRfootnotenext\bidipoem@p@xLTRftntext%
5564 \let\@xLTRfootnote\bidipoem@p@xLTRfootnote%
5565 \let\@xRTLfootnotenext\bidipoem@p@xRTLftntext%
5566 \let\@xRTLfootnote\bidipoem@p@xRTLfootnote%
5567 \ignorespaces##\unskip}&&
5568 \global\setbox\verse@ii=\hbox{%
5569 \let\@footnotetext\bidipoem@p@ftntext%
5570 \let\@LTRfootnotetext\bidipoem@p@LTRftntext%
5571 \let\@RTLfootnotetext\bidipoem@p@RTLftntext%
5572 \let\@xfootnotenext\bidipoem@p@xftntext%
5573 \let\@xfootnote\bidipoem@p@xfootnote%
5574 \let\@xLTRfootnotenext\bidipoem@p@xLTRftntext%
5575 \let\@xLTRfootnote\bidipoem@p@xLTRfootnote%
5576 \let\@xRTLfootnotenext\bidipoem@p@xRTLftntext%
5577 \let\@xRTLfootnote\bidipoem@p@xRTLfootnote%
5578 \ignorespaces##\unskip}
5579 \cr
5580 }
5581 \def\poem@lineparseend{%
5582 \crcr\egroup
5583 \vskip-\baselineskip
5584 }
5585 \def\traditionalpoem@cr{%
5586 \cr\poem@line
5587 }
5588 \newbox\verse@i
5589 \newbox\verse@ii
5590 \newif\ifpoem@started
5591
5592 \def\poem@line{%
5593 \poem@lineparseend
5594 \ifdim\wd\verse@i>\z@\global\poem@startedtrue\fi
5595 \ifdim\wd\verse@ii>\z@\global\poem@startedtrue\fi
5596 \ifpoem@started
5597 \ifdim\wd\verse@ii>\z@\else
5598 \nopagebreak[3]
5599 \fi
5600 \leavevmode
5601 \poem@linebegin
5602 \poem@verse\verse@i

```



```

5603 \ifdim\wd\verse@ii>\z@
5604 \poem@lineversesep
5605 \poem@verse\verse@ii
5606 \fi
5607 \poem@lineend
5608 % \nopagebreak
5609 \par
5610 \vskip\poemextrabaseskip
5611 \fi
5612 \poem@lineparsebegin
5613 }
5614 \def\@traditionalpoem{%
5615 \stepcounter{poem@no}
5616 \ifnum\max@poem@no<\number\c@poem@no%
5617 \xdef\poem@width{\z@}%
5618 \else
5619 \xdef\poem@width{\poem@prop{poem@width}}%
5620 \fi
5621 \xdef\new@poem@width{\z@}%
5622 \global\versewidth=\poem@width

5623 \poemskip\par
5624 \begingroup
5625 \tabskip=\z@
5626 \parskip=\z@
5627 \parindent=\z@
5628 \parfillskip=\z@
5629 \rightskip=\z@
5630 \leftskip=\z@
5631 \widowpenalty=10000% No break between verses of the same line.
5632 \clubpenalty=10000% Same as above. Not really needed.
5633 \def\newblock{\hfil\poemblocksep\hfil\null}%
5634 \def\traditionalpoem@par{\traditionalpoem@cr}% Redefine \par for possible \obeylines
5635 \def\{\{\global\poem@startedtrue\traditionalpoem@cr}%
5636 \global\poem@startedfalse
5637 \csname poem@obeylines\endcsname
5638 \let\poem@obeylines\relax
5639 \poem@lineparsebegin
5640 }
5641 \def\@endtraditionalpoem{%
5642 \cr
5643 \ifdim\wd\verse@i>\z@\poem@line\else\ifdim\wd\verse@ii>\z@\poem@line\else
5644 \noalign{%
5645 \skip0=\poemextrabaseskip
5646 \vskip-\skip0
5647 \vskip-\baselineskip
5648 }%
5649 \fi\fi
5650 \poem@lineparseend
5651 \endgroup

```



```

5652 \par
5653 \vskip\baselineskip
5654 \poemskip
5655 \if@noparlist \else
5656 \ifdim\lastskip >\z@
5657 \@tempskipa\lastskip \vskip -\lastskip
5658 \advance\@tempskipa\parskip \advance\@tempskipa -\outerparskip
5659 \vskip\@tempskipa
5660 \fi
5661 \@endparenv
5662 \fi
5663 \ifdim\new@poem@width<\poem@width
5664 \global\let\poem@needrun\relax
5665 \fi
5666 \poem@write@aux{\poem@width\romannumeral\c@poem@no}\new@poem@width}%
5667 \ifx\AtEndDocument\undefined\poem@finish\fi
5668 }
5669
5670
5671 \long\def\bidipoem@p@ftntext#1{%
5672 \edef\@temp{x{\the\bidipoem@p@ftn\noexpand\footnotetext[\the\csname c@\@mpfn\endcsname]}}%
5673 \global\bidipoem@p@ftn\expandafter{\@temp{x{#1}}}%
5674 \long\def\bidipoem@p@LTRftntext#1{%
5675 \edef\@temp{x{\the\bidipoem@p@ftn\noexpand\LTRfootnotetext[\the\csname c@\@mpfn\endcsname]}}%
5676 \global\bidipoem@p@ftn\expandafter{\@temp{x{#1}}}%
5677 \long\def\bidipoem@p@RTLftntext#1{%
5678 \edef\@temp{x{\the\bidipoem@p@ftn\noexpand\RTLfootnotetext[\the\csname c@\@mpfn\endcsname]}}%
5679 \global\bidipoem@p@ftn\expandafter{\@temp{x{#1}}}%
5680
5681 \long\def\bidipoem@p@xftntext[#1]#2{%
5682 \global\bidipoem@p@ftn\expandafter{\the\bidipoem@p@ftn\footnotetext[#1]{#2}}%
5683
5684 \long\def\bidipoem@p@xLTRftntext[#1]#2{%
5685 \global\bidipoem@p@ftn\expandafter{\the\bidipoem@p@ftn\LTRfootnotetext[#1]{#2}}%
5686
5687 \long\def\bidipoem@p@xRTLftntext[#1]#2{%
5688 \global\bidipoem@p@ftn\expandafter{\the\bidipoem@p@ftn\RTLfootnotetext[#1]{#2}}%
5689
5690 \def\bidipoem@p@xfootnote[#1]{%
5691 \begingroup
5692 \csname c@\@mpfn\endcsname #1\relax
5693 \unrestored@protected@xdef\@thefnmark{\thempfn}%
5694 \endgroup
5695 \@footnotemark\bidipoem@p@xftntext[#1]}
5696
5697 \def\bidipoem@p@xLTRfootnote[#1]{%
5698 \begingroup
5699 \csname c@\@mpfn\endcsname #1\relax
5700 \unrestored@protected@xdef\@thefnmark{\thempfn}%
5701 \endgroup

```



```

5702 \@footnotemark\bidipoem@p@xLTRftntext[#1]}
5703
5704 \def\bidipoem@p@xRTLfootnote[#1]{%
5705     \begingroup
5706         \csname c@\@mpfn\endcsname #1\relax
5707         \unrestored@protected@xdef\@thefnmark{\thempfn}%
5708     \endgroup
5709     \@footnotemark\bidipoem@p@xRTLftntext[#1]}
5710
5711
5712
5713 \newenvironment{traditionalpoem}{\@traditionalpoem}{\@endtraditionalpoem}
5714 \expandafter\def\csname traditionalpoem*\endcsname{\let\poem@obeylines=\traditionalpoem@obeyl
5715 \expandafter\def\csname endtraditionalpoem*\endcsname{\endtraditionalpoem}
5716 \def\poem@finish{%
5717 \poem@write@aux{max@poem@no}{\number\c@poem@no}%
5718 \ifx\poem@needrun\relax
5719 \PackageWarning{bidipoem}{Unjustified poem. Rerun XeLaTeX to get poem right}%
5720 \global\let\poem@needrun\undefined
5721 \fi
5722 }
5723 \ifx\AtEndDocument\undefined\else\AtEndDocument\poem@finish\fi
5724 \newcounter{poem@no}\setcounter{poem@no}{\z@}
5725 \ifx\max@poem@no\undefined
5726     \def\max@poem@no{0}%
5727 \fi
5728 \newcommand{\poem@prop}[1]{\@nameuse{#1@\romannumeral\c@poem@no}}
5729 \newcommand{\poem@write@aux}[2]{%
5730     \def\@x{\immediate\write\@auxout{\global\noexpand\@namedef{#1}{#2}}}%
5731     \@x
5732 }
5733 \def\@modernpoem{%
5734 \par
5735 \begingroup
5736 \parskip=\z@
5737 \parindent=\z@
5738 \def\[{ {\settab\@tabplus\ignorespaces}%
5739 \def\] { {\tabminus\ignorespaces}%
5740 \def\newblock { \poemblocksep}%
5741 \let\newpoem@tabcr\@tabcr
5742 \def\modernpoem@par{% Redefine \par for possible \obeylines
5743     \ifpoem@started\else
5744         \ifdim\wd\@curline>\z@\global\poem@startedtrue\else
5745             \@stopfield
5746             \ifdim\wd\@curfield>\z@\global\poem@startedtrue\fi
5747             \@contfield
5748         \fi
5749     \fi
5750     \ifpoem@started\newpoem@tabcr\fi}%
5751 \def\@tabcr{\global\poem@startedtrue\newpoem@tabcr}%

```





```

5752 \global\poem@startedfalse
5753 \csname poem@obeylines\endcsname
5754 \let\poem@obeylines\relax
5755 \begin{tabbing}%
5756 }
5757 \def\@endmodernpoem{%
5758 \global\poem@startedfalse
5759 \ifdim\wd\@curline>\z@\global\poem@startedtrue\else
5760 \stopfield
5761 \ifdim\wd\@curfield>\z@\global\poem@startedtrue\fi
5762 \contfield
5763 \fi
5764 \ifpoem@started\else\let\stopline\stopfield\fi
5765 \end{tabbing}%
5766 \endgroup
5767 \par
5768 \if@nparlist \else
5769 \ifdim\lastskip >\z@
5770 \tempkipa\lastskip \vskip -\lastskip
5771 \advance\tempkipa\parskip \advance\tempkipa -\outerparskip
5772 \vskip\tempkipa
5773 \fi
5774 \endparenv
5775 \fi
5776 }
5777 \newenvironment{modernpoem}{\@modernpoem}{\@endmodernpoem}
5778 \expandafter\def\csname modernpoem*\endcsname{\let\poem@obeylines=\modernpoem@obeylines\moder
5779 \expandafter\def\csname endmodernpoem*\endcsname{\endmodernpoem}
5780 \gdef\@startfield{%
5781 \global\setbox\@curfield\hbox\bgroup%
5782 \let\@footnotetext\bidipoem@p@ftntext%
5783 \let\@LTRfootnotetext\bidipoem@p@LTRftntext%
5784 \let\@RTLfootnotetext\bidipoem@p@RTLftntext%
5785 \let\@xfootnotenext\bidipoem@p@xftntext%
5786 \let\@xfootnote\bidipoem@p@xfootnote%
5787 \let\@xLTRfootnotenext\bidipoem@p@xLTRftntext%
5788 \let\@xLTRfootnote\bidipoem@p@xLTRfootnote%
5789 \let\@xRTLfootnotenext\bidipoem@p@xRTLftntext%
5790 \let\@xRTLfootnote\bidipoem@p@xRTLfootnote%
5791 \color@begingroup}
5792 \gdef\@stopfield{%
5793 \color@endgroup\egroup\global\bidipoem@p@ftn\expandafter{\expandafter}\the\bidipoem@p@ftn}
5794 \gdef\@contfield{%
5795 \global\setbox\@curfield\hbox\bgroup%
5796 \let\@footnotetext\bidipoem@p@ftntext%
5797 \let\@LTRfootnotetext\bidipoem@p@LTRftntext%
5798 \let\@RTLfootnotetext\bidipoem@p@RTLftntext%
5799 \let\@xfootnotenext\bidipoem@p@xftntext%
5800 \let\@xfootnote\bidipoem@p@xfootnote%
5801 \let\@xLTRfootnotenext\bidipoem@p@xLTRftntext%

```



```

5802 \let\xLTRfootnote\bidipoem@p\xLTRfootnote%
5803 \let\xRTLfootnotenext\bidipoem@p\xRTLftntext%
5804 \let\xRTLfootnote\bidipoem@p\xRTLfootnote%
5805 \color@begingroup\unhbox\@curfield}

```

### 7.31 boek3-xetex-bidi.def

```

5806 \ProvidesFile{boek3-xetex-bidi.def}[2015/11/14 v0.3 bidi adaptations for boek3 class for XeTeX]
5807 \renewenvironment{theindex}{%
5808   \if@twocolumn
5809     \@restonecolfalse
5810   \else
5811     \@restonecoltrue
5812   \fi
5813   \columnseprule \z@
5814   \columnsep 35\p@
5815   \twocolumn[\@makeschapterhead{\indexname}]{%
5816     \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}}%
5817   \thispagestyle{plain}\parindent\z@
5818   \parskip\z@ \@plus .3\p@\relax
5819   \let\item\@idxitem
5820   }{%
5821   \if@restonecol\onecolumn\else\clearpage\fi}
5822 \renewcommand*{\head@style}{%
5823   \interlinepenalty \@M
5824   \hyphenpenalty=\@M \exhyphenpenalty=\@M
5825   \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
5826 \renewcommand*{\regtocline}[3]{%
5827   \ifnum #1>\c@tocdepth
5828   \else
5829     \vskip\z@\@plus.2\p@
5830     {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
5831     \if@RTL\rightskip\else\leftskip\fi\unitindent
5832     \if@RTL\leftskip\else\rightskip\fi\unitindent\@plus 1fil
5833     \parfillskip\z@
5834     \@tempdima\unitindent
5835     \parindent\z@
5836     \leavevmode
5837     \hbox{\hskip -\if@RTL\rightskip\else\leftskip\fi\relax#2\nobreak
5838     \hskip 1em \nobreak{\slshape #3}\par
5839     }%
5840   \fi}
5841 \if@oldtoc
5842 \renewcommand*{\l@part}[2]{%
5843   \ifnum \c@tocdepth >-2\relax
5844     \addpenalty{-\@highpenalty}%
5845     \addvspace{2.25em \@plus\p@}%
5846     \begingroup
5847       \setlength\@tempdima{3em}%
5848       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth

```



```

5849 \parfillskip -\@pnumwidth
5850 {\leavevmode
5851 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
5852 \nobreak
5853 \global\@nobreaktrue
5854 \everypar{\global\@nobreakfalse\everypar{}}%
5855 \endgroup
5856 \fi}
5857 \else
5858 \renewcommand*\l@part{%
5859 \ifnum \c@tocdepth >-2\relax
5860 \addpenalty{-\@highpenalty}%
5861 \addvspace{2.25em \@plus \p@}%
5862 \@regtocline{0}%
5863 \fi}
5864 \fi
5865 \if@oldtoc
5866 \renewcommand*\l@chapter[2]{%
5867 \addpenalty{-\@highpenalty}%
5868 \vskip 1.0em \@plus \p@
5869 \setlength\@tempdima{1.5em}%
5870 \begingroup
5871 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
5872 \parfillskip -\@pnumwidth
5873 \leavevmode \bfseries
5874 \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
5875 \hskip -\if@RTL\rightskip\else\leftskip\fi
5876 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
5877 \penalty\@highpenalty
5878 \endgroup}
5879 \else
5880 \renewcommand*\l@chapter{\@regtocline{0}}
5881 \fi
5882 \renewenvironment{abstract}{%
5883 \titlepage
5884 \null\vfil
5885 \section*{\SectFont \abstractname}
5886 \noindent\ignorespaces}
5887 {\par\vfil\null\endtitlepage}
5888 \renewenvironment{thebibliography}[1]
5889 {\chapter*{\bibname}%
5890 \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
5891 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
5892 \list{\@biblabel{\@arabic\c@enumiv}}%
5893 {\settowidth\labelwidth{\@biblabel{#1}}%
5894 \leftmargin\labelwidth
5895 \advance\leftmargin\labelsep
5896 \@openbib@code
5897 \usecounter{enumiv}%
5898 \let\p@enumiv\@empty

```



```

5899         \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
5900         \sloppy\clubpenalty4000\widowpenalty4000%
5901         \sfcode\.\@m}
5902     {\def\@noitemerr
5903      {\@latex@warning{Empty `thebibliography' environment}}}%
5904     \endlist}
5905 \renewcommand*\left@footnoterule{%
5906   \kern-3\p@
5907   \kern.5\baselineskip
5908   \hrule\@width\unitindent
5909   \kern.4\baselineskip
5910 }
5911 \renewcommand*\right@footnoterule{%
5912   \kern-3\p@
5913   \kern.5\baselineskip
5914   \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
5915   \kern.4\baselineskip}
5916 \renewcommand*\thesection{\thechapter\@SepMark\@arabic\c@section}
5917 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
5918 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
5919 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
5920 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
5921 \renewcommand*\theequation{%
5922   \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@equation}
5923 \renewcommand*\thefigure{%
5924   \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@figure}
5925 \renewcommand*\thetable{%
5926   \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@table}
5927 \renewcommand*\maketitle{%
5928   \begin{titlepage}%
5929     \let\footnotesize\small
5930     \let\right@footnoterule\relax
5931     \let\left@footnoterule\relax
5932     \let\textwidth\footnoterule\relax
5933     \let \footnote \thanks
5934     \long\def\@makefnmark##1{\parindent\z@
5935       \def\labelitemi{\textendash}\@revlabeltrue
5936       \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
5937     \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
5938     \if@compatibility\setcounter{page}{0}\fi
5939     \null\vfil
5940     \vskip 60\p@
5941     \begin{center}%
5942       \TitleFont
5943       {\LARGE \def\\{\penalty -\@M}
5944         \if@allcaps
5945           \expandafter\uc@nothanks\@title\thanks\relax
5946         \else
5947           \@title
5948         \fi\par}%

```



```

5949 \vskip 3em%
5950 {\large
5951 \lineskip .75em \parindent\z@
5952 \begin{tabular}[t]{c}%
5953 \if@allcaps
5954 \expandafter\uc@authornothanks\@author\and\relax
5955 \else
5956 \@author
5957 \fi
5958 \end{tabular}\par}%
5959 \vskip 1.5em%
5960 {\large
5961 \if@allcaps
5962 \uppercase\expandafter{\@date}%
5963 \else
5964 \@date
5965 \fi\par}%
5966 \end{center}\par
5967 \@thanks
5968 \vfil\null
5969 \end{titlepage}%
5970 \setcounter{footnote}{0}%
5971 \global\let\thanks\relax
5972 \global\let\maketitle\relax
5973 \global\let\@thanks\@empty
5974 \global\let\@author\@empty
5975 \global\let\@title\@empty
5976 \global\let\@date\@empty
5977 \global\let\title\relax
5978 \global\let\author\relax
5979 \global\let\date\relax
5980 \global\let\and\relax
5981 }

```

## 7.32 boek-xetex-bidi.def

```

5982 \ProvidesFile{boek-xetex-bidi.def}[2015/11/14 v0.3 bidi adaptations for boek class for XeTeX]
5983 \renewenvironment{theindex}{%
5984 \if@twocolumn
5985 \@restonecolfalse
5986 \else
5987 \@restonecoltrue
5988 \fi
5989 \columnseprule \z@
5990 \columnsep 35\p@
5991 \twocolumn[\@makeschapterhead{\indexname}]{%
5992 \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}}%
5993 \thispagestyle{plain}\parindent\z@
5994 \parskip\z@ \@plus .3\p@\relax
5995 \let\item\@idxitem

```



```

5996 }{%
5997 \if@restonecol\onecolumn\else\clearpage\fi}
5998 \renewcommand*\head@style{%
5999 \interlinepenalty \@M
6000 \hyphenpenalty=\@M \exhyphenpenalty=\@M
6001 \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
6002 \renewcommand*\@regtocline[3]{%
6003 \ifnum #1>\c@tocdepth
6004 \else
6005 \vskip\z@\@plus.2\p@
6006 {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
6007 \if@RTL\rightskip\else\leftskip\fi\unitindent
6008 \if@RTL\leftskip\else\rightskip\fi\unitindent\@plus 1fil
6009 \parfillskip\z@
6010 \@tempdima\unitindent
6011 \parindent\z@
6012 \leavevmode
6013 \hbox{}\hskip -\if@RTL\rightskip\else\leftskip\fi\relax#2\nobreak
6014 \hskip 1em \nobreak{\slshape #3}\par
6015 }%
6016 \fi}
6017 \if@oldtoc
6018 \renewcommand*\l@part[2]{%
6019 \ifnum \c@tocdepth >-2\relax
6020 \addpenalty{-\@highpenalty}%
6021 \addvspace{2.25em \@plus\p@}%
6022 \begingroup
6023 \setlength\@tempdima{3em}%
6024 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
6025 \parfillskip -\@pnumwidth
6026 {\leavevmode
6027 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
6028 \nobreak
6029 \global\@nobreaktrue
6030 \everypar{\global\@nobreakfalse\everypar{}}%
6031 \endgroup
6032 \fi}
6033 \else
6034 \renewcommand*\l@part{%
6035 \ifnum \c@tocdepth >-2\relax
6036 \addpenalty{-\@highpenalty}%
6037 \addvspace{2.25em \@plus\p@}%
6038 \@regtocline{0}%
6039 \fi}
6040 \fi
6041 \if@oldtoc
6042 \renewcommand*\l@chapter[2]{%
6043 \addpenalty{-\@highpenalty}%
6044 \vskip 1.0em \@plus\p@
6045 \setlength\@tempdima{1.5em}%

```



```

6046 \beginngroup
6047 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
6048 \parfillskip -\@pnumwidth
6049 \leavevmode \bfseries
6050 \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
6051 \hskip -\if@RTL\rightskip\else\leftskip\fi
6052 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
6053 \penalty\@highpenalty
6054 \endgroup}
6055 \else
6056 \renewcommand*\l@chapter{\@regtocline{0}}
6057 \fi
6058 \renewcommand*\left@footnoterule{%
6059 \kern-3\p@
6060 \kern.5\baselineskip
6061 \hrule\@width\unitindent
6062 \kern.4\baselineskip
6063 }
6064 \renewcommand*\right@footnoterule{%
6065 \kern-3\p@
6066 \kern.5\baselineskip
6067 \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
6068 \kern.4\baselineskip}
6069 \renewenvironment{abstract}{%
6070 \titlepage
6071 \null\vfil
6072 \section*{\SectFont \abstractname}
6073 \noindent\ignorespaces}
6074 {\par\vfil\null\endtitlepage}
6075 \renewenvironment{thebibliography}[1]
6076 {\chapter*{\bibname}%
6077 \mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
6078 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
6079 \list{\@biblabel{\@arabic\c@enumiv}}%
6080 {\settowidth\labelwidth{\@biblabel{#1}}%
6081 \leftmargin\labelwidth
6082 \advance\leftmargin\labelsep
6083 \openbib@code
6084 \usecounter{enumiv}%
6085 \let\p@enumiv\@empty
6086 \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
6087 \sloppy\clubpenalty4000\widowpenalty4000%
6088 \sfcode\.\@m}
6089 {\def\@noitemerr
6090 {\@latex@warning{Empty `thebibliography' environment}}%
6091 \endlist}
6092 \renewcommand*\thesection{\thechapter\@SepMark\@arabic\c@section}
6093 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\csubsection}
6094 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
6095 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}

```



```

6096 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
6097 \renewcommand*\theequation{%
6098   \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@equation}
6099 \renewcommand*\thefigure{%
6100   \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@figure}
6101 \renewcommand*\thetable{%
6102   \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@table}
6103 \renewcommand*\maketitle{%
6104   \begin{titlepage}%
6105     \let\footnotesize\small
6106     \let\right@footnoterule\relax
6107     \let\left@footnoterule\relax
6108     \let\textwidth\footnoterule\relax
6109     \let \footnote \thanks
6110     \long\def\@makefnmark##1{\parindent\z@
6111       \def\labelitemi{\textendash}\@revlabeltrue
6112       \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
6113     \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
6114     \if@compatibility\setcounter{page}{0}\fi
6115     \null\vfil
6116     \vskip 60\p@
6117     \begin{center}%
6118       \TitleFont
6119       {\LARGE \def\\{\penalty -\@M}
6120         \if@allcaps
6121           \expandafter\uc@nothanks\@title\thanks\relax
6122         \else
6123           \@title
6124         \fi\par}%
6125       \vskip 3em%
6126       {\large
6127         \lineskip .75em \parindent\z@
6128         \begin{tabular}[t]{c}%
6129           \if@allcaps
6130             \expandafter\uc@authornothanks\@author\and\relax
6131           \else
6132             \@author
6133           \fi
6134         \end{tabular}\par}%
6135       \vskip 1.5em%
6136       {\large
6137         \if@allcaps
6138           \uppercase\expandafter{\@date}%
6139         \else
6140           \@date
6141         \fi\par}%
6142       \end{center}\par
6143       \@thanks
6144       \vfil\null
6145     \end{titlepage}%

```





```

6146 \setcounter{footnote}{0}%
6147 \global\let\thanks\relax
6148 \global\let\maketitle\relax
6149 \global\let\@thanks\@empty
6150 \global\let\@author\@empty
6151 \global\let\@title\@empty
6152 \global\let\@date\@empty
6153 \global\let\title\relax
6154 \global\let\author\relax
6155 \global\let\date\relax
6156 \global\let\and\relax
6157 }

```

### 7.33 **bookest-xetex-bidi.def**

```

6158 \ProvidesFile{bookest-xetex-bidi.def}[2010/07/25 v0.4 bidi adaptations for bookest class for
6159 \def\@makechapterhead#1{%
6160   \vspace*{20\p@}
6161   {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont
6162     \ifnum \c@secnumdepth >\m@ne
6163       \if@mainmatter
6164         {\colorA\huge\scshape \@chapapp\space \thechapter}
6165         \par\nobreak
6166         \vskip 10\p@
6167       \fi
6168     \fi
6169     \interlinepenalty\@M
6170     {\colorB\hrule}
6171     \vskip 15\p@
6172     \if@RTL\begin{flushleft}\else\begin{flushright}\fi
6173       {\colorA\Huge \bfseries #1}\par\nobreak
6174     \if@RTL\end{flushleft}\else\end{flushright}\fi
6175     \vskip 5\p@
6176     {\colorB\hrule}
6177     \vskip 30\p@
6178   }}
6179 \def\@makeschapterhead#1{%
6180   \vspace*{20\p@}
6181   {\parindent \z@ \raggedright \normalfont
6182     {\colorB\hrule}
6183     \vskip 15\p@
6184     \begin{center}
6185       {\colorA\Huge \bfseries #1}\par\nobreak
6186     \end{center}
6187     \vskip 5\p@
6188     {\colorB\hrule}
6189     \vskip 30\p@
6190   }}

```

### 7.34 **book-xetex-bidi.def**



```

6191 \ProvidesFile{book-xetex-bidi.def}[2015/11/14 v0.9 bidi adaptations for standard book class f
6192 \renewenvironment{theindex}
6193     {\if@twocolumn
6194       \@restonecolfalse
6195       \else
6196       \@restonecoltrue
6197       \fi
6198       \columnseprule \z@
6199       \columnsep 35\p@
6200       \twocolumn[\@makeschapterhead{\indexname}]}%
6201       \@mkboth{\MakeUppercase\indexname}%
6202               {\MakeUppercase\indexname}%
6203       \thispagestyle{plain}\parindent\z@
6204       \parskip\z@ \@plus .3\p@\relax
6205       \let\item\@idxitem}
6206     {\if@restonecol\onecolumn\else\clearpage\fi}
6207 \@ifclassloaded{bookest}{-}{%
6208   \if@titlepage
6209   \renewcommand\maketitle{\begin{titlepage}%
6210     \let\footnotesize\small
6211     \let\right@footnoterule\relax
6212     \let\left@footnoterule\relax
6213     \let\textwidth\footnoterule\relax
6214     \let \footnote \thanks
6215     \let \LTRfootnote \LTRthanks
6216     \let \RTLfootnote \RTLthanks
6217     \null\vfil
6218     \vskip 60\p@
6219     \begin{center}%
6220       {\LARGE \@title \par}%
6221       \vskip 3em%
6222       {\large
6223         \lineskip .75em%
6224         \begin{tabular}[t]{c}%
6225           \@author
6226           \end{tabular}\par}%
6227         \vskip 1.5em%
6228         {\large \@date \par}%           % Set date in \large size.
6229     \end{center}\par
6230     \@thanks
6231     \vfil\null
6232   \end{titlepage}%
6233   \setcounter{footnote}{0}%
6234   \global\let\thanks\relax
6235   \global\let\LTRthanks\relax
6236   \global\let\RTLthanks\relax
6237   \global\let\maketitle\relax
6238   \global\let\@thanks\@empty
6239   \global\let\@author\@empty
6240   \global\let\@date\@empty

```



```

6241 \global\let\@title\@empty
6242 \global\let\title\relax
6243 \global\let\author\relax
6244 \global\let\date\relax
6245 \global\let\and\relax
6246 }
6247 \else
6248 \renewcommand\maketitle{\par
6249 \begingroup
6250 \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
6251 \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
6252 \long\def\@makefntext##1{\parindent 1em\noindent
6253 \hb@xt@1.8em{%
6254 \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
6255 \if@twocolumn
6256 \ifnum \col@number=\@ne
6257 \@maketitle
6258 \else
6259 \twocolumn[\@maketitle]%
6260 \fi
6261 \else
6262 \newpage
6263 \global\@topnum\z@ % Prevents figures from going at top of page.
6264 \@maketitle
6265 \fi
6266 \thispagestyle{plain}\@thanks
6267 \endgroup
6268 \setcounter{footnote}{0}%
6269 \global\let\thanks\relax
6270 \global\let\LTRthanks\relax
6271 \global\let\RTLthanks\relax
6272 \global\let\maketitle\relax
6273 \global\let\@maketitle\relax
6274 \global\let\@thanks\@empty
6275 \global\let\@author\@empty
6276 \global\let\@date\@empty
6277 \global\let\@title\@empty
6278 \global\let\title\relax
6279 \global\let\author\relax
6280 \global\let\date\relax
6281 \global\let\and\relax
6282 }
6283 \def\@maketitle{%
6284 \newpage
6285 \null
6286 \vskip 2em%
6287 \begin{center}%
6288 \let \footnote \thanks
6289 \let \LTRfootnote \LTRthanks
6290 \let \RTLfootnote \RTLthanks

```



```

6291     {\LARGE \@title \par}%
6292     \vskip 1.5em%
6293     {\large
6294       \lineskip .5em%
6295       \begin{tabular}[t]{c}%
6296         \@author
6297       \end{tabular}\par}%
6298     \vskip 1em%
6299     {\large \@date}%
6300 \end{center}%
6301 \par
6302 \vskip 1.5em}
6303 \fi}
6304 \renewcommand*\l@part[2]{%
6305   \ifnum \c@tocdepth >-2\relax
6306     \addpenalty{-\@highpenalty}%
6307     \addvspace{2.25em \@plus\p@}%
6308     \setlength\@tempdima{3em}%
6309     \begingroup
6310       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
6311       \parfillskip -\@pnumwidth
6312       {\leavevmode
6313         \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
6314       \nobreak
6315       \global\@nobreaktrue
6316       \everypar{\global\@nobreakfalse\everypar{}}%
6317     \endgroup
6318   \fi}
6319 \renewcommand*\l@chapter[2]{%
6320   \ifnum \c@tocdepth >\m@ne
6321     \addpenalty{-\@highpenalty}%
6322     \vskip 1.0em \@plus\p@
6323     \setlength\@tempdima{1.5em}%
6324     \begingroup
6325       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
6326       \parfillskip -\@pnumwidth
6327       \leavevmode \bfseries
6328       \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
6329       \hskip -\if@RTL\rightskip\else\leftskip\fi
6330       #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
6331       \penalty\@highpenalty
6332     \endgroup
6333   \fi}
6334 \renewcommand\left@footnoterule{%
6335   \kern-3\p@
6336   \hrule\@width.4\columnwidth
6337   \kern2.6\p@}
6338 \renewcommand\right@footnoterule{%
6339   \kern-3\p@
6340   \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }}

```



```

6341 \kern2.6\p@}
6342 \renewcommand\theequation
6343 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
6344 \renewcommand \thefigure
6345 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
6346 \renewcommand \thetable
6347 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
6348 \renewcommand \thechapter {\@arabic\c@chapter}
6349 \renewcommand \thesection {\thechapter\@SepMark\@arabic\c@section}
6350 \renewcommand\thesubsection {\thesection\@SepMark\@arabic\c@subsection}
6351 \renewcommand\thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
6352 \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
6353 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
6354 \def\@makechapterhead#1{%
6355 \vspace*{50\p@}%
6356 {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont
6357 \ifnum \c@secnumdepth >\m@ne
6358 \if@mainmatter
6359 \huge\bfseries \@chapapp\space \thechapter
6360 \par\nobreak
6361 \vskip 20\p@
6362 \fi
6363 \fi
6364 \interlinepenalty\@M
6365 \Huge \bfseries #1\par\nobreak
6366 \vskip 40\p@
6367 }}
6368 \def\@makeschapterhead#1{%
6369 \vspace*{50\p@}%
6370 {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
6371 \normalfont
6372 \interlinepenalty\@M
6373 \Huge \bfseries #1\par\nobreak
6374 \vskip 40\p@
6375 }}
6376 \renewcommand\backmatter{%
6377 \if@openright
6378 \cleardoublepage
6379 \else
6380 \clearpage
6381 \fi
6382 \@mainmatterfalse}
6383 \renewenvironment{thebibliography}[1]
6384 {\chapter*{\bibname}%
6385 \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
6386 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
6387 \list{\@biblabel{\@arabic\c@enumiv}}%
6388 {\settowidth\labelwidth{\@biblabel{#1}}%
6389 \leftmargin\labelwidth
6390 \advance\leftmargin\labelsep

```



```

6391         \@openbib@code
6392         \usecounter{enumiv}%
6393         \let\p@enumiv\@empty
6394         \renewcommand\theenumiv{\@arabic\c@enumiv}}%
6395     \sloppy
6396     \clubpenalty4000
6397     \@clubpenalty \clubpenalty
6398     \widowpenalty4000%
6399     \sfcode\.\@m}
6400     {\def\@noitemerr
6401      {\@latex@warning{Empty `thebibliography' environment}}}%
6402     \endlist}

```

### 7.35 breqn-xetex-bidi.def

```

6403 \ProvidesFile{breqn-xetex-bidi.def}[2016/09/12 v0.2 bidi adaptations for breqn package for Xe
6404 \def\@dmath[#1]{\if@RTL\@RTLfalse\fi%
6405   \everydisplay\expandafter{\the\everydisplay \display@setup}%
6406   \if@noskipsec \leavevmode \fi
6407   \if@inlabel \leavevmode \global\@inlabelfalse \fi
6408   \if@eq@group\else\eq@prelim\fi
6409   \setkeys{breqn}{#1}%
6410   \the\eqstyle
6411   \eq@setnumber
6412   \begingroup
6413   \eq@setup@a
6414   \eq@startup
6415 }
6416 \def\@dgroup[#1]{\if@RTL\@RTLfalse\fi%
6417   \let\eq@group\@True \global\let\eq@GRP@first@dmath\@True
6418   \global\GRP@queue\@emptytoks \global\setbox\GRP@box\box\voidb@x
6419   \global\let\GRP@label\@empty
6420   \global\grp@wdL\z@\global\grp@wdR\z@\global\grp@wdT\z@
6421   \global\grp@linewidth\z@\global\grp@wdNum\z@
6422   \global\let\grp@eqs@numbered\@False
6423   \global\let\grp@aligned\@True
6424   \global\let\grp@shiftnumber\@False
6425   \eq@prelim
6426   \setkeys{breqn}{#1}%
6427   \if\grp@hasNumber \grp@setnumber \fi
6428 }
6429 \def\@dseries[#1]{\if@RTL\@RTLfalse\fi%
6430   \let\display@setup\dseries@display@setup
6431   % Question: should this be the default for dseries???
6432   \global\eq@wdCond\z@
6433   \@dmath[layout={M},#1]%
6434   \mathsurround\z@\@math \penalty\@Mi
6435   \let\endmath\ends@math
6436   \def\premath{%
6437     \ifdim\lastskip<.3em \unskip

```



```

6438 \else\ifnum\lastpenalty<\@M \dquad\fi\fi
6439 }%
6440 \def\postmath{\unpenalty\eq@addpunct \penalty\intermath@penalty \dquad \@ignoretrue}%
6441 \ignorespaces
6442 }
6443 \def\eqnumform#1{\if@nonlatin\beginR\@RTLtrue\fi(#1\@@italiccorr)\if@nonlatin\endR\fi}
6444 \renewenvironment{dsuspend}{%
6445 \global\setbox\EQ@box\vbox\bgroup\if@nonlatin\@RTLtrue\fi \@parboxrestore
6446 \parshape 1 \displayindent \displaywidth\relax
6447 \hsize=\columnwidth \noindent\ignorespaces
6448 }{%
6449 \par\egroup
6450 \global\setbox\GRP@box\vbox{%
6451 \hbox{\copy\EQ@box\top{\unvbox\EQ@box}}%
6452 \unvbox\GRP@box
6453 }%
6454 \global\GRP@queue\exp{\the\GRP@queue
6455 \elt{\let\eq@isIntertext\@True}%
6456 }%
6457 }

```

## 7.36 cals-xetex-bidi.def

```

6458 \ProvidesFile{cals-xetex-bidi.def}[2016/11/30 v0.4 bidi adaptations for cals package for XeTeX]
6459 \renewcommand\cals@setup@alignment[1]{%
6460 \if c#1\relax \cals@vfillAdd \leftskip \cals@vfillAdd \rightskip \fi
6461 \if l#1\relax \cals@vfillDrop\leftskip \cals@vfillDrop\rightskip \fi
6462 \if r#1\relax \cals@vfillAdd \leftskip \cals@vfillDrop\rightskip \fi
6463 }
6464 \renewcommand\cals@table@alignment{\if@RTLtab r\else l\fi}
6465 \renewenvironment{calstable}[1][\cals@table@alignment]{%
6466 \if@RTLtab\cals@activate@rtl\fi
6467 \let\cals@thead@tokens=\relax
6468 \let\cals@tfoot@tokens=\relax
6469 \let\cals@tbody@tokens=\relax
6470 \cals@tfoot@height=0pt \relax
6471 \let\cals@last@context=n%
6472 \let\cals@current@context=b%
6473 \parindent=0pt \relax%
6474 \cals@setup@alignment{#1}%
6475 \cals@setpadding{Ag}\cals@setcellprevdepth{Al}\cals@set@tohsize%
6476 %% Alignment inside is independent on center/flushright outside
6477 \parfillskip=0pt plus1fil\relax
6478 \let\cals@borderL=\relax
6479 \let\cals@borderR=\relax
6480 \let\cals@borderT=\relax
6481 \let\cals@borderB=\relax
6482 \setbox\cals@backup@row=\box\voidb@x\relax
6483 \cals@AtBeginTable
6484 }{% End of the table

```



```

6485 \cals@tfoot@tokens\lastrule\cals@AtEndTable}
6486 \renewcommand\alignL{%
6487 \if@RTLtab
6488 \cals@vfillAdd\cals@paddingL
6489 \else
6490 \cals@vfillDrop\cals@paddingL
6491 \fi
6492 \cals@vfillDrop\cals@paddingR}
6493 \renewcommand\alignR{%
6494 \if@RTLtab
6495 \cals@vfillDrop\cals@paddingL
6496 \else
6497 \cals@vfillAdd\cals@paddingL
6498 \fi
6499 \cals@vfillDrop\cals@paddingR}

```

### 7.37 caption-xetex-bidi.def

```

6500 \ProvidesFile{caption-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for caption package for
6501 \let\@makecaption\caption@makecaption

```

### 7.38 caption3-xetex-bidi.def

```

6502 \ProvidesFile{caption3-xetex-bidi.def}[2013/04/01 v0.1 bidi adaptations for caption3 package
6503 \renewcommand*\caption@par{%
6504 \parindent\caption@parindent\hangindent\if@RTL-\fi\caption@hangindent}%

```

### 7.39 colortbl-xetex-bidi.def

```

6505 \ProvidesFile{colortbl-xetex-bidi.def}[2012/06/10 v0.2 bidi adaptations for colortbl package
6506 \def\CT@setup{%
6507 \@tempdimb\col@sep
6508 \@tempdimc\col@sep
6509 \def\CT@color{%
6510 \global\let\CT@do@color\CT@@do@color
6511 \bidicolor}}
6512 \def\@classz{\@classx
6513 \@tempcnta\count@
6514 \prepnext@tok
6515 \expandafter\CT@extract\the\toks\@tempcnta\columncolor!\@nil
6516 \@addtopreamble{\if@RTLtab\beginL\fi%
6517 \setbox\z@\hbox\bgroup\bgroup\if@RTLtab\beginR\fi
6518 \ifcase \@chnum
6519 \hskip\stretch{.5}\kern\z@
6520 \dollarbegin
6521 \insert@column
6522 \dollarend\hskip\stretch{.5}\or
6523 \dollarbegin \insert@column \dollarend \hfill \or
6524 \hfill\kern\z@ \dollarbegin \insert@column \dollarend \or
6525 $\vcenter
6526 \startpbox{\@nextchar}\insert@column \endpbox $\or
6527 \vtop \startpbox{\@nextchar}\insert@column \endpbox \or

```





```

6528 \vbox \@startpbox{\@nextchar}\insert@column \@endpbox
6529 \fi
6530 \if@RTLtab\endR\fi\egroup\egroup
6531 \beginngroup
6532 \CT@setup
6533 \CT@column@color
6534 \CT@row@color
6535 \CT@cell@color
6536 \CT@do@color
6537 \endgroup
6538 \tempdima\ht\z@
6539 \advance\tempdima\minrowclearance
6540 \vrule\@height\tempdima\@width\z@
6541 \unhbox\z@\if@RTLtab\endL\fi}%
6542 \prepnext@tok}

```

## 7.40 color-xetex-bidi.def

```

6543 \ProvidesFile{color-xetex-bidi.def}[2013/04/08 v0.2 bidi adaptations for color package for Xe
6544 \long\def\color@b@x#1#2#3{%
6545 \leavevmode\ifmmode\else\if@RTL\beginL\fi\fi
6546 \setbox\z@\hbox{\kern\fbboxsep\set@color\if@RTL\beginR\fi#3\if@RTL\endR\fi}\kern\fbboxsep}%
6547 \dimen@ \ht\z@\advance\dimen@\fbboxsep\ht\z@\dimen@
6548 \dimen@ \dp\z@\advance\dimen@\fbboxsep\dp\z@\dimen@
6549 {\#1{\#2\color@block{\wd\z@}{\ht\z@}{\dp\z@}%
6550 \box\z@}}\ifmmode\else\if@RTL\endL\fi\fi}
6551 \def\normalcolor{\let\current@color\default@color\ifhmode\if@RTL\beginL\aftergroup\endR\fi\fi}
6552 \DeclareRobustCommand\color{%
6553 \ifhmode\if@RTL\beginL\aftergroup\endR\fi\fi\@ifnextchar[\@undeclaredcolor\@declaredcolor}%
6554 \def\@declaredcolor#1{%
6555 \@ifundefined{string\color @#1}%
6556 {\c@lor@error{`#1'}}%
6557 {\expandafter\let\expandafter\current@color
6558 \csname\string\color @#1\endcsname
6559 \set@color}%
6560 \ifhmode\if@RTL\beginR\aftergroup\endL\fi\fi\ignorespaces}
6561 \def\@undeclaredcolor[#1]#2{%
6562 \@ifundefined{color@#1}%
6563 {\c@lor@error{model `#1'}}%
6564 {\csname color@#1\endcsname\current@color{#2}%
6565 \set@color}%
6566 \ifhmode\if@RTL\beginR\aftergroup\endL\fi\fi\ignorespaces}
6567 \DeclareRobustCommand\bidicolor{%
6568 \@ifnextchar[\@bidiundeclaredcolor\@bidideclaredcolor}%
6569 \def\@bidiundeclaredcolor[#1]#2{%
6570 \@ifundefined{color@#1}%
6571 {\c@lor@error{model `#1'}}%
6572 {\csname color@#1\endcsname\current@color{#2}%
6573 \set@color}%
6574 \ignorespaces}

```



```

6575 \def\@bidideclaredcolor#1{%
6576   \ifundefined{\string\color @#1}%
6577     {\color@error{`#1'}}%
6578     {\expandafter\let\expandafter\current@color
6579       \csname\string\color @#1\endcsname
6580       \set@color}%
6581   \ignorespaces}
6582 \def\color@box#1#2{\color@b@x\relax{\bidicolor#1{#2}}}
6583 \def\color@fbox#1#2#3{%
6584   \color@b@x{\fboxsep\z@\bidicolor#1{#2}\fbox}{\bidicolor#1{#3}}}
6585 \def\color@setgroup{\begingroup\ifhmode\if@RTL\beginL\aftergroup\endR\fi\fi\set@color\ifhmode

```

## 7.41 combine-xetex-bidi.def

```

6586 \ProvidesFile{combine-xetex-bidi.def}[2011/09/23 v0.1 bidi adaptations for combine class for
6587 \renewcommand{\c@ll@chapsecii}[2]{%
6588   \if@RTL\advance\rightskip\@tempdima\else\advance\leftskip\@tempdima\fi
6589   \if@RTL\hskip -\rightskip\else\hskip -\leftskip\fi
6590   #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
6591 }
6592 \renewcommand{\c@ll@chapseci}{%
6593   \setlength\@tempdima{0em}%
6594   \begingroup
6595     \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
6596     \parfillskip -\@pnumwidth
6597     \leavevmode
6598 }
6599 \renewenvironment{tocindent}[1]{%
6600   \hangindent \if@RTL-\fi#1 \hangafter -100\relax}{%

```

## 7.42 crop-xetex-bidi.def

```

6601 \ProvidesFile{crop-xetex-bidi.def}[2013/04/10 v0.2 bidi adaptations for crop package for XeTeX
6602 \renewcommand*{\CROP@ulc}{%
6603   \if@RTLmain%
6604     \begin{picture}(0,0)
6605       \unitlength\p@\thinline
6606       \put(-40,0){\circle{10}}
6607       \put(-30,-5){\line(0,1){10}}
6608       \put(-35,0){\line(1,0){30}}
6609       \put(-10,30){\circle{10}}
6610       \put(-5,30){\line(1,0){10}}
6611       \put(0,35){\line(0,-1){30}}
6612     \end{picture}%
6613   \else%
6614     \begin{picture}(0,0)
6615       \unitlength\p@\thinline
6616       \put(-30,0){\circle{10}}
6617       \put(-30,-5){\line(0,1){10}}
6618       \put(-35,0){\line(1,0){30}}
6619       \put(0,30){\circle{10}}

```



```

6620      \put(-5,30){\line(1,0){10}}
6621      \put(0,35){\line(0,-1){30}}
6622      \end{picture}%
6623      \fi%
6624  }
6625  \renewcommand*\CROP@urc{%
6626    \if@RTLmain%
6627      \begin{picture}(0,0)
6628        \unitlength\p@\thinlines
6629        \put(20,0){\circle{10}}
6630        \put(30,-5){\line(0,1){10}}
6631        \put(35,0){\line(-1,0){30}}
6632        \put(-10,30){\circle{10}}
6633        \put(-5,30){\line(1,0){10}}
6634        \put(0,35){\line(0,-1){30}}
6635      \end{picture}%
6636    \else%
6637      \begin{picture}(0,0)
6638        \unitlength\p@\thinlines
6639        \put(30,0){\circle{10}}
6640        \put(30,-5){\line(0,1){10}}
6641        \put(35,0){\line(-1,0){30}}
6642        \put(0,30){\circle{10}}
6643        \put(-5,30){\line(1,0){10}}
6644        \put(0,35){\line(0,-1){30}}
6645      \end{picture}%
6646      \fi%
6647  }
6648  \renewcommand*\CROP@llc{%
6649    \if@RTLmain%
6650      \begin{picture}(0,0)
6651        \unitlength\p@\thinlines
6652        \put(-40,0){\circle{10}}
6653        \put(-30,-5){\line(0,1){10}}
6654        \put(-35,0){\line(1,0){30}}
6655        \put(-10,-30){\circle{10}}
6656        \put(-5,-30){\line(1,0){10}}
6657        \put(0,-35){\line(0,1){30}}
6658      \end{picture}%
6659    \else%
6660      \begin{picture}(0,0)
6661        \unitlength\p@\thinlines
6662        \put(-30,0){\circle{10}}
6663        \put(-30,-5){\line(0,1){10}}
6664        \put(-35,0){\line(1,0){30}}
6665        \put(0,-30){\circle{10}}
6666        \put(-5,-30){\line(1,0){10}}
6667        \put(0,-35){\line(0,1){30}}
6668      \end{picture}%
6669      \fi%

```



```

6670 }
6671 \renewcommand*\CROP@lrc{%
6672   \if@RTLmain%
6673     \begin{picture}(0,0)
6674       \unitlength\p@\thinline
6675       \put(20,0){\circle{10}}
6676       \put(30,-5){\line(0,1){10}}
6677       \put(35,0){\line(-1,0){30}}
6678       \put(-10,-30){\circle{10}}
6679       \put(-5,-30){\line(1,0){10}}
6680       \put(0,-35){\line(0,1){30}}
6681     \end{picture}%
6682   \else%
6683     \begin{picture}(0,0)
6684       \unitlength\p@\thinline
6685       \put(30,0){\circle{10}}
6686       \put(30,-5){\line(0,1){10}}
6687       \put(35,0){\line(-1,0){30}}
6688       \put(0,-30){\circle{10}}
6689       \put(-5,-30){\line(1,0){10}}
6690       \put(0,-35){\line(0,1){30}}
6691     \end{picture}%
6692   \fi%
6693 }
6694 \@ifpackagewith{crop}{cam}{%
6695 \CROP@execopt{cam}%
6696 }{}

```

## 7.43 cutwin-xetex-bidi.def

```

6697 \ProvidesFile{cutwin-xetex-bidi.def}[2011/11/12 v0.1 bidi adaptations for cutwin package for
6698 \renewcommand*\c@twcompctr}[2]{%
6699   \def\c@twfirst{1}
6700   \loop\advance\c@twwinlines\m@ne
6701   \setbox\c@twslicea=\vsplit#1 to\baselineskip
6702   \setbox\c@twsliceb=\vsplit#1 to\baselineskip
6703   \c@twprune{\c@twslicea}{\c@twlftside}%
6704   \c@twprune{\c@twsliceb}{\c@twrtside}%
6705   \ifnum\c@twfirst=\@ne
6706     \setbox#2=\vbox{\unvbox#2\hbox
6707       to\hsize{\if@RTL\box\c@twsliceb\else\box\c@twslicea\fi\pageinwindow\hfil\if@RTL\box\c@tw
6708     \else
6709       \setbox#2=\vbox{\unvbox#2\hbox
6710       to\hsize{\if@RTL\box\c@twsliceb\else\box\c@twslicea\fi\hfil\if@RTL\box\c@twslicea\else\bo
6711     \fi
6712   \def\c@twfirst{2}
6713   \ifnum\c@twwinlines>\z@\repeat}
6714 \renewcommand*\c@twcompodctr}[2]{%
6715   \def\c@twrounds{1}
6716   \def\c@twfirst{1}

```



```

6717 \@for\c@twlspec:=\c@twb\do{%
6718   \ifnum\c@twrounds=1
6719     \setbox\c@twslicea=\vsplit#1 to\baselineskip % first of pair
6720     \c@twprune{\c@twslicea}{\c@twlspec}%
6721     \def\c@twrounds{2}
6722   \else
6723     \setbox\c@twsliceb=\vsplit#1 to\baselineskip % second of pair
6724     \c@twprune{\c@twsliceb}{\c@twlspec}%
6725     \ifnum\c@twfirst=1
6726       \setbox#2=\vbox{\unvbox#2\hbox
6727         to\hsize\if@RTL\box\c@twsliceb\else\box\c@twslicea\fi\hfil\picinwindow\hfil\if@RTL\box\c@twsliceb\else\box\c@twslicea\fi}
6728       \def\c@twfirst{2}
6729     \else
6730       \setbox#2=\vbox{\unvbox#2\hbox
6731         to\hsize\if@RTL\box\c@twsliceb\else\box\c@twslicea\fi\hfil\if@RTL\box\c@twsliceb\else\box\c@twslicea\fi}
6732     \fi
6733     \def\c@twrounds{1}
6734   \fi}}

```

## 7.44 cuted-xetex-bidi.def

```

6735 \ProvidesFile{cuted-xetex-bidi.def}[2016/05/10 v0.4 bidi adaptations for cuted package for Xe
6736
6737 \def\RTL@outputdblcol{%
6738   \if@firstcolumn
6739     \global\@firstcolumnfalse
6740     \global\setbox\@leftcolumn\copy\@outputbox
6741     \splitmaxdepth\maxdimen
6742     \vbadness\maxdimen
6743     \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
6744     \setbox\@outputbox\vsplit\@outputbox to\maxdimen
6745     \toks@{\expandafter{\topmark}}%
6746     \xdef\@firstcoltopmark{\the\toks@}%
6747     \toks@{\expandafter{\splitfirstmark}}%
6748     \xdef\@firstcolfirstmark{\the\toks@}%
6749     \ifx\@firstcolfirstmark\@empty
6750       \global\let\@setmarks\relax
6751     \else
6752       \gdef\@setmarks{%
6753         \let\firstmark\@firstcolfirstmark
6754         \let\topmark\@firstcoltopmark}%
6755     \fi
6756   \else
6757     \global\@firstcolumntrue
6758     \setbox\@outputbox\vbox{%
6759       \hb@xt@\textwidth{%
6760         \hskip \columnwidth
6761         \hfil
6762         {\normalcolor\vrule \@width\columnseprule}%
6763         \hfil

```



```

6764      \hb@xt@\columnwidth{\box\@leftcolumn \hss}%
6765      \hskip -\textwidth
6766      \hb@xt@\columnwidth{\box\@outputbox \hss}%
6767      \hskip \columnsep
6768      \hskip \columnwidth }}%
6769      \ifvoid\hold@viper
6770      \else
6771      \setbox\@outputbox \vbox to\textheight{%
6772      \box\hold@viper
6773      \box\@outputbox
6774      \vss
6775      }%
6776      \fi
6777      \@combinedblfloats
6778      \@setmarks
6779      \@outputpage
6780      \beginingroup
6781      \@dblfloatplacement
6782      \@startdblcolumn
6783      \@whiles\if@colmade \fi{\@outputpage
6784      \@startdblcolumn}%
6785      \ifvoid\@viper
6786      \else
6787      \global\setbox\@viper\vbox{%
6788      \vskip-\stripsep
6789      \unvbox\@viper
6790      }%
6791      \@viperoutput
6792      \fi
6793      \endgroup
6794      \fi}%
6795
6796      \def\LTR@outputdblcol{%
6797      \if@firstcolumn
6798      \global\@firstcolumnfalse
6799      \global\setbox\@leftcolumn\copy\@outputbox
6800      \splitmaxdepth\maxdimen
6801      \vbadness\maxdimen
6802      \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
6803      \setbox\@outputbox\vsplit\@outputbox to\maxdimen
6804      \toks@\expandafter{\topmark}%
6805      \xdef\@firstcoltopmark{\the\toks@}%
6806      \toks@\expandafter{\splitfirstmark}%
6807      \xdef\@firstcolfirstmark{\the\toks@}%
6808      \ifx\@firstcolfirstmark\@empty
6809      \global\let\@setmarks\relax
6810      \else
6811      \gdef\@setmarks{%
6812      \let\firstmark\@firstcolfirstmark
6813      \let\topmark\@firstcoltopmark}%

```



```

6814 \fi
6815 \else
6816 \global\@firstcolumntrue
6817 \setbox\@outputbox\vbox{%
6818 \hb@xt@\textwidth{%
6819 \hb@xt@\columnwidth{\box\@leftcolumn \hss}%
6820 \hfil
6821 {\normalcolor\vrule \@width\columnseprule}%
6822 \hfil
6823 \hb@xt@\columnwidth{\box\@outputbox \hss}}}%
6824 \ifvoid\hold@viper
6825 \else
6826 \setbox\@outputbox \vbox to\textheight{%
6827 \box\hold@viper
6828 \box\@outputbox
6829 \vss
6830 }%
6831 \fi
6832 \@combinedblfloats
6833 \@setmarks
6834 \@outputpage
6835 \beginingroup
6836 \@dblfloatplacement
6837 \@startdblcolumn
6838 \@whiles\if@fcolmade \fi{\@outputpage
6839 \@startdblcolumn}%
6840 \ifvoid\@viper
6841 \else
6842 \global\setbox\@viper\vbox{%
6843 \vskip-\stripsep
6844 \unvbox\@viper
6845 }%
6846 \@viperoutput
6847 \fi
6848 \endgroup
6849 \fi}%
6850
6851
6852 \def \@addviper {%
6853 \if@firstcolumn
6854 \@insertfalse
6855 \@reqcolroom .5\@pageht
6856 \ht@viper\@reqcolroom
6857 \advance \@reqcolroom \ht@viper
6858 \advance \@reqcolroom \stripsep
6859 \ifvoid\hold@viper\@tempdima=z\else\@tempdima\ht\hold@viper\fi
6860 %%
6861 \@tempdimb \ht@viper
6862 \loop
6863 \setbox\v@aaa\copy\@holdpg

```



```

6864 \setbox\v@ccc\vbox to\@tempdimb{%
6865 \vsplit\v@aaa to\@tempdimb\vss\vsplit\v@aaa to\@tempdimb}%
6866 \wlog{Extra height:\the\ht\v@aaa\space when \the\@tempdimb}%
6867 \ifvoid\v@aaa \else \advance\@tempdimb 1pt \repeat
6868 \loop
6869 \setbox\v@aaa\copy\@holdpg
6870 \setbox\v@ccc\vbox to\@tempdimb{%
6871 \vsplit\v@aaa to\@tempdimb\vss}%
6872 \wlog{(2)Left:\the\ht\v@ccc\space Right:\the\ht\v@aaa\space Output:\the\@tempdimb}%
6873 \ifdim \ht\v@ccc<\ht\v@aaa \@tempdimb \the\ht\v@aaa \repeat
6874 \wlog{- LAST -^^JLeft:\the\ht\v@ccc^^JRight:\the\ht\v@aaa^^JOutput:\the\@tempdimb}%
6875 \setbox\v@ccc\vbox to\@tempdimb{%
6876 \vsplit\@holdpg to\@tempdimb\vss}%
6877 %%
6878 \setbox\@tempboxa \vbox {%
6879 \hb@xt@\textwidth {%
6880 \ifRTLmain%
6881 \hskip \columnwidth
6882 \hfil \vrule width\columnseprule \hfil
6883 \hb@xt@\columnwidth {%
6884 \vbox to\ht@viper{\box\v@ccc\vss} \hss}%
6885 \hskip -\textwidth
6886 \hb@xt@\columnwidth {%
6887 \vbox to\ht@viper{\box\@holdpg\vss} \hss}%
6888 \hskip \columnsep
6889 \hskip \columnwidth
6890 \else%
6891 \hb@xt@\columnwidth {%
6892 \vbox to\ht@viper{\box\v@ccc\vss} \hss}%
6893 \hfil
6894 \vrule \@width\columnseprule
6895 \hfil
6896 \hb@xt@\columnwidth {%
6897 \vbox to\ht@viper{\box\@holdpg\vss} \hss}%
6898 \fi}%
6899 }%
6900 \ifvoid\hold@viper
6901 \global\setbox\hold@viper \vbox {%
6902 \unvbox\@tempboxa
6903 \penalty\interlinepenalty
6904 \vskip\stripsep
6905 \ifnum\outputpenalty <-\@Mii \vskip -\parskip\fi
6906 \outputpenalty \z@
6907 }%
6908 \else
6909 \global\setbox\hold@viper \vbox {%
6910 \unvbox\hold@viper
6911 \unvbox\@tempboxa
6912 \penalty\interlinepenalty
6913 \vskip\stripsep

```





```

6914         \ifnum\outputpenalty <-\@Mii \vskip -\parskip\fi
6915         \outputpenalty \z@
6916         }%
6917     \fi
6918     \ifdim \@colroom>\@reqcolroom
6919         \global\setbox\hold@viper \vbox {%
6920             \unvbox\hold@viper
6921             \box\@viper
6922             \penalty\interlinepenalty
6923             \vskip\stripsep
6924             \ifnum\outputpenalty <-\@Mii \vskip -\parskip\fi
6925             \outputpenalty \z@
6926             }%
6927         \@inserttrue
6928         \advance\@tempdima by-\ht\hold@viper
6929         \global \advance \@colht \@tempdima
6930         \ifdim \@colht<2.5\baselineskip
6931             \@latex@warning@no@line {Optional argument of \noexpand\twocolumn
6932                 too tall on page \thepage (1 stulpelis)}%
6933             \@emptycol
6934             \if@firstcolumn
6935             \else
6936                 \@emptycol
6937             \fi
6938             \global\@lastvipertrue
6939         \else
6940             \global \vsize \@colht
6941             \global \@colroom \@colht
6942             \check@floats
6943             \ifdim\@tempdima>\z@
6944                 \global\advance\@colroom by-\@tempdima
6945             \fi
6946             \ifdim\@colroom<\z@
6947                 \global\@colroom 1pt
6948                 \ifdim\@tempdima>\@colht
6949                     \@latex@warning@no@line {TOP ir/ar BOT FLOAT's
6950                         netelpa lape \thepage (1 stulpelis)}%
6951                 \fi
6952                 \@emptycol
6953                 \if@firstcolumn
6954                 \else
6955                     \@emptycol
6956                 \fi
6957                 \global\@lastvipertrue
6958             \fi
6959         \fi
6960     \fi
6961 \else
6962     \@insertfalse
6963     \@reqcolroom\@colht

```



```

6964 \advance\@reqcolroom \@pageht
6965 \ht@viper.5\@reqcolroom
6966 \@reqcolroom\ht@viper
6967 \advance \@reqcolroom \ht\@viper
6968 \advance \@reqcolroom \stripsep
6969 \if@flushend@auto@baselineskip
6970 \setbox\@tempboxa\vbox{\unvcopy\@leftcolumn
6971 \global\lastskip@d\lastskip
6972 \global\lastskip@b\lastskip
6973 \loop
6974 \global\lastskip@a\lastskip@b
6975 \unskip\unpenalty
6976 \global\lastskip@b\lastskip
6977 \global\advance\lastskip@d by\lastskip
6978 \ifdim\lastskip@b=-\lastskip@a
6979 \global\advance\lastskip@d by-\lastskip
6980 \else
6981 \repeat
6982 \ifdim\lastskip@b=-\lastskip@a
6983 \ifdim\lastskip@b=\z@
6984 \setbox\lastbox@a\lastbox
6985 \global\advance\lastskip@d by\ht\lastbox@a
6986 \global\advance\lastskip@d by\lastskip
6987 \unskip\unpenalty
6988 \setbox\lastbox@a\lastbox
6989 \global\advance\lastskip@d by\dp\lastbox@a
6990 \else
6991 \global\lastskip@d\lastskip
6992 \global\advance\lastskip@d by\topskip
6993 \fi
6994 \fi
6995 \global\advance\lastskip@d by-\topskip
6996 }%
6997 \ifdim\ht\@holdpg>\@colht
6998 \global\setbox\@holdpg\vbox{\unvbox\@leftcolumn\unskip\unpenalty
6999 \par\eject
7000 \vbox to \@colht{\unvbox\@holdpg\unskip}%
7001 }%
7002 \else
7003 \global\setbox\@holdpg\vbox{%
7004 \unvbox\@leftcolumn\unskip\unpenalty
7005 \vskip\lastskip@d
7006 \the\At@ViperColsBreak
7007 \unvbox\@holdpg
7008 \unskip
7009 }%
7010 \fi
7011 \else
7012 \global\setbox\@holdpg\vbox{%
7013 \unvbox\@leftcolumn

```



```

7014         \setbox\@tempboxa\lastbox
7015         \on@stripcols@break
7016         \the\At@ViperColsBreak
7017         \unvbox\@holdpg
7018     }%
7019 \fi
7020 \global\At@ViperColsBreak{}%
7021 \ht@viper .5\ht\@holdpg
7022 \ifdim \ht@viper>\@colht
7023     \ht@viper \@colht
7024 \fi
7025 \ifvoid\hold@viper\@tempdima=\z@else\@tempdima\ht\hold@viper\fi
7026 %%
7027 \@tempdimb \ht@viper
7028 \loop
7029     \setbox\v@aaa\copy\@holdpg
7030     \setbox\v@ccc\vbox to\@tempdimb{%
7031         \vsplit\v@aaa to\@tempdimb
7032         \vss
7033         \vsplit\v@aaa to\@tempdimb
7034     }%
7035     \wlog{Extra height:\the\ht\v@aaa\space when \the\@tempdimb}%
7036 \ifvoid\v@aaa
7037 \else
7038     \advance\@tempdimb 1\p@
7039 \repeat
7040 \loop
7041     \setbox\v@aaa\copy\@holdpg
7042     \setbox\v@ccc\vbox to\@tempdimb{\vsplit\v@aaa to\@tempdimb\vss}%
7043     \wlog{(2)Left:\the\ht\v@ccc\space
7044         Right:\the\ht\v@aaa\space
7045         Output:\the\@tempdimb
7046     }%
7047 \ifdim\ht\v@ccc<\ht\v@aaa
7048     \@tempdimb \the\ht\v@aaa
7049 \repeat
7050 \wlog{- LAST -^^JLeft:\the\ht\v@ccc
7051     ^^JRight:\the\ht\v@aaa
7052     ^^JOutput:\the\@tempdimb
7053 }%
7054 \setbox\v@ccc\vbox to\@tempdimb{\vsplit\@holdpg to\@tempdimb\vss}%
7055 \setbox\@tempboxa\vbox{%
7056     \hb@xt@\textwidth {%
7057         \hb@xt@\columnwidth{\vbox to\ht@viper{\box\v@ccc\vss} \hss}%
7058         \hfil
7059         \vrule \@width\columnseprule
7060         \hfil
7061         \hb@xt@\columnwidth {\vbox to\ht@viper{\box\@holdpg\vss} \hss}%
7062     }%
7063 }%

```



```

7064 \ifvoid\hold@viper
7065 \global\setbox\hold@viper \vbox {%
7066 \unvbox\@tempboxa
7067 \penalty\interlinepenalty
7068 \vskip\stripsep
7069 \ifnum\outputpenalty <-\@Mii \vskip -\parskip\fi
7070 \outputpenalty \z@
7071 }%
7072 \else
7073 \global\setbox\hold@viper \vbox {%
7074 \unvbox\hold@viper
7075 \unvbox\@tempboxa
7076 \penalty\interlinepenalty
7077 \vskip\stripsep
7078 \ifnum\outputpenalty <-\@Mii \vskip -\parskip\fi
7079 \outputpenalty \z@
7080 }%
7081 \fi
7082 \ifdim \@colht>\@reqcolroom
7083 \global\setbox\hold@viper \vbox {%
7084 \unvbox\hold@viper
7085 \box\@viper
7086 \penalty\interlinepenalty
7087 \vskip\stripsep
7088 \ifnum\outputpenalty <-\@Mii \vskip -\parskip\fi
7089 \outputpenalty \z@
7090 }%
7091 \@inserttrue
7092 \global\@firstcolumntrue
7093 \advance\@tempdima by-\ht\hold@viper
7094 \global \advance \@colht \@tempdima
7095 \ifdim \@colht<2.5\baselineskip
7096 \latex@warning@no@line {Optional argument of \noexpand\twocolumn
7097 too tall on page \thepage (2 stulpelis)}%
7098 \@emptycol
7099 \if@firstcolumn
7100 \else
7101 \@emptycol
7102 \fi
7103 \global\@lastvipertrue
7104 \else
7105 \global \vsize \@colht
7106 \global \@colroom \@colht
7107 \check@floats
7108 \ifdim\@tempdima>\z@
7109 \global\advance\@colroom by-\@tempdima
7110 \fi
7111 \ifdim\@colroom<\z@
7112 \global\@colroom 1pt
7113 \ifdim\@tempdima>\@colht

```



```

7114         \@latex@warning@no@line {TOP ir/ar BOT FLOAT's
7115                                     netelpa lape \thepage (2 stulpelis)}%
7116         \fi
7117         \@emptycol
7118         \if@firstcolumn
7119         \else
7120             \@emptycol
7121         \fi
7122         \global\@lastvipertrue
7123     \fi
7124 \fi
7125 \fi
7126 \fi
7127 \if@insert
7128 \else
7129     \advance\@tempdima by-\ht\hold@viper
7130     \global \advance \@colht \@tempdima
7131     \global\setbox\hold@viper \vbox {%
7132                                     \unvbox\hold@viper
7133                                     \csname viper@top@hook\endcsname
7134                                     \vsplit\@viper to \@colht
7135                                     \vss
7136                                     }%
7137     \vbox{%
7138         \global\@firstcolumnfalse
7139         \newpage
7140     \fi
7141 }

```

## 7.45 cvthemebidicasual.sty

```

7142 \NeedsTeXFormat{LaTeX2e}
7143 \ProvidesPackage{cvthemebidicasual}
7144 \DeclareOption{blue}{}
7145 \newif\if@colourorange\@colourorangefalse
7146 \DeclareOption{orange}{\@colourorange true}
7147 \newif\if@colourgreen\@colourgreenfalse
7148 \DeclareOption{green}{\@colourgreentrue}
7149 \newif\if@colourred\@colourredfalse
7150 \DeclareOption{red}{\@colourred true}
7151 \newif\if@colourgrey\@colourgreyfalse
7152 \DeclareOption{grey}{\@colourgrey true}
7153 \DeclareOption*{
7154     \PackageWarning{cvthemebidicasual}{Unknown option '\CurrentOption'}}
7155 \ExecuteOptions{colour}
7156 \ProcessOptions\relax
7157 \renewcommand*{\listitemsymbol}{\textbullet}
7158 \definecolor{firstnamecolor}{rgb}{0.65,0.65,0.65}
7159 \familynamecolour{808080}
7160 \firstnamecolour{A9A9A9}

```



```

7161 \quotecolour{696969}
7162 \addresscolour{696969}
7163 \definecolor{sectionrectanglecolor}{rgb}{0.25,0.50,0.75}
7164 \sectiontitlecolour{1E90FF}
7165 \subsectioncolour{4682B4}
7166 \definecolor{rulecolour}{gray}{0.6}
7167 \definecolor{footersymbolcolour}{rgb}{0.25,0.50,0.75}
7168 \definecolor{footersymbolcolor}{rgb}{0.25,0.50,0.75}
7169 \if@colourorange
7170 \definecolor{sectionrectanglecolor}{rgb}{1.00,0.65,0.20}
7171 \definecolor{sectionrectanglecolor}{rgb}{1.00,0.65,0.20}
7172 \sectiontitlecolour{FF8C00}
7173 \subsectioncolour{FF8C00}
7174 \definecolor{footersymbolcolour}{rgb}{0.95,0.55,0.15}
7175 \definecolor{footersymbolcolor}{rgb}{0.95,0.55,0.15}\fi
7176 \if@colourgreen
7177 \definecolor{sectionrectanglecolor}{rgb}{0.55,0.85,0.35}
7178 \definecolor{sectionrectanglecolour}{rgb}{0.55,0.85,0.35}
7179 \sectiontitlecolour{008000}
7180 \subsectioncolour{008000}
7181 \definecolor{footersymbolcolour}{rgb}{0.30,0.65,0.15}
7182 \definecolor{footersymbolcolor}{rgb}{0.30,0.65,0.15}\fi
7183 \if@coloured
7184 \definecolor{sectionrectanglecolor}{rgb}{1.00,0.30,0.30}
7185 \definecolor{sectionrectanglecolour}{rgb}{1.00,0.30,0.30}
7186 \sectiontitlecolour{FF0000}
7187 \subsectioncolour{FF0000}
7188 \definecolor{footersymbolcolour}{rgb}{0.95,0.20,0.20}
7189 \definecolor{footersymbolcolor}{rgb}{0.95,0.20,0.20}\fi
7190 \if@colourgrey
7191 \definecolor{sectionrectanglecolor}{rgb}{0.75,0.75,0.75}
7192 \definecolor{sectionrectanglecolour}{rgb}{0.75,0.75,0.75}
7193 \sectiontitlecolour{808080}
7194 \subsectioncolour{808080}
7195 \definecolor{footersymbolcolour}{rgb}{0.35,0.35,0.35}
7196 \definecolor{footersymbolcolor}{rgb}{0.35,0.35,0.35}\fi
7197 \renewcommand*{\ttdefault}{pcr}
7198 \renewcommand*{\firstnamefont}{\fontsize{38}{40}\mdseries\upshape}
7199 \renewcommand*{\familynamefont}{\firstnamefont}
7200 \renewcommand*{\addressfont}{\normalsize\mdseries\slshape}
7201 \renewcommand*{\quoteont}{\large\slshape}
7202 \renewcommand*{\sectionfont}{\Large\mdseries\upshape}
7203 \renewcommand*{\subsectionfont}{\large\mdseries\upshape}
7204 \renewcommand*{\maketitle}{%
7205   {%
7206     \ifthenelse{\isundefined{\@photo}}{%
7207       {%
7208         {\color{firstnamedcolor}\framebox{\includegraphics[width=\photowidth]{\@photo}}}%
7209         \hfill%
7210         \bidi@raggedleft{\firstnamestyle{\@firstname}~\familynamestyle{\@familyname}}\ll[-.35em]}%

```



```

7211 {\color{firstnamecolor}\rule{\textwidth}{.25ex}\[2.5em]]%
7212 \ifthenelse{\isundefined{\@quote}}{%
7213   }%
7214   {\centering{\begin{minipage}{\quotewidth}\centering\quotestyle{\@quote}\end{minipage}}\[2.5em]}%
7215 }%
7216 \newif\if@firstfooterelement\@firstfooterelementtrue
7217 \providecommand*\footersymbol{}
7218 \renewcommand*\footersymbol{}%
7219 \if@firstfooterelement%
7220 \else%
7221   {~~\color{footersymbolcolor}\textbullet~~}\fi}
7222 \providecommand*\makefooter{}
7223 \renewcommand*\makefooter{}%
7224 \fancypagestyle{plain}{%
7225   \fancyfoot[c]{%
7226     \parbox{0.8\textwidth}{%
7227       \centering%
7228       \addressfont\@addresscolour%
7229       \ifthenelse{\isundefined{\@address}}{}{}%
7230       \addresssymbol~\@address\\%
7231       \if@firstfooterelementfalse}%
7232       \ifthenelse{\isundefined{\@mobile}}{}{}{\mobilesymbol~\@mobile\@firstfooterelementfalse}%
7233       \ifthenelse{\isundefined{\@phone}}{}{}{\footersymbol\phonesymbol~\@phone\@firstfooterelementfalse}%
7234       \ifthenelse{\isundefined{\@fax}}{}{}{\footersymbol\faxsymbol~\@fax\@firstfooterelementfalse}%
7235       \ifthenelse{\isundefined{\@email}}{}{}{\footersymbol\emailsymbol~\email\@firstfooterelementfalse}%
7236       \ifthenelse{\isundefined{\@extrainfo}}{}{}{\footersymbol\@extrainfo\@firstfooterelementfalse}%
7237     }%
7238   \pagestyle{plain}}
7239 \AtBeginDocument{\makefooter}

```

## 7.46 cvthemebidiclassic.sty

```

7240 \NeedsTeXFormat{LaTeX2e}
7241 \ProvidesPackage{cvthemebidiclassic}
7242 \DeclareOption{blue}{}
7243 \newif\if@colourorange\@colourorangefalse
7244 \DeclareOption{orange}{\@colourorange true}
7245 \newif\if@colourgreen\@colourgreenfalse
7246 \DeclareOption{green}{\@colourgreentrue}
7247 \newif\if@colourred\@colourredfalse
7248 \DeclareOption{red}{\@colourred true}
7249 \newif\if@colourgrey\@colourgreyfalse
7250 \DeclareOption{grey}{\@colourgrey true}
7251 \DeclareOption*{
7252   \PackageWarning{cvthemebidiclassic}{Unknown option ‘\CurrentOption’}}
7253 \ExecuteOptions{colour}
7254 \ProcessOptions\relax
7255 \renewcommand*\listitemsymbol{\textbullet}
7256 \firstnamecolour{}
7257 \familynamecolour{}

```



```

7258 \titlecolour{808080}
7259 \quotecolour{696969}
7260 \addresscolour{696969}
7261 \definecolor{sectionrectanglecolour}{rgb}{0.25,0.50,0.75}
7262 \definecolor{sectionrectanglecolor}{rgb}{0.25,0.5,0.75}
7263 \sectiontitlecolour{1E90FF}
7264 \subsectioncolour{4682B4}
7265 \if@colourorange
7266 \addresscolour{FF8C00}
7267 \definecolor{sectionrectanglecolour}{rgb}{1.00,0.65,0.20}
7268 \definecolor{sectionrectanglecolor}{rgb}{1,0.65,0.20}
7269 \sectiontitlecolour{FF8C00}
7270 \subsectioncolour{FF8C00}\fi
7271 \if@colourgreen
7272 \addresscolour{008000}
7273 \definecolor{sectionrectanglecolour}{rgb}{0.55,0.85,0.35}
7274 \definecolor{sectionrectanglecolor}{rgb}{0.55,0.85,0.35}
7275 \sectiontitlecolour{008000}
7276 \subsectioncolour{008000}\fi
7277 \if@coloured
7278 \addresscolour{FF0000}
7279 \definecolor{sectionrectanglecolour}{rgb}{1.00,0.30,0.30}
7280 \definecolor{sectionrectanglecolor}{rgb}{1.00,0.30,0.30}
7281 \sectiontitlecolour{FF0000}
7282 \subsectioncolour{FF0000}\fi
7283 \if@colourgrey
7284 \addresscolour{808080}
7285 \definecolor{sectionrectanglecolour}{rgb}{0.75,0.75,0.75}
7286 \definecolor{sectionrectanglecolor}{rgb}{0.75,0.75,0.75}
7287 \sectiontitlecolour{808080}
7288 \subsectioncolour{808080}\fi
7289 \renewcommand*{\ttdefault}{pcr}
7290 \renewcommand*{\firstnamefont}{\fontsize{34}{36}\mdseries\upshape}
7291 \renewcommand*{\titlefont}{\LARGE\mdseries\slshape}
7292 \renewcommand*{\addressfont}{\normalsize\mdseries\slshape}
7293 \renewcommand*{\familynamefont}{\firstnamefont}
7294 \renewcommand*{\quotefont}{\large\slshape}
7295 \renewcommand*{\sectionfont}{\Large\mdseries\upshape}
7296 \renewcommand*{\subsectionfont}{\large\mdseries\upshape}
7297 \newlength{\maketitlenamemaxwidth}
7298 \setlength{\maketitlenamemaxwidth}{.525\textwidth}
7299 \newlength{\maketitlenamefullwidth}
7300 \settowidth{\maketitlenamefullwidth}{\firstnamestyle{\@firstname~}\familynamestyle{\@familyname}}
7301 \newlength{\maketitlenamewidth}
7302 \ifnum\maketitlenamemaxwidth<\maketitlenamefullwidth\setlength{\maketitlenamewidth}{\maketitlenamemaxwidth}\fi
7303 \newlength{\maketitlepicturewidth}
7304 \setlength{\maketitlepicturewidth}{\@photowidth}
7305 \newlength{\maketitledetailwidth}
7306 \renewcommand*{\recomputethemelengths}{%
7307 \setlength{\maketitledetailwidth}{\textwidth}%

```





```

7308 \addtolength{\maketitledetailswidth}{-\maketitlenamewidth}%
7309 \addtolength{\maketitledetailswidth}{-\separatorcolumnwidth}%
7310 \addtolength{\maketitledetailswidth}{-\maketitlepicturewidth}%
7311 \recomputethemelengths
7312 \newif\if@firstdetailselement\@firstdetailselementtrue
7313 \newcommand*{\maketitledetailsnewline}{%
7314   \if@firstdetailselement%
7315     \@firstdetailselementfalse%
7316   \else%
7317     \[\[.2em]\fi}
7318 \renewcommand*{\maketitle}{%
7319   % name and title
7320   \begin{minipage}[b]{\maketitlenamewidth}%
7321     \firstnamestyle{\@firstname~}\familynamestyle{\@familyname}%
7322     \ifthenelse{\equal{\@title}{}}{\[\[1.25em]\titlestyle{\@title}}%
7323   \end{minipage}%
7324   % optional data
7325   \begin{minipage}[b]{\maketitledetailswidth}%
7326     \bidi@raggedleft\addressfont\@addresscolour%
7327     \ifthenelse{\isundefined{\@address}}{\}%
7328     \maketitledetailsnewline%
7329     \addresssymbol~\[\@address}%
7330     \ifthenelse{\isundefined{\@mobile}}{\}\{\maketitledetailsnewline\mobilesymbol~\@mobile}%
7331     \ifthenelse{\isundefined{\@phone}}{\}\{\maketitledetailsnewline\phonesymbol~\@phone}%
7332     \ifthenelse{\isundefined{\@fax}}{\}\{\maketitledetailsnewline\faxsymbol~\@fax}%
7333     \ifthenelse{\isundefined{\@email}}{\}\{\maketitledetailsnewline\emailsymbol~\emailink{\@em
7334     \ifthenelse{\isundefined{\@extrainfo}}{\}\{\maketitledetailsnewline\@extrainfo}%
7335   \end{minipage}%
7336   % optional photo
7337   \ifthenelse{\isundefined{\@photo}}{\}%
7338   {\hspace*{\separatorcolumnwidth}\color{firstnamecolor}\framebox{\includegraphics[width=\m
7339   % optional quote
7340   \ifthenelse{\isundefined{\@quote}}{\}%
7341   {\}%
7342   {\centering{\begin{minipage}{\quotewidth}\centering\quotestyle{\@quote}\end{minipage}}\[\[
7343   }
7344 }

```

## 7.47 dblfnote-xetex-bidi.def

```

7345 \ProvidesFile{dblfnote-xetex-bidi.def}[2012/12/12 v0.3 bidi adaptations for dblfnote package]
7346 \let\autofooterule\relax
7347 \let\rightfootnoterule\relax
7348 \let\leftfootnoterule\relax
7349 \let\textwidthfootnoterule\relax
7350 \let\LRfootnoterule\relax
7351 \def\footnoterule{\kern-3\p@
7352   \hrule \@width \DFNcolumnwidth \kern 2.6\p@}%
7353 \AtBeginDocument{\let\dfn@latex@footnotetext\@footnotetext
7354 \let\@footnotetext\dfn@footnotetext}

```



```

7355 \long\def\dfn@LTRfootnotetext#1{\setbox\dfn@boxa\vbox{
7356     \let\insert\dfn@gobble
7357     \columnwidth\DFNcolumnwidth \hbadness\c@DFNsloppiness
7358     \def\@makefnmark{\smash{\dfn@makefnmark}}
7359     \dfn@latex@LTRfootnotetext{#1}\par \boxmaxdepth\dfn@fnmaxdp}%
7360     \dfn@dima\ht\dfn@boxa \advance\dfn@dima\dp\dfn@boxa
7361     \ifdim\dfn@dima>\z@\else
7362         \dfn@dima\sp\relax
7363         \setbox\dfn@boxa\vbox{\vbox to1sp{\unvbox\dfn@boxa\vfil}}\fi
7364     \global\setbox\dfn@ins\vbox{\boxmaxdepth\dfn@fnmaxdp
7365         \ifvoid\dfn@ins\else
7366             \unvbox\dfn@ins \allowbreak \nointerlineskip \fi
7367             \ifdfn@allowcbreak \unvbox \else \box \fi \dfn@boxa}%
7368     \setbox\dfn@boxa\copy\dfn@ins
7369     \dfn@split{.5\ht\dfn@boxa}\dfn@boxa\dfn@boxb\dfn@fnmaxdp\footnotesep
7370     \advance\@tempdima\@tempdimb \@tempdimb\@tempdima
7371     \advance\@tempdima-\dfn@fnht \global\dfn@fnht\@tempdimb
7372     \insert\footins{\floatingpenalty\@MM \vbox to\@tempdima{}}%
7373     \xdef\dfn@list{\dfn@list\@elt{\number\dfn@dima}{\number\@tempdima}}}}
7374 \AtBeginDocument{\let\dfn@latex@LTRfootnotetext\@LTRfootnotetext
7375 \let\@LTRfootnotetext\dfn@LTRfootnotetext}
7376 \long\def\dfn@RTLfootnotetext#1{\setbox\dfn@boxa\vbox{
7377     \let\insert\dfn@gobble
7378     \columnwidth\DFNcolumnwidth \hbadness\c@DFNsloppiness
7379     \def\@makefnmark{\smash{\dfn@makefnmark}}
7380     \dfn@latex@RTLfootnotetext{#1}\par \boxmaxdepth\dfn@fnmaxdp}%
7381     \dfn@dima\ht\dfn@boxa \advance\dfn@dima\dp\dfn@boxa
7382     \ifdim\dfn@dima>\z@\else
7383         \dfn@dima\sp\relax
7384         \setbox\dfn@boxa\vbox{\vbox to1sp{\unvbox\dfn@boxa\vfil}}\fi
7385     \global\setbox\dfn@ins\vbox{\boxmaxdepth\dfn@fnmaxdp
7386         \ifvoid\dfn@ins\else
7387             \unvbox\dfn@ins \allowbreak \nointerlineskip \fi
7388             \ifdfn@allowcbreak \unvbox \else \box \fi \dfn@boxa}%
7389     \setbox\dfn@boxa\copy\dfn@ins
7390     \dfn@split{.5\ht\dfn@boxa}\dfn@boxa\dfn@boxb\dfn@fnmaxdp\footnotesep
7391     \advance\@tempdima\@tempdimb \@tempdimb\@tempdima
7392     \advance\@tempdima-\dfn@fnht \global\dfn@fnht\@tempdimb
7393     \insert\footins{\floatingpenalty\@MM \vbox to\@tempdima{}}%
7394     \xdef\dfn@list{\dfn@list\@elt{\number\dfn@dima}{\number\@tempdima}}}}
7395 \AtBeginDocument{\let\dfn@latex@RTLfootnotetext\@RTLfootnotetext
7396 \let\@RTLfootnotetext\dfn@RTLfootnotetext}
7397 \def\dfn@RTLmakecol{\ifvoid\footins\else
7398     \dfn@dima\ht\footins
7399     \@tempcnta\z@ \dfn@countins
7400     \@tempdima\z@ \let\@elt\dfn@elt@getht
7401     \dfn@list\@nil
7402     \ifdim\@tempdima=\z@\else
7403         \dfn@split\@tempdima\dfn@ins\dfn@boxa\z@\z@
7404         \global\setbox\dfn@ins\box\dfn@ins

```



```

7405 \@tempwattrue
7406 \ifdfn@trysingle
7407 \setbox\dfn@boxb\ vbox{\unvcopy\@cclv}\@tempdima\@colroom
7408 \advance\@tempdima-\ht\dfn@boxb \advance\@tempdima-\dp\dfn@boxb
7409 \advance\@tempdima-\skip\footins
7410 \advance\@tempdima-\ht\dfn@boxa
7411 \ifdim\@tempdima<z@\else \@tempwafalse
7412 \global\setbox\footins\ vbox{\boxmaxdepth\dfn@fnmaxdp
7413 \footnoterule \unvbox\dfn@boxa}\fi\fi
7414 \if@tempswa
7415 \dfn@split{\dfn@dima}\dfn@boxa\dfn@boxb\dfn@fnmaxdp\footnotesep
7416 \global\setbox\footins\ vbox{\hbox{%
7417 \hskip \DFNcolumnwidth
7418 \hskip\DFNcolumnsep
7419 \hbox to\DFNcolumnwidth{\vbox to\@tempdima{\footnoterule
7420 \unvbox\dfn@boxb\vss}\hss}
7421 \hskip -\textwidth
7422 \hbox to\DFNcolumnwidth{\ifvoid\dfn@boxa\else
7423 \vbox to\@tempdima{
7424 \setbox\@tempboxa\ vbox{\footnoterule}
7425 \ifdfn@ruleboth \unvbox\@tempboxa
7426 \else \@tempdima\ht\@tempboxa
7427 \advance\@tempdima\dp\@tempboxa
7428 \vskip\@tempdima
7429 \prevdepth\dp\@tempboxa \fi
7430 \unvbox\dfn@boxa\vss}\fi\hss}
7431 \hskip \DFNcolumnsep
7432 \hskip \DFNcolumnwidth}}\fi\fi
7433 \global\dfn@fnht\z@
7434 \ifx\dfn@list\@empty\else
7435 \let\@elt\dfn@elt@adjust \dfn@dima\z@ \dfn@dimb\z@
7436 \dfn@list \global\advance\dfn@fnht\dfn@dimb
7437 \let\@elt\relax
7438 \ifdim\dfn@dimb>\z@
7439 \xdef\dfn@list{\@elt{0}{\number\dfn@dimb}\dfn@list}%
7440 \insert\footins{\floatingpenalty\@MM
7441 \vbox to\dfn@dimb{}}\fi
7442 \ifdim\dfn@fnht>\@tempdima
7443 \@tempdimb\@tempdima \advance\@tempdimb-\dfn@fnht
7444 \global\dfn@fnht\@tempdima
7445 \xdef\dfn@list{\dfn@list\@elt{0}{\number\@tempdimb}}%
7446 \xdef\dfn@afteroutput{\insert\footins{
7447 \floatingpenalty\@MM
7448 \vbox to\number\@tempdimb sp{}}}%
7449 \global\let\noexpand\dfn@afteroutput\relax}%
7450 \fi\fi
7451 \fi}%
7452 \let\footnoterule\relax \dfn@latex@makecol
7453 \let\footnoterule\dfn@footnoterule}
7454 \def\dfn@LTRmakecol{\ifvoid\footins\else

```



```

7455 \dfn@dima\ht\footins
7456 \@tempcnta\z@ \dfn@countins
7457 \@tempdima\z@ \let\@elt\dfn@elt@getht
7458 \dfn@list\@nil
7459 \ifdim\@tempdima=\z@\else
7460 \dfn@split\@tempdima\dfn@ins\dfn@boxa\z@\z@
7461 \global\setbox\dfn@ins\box\dfn@ins
7462 \@tempwattrue
7463 \ifdfn@trysingle
7464 \setbox\dfn@boxb\vbox{\unvcopy\@cclv}\@tempdima\@colroom
7465 \advance\@tempdima-\ht\dfn@boxb \advance\@tempdima-\dp\dfn@boxb
7466 \advance\@tempdima-\skip\footins
7467 \advance\@tempdima-\ht\dfn@boxa
7468 \ifdim\@tempdima<\z@\else \@tempswafalse
7469 \global\setbox\footins\vbox{\boxmaxdepth\dfn@fnmaxdp
7470 \footnoterule \unvbox\dfn@boxa}\fi\fi
7471 \if@tempswa
7472 \dfn@split{\dfn@dima}\dfn@boxa\dfn@boxb\dfn@fnmaxdp\footnotesep
7473 \global\setbox\footins\vbox{\hbox{%
7474 \hbox to\DFNcolumnwidth{\vbox to\@tempdima{\footnoterule
7475 \unvbox\dfn@boxb\vss}\hss}\hskip\DFNcolumnsep
7476 \hbox to\DFNcolumnwidth{\ifvoid\dfn@boxa\else
7477 \vbox to\@tempdima{
7478 \setbox\@tempboxa\vbox{\footnoterule}
7479 \ifdfn@ruleboth \unvbox\@tempboxa
7480 \else \@tempdima\ht\@tempboxa
7481 \advance\@tempdima\dp\@tempboxa
7482 \vskip\@tempdima
7483 \prevdepth\dp\@tempboxa \fi
7484 \unvbox\dfn@boxa\vss}\fi\hss}}}\fi\fi
7485 \global\dfn@fnht\z@
7486 \ifx\dfn@list\@empty\else
7487 \let\@elt\dfn@elt@adjust \dfn@dima\z@ \dfn@dimb\z@
7488 \dfn@list \global\advance\dfn@fnht\dfn@dimb
7489 \let\@elt\relax
7490 \ifdim\dfn@dimb>\z@
7491 \xdef\dfn@list{\@elt{0}{\number\dfn@dimb}\dfn@list}%
7492 \insert\footins{\floatingpenalty\@MM
7493 \vbox to\dfn@dimb{}}\fi
7494 \ifdim\dfn@fnht>\@tempdima
7495 \@tempdimb\@tempdima \advance\@tempdimb-\dfn@fnht
7496 \global\dfn@fnht\@tempdima
7497 \xdef\dfn@list{\dfn@list\@elt{0}{\number\@tempdimb}}%
7498 \xdef\dfn@afteroutput{\insert\footins{
7499 \floatingpenalty\@MM
7500 \vbox to\number\@tempdimb sp{}}}%
7501 \global\let\noexpand\dfn@afteroutput\relax}%
7502 \fi\fi
7503 \fi}%
7504 \let\footnoterule\relax \dfn@latex@makecol

```



```

7505 \let\footnoterule\dfn@footnoterule}
7506 \renewcommand{\dfn@makecol}{\if@RTLmain\dfn@RTLmakecol\else\dfn@LTRmakecol\fi}
7507 \newcommand{\RTLdfnmakecol}{\renewcommand{\dfn@makecol}{\dfn@RTLmakecol}}
7508 \newcommand{\LTRdfnmakecol}{\renewcommand{\dfn@makecol}{\dfn@LTRmakecol}}
7509 \DFNalwaysdouble

```

## 7.48 draftwatermark-xetex-bidi.def

```

7510 \ProvidesFile{draftwatermark-xetex-bidi.def}[2010/07/25 v0.2 bidi adaptations for draftwatermark]
7511 \renewcommand\SetWatermarkText[1]{%
7512 \def\sc@wm@text{\if@RTLmain\beginR\fi#1\if@RTLmain\endR\fi}}

```

## 7.49 eso-pic-xetex-bidi.def

```

7513 \ProvidesFile{eso-pic-xetex-bidi.def}[2013/04/10 v0.2 bidi adaptations for eso-pic package]
7514 \renewcommand\AtPageLowerLeft[1]{\AtPageUpperLeft{%
7515 \put(\LenToUnit{\if@RTLmain\paperwidth\else0pt\fi},\LenToUnit{-\paperheight}){#1}}
7516
7517 \ESO@isMEMOIR{%
7518 \renewcommand\AtTextUpperLeft[1]{%
7519 \begingroup
7520 \ifodd\c@page
7521 \@tempdima=\spinemargin
7522 \else
7523 \@tempdima=\paperwidth
7524 \advance\@tempdima-\textwidth
7525 \advance\@tempdima-\spinemargin
7526 \fi
7527 \@tempdimb=-\uppermargin
7528 \AtPageUpperLeft{%
7529 \put(\LenToUnit{\if@RTLmain-\fi\@tempdima},\LenToUnit{\@tempdimb}){#1}%
7530 }%
7531 \endgroup
7532 }
7533 }{%
7534 \renewcommand\AtTextUpperLeft[1]{%
7535 \begingroup
7536 \@tempdima=1in\relax
7537 \ifodd\c@page
7538 \advance\@tempdima\oddsidemargin
7539 \else
7540 \advance\@tempdima\evensidemargin
7541 \fi
7542 \@tempdimb=-1in\relax
7543 \advance\@tempdimb-\topmargin
7544 \advance\@tempdimb-\headheight
7545 \advance\@tempdimb-\headsep
7546 \AtPageUpperLeft{%
7547 \put(\LenToUnit{\if@RTLmain-\fi\@tempdima},\LenToUnit{\@tempdimb}){#1}%
7548 }%
7549 \endgroup

```



```

7550 }
7551 }

```

## 7.50 empheq-xetex-bidi.def

```

7552 \ProvidesFile{empheq-xetex-bidi.def}[2011/09/07 v0.1 bidi adaptations for empheq package for
7553 \MHInternalSyntaxOn
7554 \def\EQ_tag_plus_endmark:{%
7555 \iftagsleft@
7556 \gdef\maketag@@@##1{%
7557 \hfuzz\displaywidth
7558 \ifRTL\makebox[\widthof{##1}][r]{%
7559 \hbox to \displaywidth{\m@th\normalfont##1\hss
7560 \raisebox{-\dp\EQ_mathdisplay_box
7561 -\depthof{\EQ_outerbox:}}{
7562 {\PotEndMark{\hss}}}}
7563 \else\makebox[\widthof{##1}][l]{%
7564 \hbox to \displaywidth{\m@th\normalfont##1\hss
7565 \raisebox{-\dp\EQ_mathdisplay_box
7566 -\depthof{\EQ_outerbox:}}{
7567 {\PotEndMark{\hss}}}}\fi}%
7568 \else:
7569 \gdef\maketag@@@##1{%
7570 \hbox{\m@th\normalfont##1\llap{\hss\PotEndMark{%
7571 \settoheight{\@tempdima}{\@nameuse{\InTheoType Symbol}}}%
7572 \MH_addtolength:dn \@tempdima
7573 {\g_EQ_bottomtag_depth_dim+\mintagvsep}
7574 \setlength{\@tempdimb}
7575 {\g_EQ_bottomrow_depth_dim+\depthof{\EQ_outerbox:}}
7576 +\depthof{\EQ_innerbox:}}
7577 \if_dim:w \@tempdima>\@tempdimb
7578 \MH_setlength:dn \@tempdima{-\dp\EQ_mathdisplay_box
7579 -\@tempdima+\g_EQ_bottomrow_depth_dim}
7580 \addtolength{\@tempdima}{\depthof{\EQ_innerbox:}}}%
7581 \def\EQ_next:{\raisebox{\@tempdima}}%
7582 \else:
7583 \def\EQ_next:{
7584 \raisebox{-\dp\EQ_mathdisplay_box
7585 -\depthof{\EQ_outerbox:}}}%
7586 \fi:\EQ_next:}}}%
7587 \fi:}
7588 \def\EQ_post_process:{%
7589 \EQ_initialize:
7590 \EQ_begin_equation:
7591 \MH_if_boolean:nT {outer_mult}{
7592 \setkeys{MT_options_name:}{
7593 firstline-afterskip=0pt,
7594 lastline-preskip=0pt,
7595 multlined-width=0pt,
7596 }

```



```

7597 \ifodd \l_EQ_alignmentmode_int
7598 \setkeys{\MT_options_name:}{multlined-pos=b}
7599 \else:
7600 \setkeys{\MT_options_name:}{multlined-pos=t}
7601 \fi:
7602 \g@addto@macro\EQ_complete_mathdisplay:{
7603 \begin{MTmultlined}\relax}
7604 }
7605 \g@addto@macro\EQ_complete_mathdisplay:\EQ_mathbody:
7606 \MH_if_boolean:nT {outer_mult}{
7607 \g@addto@macro\EQ_complete_mathdisplay:{\end{MTmultlined}}}
7608 }
7609 \EQ_end_equation:
7610 \edef\EQ_hyperref_link_fint{\number\Hy@linkcounter}
7611 \savecounters@
7612 \EQ_typeset_tags:
7613 \edef\l_EQ_equation_fint{\number\c@equation}
7614 \restorecounters@
7615 \Hy@linkcounter=\EQ_hyperref_link_fint
7616 \settowidth\l_EQ_totalwidth_dim{%
7617 $EQ_left_side:EQ_innerbox:}\EQ_right_side:$}%
7618 \MH_if_boolean:nTF {outer_mult}
7619 { \def\EQ_next:{_mult} }
7620 { \def\EQ_next:{} }
7621 \@nameuse{EQ_modify_linewidth_
7622 \romannumeral\l_EQ_equationtype_int\EQ_next: :}%
7623 \EQ_typeset_display:
7624 \@nameuse{find_displaywidth_
7625 \romannumeral\l_EQ_equationtype_int\EQ_next: :}
7626 \MH_addtolength:dn
7627 \l_EQ_totalwidth_dim{\l_EQ_displaywidth_dim}
7628 \savebox\EQ_mathdisplay_box[\l_EQ_totalwidth_dim][c]{%
7629 $EQ_left_side:
7630 \EQ_innerbox:{%
7631 \if_case:w \l_EQ_alignmentmode_int\or:
7632 \makebox[\l_EQ_displaywidth_dim][c]
7633 {\usebox{\EQ_mathdisplay_box}}}%
7634 \or:
7635 \makebox[\l_EQ_displaywidth_dim][c]
7636 {\usebox{\EQ_mathdisplay_box}}}%
7637 \or:
7638 \if@RTL\makebox[\l_EQ_displaywidth_dim][r]{%
7639 \if_num:w \l_EQ_equationtype_int=5 \else:
7640 \if_num:w \l_EQ_equationtype_int=6 \else:
7641 \kern-\@mathmargin
7642 \fi:
7643 \fi:
7644 \usebox{\EQ_mathdisplay_box}}}%
7645 \else\makebox[\l_EQ_displaywidth_dim][l]{%
7646 \if_num:w \l_EQ_equationtype_int=5 \else:

```



```

7647         \if_num:w \l_EQ_equationtype_int=6 \else:
7648         \kern-\@mathmargin
7649         \fi:
7650     \fi:
7651     \usebox{\EQ_mathdisplay_box}}\fi%
7652 \or:
7653     \if@RTL\makebox[\l_EQ_displaywidth_dim][r]{%
7654     \if_num:w \l_EQ_equationtype_int=5 \else:
7655     \if_num:w \l_EQ_equationtype_int=6 \else:
7656     \kern-\@mathmargin
7657     \fi:
7658     \fi:
7659     \usebox{\EQ_mathdisplay_box}}
7660 \else\makebox[\l_EQ_displaywidth_dim][l]{%
7661     \if_num:w \l_EQ_equationtype_int=5 \else:
7662     \if_num:w \l_EQ_equationtype_int=6 \else:
7663     \kern-\@mathmargin
7664     \fi:
7665     \fi:
7666     \usebox{\EQ_mathdisplay_box}}\fi%
7667 \fi:}%
7668 \EQ_right_side:$}%
7669 \begin{AmSequation*}
7670 \@nameuse{EQ_place_display_
7671     \romannumeral\l_EQ_equationtype_int\EQ_next: :}
7672 \if_dim:w \g_EQ_widesttag_dim>\z@
7673 \MH_set_boolean_T:n {show_manual_tags}
7674 \if_case:w \l_EQ_alignmentmode_int
7675 \or: \if@RTL\EQ_place_tag:N l\else\EQ_place_tag:N r\fi %#1
7676 \or: \if@RTL\EQ_place_tag:N r\else\EQ_place_tag:N l\fi %#2
7677 \or: \if@RTL\EQ_place_tag:N l\else\EQ_place_tag:N r\fi %#3
7678 \or: \if@RTL\EQ_place_tag:N r\else\EQ_place_tag:N l\fi %#4
7679 \fi:
7680 \fi:
7681 \end{AmSequation*}
7682 \global\c@equation=\l_EQ_equation_fint\relax
7683 }
7684 \AtBeginDocument{%
7685 \ifpackageloaded{fancybox}{%
7686 \ifpackageloaded{color}{\definecolor{shadowcolor}{rgb}{0,0,0}}%
7687 {\renewcommand*\textcolor[2]{\normalcolor{#2}}}%
7688 \renewcommand*\shadowbox{%
7689 \ifstar{\MH_set_boolean_T:n {shadowbox_star}
7690 \VerbBox\EQ_shadowbox:n}
7691 {\MH_set_boolean_F:n {shadowbox_star}
7692 \VerbBox\EQ_shadowbox:n}}
7693 \def\EQ_shadowbox:n #1{%
7694 \sbox{\z@}{\fbox{#1}}%
7695 \MH_if_boolean:nTF {shadowbox_star}{
7696 \MH_setlength:dn \@tempdima{\z@}%

```





```

7697   }{
7698     \MH_setlength:dn \@tempdima{\dp\z@+\shadowsize}%
7699   }
7700   \raisebox{\@tempdima}{%
7701     \ifRTL\makebox[\z@][r]{%
7702       \kern\shadowsize \textcolor{shadowcolor}{%
7703         \rule[-\dp\z@-\shadowsize]{\wd\z@}{\shadowsize}}%
7704     }%
7705     \else\makebox[\z@][l]{%
7706       \kern\shadowsize \textcolor{shadowcolor}{%
7707         \rule[-\dp\z@-\shadowsize]{\wd\z@}{\shadowsize}}%
7708     }%
7709     \usebox\z@\textcolor{shadowcolor}{%
7710       \rule[-\dp\z@-\shadowsize]{\shadowsize}{\ht\z@+\dp\z@}}}%
7711   }{}%
7712 }
7713 \MHInternalSyntaxOff

```

## 7.51 extarticle-xetex-bidi.def

```

7714 \ProvidesFile{extarticle-xetex-bidi.def}[2015/11/14 v0.3 bidi adaptations for extarticle clas
7715 \renewcommand*\l@section[2]{%
7716   \ifnum \c@tocdepth >\z@
7717     \addpenalty\@secpenalty
7718     \addvspace{1.0em \@plus\p@}%
7719     \setlength\@tempdima{1.5em}%
7720     \begingroup
7721       \parindent \z@ \ifRTL\leftskip\else\rightskip\fi \@pnumwidth
7722       \parfillskip -\@pnumwidth
7723       \leavevmode \bfseries
7724       \advance\ifRTL\rightskip\else\leftskip\fi\@tempdima
7725       \hskip -\ifRTL\rightskip\else\leftskip\fi
7726       #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
7727     \endgroup
7728   \fi}
7729 \renewcommand*\l@part[2]{%
7730   \ifnum \c@tocdepth >-2\relax
7731     \addpenalty\@secpenalty
7732     \addvspace{2.25em \@plus\p@}%
7733     \begingroup
7734       \setlength\@tempdima{3em}%
7735       \parindent \z@ \ifRTL\leftskip\else\rightskip\fi \@pnumwidth
7736       \parfillskip -\@pnumwidth
7737       {\leavevmode
7738         \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
7739       \nobreak
7740     \endgroup
7741   \fi}
7742 \def\@part[#1]#2{%
7743   \ifnum \c@secnumdepth >\m@ne

```



```

7744 \refstepcounter{part}%
7745 \addcontentsline{toc}{part}{\thepart\hspace{1em}#1}%
7746 \else
7747 \addcontentsline{toc}{part}{#1}%
7748 \fi
7749 {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
7750 \interlinepenalty \@M
7751 \normalfont
7752 \ifnum \c@secnumdepth >\m@ne
7753 \Large\bfseries \partname~\thepart
7754 \par\nobreak
7755 \fi
7756 \huge \bfseries #2%
7757 \markboth{}{}\par}%
7758 \nobreak
7759 \vskip 3ex
7760 \@afterheading}
7761 \def\@spart#1{%
7762 {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
7763 \interlinepenalty \@M
7764 \normalfont
7765 \huge \bfseries #1\par}%
7766 \nobreak
7767 \vskip 3ex
7768 \@afterheading}
7769 \renewenvironment{thebibliography}[1]
7770 {\section*{\refname
7771 \mkboth{\MakeUppercase\refname}{\MakeUppercase\refname}}%
7772 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
7773 \list{\@biblabel{\@arabic\c@enumiv}}%
7774 {\settowidth\labelwidth{\@biblabel{#1}}%
7775 \leftmargin\labelwidth
7776 \advance\leftmargin\labelsep
7777 \@openbib@code
7778 \usecounter{enumiv}%
7779 \let\p@enumiv\empty
7780 \renewcommand\theenumiv{\@arabic\c@enumiv}}%
7781 \sloppy\clubpenalty4000\widowpenalty4000%
7782 \sfcode`.\@m}
7783 {\def\@noitemerr
7784 {\@latex@warning{Empty `thebibliography' environment}}%
7785 \endlist}
7786 \renewcommand\left@footnoterule{%
7787 \kern-3\p@
7788 \hrule\@width.4\columnwidth
7789 \kern2.6\p@}
7790 \renewcommand\right@footnoterule{%
7791 \kern-3\p@
7792 \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
7793 \kern2.6\p@}

```



```

7794 \if@titlepage
7795 \renewcommand\maketitle{\begin{titlepage}%
7796 \let\footnotesize\small
7797 \let\right@footnoterule\relax
7798 \let\left@footnoterule\relax
7799 \let\textwidth@footnoterule\relax
7800 \let \footnote \thanks
7801 \null\vfil
7802 \vskip 60\p@
7803 \begin{center}%
7804 {\LARGE \@title \par}%
7805 \vskip 3em%
7806 {\large
7807 \lineskip .75em%
7808 \begin{tabular}[t]{c}%
7809 \@author
7810 \end{tabular}\par}%
7811 \vskip 1.5em%
7812 {\large \@date \par}% % Set date in \large size.
7813 \end{center}\par
7814 \@thanks
7815 \vfil\null
7816 \end{titlepage}%
7817 \setcounter{footnote}{0}%
7818 \global\let\thanks\relax
7819 \global\let\maketitle\relax
7820 \global\let\@thanks\@empty
7821 \global\let\@author\@empty
7822 \global\let\@date\@empty
7823 \global\let\@title\@empty
7824 \global\let\title\relax
7825 \global\let\author\relax
7826 \global\let\date\relax
7827 \global\let\and\relax
7828 }
7829 \else
7830 \renewcommand\maketitle{\par
7831 \begingroup
7832 \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
7833 \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
7834 \long\def\@makefntext##1{\parindent 1em\noindent
7835 \hb@xt@1.8em{%
7836 \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
7837 \if@twocolumn
7838 \ifnum \col@number=\@ne
7839 \@maketitle
7840 \else
7841 \twocolumn[\@maketitle]%
7842 \fi
7843 \else

```



```

7844 \newpage
7845 \global\@topnum\z@ % Prevents figures from going at top of page.
7846 \@maketitle
7847 \fi
7848 \thispagestyle{plain}\@thanks
7849 \endgroup
7850 \setcounter{footnote}{0}%
7851 \global\let\thanks\relax
7852 \global\let\maketitle\relax
7853 \global\let\@maketitle\relax
7854 \global\let\@thanks\@empty
7855 \global\let\@author\@empty
7856 \global\let\@date\@empty
7857 \global\let\@title\@empty
7858 \global\let\ttitle\relax
7859 \global\let\author\relax
7860 \global\let\date\relax
7861 \global\let\and\relax
7862 }
7863 \def\@maketitle{%
7864 \newpage
7865 \null
7866 \vskip 2em%
7867 \begin{center}%
7868 \let \footnote \thanks
7869 {\LARGE \@title \par}%
7870 \vskip 1.5em%
7871 {\large
7872 \lineskip .5em%
7873 \begin{tabular}[t]{c}%
7874 \@author
7875 \end{tabular}\par}%
7876 \vskip 1em%
7877 {\large \@date}%
7878 \end{center}%
7879 \par
7880 \vskip 1.5em}
7881 \fi
7882 \renewcommand\thesubsection {\thesection\@SepMark\@arabic\c@subsection}
7883 \renewcommand\thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
7884 \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
7885 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}%%

```

## 7.52 extbook-xetex-bidi.def

```

7886 \ProvidesFile{extbook-xetex-bidi.def}[2010/07/25 v0.3 bidi adaptations for extbook class for
7887 \if@titlepage
7888 \renewcommand\maketitle{\begin{titlepage}%
7889 \let\footnotesize\small
7890 \let\right@footnoterule\relax

```



```

7891 \let\left@footnoterule\relax
7892 \let\textwidth@footnoterule\relax
7893 \let \footnote \thanks
7894 \let \LTRfootnote \LTRthanks
7895 \let \RTLfootnote \RTLthanks
7896 \null\vfil
7897 \vskip 60\p@
7898 \begin{center}%
7899   {\LARGE \@title \par}%
7900   \vskip 3em%
7901   {\large
7902     \lineskip .75em%
7903     \begin{tabular}[t]{c}%
7904       \@author
7905     \end{tabular}\par}%
7906     \vskip 1.5em%
7907     {\large \@date \par}%           % Set date in \large size.
7908 \end{center}\par
7909 \@thanks
7910 \vfil\null
7911 \end{titlepage}%
7912 \setcounter{footnote}{0}%
7913 \global\let\thanks\relax
7914 \global\let\LTRthanks\relax
7915 \global\let\RTLthanks\relax
7916 \global\let\maketitle\relax
7917 \global\let\@thanks\@empty
7918 \global\let\@author\@empty
7919 \global\let\@date\@empty
7920 \global\let\@title\@empty
7921 \global\let\title\relax
7922 \global\let\author\relax
7923 \global\let\date\relax
7924 \global\let\and\relax
7925 }
7926 \else
7927 \renewcommand\maketitle{\par
7928   \begingroup
7929     \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
7930     \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
7931     \long\def\@makefntext##1{\parindent 1em\noindent
7932       \hb@xt@1.8em{%
7933         \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
7934     \if@twocolumn
7935       \ifnum \col@number=\@ne
7936         \@maketitle
7937       \else
7938         \twocolumn[\@maketitle]%
7939       \fi
7940     \else

```



```

7941 \newpage
7942 \global\@topnum\z@ % Prevents figures from going at top of page.
7943 \@maketitle
7944 \fi
7945 \thispagestyle{plain}\@thanks
7946 \endgroup
7947 \setcounter{footnote}{0}%
7948 \global\let\thanks\relax
7949 \global\let\LTRthanks\relax
7950 \global\let\RTLthanks\relax
7951 \global\let\maketitle\relax
7952 \global\let\@maketitle\relax
7953 \global\let\@thanks\@empty
7954 \global\let\@author\@empty
7955 \global\let\@date\@empty
7956 \global\let\@title\@empty
7957 \global\let\title\relax
7958 \global\let\author\relax
7959 \global\let\date\relax
7960 \global\let\and\relax
7961 }
7962 \def\@maketitle{%
7963 \newpage
7964 \null
7965 \vskip 2em%
7966 \begin{center}%
7967 \let \footnote \thanks
7968 \let \LTRfootnote \LTRthanks
7969 \let \RTLfootnote \RTLthanks
7970 {\LARGE \@title \par}%
7971 \vskip 1.5em%
7972 {\large
7973 \lineskip .5em%
7974 \begin{tabular}[t]{c}%
7975 \@author
7976 \end{tabular}\par}%
7977 \vskip 1em%
7978 {\large \@date}%
7979 \end{center}%
7980 \par
7981 \vskip 1.5em}
7982 \fi
7983 \renewcommand*\l@part[2]{%
7984 \ifnum \c@tocdepth >-2\relax
7985 \addpenalty{-\@highpenalty}%
7986 \addvspace{2.25em \@plus\p@}%
7987 \begingroup
7988 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
7989 \parfillskip -\@pnumwidth
7990 {\leavevmode

```



```

7991      \large \bfseries #1\hfil \hb@xt@{\pnumwidth{\hss #2}}\par
7992      \nobreak
7993      \global\@nobreaktrue
7994      \everypar{\global\@nobreakfalse\everypar{}}%
7995  \endgroup
7996  \fi}
7997 \renewcommand\theequation
7998 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
7999 \renewcommand \thefigure
8000     {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
8001 \renewcommand \thetable
8002     {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
8003 \renewcommand \thechapter {\@arabic\c@chapter}
8004 \renewcommand \thesection {\thechapter\@SepMark\@arabic\c@section}
8005 \renewcommand\thesubsection {\thesection\@SepMark\@arabic\csubsection}
8006 \renewcommand\thesubsubsection{\thesubsection \@SepMark\@arabic\csubsubsection}
8007 \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
8008 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
8009 \def\@makechapterhead#1{%
8010     \vspace*{50\p@}%
8011     {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont
8012       \ifnum \c@secnumdepth >\m@ne
8013         \if@mainmatter
8014           \huge\bfseries \@chapapp\space \thechapter
8015           \par\nobreak
8016           \vskip 20\p@
8017         \fi
8018       \fi
8019       \interlinepenalty\@M
8020       \Huge \bfseries #1\par\nobreak
8021       \vskip 40\p@
8022     }}
8023
8024 \def\@makeschapterhead#1{%
8025     \vspace*{50\p@}%
8026     {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
8027       \normalfont
8028       \interlinepenalty\@M
8029       \Huge \bfseries #1\par\nobreak
8030       \vskip 40\p@
8031     }}
8032 \renewcommand\backmatter{%
8033     \if@openright
8034       \cleardoublepage
8035     \else
8036       \clearpage
8037     \fi
8038     \@mainmatterfalse}
8039 \renewenvironment{thebibliography}[1]
8040     {\chapter*{\bibname

```



```

8041      \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}}%
8042      \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
8043      \list{\@biblabel{\@arabic\c@enumiv}}%
8044          {\settowidth\labelwidth{\@biblabel{#1}}%
8045           \leftmargin\labelwidth
8046           \advance\leftmargin\labelsep
8047           \@openbib@code
8048           \usecounter{enumiv}%
8049           \let\p@enumiv\@empty
8050           \renewcommand\theenumiv{\@arabic\c@enumiv}}%
8051      \sloppy
8052      \clubpenalty4000
8053      \@clubpenalty \clubpenalty
8054      \widowpenalty4000%
8055      \sfcode\.\@m}
8056      {\def\@noitemerr
8057       {\@latex@warning{Empty `thebibliography' environment}}}%
8058      \endlist}

```

### 7.53 extletter-xetex-bidi.def

```

8059 \ProvidesFile{extletter-xetex-bidi.def}[2015/11/14 v0.2 bidi adaptations for extletter class
8060 \renewcommand*{\opening}[1]{\ifx\@empty\fromaddress
8061   \thispagestyle{firstpage}%
8062   {\if@RTL\raggedright\else\raggedleft\fi\@date\par}%
8063   \else % home address
8064     \thispagestyle{empty}%
8065     {\if@RTL\raggedright\begin{tabular}{r@{}}\else\raggedleft\begin{tabular}{l@{}}\fi\ignores
8066      \fromaddress \*[2\parskip]%
8067      \@date \end{tabular}\par}%
8068   \fi
8069   \vspace{2\parskip}%
8070   {\if@RTL\raggedleft\else\raggedright\fi \toname \\\ toaddress \par}%
8071   \vspace{2\parskip}%
8072   #1\par\nobreak}
8073 \renewcommand{\closing}[1]{\par\nobreak\vspace{\parskip}%
8074   \stopbreaks
8075   \noindent
8076   \ifx\@empty\fromaddress\else
8077     \hspace*{\longindentation}\fi
8078   \parbox{\indentedwidth}{\if@RTL\raggedleft\else\raggedright\fi
8079     \ignorespaces #1\\[6\medskipamount]%
8080     \ifx\@empty\fromsig
8081       \fromname
8082     \else \fromsig \fi\strut}%
8083   \par}
8084 \renewcommand\left@footnoterule{%
8085   \kern-\p@
8086   \hrule \@width .4\columnwidth
8087   \kern .6\p@}

```





```

8088 \renewcommand\right@footnoterule{%
8089   \kern-\p@
8090   \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
8091   \kern .6\p@}

```

## 7.54 extrafootnotefeatures-xetex-bidi.def

```

8092 \ProvidesFile{extrafootnotefeatures-xetex-bidi.def}[2016/05/10 v1 bidi extra footnote features]
8093 \let\autofootnoterule\relax
8094 \let\rightfootnoterule\relax
8095 \let\leftfootnoterule\relax
8096 \let\textwidthfootnoterule\relax
8097 \let\LRfootnoterule\relax
8098 \def\footnoterule{\kern-3\p@
8099   \hrule \@width \columnwidth \kern 2.6\p@}
8100 \bidi@ensure@newcommand{\setRTLparagraphfootnotes}{\@parafootRTLtrue}
8101 \bidi@ensure@newcommand{\setLTRparagraphfootnotes}{\@parafootRTLfalse}
8102 \renewcommand{\@footnotetext}[1]{%
8103   \insert\footins{%
8104     \ifRTL@footnote\@RTLtrue\else\@RTLfalse\fi%
8105     \def\baselinestretch{\m@m@footnote@spacing}%
8106     \reset@font
8107     \foottextfont
8108     \@preamfntext
8109     \hsize\columnwidth
8110     \protected@edef\@currentlabel{%
8111       \csname p@footnote\endcsname\@thefnmark}%
8112     \color@begingroup
8113     \@makefntext{%
8114       \rule{z@\footnotesep}{\ignorespaces\foottextfont #1}%
8115       \@finalstrut\strutbox}%
8116     \color@endgroup}%
8117     \m@m@prepare}
8118 \renewcommand{\@RTLfootnotetext}[1]{%
8119   \insert\footins{%
8120     \@RTLtrue%
8121     \def\baselinestretch{\m@m@footnote@spacing}%
8122     \reset@font
8123     \RTLfoottextfont
8124     \@preamfntext
8125     \hsize\columnwidth
8126     \protected@edef\@currentlabel{%
8127       \csname p@footnote\endcsname\@thefnmark}%
8128     \color@begingroup
8129     \@makefntext{%
8130       \rule{z@\footnotesep}{\ignorespaces\RTLfoottextfont #1}%
8131       \@finalstrut\strutbox}%
8132     \color@endgroup}%
8133     \m@m@prepare}
8134 \renewcommand{\@LTRfootnotetext}[1]{%

```



```

8135 \insert\footins{%
8136 \RTLfalse%
8137 \def\baselinestretch{\m@m@footnote@spacing}%
8138 \reset@font
8139 \LTRfoottextfont
8140 \@preamfntext
8141 \hsize\columnwidth
8142 \protected@edef\@currentlabel{%
8143 \csname p@footnote\endcsname\@thefnmark}%
8144 \color@begingroup
8145 \@makefntext{%
8146 \rule\z@\footnotesep\ignorespaces{\LTRfoottextfont #1}%
8147 \@finalstrut\strutbox}%
8148 \color@endgroup}%
8149 \m@m@mmf@prepare}
8150 \renewcommand{\@mpfootnotetext}[1]{%
8151 \global\setbox\@mpfootins\vbox{\ifRTL@footnote\RTLtrue\else\RTLfalse\fi%
8152 \unvbox\@mpfootins
8153 \def\baselinestretch{\m@m@footnote@spacing}%
8154 \foottextfont \hsize\columnwidth \@parboxrestore
8155 \protected@edef\@currentlabel{%
8156 \csname p@mpfootnote\endcsname\@thefnmark}%
8157 \color@begingroup
8158 \reset@font%
8159 \@makefntext{%
8160 \rule\z@\footnotesep\ignorespaces{\foottextfont #1}%
8161 \@finalstrut\strutbox}%
8162 \color@endgroup}}
8163 \renewcommand{\@mpLTRfootnotetext}[1]{%
8164 \global\setbox\@mpfootins\vbox{\RTLfalse%
8165 \unvbox\@mpfootins
8166 \def\baselinestretch{\m@m@footnote@spacing}%
8167 \LTRfoottextfont \hsize\columnwidth \@parboxrestore
8168 \protected@edef\@currentlabel{%
8169 \csname p@mpfootnote\endcsname\@thefnmark}%
8170 \color@begingroup
8171 \reset@font%
8172 \@makefntext{%
8173 \rule\z@\footnotesep\ignorespaces{\LTRfoottextfont #1}%
8174 \@finalstrut\strutbox}%
8175 \color@endgroup}}
8176 \renewcommand{\@mpRTLfootnotetext}[1]{%
8177 \global\setbox\@mpfootins\vbox{\RTLtrue%
8178 \unvbox\@mpfootins
8179 \def\baselinestretch{\m@m@footnote@spacing}%
8180 \RTLfoottextfont \hsize\columnwidth \@parboxrestore
8181 \protected@edef\@currentlabel{%
8182 \csname p@mpfootnote\endcsname\@thefnmark}%
8183 \color@begingroup
8184 \reset@font%

```



```

8185 \makefnintext{%
8186 \rule{z@footnotesep}{\ignorespaces{\RTLfoottextfont #1}%
8187 \@finalstrut\strutbox}%
8188 \color@endgroup}}
8189 \let\m@mold@footnotetext\@footnotetext
8190 \let\m@mold@LTRfootnotetext\@LTRfootnotetext
8191 \let\m@mold@RTLfootnotetext\@RTLfootnotetext
8192 \let\m@mold@mpfootnotetext\@mpfootnotetext
8193 \let\m@mold@mpLTRfootnotetext\@mpLTRfootnotetext
8194 \let\m@mold@mpRTLfootnotetext\@mpRTLfootnotetext
8195 \bidi@ensure@newcommand{\normalfootnotes}{%
8196 \let\@footnotetext\m@mold@footnotetext
8197 \let\@LTRfootnotetext\m@mold@LTRfootnotetext
8198 \let\@RTLfootnotetext\m@mold@RTLfootnotetext
8199 \let\@mpfootnotetext\m@mold@mpfootnotetext
8200 \let\@mpLTRfootnotetext\m@mold@mpLTRfootnotetext
8201 \let\@mpRTLfootnotetext\m@mold@mpRTLfootnotetext}
8202 \ifclassloaded{memoir}{\let\plainfootnotes\normalfootnotes}{%
8203 \bidi@ensure@newcommand*{\RTLcolumnfootnotes}{\@RTLcolumnfootnotestrue}
8204 \bidi@ensure@newcommand*{\LTRcolumnfootnotes}{\@RTLcolumnfootnotestrue}
8205 \bidi@ensure@newcommand*{\setSingleSpace}[1]{%
8206 \def\m@m@singlespace{#1}%
8207 \def\m@m@footnote@spacing{#1}%
8208 \def\m@m@float@spacing{#1} %
8209 }
8210 \setSingleSpace{1}
8211 \bidi@ensure@newcommand*{\multiplefootnotemark}{3sp}
8212 \bidi@ensure@newcommand*{\m@m@mmf@prepare}{%
8213 \kern-\multiplefootnotemark
8214 \kern\multiplefootnotemark\relax}
8215 \bidi@ensure@newlength{\footmarkwidth}
8216 \bidi@ensure@newlength{\footmarksep}
8217 \bidi@ensure@newlength{\footparindent}
8218 \bidi@ensure@newcommand*{\footmarkstyle}[1]{\def\footscript##1{#1}}
8219 \bidi@ensure@newcommand*{\LTRfootmarkstyle}[1]{\def\LTRfootscript##1{#1}}
8220 \bidi@ensure@newcommand*{\RTLfootmarkstyle}[1]{\def\RTLfootscript##1{#1}}
8221 \bidi@ensure@newcommand{\footfootmark}{%
8222 \ifdim\footmarkwidth < \z@
8223 \llap{\hb@xt@ -\footmarkwidth{%
8224 \hss\normalfont\footscript{\@thefnmark}}}%
8225 \hspace*{-\footmarkwidth}}%
8226 \else
8227 \ifdim\footmarkwidth = \z@
8228 {\normalfont\footscript{\@thefnmark}}%
8229 \else
8230 \hb@xt@\footmarkwidth{\hss\normalfont\footscript{\@thefnmark}}%
8231 \fi
8232 \fi}
8233 \bidi@ensure@newcommand{\LTRfootfootmark}{%
8234 \ifdim\footmarkwidth < \z@

```



```

8235 \llap{\hb@xt@ -\footmarkwidth{%
8236 \hss\normalfont\LTRfootscript{\@thefnmark}}%
8237 \hspace*{-\footmarkwidth}}%
8238 \else
8239 \ifdim\footmarkwidth = \z@
8240 {\normalfont\LTRfootscript{\@thefnmark}}%
8241 \else
8242 \hb@xt@\footmarkwidth{\hss\normalfont\LTRfootscript{\@thefnmark}}%
8243 \fi
8244 \fi}
8245 \bidi@ensure@newcommand{\RTLfootfootmark}{%
8246 \ifdim\footmarkwidth < \z@
8247 \llap{\hb@xt@ -\footmarkwidth{%
8248 \hss\normalfont\RTLfootscript{\@thefnmark}}%
8249 \hspace*{-\footmarkwidth}}%
8250 \else
8251 \ifdim\footmarkwidth = \z@
8252 {\normalfont\RTLfootscript{\@thefnmark}}%
8253 \else
8254 \hb@xt@\footmarkwidth{\hss\normalfont\RTLfootscript{\@thefnmark}}%
8255 \fi
8256 \fi}
8257 \footmarkstyle{\textsuperscript{#1}}
8258 \LTRfootmarkstyle{\textsuperscript{#1}}
8259 \RTLfootmarkstyle{\textsuperscript{#1}}
8260 \setlength{\footmarkwidth}{1em plus.4em minus.4em}
8261 \setlength{\footparindent}{1em}
8262 \bidi@ensure@newcommand{\m@mdoextrafeet}{\extrafeetins}
8263 \bidi@ensure@newcommand*{\extrafeetins}{%
8264 \setbox\@outputbox \vbox{%
8265 \boxmaxdepth \@maxdepth
8266 \unvbox\@outputbox
8267 \ifvoid\footinsv@r\else\@footstartv@r\@footgroupv@r\fi
8268 \extrafeetinshook}}
8269 \bidi@ensure@newcommand{\extrafeetinshook}{%
8270 \bidi@ensure@newcommand{\foottextfont}{\footnotesize}
8271 \bidi@ensure@newcommand{\LTRfoottextfont}{\footnotesize}
8272 \bidi@ensure@newcommand{\RTLfoottextfont}{\footnotesize}
8273 \bidi@ensure@newlength{\footinsdim}
8274 \setlength{\footinsdim}{8in} % standard for \dimen\footins
8275 \bidi@ensure@newcommand{\@preamfntext}{%
8276 \interlinepenalty\interfootnotelinepenalty
8277 \floatingpenalty \@MM
8278 \splittopskip=\footnotesep
8279 \splitmaxdepth=\dp\strutbox
8280 \@parboxrestore}
8281 \bidi@ensure@newcommand{\m@mdoextrafeetmini}{%
8282 \extrafeetminihook}
8283 \bidi@ensure@newcommand{\extrafeetendmini}{%
8284 \ifvoid\@mpfootinsv@r\else

```



```

8285 \vskip\skip\@mpfootins
8286 \normalcolor\footnoterule\mp@footgroupv@r
8287 \fi
8288 \extrafeetendminihook}
8289 \bidi@ensure@newcommand{\extrafeetendminihook}{}
8290 \bidi@ensure@newcommand{\m@mdoextrafeetendmini}{\extrafeetendmini}
8291 \def\endminipage{%
8292 \par
8293 \unskip
8294 \ifvoid\@mpfootins\else
8295 \vskip\skip\@mpfootins
8296 \normalcolor
8297 \footnoterule
8298 \unvbox\@mpfootins
8299 \fi
8300 \m@mdoextrafeetendmini
8301 \@minipagefalse
8302 \color@endgroup
8303 \egroup
8304 \expandafter\@iiparbox\@mpargs{\unvbox\@tempboxa}}
8305 \bidi@ensure@newcommand{\m@make@footstart}[1]{%
8306 \@namedef{footstart#1}{%
8307 \bidi@mopfn@bottom
8308 \vskip\bigskipamount
8309 \leftskip=\z@
8310 \rightskip=\z@
8311 \footnoterule}}
8312 \newinsert\footinsv@r
8313 \skip\footinsv@r\bigskipamount
8314 \count\footinsv@r=1000 % no magnification
8315 \dimen\footinsv@r=\footinsdim
8316 \m@make@footstart{v@r}
8317 \bidi@ensure@newcommand{\@footgroupv@r}{}
8318 \newinsert\@mpfootinsv@r
8319 \bidi@ensure@newcommand{\mp@footgroupv@r}{}
8320 \newcount\m@m@k \newdimen\m@m@h
8321 \ifpackageloaded{multicol}{%
8322 \bidi@ensure@newcommand*{\m@mrigidbalance}[3]{\setbox0=\box#1 \m@m@k=#2 \m@m@h=#3
8323 \hsize\textwidth
8324 \@@line{\if@RTLcolumnfootnotes\beginR\fi\splittopskip=\m@m@h \vbadness=\@M \hfilneg
8325 \valign{##\vfill\cr\m@mdosplits}\if@RTLcolumnfootnotes\endR\fi}}
8326 }{%
8327 \bidi@ensure@newcommand*{\m@mrigidbalance}[3]{\setbox0=\box#1 \m@m@k=#2 \m@m@h=#3
8328 \@@line{\if@RTLcolumnfootnotes\beginR\fi\splittopskip=\m@m@h \vbadness=\@M \hfilneg
8329 \valign{##\vfill\cr\m@mdosplits}\if@RTLcolumnfootnotes\endR\fi}}
8330 \bidi@ensure@newcommand*{\m@mdosplits}{\ifnum\m@m@k>0 \noalign{\hfil}\m@msplitoff
8331 \global\advance\m@m@k-1\cr\m@mdosplits\fi}
8332 \bidi@ensure@newcommand*{\m@msplitoff}{\dimen0=\ht0
8333 \divide\dimen0 by\m@m@k \advance\dimen0 by\m@m@h
8334 \setbox2 \vsplit0 to \dimen0

```



```

8335 \unvbox2 }
8336 \bidi@ensure@newcommand{\twocolumnfootnotes}{%
8337 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
8338 \let\@footnotetext\@twocolfootnotetext
8339 \let\@LTRfootnotetext\@twocolLTRfootnotetext
8340 \let\@RTLfootnotetext\@twocolRTLfootnotetext
8341 \dimen\footinsv@r=2\footinsdim
8342 \count\footinsv@r=500\relax
8343 \m@make@twocol@footgroup{v@r}%
8344 \let\@footgroupv@r\@twocol@footgroupv@r
8345 \let\@mpfootnotetext\@mptwocolfootnotetext
8346 \let\@mpLTRfootnotetext\@mptwocolLTRfootnotetext
8347 \let\@mpRTLfootnotetext\@mptwocolRTLfootnotetext
8348 \m@make@mptwocol@footgroup{v@r}%
8349 \let\mp@footgroupv@r\@mptwocol@footgroupv@r
8350 \bidi@ensure@newcommand{\@twocolfootnotetext}[1]{\insert\footinsv@r{\if@RTL@footnote\@RTLtrue
8351 \def\baselinestretch{\m@m@footnote@spacing}%
8352 \reset@font\foottextfont
8353 \@preamfntext
8354 \protected@edef\@currentlabel{%
8355 \csname p@footnote\endcsname\@thefnmark}%
8356 \color@begingroup
8357 \@twocolfootfmt{#1}%
8358 \color@endgroup}%
8359 \m@mmf@prepare}
8360 \bidi@ensure@newcommand{\@twocolLTRfootnotetext}[1]{\insert\footinsv@r{\if@RTLcolumnfootnotes
8361 \def\baselinestretch{\m@m@footnote@spacing}%
8362 \reset@font\LTRfoottextfont
8363 \@preamfntext
8364 \protected@edef\@currentlabel{%
8365 \csname p@footnote\endcsname\@thefnmark}%
8366 \color@begingroup
8367 \@twocolLTRfootfmt{#1}%
8368 \color@endgroup}%
8369 \m@mmf@prepare}
8370 \bidi@ensure@newcommand{\@twocolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
8371 \def\baselinestretch{\m@m@footnote@spacing}%
8372 \reset@font\RTLfoottextfont
8373 \@preamfntext
8374 \protected@edef\@currentlabel{%
8375 \csname p@footnote\endcsname\@thefnmark}%
8376 \color@begingroup
8377 \@twocolRTLfootfmt{#1}%
8378 \color@endgroup}%
8379 \m@mmf@prepare}
8380 \bidi@ensure@newcommand{\@preamtwofmt}{%
8381 \hsize .45\hsize
8382 \parindent=\z@
8383 \tolerance=5000\relax
8384 \leavevmode}

```



```

8385 \bidi@ensure@newcommand{\@twocolfootfmt}[1]{%
8386   \@preamtwofmt
8387   {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
8388 \bidi@ensure@newcommand{\@twocolLTRfootfmt}[1]{%
8389   \@preamtwofmt
8390   {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
8391 \bidi@ensure@newcommand{\@twocolRTLfootfmt}[1]{%
8392   \@preamtwofmt
8393   {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
8394 \bidi@ensure@newcommand{\@mptwocolfootnotetext}[1]{%
8395   \global\setbox\@mpfootinsv@r\vbox{\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
8396     \unvbox\@mpfootinsv@r
8397     \def\baselinestretch{\m@{footnote@spacing}}%
8398     \reset@font\foottextfont
8399     \hsize\columnwidth \@parboxrestore
8400     \protected@edef\@currentlabel{%
8401       \csname p@mpfootnote\endcsname\@thefnmark}%
8402     \color@begingroup
8403       \@twocolfootfmt{#1}%
8404     \color@endgroup}%
8405   \m@mmf@prepare}
8406 \bidi@ensure@newcommand{\@mptwocolLTRfootnotetext}[1]{%
8407   \global\setbox\@mpfootinsv@r\vbox{\@RTLfalse%
8408     \unvbox\@mpfootinsv@r
8409     \def\baselinestretch{\m@{footnote@spacing}}%
8410     \reset@font\LTRfoottextfont
8411     \hsize\columnwidth \@parboxrestore
8412     \if@RTLcolumnfootnotes\beginL\fi
8413     \protected@edef\@currentlabel{%
8414       \csname p@mpfootnote\endcsname\@thefnmark}%
8415     \color@begingroup
8416       \@twocolLTRfootfmt{#1}%
8417     \color@endgroup}%
8418   \m@mmf@prepare}
8419 \bidi@ensure@newcommand{\@mptwocolRTLfootnotetext}[1]{%
8420   \global\setbox\@mpfootinsv@r\vbox{\@RTLtrue%
8421     \unvbox\@mpfootinsv@r
8422     \def\baselinestretch{\m@{footnote@spacing}}%
8423     \reset@font\RTLfoottextfont
8424     \hsize\columnwidth \@parboxrestore
8425     \protected@edef\@currentlabel{%
8426       \csname p@mpfootnote\endcsname\@thefnmark}%
8427     \color@begingroup
8428       \@twocolRTLfootfmt{#1}%
8429     \color@endgroup}%
8430   \m@mmf@prepare}
8431 \bidi@ensure@newcommand{\twocolumnfootstyle}[1]{%
8432   \m@make@twocolfootnotetext{#1}%
8433   \m@make@mptwocolfootnotetext{#1}%
8434   \m@make@twocolfootfmt{#1}%

```



```

8435 \m@make@twocol@footgroup{#1}%
8436 \m@make@mptwocol@footgroup{#1}%
8437 \m@make@footstart{#1}%
8438 \bidi@namelongdef{@footnotetext#1}##1{%
8439     \@nameuse{@twocolfootnotetext#1}{##1}}%
8440 \bidi@namelongdef{@mpfootnotetext#1}##1{%
8441     \@nameuse{@mptwocolfootnotetext#1}{##1}}%
8442 \@namedef{@footgroup#1}{\@nameuse{@twocol@footgroup#1}}%
8443 \@namedef{@mp@footgroup#1}{\@nameuse{@mptwocol@footgroup#1}}%
8444 \expandafter\dimen\csname footins#1\endcsname=2\footinsdim
8445 \expandafter\count\csname footins#1\endcsname=500\relax}
8446 \bidi@ensure@newcommand{\m@make@twocolfootnotetext}[1]{%
8447     \bidi@namelongdef{@twocolfootnotetext#1}##1{%
8448         \insert\@nameuse{footins#1}{%
8449             \def\baselinestretch{\m@m@footnote@spacing}%
8450             \reset@font\@nameuse{foottextfont#1}%
8451             \@preamfntext
8452             \protected@edef\@currentlabel{%
8453                 \csname p@footnote#1\endcsname \@nameuse{@thefnmark#1}}%
8454             \color@begingroup
8455                 \@nameuse{@twocolfootfmt#1}{##1}%
8456             \color@endgroup}%
8457             \m@m@mmf@prepare}}
8458 \bidi@ensure@newcommand{\m@make@mptwocolfootnotetext}[1]{%
8459     \bidi@namelongdef{@mptwocolfootnotetext#1}##1{%
8460         \global\setbox\@nameuse{@mpfootins#1}\vbox{%
8461             \unvbox\@nameuse{@mpfootins#1}
8462             \def\baselinestretch{\m@m@footnote@spacing}%
8463             \reset@font\@nameuse{foottextfont#1}%
8464             \hsize\columnwidth \@parboxrestore
8465             \protected@edef\@currentlabel{%
8466                 \csname p@mpfootnote#1\endcsname\@nameuse{@thefnmark#1}}%
8467             \color@begingroup
8468                 \@nameuse{@twocolfootfmt#1}{##1}%
8469             \color@endgroup}\m@m@mmf@prepare}}
8470 \bidi@ensure@newcommand{\m@make@twocolfootfmt}[1]{%
8471     \@namedef{@twocolfootfmt#1}##1{%
8472         \@preamtwofmt
8473         {\@nameuse{footfootmark#1}\strut
8474         {\@nameuse{foottextfont#1}##1}\strut\par}\allowbreak}}
8475 \bidi@ensure@newcommand{\m@make@twocol@footgroup}[1]{%
8476     \@namedef{@twocol@footgroup#1}{%
8477         \def\baselinestretch{\m@m@footnote@spacing}%
8478         \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
8479         \m@m@rigidbalance{\@nameuse{footins#1}}{\tw@}{\splittopskip}}}}
8480 \bidi@ensure@newcommand{\m@make@mptwocol@footgroup}[1]{%
8481     \@namedef{@mptwocol@footgroup#1}{%
8482         \def\baselinestretch{\m@m@footnote@spacing}%
8483         \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
8484         \m@m@rigidbalance{\@nameuse{@mpfootins#1}}{\tw@}{\splittopskip}}}}

```





```

8485 \bidi@ensure@newcommand{\threecolumnfootnotes}{%
8486   \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
8487   \let\@footnotetext\@threecolfootnotetext
8488   \let\@LTRfootnotetext\@threecolLTRfootnotetext
8489   \let\@RTLfootnotetext\@threecolRTLfootnotetext
8490   \dimen\footinsv@r=3\footinsdim
8491   \count\footinsv@r=333\relax
8492   \m@make@threecol@footgroup{v@r}%
8493   \let\@footgroupv@r\@threecol@footgroupv@r
8494   \let\@mpfootnotetext\@mpthreecolfootnotetext
8495   \let\@mpLTRfootnotetext\@mpthreecolLTRfootnotetext
8496   \let\@mpRTLfootnotetext\@mpthreecolRTLfootnotetext
8497   \m@make@mpthreecol@footgroup{v@r}%
8498   \let\mp@footgroupv@r\@mpthreecol@footgroupv@r}
8499 \bidi@ensure@newcommand{\@threecolfootnotetext}[1]{\insert\footinsv@r{\if@RTL@footnote\@RTLtr
8500   \def\baselinestretch{\m@m@footnote@spacing}%
8501   \reset@font\foottextfont
8502   \@preamfntext
8503   \protected@edef\@currentlabel{%
8504     \csname p@footnote\endcsname\@thefnmark}%
8505   \color@begingroup
8506     \@threecolfootfmt{#1}%
8507   \color@endgroup}\m@mmf@prepare}
8508 \bidi@ensure@newcommand{\@threecolLTRfootnotetext}[1]{\insert\footinsv@r{\if@RTLcolumnfootnot
8509   \def\baselinestretch{\m@m@footnote@spacing}%
8510   \reset@font\LTRfoottextfont
8511   \@preamfntext
8512   \protected@edef\@currentlabel{%
8513     \csname p@footnote\endcsname\@thefnmark}%
8514   \color@begingroup
8515     \@threecolLTRfootfmt{#1}%
8516   \color@endgroup}\m@mmf@prepare}
8517 \bidi@ensure@newcommand{\@threecolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
8518   \def\baselinestretch{\m@m@footnote@spacing}%
8519   \reset@font\RTLfoottextfont
8520   \@preamfntext
8521   \protected@edef\@currentlabel{%
8522     \csname p@footnote\endcsname\@thefnmark}%
8523   \color@begingroup
8524     \@threecolRTLfootfmt{#1}%
8525   \color@endgroup}\m@mmf@prepare}
8526 \bidi@ensure@newcommand{\@preamthreelfmt}{%
8527   \hsize .3\hsize
8528   \parindent=\z@
8529   \tolerance=5000\relax
8530   \leavevmode}
8531 \bidi@ensure@newcommand{\@threecolfootfmt}[1]{%
8532   \@preamthreelfmt
8533   {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
8534 \bidi@ensure@newcommand{\@threecolLTRfootfmt}[1]{%

```



```

8535 \@preamthreefmt
8536 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
8537 \bidi@ensure@newcommand{\@threecolRTLfootfmt}[1]{%
8538 \@preamthreefmt
8539 {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
8540 \bidi@ensure@newcommand{\@mpthreecolfootnotetext}[1]{%
8541 \global\setbox\@mpfootinsv\cr\vbox{\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
8542 \unvbox\@mpfootinsv\cr
8543 \def\baselinestretch{\m@mm@footnote@spacing}%
8544 \reset@font\foottextfont
8545 \hsize\columnwidth \@parboxrestore
8546 \protected@edef\@currentlabel{%
8547 \csname p@mpfootnote\endcsname\@thefnmark}%
8548 \color@begingroup
8549 \@threecolfootfmt{#1}%
8550 \color@endgroup}\m@mmf@prepare}
8551 \bidi@ensure@newcommand{\@mpthreecolLTRfootnotetext}[1]{%
8552 \global\setbox\@mpfootinsv\cr\vbox{\@RTLfalse%
8553 \unvbox\@mpfootinsv\cr
8554 \def\baselinestretch{\m@mm@footnote@spacing}%
8555 \reset@font\LTRfoottextfont
8556 \hsize\columnwidth \@parboxrestore
8557 \if@RTLcolumnfootnotes\beginL\fi
8558 \protected@edef\@currentlabel{%
8559 \csname p@mpfootnote\endcsname\@thefnmark}%
8560 \color@begingroup
8561 \@threecolLTRfootfmt{#1}%
8562 \color@endgroup}\m@mmf@prepare}
8563 \bidi@ensure@newcommand{\@mpthreecolRTLfootnotetext}[1]{%
8564 \global\setbox\@mpfootinsv\cr\vbox{\@RTLtrue%
8565 \unvbox\@mpfootinsv\cr
8566 \def\baselinestretch{\m@mm@footnote@spacing}%
8567 \reset@font\RTLfoottextfont
8568 \hsize\columnwidth \@parboxrestore
8569 \protected@edef\@currentlabel{%
8570 \csname p@mpfootnote\endcsname\@thefnmark}%
8571 \color@begingroup
8572 \@threecolRTLfootfmt{#1}%
8573 \color@endgroup}\m@mmf@prepare}
8574 \bidi@ensure@newcommand{\threecolumnfootstyle}[1]{%
8575 \m@make@threecolfootnotetext{#1}%
8576 \m@make@mpthreecolfootnotetext{#1}%
8577 \m@make@threecolfootfmt{#1}%
8578 \m@make@threecol@footgroup{#1}%
8579 \m@make@mpthreecol@footgroup{#1}%
8580 \m@make@footstart{#1}%
8581 \bidi@namelongdef{\footnotetext#1}##1{%
8582 \@nameuse{\threecolfootnotetext#1}{##1}}%
8583 \bidi@namelongdef{\mpfootnotetext#1}##1{%
8584 \@nameuse{\mpthreecolfootnotetext#1}{##1}}%

```



```

8585 \namedef{@footgroup#1}{\@nameuse{@threecol@footgroup#1}}%
8586 \namedef{mp@footgroup#1}{\@nameuse{@mpthreecol@footgroup#1}}%
8587 \expandafter\dimen\csname footins#1\endcsname=3\footinsdim
8588 \expandafter\count\csname footins#1\endcsname=333\relax}
8589 \bidi@ensure@newcommand{\m@make@threecolfootnotetext}[1]{%
8590 \bidi@namelongdef{@threecolfootnotetext#1}##1{%
8591 \insert\@nameuse{footins#1}{%
8592 \def\baselinestretch{\m@m@footnote@spacing}%
8593 \reset@font\@nameuse{foottextfont#1}%
8594 \@preamfntext
8595 \protected@edef\@currentlabel{%
8596 \csname p@footnote#1\endcsname \@nameuse{@thefnmark#1}}%
8597 \color@begingroup
8598 \@nameuse{@threecolfootfmt#1}{##1}%
8599 \color@endgroup}\m@mmf@prepare}}
8600 \bidi@ensure@newcommand{\m@make@mpthreecolfootnotetext}[1]{%
8601 \bidi@namelongdef{@mpthreecolfootnotetext#1}##1{%
8602 \global\setbox\@nameuse{@mpfootins#1}\vbox{%
8603 \unvbox\@nameuse{@mpfootins#1}
8604 \def\baselinestretch{\m@m@footnote@spacing}%
8605 \reset@font\@nameuse{foottextfont#1}%
8606 \hsize\columnwidth \@parboxrestore
8607 \protected@edef\@currentlabel{%
8608 \csname p@mpfootnote#1\endcsname\@nameuse{@thefnmark#1}}%
8609 \color@begingroup
8610 \@nameuse{@threecolfootfmt#1}{##1}%
8611 \color@endgroup}\m@mmf@prepare}}
8612 \bidi@ensure@newcommand{\m@make@threecolfootfmt}[1]{%
8613 \bidi@namelongdef{@threecolfootfmt#1}##1{%
8614 \@preamthreelfmt
8615 {\@nameuse{footfootmark#1}\strut
8616 {\@nameuse{foottextfont#1}##1}\strut\par}\allowbreak}}
8617 \bidi@ensure@newcommand{\m@make@threecol@footgroup}[1]{%
8618 \namedef{@threecol@footgroup#1}{%
8619 \def\baselinestretch{\m@m@footnote@spacing}%
8620 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
8621 \m@mrigidbalance{\@nameuse{footins#1}}{\thr@@}{\splittopskip}}}}
8622 \bidi@ensure@newcommand{\m@make@mpthreecol@footgroup}[1]{%
8623 \namedef{@mpthreecol@footgroup#1}{%
8624 \def\baselinestretch{\m@m@footnote@spacing}%
8625 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
8626 \m@mrigidbalance{\@nameuse{@mpfootins#1}}{\thr@@}{\splittopskip}}}}
8627 \bidi@ensure@newcommand{\fourcolumnfootnotes}{%
8628 \namedef{foottextfontv@r}{\foottextfont}% % [RS]
8629 \let\@footnotetext\@fourcolfootnotetext
8630 \let\@LTRfootnotetext\@fourcolLTRfootnotetext
8631 \let\@RTLfootnotetext\@fourcolRTLfootnotetext
8632 \dimen\footinsv@r=4\footinsdim
8633 \count\footinsv@r=250\relax
8634 \m@make@fourcol@footgroup{v@r}%

```



```

8635 \let\@footgroupv@r\@fourcol@footgroupv@r
8636 \let\@mpfootnotetext\@mpfourcolfootnotetext
8637 \let\@mpLTRfootnotetext\@mpfourcolLTRfootnotetext
8638 \let\@mpRTLfootnotetext\@mpfourcolRTLfootnotetext
8639 \m@make@mpfourcol@footgroup{v@r}%
8640 \let\mp@footgroupv@r\@mpfourcol@footgroupv@r}
8641 \bidi@ensure@newcommand{\@fourcolfootnotetext}[1]{\insert\footinsv@r{\if@RTL@footnote\@RTLtru
8642 \def\baselinestretch{\m@m@footnote@spacing}%
8643 \reset@font\foottextfont
8644 \@preamfntext
8645 \protected@edef\@currentlabel{%
8646 \csname p@footnote\endcsname\@thefnmark}%
8647 \color@begingroup
8648 \@fourcolfootfmt{#1}%
8649 \color@endgroup}%
8650 \m@mmf@prepare}
8651 \bidi@ensure@newcommand{\@fourcolLTRfootnotetext}[1]{\insert\footinsv@r{\if@RTLcolumnfootnote
8652 \def\baselinestretch{\m@m@footnote@spacing}%
8653 \reset@font\LTRfoottextfont
8654 \@preamfntext
8655 \protected@edef\@currentlabel{%
8656 \csname p@footnote\endcsname\@thefnmark}%
8657 \color@begingroup
8658 \@fourcolLTRfootfmt{#1}%
8659 \color@endgroup}%
8660 \m@mmf@prepare}
8661 \bidi@ensure@newcommand{\@fourcolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
8662 \def\baselinestretch{\m@m@footnote@spacing}%
8663 \reset@font\RTLfoottextfont
8664 \@preamfntext
8665 \protected@edef\@currentlabel{%
8666 \csname p@footnote\endcsname\@thefnmark}%
8667 \color@begingroup
8668 \@fourcolRTLfootfmt{#1}%
8669 \color@endgroup}%
8670 \m@mmf@prepare}
8671 \bidi@ensure@newcommand{\@preamfourfmt}{%
8672 \hspace{.25\hspace}
8673 \parindent=\z@
8674 \tolerance=5000\relax
8675 \leavevmode}
8676 \bidi@ensure@newcommand{\@fourcolfootfmt}[1]{%
8677 \@preamfourfmt
8678 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
8679 \bidi@ensure@newcommand{\@fourcolLTRfootfmt}[1]{%
8680 \@preamfourfmt
8681 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
8682 \bidi@ensure@newcommand{\@fourcolRTLfootfmt}[1]{%
8683 \@preamfourfmt
8684 {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}

```



```

8685 \bidi@ensure@newcommand{\@mpfourcolfootnotetext}[1]{%
8686   \global\setbox\@mpfootinsv@r\vbox{\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
8687     \unvbox\@mpfootinsv@r
8688     \def\baselinestretch{\m@m@footnote@spacing}%
8689     \reset@font\foottextfont
8690     \hsize\columnwidth \@parboxrestore
8691     \protected@edef\@currentlabel{%
8692       \csname p@mpfootnote\endcsname\@thefnmark}%
8693   \color@begingroup
8694     \@fourcolfootfmt{#1}%
8695   \color@endgroup}%
8696   \m@mmf@prepare}
8697 \bidi@ensure@newcommand{\@mpfourcolLTRfootnotetext}[1]{%
8698   \global\setbox\@mpfootinsv@r\vbox{\@RTLfalse%
8699     \unvbox\@mpfootinsv@r
8700     \def\baselinestretch{\m@m@footnote@spacing}%
8701     \reset@font\LTRfoottextfont
8702     \hsize\columnwidth \@parboxrestore
8703     \if@RTLcolumnfootnotes\beginL\fi
8704     \protected@edef\@currentlabel{%
8705       \csname p@mpfootnote\endcsname\@thefnmark}%
8706   \color@begingroup
8707     \@fourcolLTRfootfmt{#1}%
8708   \color@endgroup}%
8709   \m@mmf@prepare}
8710 \bidi@ensure@newcommand{\@mpfourcolRTLfootnotetext}[1]{%
8711   \global\setbox\@mpfootinsv@r\vbox{\@RTLtrue%
8712     \unvbox\@mpfootinsv@r
8713     \def\baselinestretch{\m@m@footnote@spacing}%
8714     \reset@font\RTLfoottextfont
8715     \hsize\columnwidth \@parboxrestore
8716     \protected@edef\@currentlabel{%
8717       \csname p@mpfootnote\endcsname\@thefnmark}%
8718   \color@begingroup
8719     \@fourcolRTLfootfmt{#1}%
8720   \color@endgroup}%
8721   \m@mmf@prepare}
8722 \bidi@ensure@newcommand{\fourcolumnfootstyle}[1]{-%
8723   \m@make@fourcolfootnotetext{#1}%
8724   \m@make@mpfourcolfootnotetext{#1}%
8725   \m@make@fourcolfootfmt{#1}%
8726   \m@make@fourcol@footgroup{#1}%
8727   \m@make@mpfourcol@footgroup{#1}%
8728   \m@make@footstart{#1}%
8729   \bidi@namelongdef{\footnotetext#1}##1{%
8730     \@nameuse{\fourcolfootnotetext#1}{##1}}%
8731   \bidi@namelongdef{\mpfootnotetext#1}##1{%
8732     \@nameuse{\mpfourcolfootnotetext#1}{##1}}%
8733   \@namedef{\footgroup#1}{\@nameuse{\fourcol@footgroup#1}}%
8734   \@namedef{\mp@footgroup#1}{\@nameuse{\mpfourcol@footgroup#1}}%

```



```

8735 \expandafter\dimen\csname footins#1\endcsname=2\footinsdim
8736 \expandafter\count\csname footins#1\endcsname=500\relax}
8737 \bidi@ensure@newcommand{\m@make@fourcolfootnotetext}[1]{%
8738 \bidi@namelongdef{\fourcolfootnotetext#1}##1{%
8739 \insert\@nameuse{footins#1}{%
8740 \def\baselinestretch{\m@m@footnote@spacing}%
8741 \reset@font\@nameuse{foottextfont#1}%
8742 \@preamfntext
8743 \protected@edef\@currentlabel{%
8744 \csname p@footnote#1\endcsname \@nameuse{@thefnmark#1}}%
8745 \color@begingroup
8746 \@nameuse{@fourcolfootfmt#1}{##1}%
8747 \color@endgroup}%
8748 \m@mmf@prepare}}
8749 \bidi@ensure@newcommand{\m@make@mpfourcolfootnotetext}[1]{%
8750 \bidi@namelongdef{\mpfourcolfootnotetext#1}##1{%
8751 \global\setbox\@nameuse{@mpfootins#1}\vbox{%
8752 \unvbox\@nameuse{@mpfootins#1}
8753 \def\baselinestretch{\m@m@footnote@spacing}%
8754 \reset@font\@nameuse{foottextfont#1}%
8755 \hsize\columnwidth \@parboxrestore
8756 \protected@edef\@currentlabel{%
8757 \csname p@mpfootnote#1\endcsname\@nameuse{@thefnmark#1}}%
8758 \color@begingroup
8759 \@nameuse{@fourcolfootfmt#1}{##1}%
8760 \color@endgroup}\m@mmf@prepare}}
8761 \bidi@ensure@newcommand{\m@make@fourcolfootfmt}[1]{%
8762 \@namedef{@fourcolfootfmt#1}##1{%
8763 \@preamfourfmt
8764 {\@nameuse{footfootmark#1}\strut
8765 {\@nameuse{foottextfont#1}##1}\strut\par}\allowbreak}}
8766 \bidi@ensure@newcommand{\m@make@fourcol@footgroup}[1]{%
8767 \@namedef{@fourcol@footgroup#1}{%
8768 \def\baselinestretch{\m@m@footnote@spacing}%
8769 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
8770 \m@mrigidbalance{\@nameuse{footins#1}}{4}{\splittopskip}}}}
8771 \bidi@ensure@newcommand{\m@make@mpfourcol@footgroup}[1]{%
8772 \@namedef{@mpfourcol@footgroup#1}{%
8773 \def\baselinestretch{\m@m@footnote@spacing}%
8774 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
8775 \m@mrigidbalance{\@nameuse{@mpfootins#1}}{4}{\splittopskip}}}}
8776 \bidi@ensure@newcommand{\fivecolumnfootnotes}{%
8777 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
8778 \let\@footnotetext\@fivecolfootnotetext
8779 \let\@LTRfootnotetext\@fivecolLTRfootnotetext
8780 \let\@RTLfootnotetext\@fivecolRTLfootnotetext
8781 \dimen\footinsv@r=5\footinsdim
8782 \count\footinsv@r=200\relax
8783 \m@make@fivecol@footgroup{v@r}%
8784 \let\@footgroupv@r\@fivecol@footgroupv@r

```



```

8785 \let\@mpfootnotetext\@mpfivecolfootnotetext
8786 \let\@mpLTRfootnotetext\@mpfivecolLTRfootnotetext
8787 \let\@mpRTLfootnotetext\@mpfivecolRTLfootnotetext
8788 \m@make@mpfivecol@footgroup{v@r}%
8789 \let\mp@footgroupv@r\@mpfivecol@footgroupv@r}
8790 \bidi@ensure@newcommand{\@fivecolfootnotetext}[1]{\insert\footinsv@r{\if@RTL@footnote\@RTLtru
8791 \def\baselinestretch{\m@m@footnote@spacing}%
8792 \reset@font\foottextfont
8793 \@preamfntext
8794 \protected@edef\@currentlabel{%
8795 \csname p@footnote\endcsname\@thefnmark}%
8796 \color@begingroup
8797 \@fivecolfootfmt{#1}%
8798 \color@endgroup}%
8799 \m@mmf@prepare}
8800 \bidi@ensure@newcommand{\@fivecolLTRfootnotetext}[1]{\insert\footinsv@r{\if@RTLcolumnfootnote
8801 \def\baselinestretch{\m@m@footnote@spacing}%
8802 \reset@font\LTRfoottextfont
8803 \@preamfntext
8804 \protected@edef\@currentlabel{%
8805 \csname p@footnote\endcsname\@thefnmark}%
8806 \color@begingroup
8807 \@fivecolLTRfootfmt{#1}%
8808 \color@endgroup}%
8809 \m@mmf@prepare}
8810 \bidi@ensure@newcommand{\@fivecolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
8811 \def\baselinestretch{\m@m@footnote@spacing}%
8812 \reset@font\RTLfoottextfont
8813 \@preamfntext
8814 \protected@edef\@currentlabel{%
8815 \csname p@footnote\endcsname\@thefnmark}%
8816 \color@begingroup
8817 \@fivecolRTLfootfmt{#1}%
8818 \color@endgroup}%
8819 \m@mmf@prepare}
8820 \bidi@ensure@newcommand{\@preamfivefmt}{%
8821 \hsize .2\hsize
8822 \parindent=\z@
8823 \tolerance=5000\relax
8824 \leavevmode}
8825 \bidi@ensure@newcommand{\@fivecolfootfmt}[1]{%
8826 \@preamfivefmt
8827 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
8828 \bidi@ensure@newcommand{\@fivecolLTRfootfmt}[1]{%
8829 \@preamfivefmt
8830 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
8831 \bidi@ensure@newcommand{\@fivecolRTLfootfmt}[1]{%
8832 \@preamfivefmt
8833 {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
8834 \bidi@ensure@newcommand{\@mpfivecolfootnotetext}[1]{%

```



```

8835 \global\setbox\@mpfootinsv\@vbox{\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
8836 \unvbox\@mpfootinsv@
8837 \def\baselinestretch{\m@{footnote@spacing}}%
8838 \reset@font\foottextfont
8839 \hsize\columnwidth \@parboxrestore
8840 \protected@edef\@currentlabel{%
8841 \csname p@mpfootnote\endcsname\@thefnmark}%
8842 \color@begingroup
8843 \@fivecolfootfmt{#1}%
8844 \color@endgroup}%
8845 \m@mmf@prepare}
8846 \bidi@ensure@newcommand{\@mpfivecolLTRfootnotetext}[1]{%
8847 \global\setbox\@mpfootinsv\@vbox{\@RTLfalse%
8848 \unvbox\@mpfootinsv@
8849 \def\baselinestretch{\m@{footnote@spacing}}%
8850 \reset@font\LTRfoottextfont
8851 \hsize\columnwidth \@parboxrestore
8852 \if@RTLcolumnfootnotes\beginL\fi
8853 \protected@edef\@currentlabel{%
8854 \csname p@mpfootnote\endcsname\@thefnmark}%
8855 \color@begingroup
8856 \@fivecolLTRfootfmt{#1}%
8857 \color@endgroup}%
8858 \m@mmf@prepare}
8859 \bidi@ensure@newcommand{\@mpfivecolRTLfootnotetext}[1]{%
8860 \global\setbox\@mpfootinsv\@vbox{\@RTLtrue%
8861 \unvbox\@mpfootinsv@
8862 \def\baselinestretch{\m@{footnote@spacing}}%
8863 \reset@font\RTLfoottextfont
8864 \hsize\columnwidth \@parboxrestore
8865 \protected@edef\@currentlabel{%
8866 \csname p@mpfootnote\endcsname\@thefnmark}%
8867 \color@begingroup
8868 \@fivecolRTLfootfmt{#1}%
8869 \color@endgroup}%
8870 \m@mmf@prepare}
8871 \bidi@ensure@newcommand{\fivecolumnfootstyle}[1]{%
8872 \m@make@fivecolfootnotetext{#1}%
8873 \m@make@mpfivecolfootnotetext{#1}%
8874 \m@make@fivecolfootfmt{#1}%
8875 \m@make@fivecol@footgroup{#1}%
8876 \m@make@mpfivecol@footgroup{#1}%
8877 \m@make@footstart{#1}%
8878 \bidi@namelongdef{\footnotetext#1}##1{%
8879 \@nameuse{\@fivecolfootnotetext#1}{##1}}%
8880 \bidi@namelongdef{\mpfootnotetext#1}##1{%
8881 \@nameuse{\@mpfivecolfootnotetext#1}{##1}}%
8882 \@namedef{\@footgroup#1}{\@nameuse{\@fivecol@footgroup#1}}%
8883 \@namedef{\mp@footgroup#1}{\@nameuse{\@mpfivecol@footgroup#1}}%
8884 \expandafter\dimen\csname footins#1\endcsname=2\footinsdim

```





```

8885 \expandafter\count\csname footins#1\endcsname=500\relax}
8886 \bidi@ensure@newcommand{\m@make@fivecolfootnotetext}[1]{%
8887 \bidi@namelongdef{@fivecolfootnotetext#1}##1{%
8888 \insert\@nameuse{footins#1}{%
8889 \def\baselinestretch{\m@m@footnote@spacing}%
8890 \reset@font\@nameuse{foottextfont#1}%
8891 \@preamfntext
8892 \protected@edef\@currentlabel{%
8893 \csname p@footnote#1\endcsname \@nameuse{@thefnmark#1}}%
8894 \color@begingroup
8895 \@nameuse{@fivecolfootfmt#1}##1}%
8896 \color@endgroup}%
8897 \m@mmf@prepare}}
8898 \bidi@ensure@newcommand{\m@make@mpfivecolfootnotetext}[1]{%
8899 \bidi@namelongdef{@mpfivecolfootnotetext#1}##1{%
8900 \global\setbox\@nameuse{@mpfootins#1}\vbox{%
8901 \unvbox\@nameuse{@mpfootins#1}
8902 \def\baselinestretch{\m@m@footnote@spacing}%
8903 \reset@font\@nameuse{foottextfont#1}%
8904 \hsize\columnwidth \@parboxrestore
8905 \protected@edef\@currentlabel{%
8906 \csname p@mpfootnote#1\endcsname \@nameuse{@thefnmark#1}}%
8907 \color@begingroup
8908 \@nameuse{@fivecolfootfmt#1}##1}%
8909 \color@endgroup}\m@mmf@prepare}}
8910 \bidi@ensure@newcommand{\m@make@fivecolfootfmt}[1]{%
8911 \@namedef{@fivecolfootfmt#1}##1{%
8912 \@preamfivefmt
8913 {\@nameuse{footfootmark#1}\strut
8914 {\@nameuse{foottextfont#1}##1}\strut\par}\allowbreak}}
8915 \bidi@ensure@newcommand{\m@make@fivecol@footgroup}[1]{%
8916 \@namedef{@fivecol@footgroup#1}{%
8917 \def\baselinestretch{\m@m@footnote@spacing}%
8918 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
8919 \m@mrigidbalance{\@nameuse{footins#1}}{5}{\splittopskip}}}}
8920 \bidi@ensure@newcommand{\m@make@mpfivecol@footgroup}[1]{%
8921 \@namedef{@mpfivecol@footgroup#1}{%
8922 \def\baselinestretch{\m@m@footnote@spacing}%
8923 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
8924 \m@mrigidbalance{\@nameuse{@mpfootins#1}}{5}{\splittopskip}}}}
8925 \bidi@ensure@newcommand{\sixcolumnfootnotes}{%
8926 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
8927 \let\@footnotetext\@sixcolfootnotetext
8928 \let\@LTRfootnotetext\@sixcolLTRfootnotetext
8929 \let\@RTLfootnotetext\@sixcolRTLfootnotetext
8930 \dimen\footinsv@r=6\footinsdim
8931 \count\footinsv@r=166\relax
8932 \m@make@sixcol@footgroup{v@r}%
8933 \let\@footgroupv@r\@sixcol@footgroupv@r
8934 \let\@mpfootnotetext\@mpsixcolfootnotetext

```



```

8935 \let\@mpLTRfootnotetext\@mpsixcolLTRfootnotetext
8936 \let\@mpRTLfootnotetext\@mpsixcolRTLfootnotetext
8937 \make@mpsixcol@footgroup{v@r}%
8938 \let\mp@footgroupv@r\@mpsixcol@footgroupv@r}
8939 \bidi@ensure@newcommand{\@sixcolfootnotetext}[1]{\insert\footinsv@r{\if@RTL@footnote\@RTLtrue%
8940 \def\baselinestretch{\m@m@footnote@spacing}%
8941 \reset@font\foottextfont
8942 \@preamfntext
8943 \protected@edef\@currentlabel{%
8944 \csname p@footnote\endcsname\@thefnmark}%
8945 \color@begingroup
8946 \@sixcolfootfmt{#1}%
8947 \color@endgroup}%
8948 \m@mmf@prepare}
8949 \bidi@ensure@newcommand{\@sixcolLTRfootnotetext}[1]{\insert\footinsv@r{\if@RTLcolumnfootnotes%
8950 \def\baselinestretch{\m@m@footnote@spacing}%
8951 \reset@font\LTRfoottextfont
8952 \@preamfntext
8953 \protected@edef\@currentlabel{%
8954 \csname p@footnote\endcsname\@thefnmark}%
8955 \color@begingroup
8956 \@sixcolLTRfootfmt{#1}%
8957 \color@endgroup}%
8958 \m@mmf@prepare}
8959 \bidi@ensure@newcommand{\@sixcolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
8960 \def\baselinestretch{\m@m@footnote@spacing}%
8961 \reset@font\RTLfoottextfont
8962 \@preamfntext
8963 \protected@edef\@currentlabel{%
8964 \csname p@footnote\endcsname\@thefnmark}%
8965 \color@begingroup
8966 \@sixcolRTLfootfmt{#1}%
8967 \color@endgroup}%
8968 \m@mmf@prepare}
8969 \bidi@ensure@newcommand{\@preamsixfmt}{%
8970 \hsize .16\hsize
8971 \parindent=\z@
8972 \tolerance=5000\relax
8973 \leavevmode}
8974 \bidi@ensure@newcommand{\@sixcolfootfmt}[1]{%
8975 \@preamsixfmt
8976 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
8977 \bidi@ensure@newcommand{\@sixcolLTRfootfmt}[1]{%
8978 \@preamsixfmt
8979 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
8980 \bidi@ensure@newcommand{\@sixcolRTLfootfmt}[1]{%
8981 \@preamsixfmt
8982 {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
8983 \bidi@ensure@newcommand{\@mpsixcolfootnotetext}[1]{\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi}
8984 \global\setbox\@mpfootinsv@r\vbox{%

```



```

8985 \unvbox\@mpfootinsv@r
8986 \def\baselinestretch{\m@m@footnote@spacing}%
8987 \reset@font\foottextfont
8988 \hsize\columnwidth \@parboxrestore
8989 \protected@edef\@currentlabel{%
8990 \csname p@mpfootnote\endcsname\@thefnmark}%
8991 \color@begingroup
8992 \@sixcolfootfmt{#1}%
8993 \color@endgroup}%
8994 \m@mmf@prepare}
8995 \bidi@ensure@newcommand{\@mpsixcolLTRfootnotetext}[1]{\@RTLfalse%
8996 \global\setbox\@mpfootinsv@r\vbox{%
8997 \unvbox\@mpfootinsv@r
8998 \def\baselinestretch{\m@m@footnote@spacing}%
8999 \reset@font\LTRfoottextfont
9000 \hsize\columnwidth \@parboxrestore
9001 \if@RTLcolumnfootnotes\beginL\fi
9002 \protected@edef\@currentlabel{%
9003 \csname p@mpfootnote\endcsname\@thefnmark}%
9004 \color@begingroup
9005 \@sixcolLTRfootfmt{#1}%
9006 \color@endgroup}%
9007 \m@mmf@prepare}
9008 \bidi@ensure@newcommand{\@mpsixcolRTLfootnotetext}[1]{\@RTLtrue%
9009 \global\setbox\@mpfootinsv@r\vbox{%
9010 \unvbox\@mpfootinsv@r
9011 \def\baselinestretch{\m@m@footnote@spacing}%
9012 \reset@font\RTLfoottextfont
9013 \hsize\columnwidth \@parboxrestore
9014 \protected@edef\@currentlabel{%
9015 \csname p@mpfootnote\endcsname\@thefnmark}%
9016 \color@begingroup
9017 \@sixcolRTLfootfmt{#1}%
9018 \color@endgroup}%
9019 \m@mmf@prepare}
9020 \bidi@ensure@newcommand{\sixcolumnfootstyle}[1]{%
9021 \m@make@sixcolfootnotetext{#1}%
9022 \m@make@mpsixcolfootnotetext{#1}%
9023 \m@make@sixcolfootfmt{#1}%
9024 \m@make@sixcol@footgroup{#1}%
9025 \m@make@mpsixcol@footgroup{#1}%
9026 \m@make@footstart{#1}%
9027 \bidi@namelongdef{\@footnotetext#1}##1{%
9028 \@nameuse{\@sixcolfootnotetext#1}{##1}}%
9029 \bidi@namelongdef{\@mpfootnotetext#1}##1{%
9030 \@nameuse{\@mpsixcolfootnotetext#1}{##1}}%
9031 \@namedef{\@footgroup#1}{\@nameuse{\@sixcol@footgroup#1}}%
9032 \@namedef{\mp@footgroup#1}{\@nameuse{\@mpsixcol@footgroup#1}}%
9033 \expandafter\dimen\csname footins#1\endcsname=2\footinsdim
9034 \expandafter\count\csname footins#1\endcsname=500\relax}

```



```

9035 \bidi@ensure@newcommand{\m@make@sixcolfootnotetext}[1]{%
9036   \bidi@namelongdef{\s@sixcolfootnotetext#1}##1{%
9037     \insert\@nameuse{footins#1}{%
9038       \def\baselinestretch{\m@m@footnote@spacing}%
9039       \reset@font\@nameuse{foottextfont#1}%
9040       \@preamfntext
9041       \protected@edef\@currentlabel{%
9042         \csname p@footnote#1\endcsname \@nameuse{@thefnmark#1}}%
9043       \color@begingroup
9044         \@nameuse{@s@sixcolfootfmt#1}{##1}%
9045       \color@endgroup}%
9046     \m@m@mmf@prepare}}
9047 \bidi@ensure@newcommand{\m@make@mpsixcolfootnotetext}[1]{%
9048   \bidi@namelongdef{\m@mpsixcolfootnotetext#1}##1{%
9049     \global\setbox\@nameuse{@mpfootins#1}\vbox{%
9050       \unvbox\@nameuse{@mpfootins#1}
9051       \def\baselinestretch{\m@m@footnote@spacing}%
9052       \reset@font\@nameuse{foottextfont#1}%
9053       \hsize\columnwidth \@parboxrestore
9054       \protected@edef\@currentlabel{%
9055         \csname p@mpfootnote#1\endcsname\@nameuse{@thefnmark#1}}%
9056       \color@begingroup
9057         \@nameuse{@s@sixcolfootfmt#1}{##1}%
9058       \color@endgroup}\m@m@mmf@prepare}}
9059 \bidi@ensure@newcommand{\m@make@sixcolfootfmt}[1]{%
9060   \@namedef{\s@sixcolfootfmt#1}##1{%
9061     \@preamsixfmt
9062     {\@nameuse{footfootmark#1}\strut
9063      {\@nameuse{foottextfont#1}##1}\strut\par}\allowbreak}}
9064 \bidi@ensure@newcommand{\m@make@sixcol@footgroup}[1]{%
9065   \@namedef{\s@sixcol@footgroup#1}{%
9066     \def\baselinestretch{\m@m@footnote@spacing}%
9067     \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
9068     \m@m@rigidbalance{\@nameuse{footins#1}}{6}{\splittopskip}}}}
9069 \bidi@ensure@newcommand{\m@make@mpsixcol@footgroup}[1]{%
9070   \@namedef{\m@mpsixcol@footgroup#1}{%
9071     \def\baselinestretch{\m@m@footnote@spacing}%
9072     \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
9073     \m@m@rigidbalance{\@nameuse{@mpfootins#1}}{6}{\splittopskip}}}}
9074 \bidi@ensure@newcommand{\sevendcolumnfootnotes}{%
9075   \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
9076   \let\@footnotetext\@sevendcolfootnotetext
9077   \let\@LTRfootnotetext\@sevendcolLTRfootnotetext
9078   \let\@RTLfootnotetext\@sevendcolRTLfootnotetext
9079   \dimen\footinsv@r=7\footinsdim
9080   \count\footinsv@r=142\relax
9081   \m@make@sevendcol@footgroup{v@r}%
9082   \let\@footgroupv@r\@sevendcol@footgroupv@r
9083   \let\@mpfootnotetext\@mpsevendcolfootnotetext
9084   \let\@mpLTRfootnotetext\@mpsevendcolLTRfootnotetext

```



```

g085 \let\mpRTLfootnotetext\mpsevencolRTLfootnotetext
g086 \make@mpsevencol@footgroup{v@r}%
g087 \let\mp@footgroupv@r\@mpsevencol@footgroupv@r}
g088 \bidi@ensure@newcommand{\@sevencolfootnotetext}[1]{\insert\footinsv@r{\if@RTL@footnote\@RTLtr
g089 \def\baselinestretch{\m@m@footnote@spacing}%
g090 \reset@font\foottextfont
g091 \@preamfntext
g092 \protected@edef\@currentlabel{%
g093 \csname p@footnote\endcsname\@thefnmark}%
g094 \color@begingroup
g095 \@sevencolfootfmt{#1}%
g096 \color@endgroup}%
g097 \m@mmf@prepare}
g098 \bidi@ensure@newcommand{\@sevencolLTRfootnotetext}[1]{\insert\footinsv@r{\if@RTLcolumnfootnot
g099 \def\baselinestretch{\m@m@footnote@spacing}%
g100 \reset@font\LTRfoottextfont
g101 \@preamfntext
g102 \protected@edef\@currentlabel{%
g103 \csname p@footnote\endcsname\@thefnmark}%
g104 \color@begingroup
g105 \@sevencolLTRfootfmt{#1}%
g106 \color@endgroup}%
g107 \m@mmf@prepare}
g108 \bidi@ensure@newcommand{\@sevencolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
g109 \def\baselinestretch{\m@m@footnote@spacing}%
g110 \reset@font\RTLfoottextfont
g111 \@preamfntext
g112 \protected@edef\@currentlabel{%
g113 \csname p@footnote\endcsname\@thefnmark}%
g114 \color@begingroup
g115 \@sevencolRTLfootfmt{#1}%
g116 \color@endgroup}%
g117 \m@mmf@prepare}
g118 \bidi@ensure@newcommand{\@preamsevenfmt}{%
g119 \hsize .142\hsize
g120 \parindent=\z@
g121 \tolerance=5000\relax
g122 \leavevmode}
g123 \bidi@ensure@newcommand{\@sevencolfootfmt}[1]{%
g124 \@preamsevenfmt
g125 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
g126 \bidi@ensure@newcommand{\@sevencolLTRfootfmt}[1]{%
g127 \@preamsevenfmt
g128 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
g129 \bidi@ensure@newcommand{\@sevencolRTLfootfmt}[1]{%
g130 \@preamsevenfmt
g131 {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
g132 \bidi@ensure@newcommand{\@mpsevencolfootnotetext}[1]{\if@RTL@footnote\@RTLtrue\else\@RTLfalse
g133 \global\setbox\@mpfootinsv@r\vbox{%
g134 \unvbox\@mpfootinsv@r

```



```

9135 \def\baselinestretch{\m@m@footnote@spacing}%
9136 \reset@font\foottextfont
9137 \hsize\columnwidth \@parboxrestore
9138 \protected@edef\@currentlabel{%
9139 \csname p@mpfootnote\endcsname\@thefnmark}%
9140 \color@begingroup
9141 \@sevenscolfootfmt{#1}%
9142 \color@endgroup}%
9143 \m@mmf@prepare}
9144 \bidi@ensure@newcommand{\@mpsevencolLTRfootnotetext}[1]{\@RTLfalse%
9145 \global\setbox\@mpfootinsv@r\vbox{%
9146 \unvbox\@mpfootinsv@r
9147 \def\baselinestretch{\m@m@footnote@spacing}%
9148 \reset@font\LTRfoottextfont
9149 \hsize\columnwidth \@parboxrestore
9150 \if@RTLcolumnfootnotes\beginL\fi
9151 \protected@edef\@currentlabel{%
9152 \csname p@mpfootnote\endcsname\@thefnmark}%
9153 \color@begingroup
9154 \@sevenscolLTRfootfmt{#1}%
9155 \color@endgroup}%
9156 \m@mmf@prepare}
9157 \bidi@ensure@newcommand{\@mpsevencolRTLfootnotetext}[1]{\@RTLtrue%
9158 \global\setbox\@mpfootinsv@r\vbox{%
9159 \unvbox\@mpfootinsv@r
9160 \def\baselinestretch{\m@m@footnote@spacing}%
9161 \reset@font\RTLfoottextfont
9162 \hsize\columnwidth \@parboxrestore
9163 \protected@edef\@currentlabel{%
9164 \csname p@mpfootnote\endcsname\@thefnmark}%
9165 \color@begingroup
9166 \@sevenscolRTLfootfmt{#1}%
9167 \color@endgroup}%
9168 \m@mmf@prepare}
9169 \bidi@ensure@newcommand{\sevenscolumnfootstyle}[1]{%
9170 \m@make@sevenscolfootnotetext{#1}%
9171 \m@make@mpsevencolfootnotetext{#1}%
9172 \m@make@sevenscolfootfmt{#1}%
9173 \m@make@sevenscol@footgroup{#1}%
9174 \m@make@mpsevencol@footgroup{#1}%
9175 \m@make@footstart{#1}%
9176 \bidi@namelongdef{\@footnotetext#1}##1{%
9177 \@nameuse{\@sevenscolfootnotetext#1}{##1}}%
9178 \bidi@namelongdef{\@mpfootnotetext#1}##1{%
9179 \@nameuse{\@mpsevencolfootnotetext#1}{##1}}%
9180 \@namedef{\@footgroup#1}{\@nameuse{\@sevenscol@footgroup#1}}%
9181 \@namedef{\mp@footgroup#1}{\@nameuse{\@mpsevencol@footgroup#1}}%
9182 \expandafter\dimen\csname footins#1\endcsname=2\footinsdim
9183 \expandafter\count\csname footins#1\endcsname=500\relax}
9184 \bidi@ensure@newcommand{\m@make@sevenscolfootnotetext}[1]{%

```



```

g185 \bidi@namelongdef{@sevendcolfootnotetext#1}##1{%
g186 \insert@nameuse{footins#1}{%
g187 \def\baselinestretch{\m@m@footnote@spacing}%
g188 \reset@font\@nameuse{foottextfont#1}%
g189 \@preamfntext
g190 \protected@edef\@currentlabel{%
g191 \csname p@footnote#1\endcsname \@nameuse{@thefnmark#1}}%
g192 \color@begingroup
g193 \@nameuse{@sevendcolfootfmt#1}{##1}%
g194 \color@endgroup}%
g195 \m@mmf@prepare}}
g196 \bidi@ensure@newcommand{\m@make@mpsevendcolfootnotetext}[1]{%
g197 \bidi@namelongdef{@mpsevendcolfootnotetext#1}##1{%
g198 \global\setbox\@nameuse{@mpfootins#1}\vbox{%
g199 \unvbox\@nameuse{@mpfootins#1}
g200 \def\baselinestretch{\m@m@footnote@spacing}%
g201 \reset@font\@nameuse{foottextfont#1}%
g202 \hsize\columnwidth \@parboxrestore
g203 \protected@edef\@currentlabel{%
g204 \csname p@mpfootnote#1\endcsname\@nameuse{@thefnmark#1}}%
g205 \color@begingroup
g206 \@nameuse{@sevendcolfootfmt#1}{##1}%
g207 \color@endgroup}\m@mmf@prepare}}
g208 \bidi@ensure@newcommand{\m@make@sevendcolfootfmt}[1]{%
g209 \@namedef{@sevendcolfootfmt#1}##1{%
g210 \@preamsevenfmt
g211 {\@nameuse{footfootmark#1}\strut
g212 {\@nameuse{foottextfont#1}##1}\strut\par}\allowbreak}}
g213 \bidi@ensure@newcommand{\m@make@sevendcol@footgroup}[1]{%
g214 \@namedef{@sevendcol@footgroup#1}{%
g215 \def\baselinestretch{\m@m@footnote@spacing}%
g216 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
g217 \m@mrigidbodybalance{\@nameuse{footins#1}}{7}{\splittopskip}}}%
g218 \bidi@ensure@newcommand{\m@make@mpsevendcol@footgroup}[1]{%
g219 \@namedef{@mpsevendcol@footgroup#1}{%
g220 \def\baselinestretch{\m@m@footnote@spacing}%
g221 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
g222 \m@mrigidbodybalance{\@nameuse{@mpfootins#1}}{7}{\splittopskip}}}%
g223 \bidi@ensure@newcommand{\eightcolumnfootnotes}{%
g224 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
g225 \let\@footnotetext\@eightcolfootnotetext
g226 \let\@LTRfootnotetext\@eightcolLTRfootnotetext
g227 \let\@RTLfootnotetext\@eightcolRTLfootnotetext
g228 \dimen\footinsv@r=8\footinsdim
g229 \count\footinsv@r=125\relax
g230 \m@make@eightcol@footgroup{v@r}%
g231 \let\@footgroupv@r\@eightcol@footgroupv@r
g232 \let\@mpfootnotetext\@mpeightcolfootnotetext
g233 \let\@mpLTRfootnotetext\@mpeightcolLTRfootnotetext
g234 \let\@mpRTLfootnotetext\@mpeightcolRTLfootnotetext

```



```

9235 \m@make@mpeightcol@footgroup{v@r}%
9236 \let\mp@footgroupv@r\@mpeightcol@footgroupv@r}
9237 \bidi@ensure@newcommand{\@eightcolfootnotetext}[1]{\insert\footinsv@r{\if@RTL@footnote\@RTLtr
9238 \def\baselinestretch{\m@m@footnote@spacing}%
9239 \reset@font\foottextfont
9240 \@preamfntext
9241 \protected@edef\@currentlabel{%
9242 \csname p@footnote\endcsname\@thefnmark}%
9243 \color@begingroup
9244 \@eightcolfootfmt{#1}%
9245 \color@endgroup}%
9246 \m@mmf@prepare}
9247 \bidi@ensure@newcommand{\@eightcolLTRfootnotetext}[1]{\insert\footinsv@r{\if@RTLcolumnfootnot
9248 \def\baselinestretch{\m@m@footnote@spacing}%
9249 \reset@font\LTRfoottextfont
9250 \@preamfntext
9251 \protected@edef\@currentlabel{%
9252 \csname p@footnote\endcsname\@thefnmark}%
9253 \color@begingroup
9254 \@eightcolLTRfootfmt{#1}%
9255 \color@endgroup}%
9256 \m@mmf@prepare}
9257 \bidi@ensure@newcommand{\@eightcolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
9258 \def\baselinestretch{\m@m@footnote@spacing}%
9259 \reset@font\RTLfoottextfont
9260 \@preamfntext
9261 \protected@edef\@currentlabel{%
9262 \csname p@footnote\endcsname\@thefnmark}%
9263 \color@begingroup
9264 \@eightcolRTLfootfmt{#1}%
9265 \color@endgroup}%
9266 \m@mmf@prepare}
9267 \bidi@ensure@newcommand{\@preameightfmt}{%
9268 \hspace{.125\hspace}
9269 \parindent=\z@
9270 \tolerance=5000\relax
9271 \leavevmode}
9272 \bidi@ensure@newcommand{\@eightcolfootfmt}[1]{%
9273 \@preameightfmt
9274 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
9275 \bidi@ensure@newcommand{\@eightcolLTRfootfmt}[1]{%
9276 \@preameightfmt
9277 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
9278 \bidi@ensure@newcommand{\@eightcolRTLfootfmt}[1]{%
9279 \@preameightfmt
9280 {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
9281 \bidi@ensure@newcommand{\@mpeightcolfootnotetext}[1]{%
9282 \global\setbox\@mpfootinsv@r\vbox{\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
9283 \unvbox\@mpfootinsv@r
9284 \def\baselinestretch{\m@m@footnote@spacing}%

```





```

9285 \reset@font\foottextfont
9286 \hsize\columnwidth \@parboxrestore
9287 \protected@edef\@currentlabel{%
9288 \csname p@mpfootnote\endcsname\@thefnmark}%
9289 \color@begingroup
9290 \@eightcolfootfmt{#1}%
9291 \color@endgroup}%
9292 \m@mmf@prepare}
9293 \bidi@ensure@newcommand{\@mpeightcolLTRfootnotetext}[1]{%
9294 \global\setbox\@mpfootinsv@r\vbox{\@RTLfalse%
9295 \unvbox\@mpfootinsv@r
9296 \def\baselinestretch{\m@m@footnote@spacing}%
9297 \reset@font\LTRfoottextfont
9298 \hsize\columnwidth \@parboxrestore
9299 \if@RTLcolumnfootnotes\beginL\fi
9300 \protected@edef\@currentlabel{%
9301 \csname p@mpfootnote\endcsname\@thefnmark}%
9302 \color@begingroup
9303 \@eightcolLTRfootfmt{#1}%
9304 \color@endgroup}%
9305 \m@mmf@prepare}
9306 \bidi@ensure@newcommand{\@mpeightcolRTLfootnotetext}[1]{%
9307 \global\setbox\@mpfootinsv@r\vbox{\@RTLtrue%
9308 \unvbox\@mpfootinsv@r
9309 \def\baselinestretch{\m@m@footnote@spacing}%
9310 \reset@font\RTLfoottextfont
9311 \hsize\columnwidth \@parboxrestore
9312 \protected@edef\@currentlabel{%
9313 \csname p@mpfootnote\endcsname\@thefnmark}%
9314 \color@begingroup
9315 \@eightcolRTLfootfmt{#1}%
9316 \color@endgroup}%
9317 \m@mmf@prepare}
9318 \bidi@ensure@newcommand{\eightcolumnfootstyle}[1]{%
9319 \m@make@eightcolfootnotetext{#1}%
9320 \m@make@mpeightcolfootnotetext{#1}%
9321 \m@make@eightcolfootfmt{#1}%
9322 \m@make@eightcol@footgroup{#1}%
9323 \m@make@mpeightcol@footgroup{#1}%
9324 \m@make@footstart{#1}%
9325 \bidi@namelongdef{\footnotetext#1}##1{%
9326 \@nameuse{\@eightcolfootnotetext#1}{##1}}%
9327 \bidi@namelongdef{\mpfootnotetext#1}##1{%
9328 \@nameuse{\@mpeightcolfootnotetext#1}{##1}}%
9329 \@namedef{\@footgroup#1}{\@nameuse{\@eightcol@footgroup#1}}%
9330 \@namedef{\mp@footgroup#1}{\@nameuse{\@mpeightcol@footgroup#1}}%
9331 \expandafter\dimen\csname footins#1\endcsname=2\footinsdim
9332 \expandafter\count\csname footins#1\endcsname=500\relax}
9333 \bidi@ensure@newcommand{\m@make@eightcolfootnotetext}[1]{%
9334 \bidi@namelongdef{\@eightcolfootnotetext#1}##1{%

```



```

9335 \insert\@nameuse{footins#1}{%
9336 \def\baselinestretch{\m@m@footnote@spacing}%
9337 \reset@font\@nameuse{foottextfont#1}%
9338 \@preamfntext
9339 \protected@edef\@currentlabel{%
9340 \csname p@footnote#1\endcsname \@nameuse{@thefnmark#1}}%
9341 \color@begingroup
9342 \@nameuse{@eightcolfootfmt#1}{##1}%
9343 \color@endgroup}%
9344 \m@mmf@prepare}}
9345 \bidi@ensure@newcommand{\m@make@mpeightcolfootnotetext}[1]{%
9346 \bidi@namelongdef{\mpeightcolfootnotetext#1}##1{%
9347 \global\setbox\@nameuse{@mpfootins#1}\vbox{%
9348 \unvbox\@nameuse{@mpfootins#1}
9349 \def\baselinestretch{\m@m@footnote@spacing}%
9350 \reset@font\@nameuse{foottextfont#1}%
9351 \hsize\columnwidth \@parboxrestore
9352 \protected@edef\@currentlabel{%
9353 \csname p@mpfootnote#1\endcsname\@nameuse{@thefnmark#1}}%
9354 \color@begingroup
9355 \@nameuse{@eightcolfootfmt#1}{##1}%
9356 \color@endgroup}\m@mmf@prepare}}
9357 \bidi@ensure@newcommand{\m@make@eightcolfootfmt}[1]{%
9358 \@namedef{@eightcolfootfmt#1}##1{%
9359 \@preameightfmt
9360 {\@nameuse{footfootmark#1}\strut
9361 {\@nameuse{foottextfont#1}##1}\strut\par}\allowbreak}}
9362 \bidi@ensure@newcommand{\m@make@eightcol@footgroup}[1]{%
9363 \@namedef{@eightcol@footgroup#1}{%
9364 \def\baselinestretch{\m@m@footnote@spacing}%
9365 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
9366 \m@mrigidbodybalance{\@nameuse{footins#1}}{8}{\splittopskip}}}}
9367 \bidi@ensure@newcommand{\m@make@mpeightcol@footgroup}[1]{%
9368 \@namedef{@mpeightcol@footgroup#1}{%
9369 \def\baselinestretch{\m@m@footnote@spacing}%
9370 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
9371 \m@mrigidbodybalance{\@nameuse{@mpfootins#1}}{8}{\splittopskip}}}}
9372 \bidi@ensure@newcommand{\ninecolumnfootnotes}{%
9373 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
9374 \let\@footnotetext\@ninecolfootnotetext
9375 \let\@LTRfootnotetext\@ninecolLTRfootnotetext
9376 \let\@RTLfootnotetext\@ninecolRTLfootnotetext
9377 \dimen\footinsv@r=9\footinsdim
9378 \count\footinsv@r=111\relax
9379 \m@make@ninecol@footgroup{v@r}%
9380 \let\@footgroupv@r\@ninecol@footgroupv@r
9381 \let\@mpfootnotetext\@mpninecolfootnotetext
9382 \let\@mpLTRfootnotetext\@mpninecolLTRfootnotetext
9383 \let\@mpRTLfootnotetext\@mpninecolRTLfootnotetext
9384 \m@make@mpninecol@footgroup{v@r}%

```



```

9385 \let\mp@footgroupv@r\@mpninelcol@footgroupv@r}
9386 \bidi@ensure@newcommand{\@ninelcolfootnotetext}[1]{\insert\footinsv@r{\if@RTL@footnote\@RTLtrue%
9387 \def\baselinestretch{\m@mm@footnote@spacing}%
9388 \reset@font\foottextfont
9389 \@preamfntext
9390 \protected@edef\@currentlabel{%
9391 \csname p@footnote\endcsname\@thefnmark}%
9392 \color@begingroup
9393 \@ninelcolfootfmt{#1}%
9394 \color@endgroup}%
9395 \m@mmf@prepare}
9396 \bidi@ensure@newcommand{\@ninelcolLTRfootnotetext}[1]{\insert\footinsv@r{\if@RTLcolumnfootnote%
9397 \def\baselinestretch{\m@mm@footnote@spacing}%
9398 \reset@font\LTRfoottextfont
9399 \@preamfntext
9400 \protected@edef\@currentlabel{%
9401 \csname p@footnote\endcsname\@thefnmark}%
9402 \color@begingroup
9403 \@ninelcolLTRfootfmt{#1}%
9404 \color@endgroup}%
9405 \m@mmf@prepare}
9406 \bidi@ensure@newcommand{\@ninelcolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
9407 \def\baselinestretch{\m@mm@footnote@spacing}%
9408 \reset@font\RTLfoottextfont
9409 \@preamfntext
9410 \protected@edef\@currentlabel{%
9411 \csname p@footnote\endcsname\@thefnmark}%
9412 \color@begingroup
9413 \@ninelcolRTLfootfmt{#1}%
9414 \color@endgroup}%
9415 \m@mmf@prepare}
9416 \bidi@ensure@newcommand{\@preamninefmt}{%
9417 \hspace{.1\hspace}
9418 \parindent=\z@
9419 \tolerance=5000\relax
9420 \leavevmode}
9421 \bidi@ensure@newcommand{\@ninelcolfootfmt}[1]{%
9422 \@preamninefmt
9423 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
9424 \bidi@ensure@newcommand{\@ninelcolLTRfootfmt}[1]{%
9425 \@preamninefmt
9426 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
9427 \bidi@ensure@newcommand{\@ninelcolRTLfootfmt}[1]{%
9428 \@preamninefmt
9429 {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
9430 \bidi@ensure@newcommand{\@mpninelcolfootnotetext}[1]{%
9431 \global\setbox\@mpfootinsv@r\vbox{\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
9432 \unvbox\@mpfootinsv@r
9433 \def\baselinestretch{\m@mm@footnote@spacing}%
9434 \reset@font\foottextfont

```



```

9435 \hsize\columnwidth \@parboxrestore
9436 \protected@edef\@currentlabel{%
9437 \csname p@mpfootnote\endcsname\@thefnmark}%
9438 \color@begingroup
9439 \@ninecolfootfmt{#1}%
9440 \color@endgroup}%
9441 \m@mmf@prepare}
9442 \bidi@ensure@newcommand{\@mpninecolLTRfootnotetext}[1]{%
9443 \global\setbox\@mpfootinsv@r\vbox{\@RTLfalse%
9444 \unvbox\@mpfootinsv@r
9445 \def\baselinestretch{\m@m@footnote@spacing}%
9446 \reset@font\LTRfoottextfont
9447 \hsize\columnwidth \@parboxrestore
9448 \ifRTLcolumnfootnotes\beginL\fi
9449 \protected@edef\@currentlabel{%
9450 \csname p@mpfootnote\endcsname\@thefnmark}%
9451 \color@begingroup
9452 \@ninecolLTRfootfmt{#1}%
9453 \color@endgroup}%
9454 \m@mmf@prepare}
9455 \bidi@ensure@newcommand{\@mpninecolRTLfootnotetext}[1]{%
9456 \global\setbox\@mpfootinsv@r\vbox{\@RTLtrue%
9457 \unvbox\@mpfootinsv@r
9458 \def\baselinestretch{\m@m@footnote@spacing}%
9459 \reset@font\RTLfoottextfont
9460 \hsize\columnwidth \@parboxrestore
9461 \protected@edef\@currentlabel{%
9462 \csname p@mpfootnote\endcsname\@thefnmark}%
9463 \color@begingroup
9464 \@ninecolRTLfootfmt{#1}%
9465 \color@endgroup}%
9466 \m@mmf@prepare}
9467 \bidi@ensure@newcommand{\ninecolumnfootstyle}[1]{%
9468 \m@make@ninecolfootnotetext{#1}%
9469 \m@make@mpninecolfootnotetext{#1}%
9470 \m@make@ninecolfootfmt{#1}%
9471 \m@make@ninecol@footgroup{#1}%
9472 \m@make@mpninecol@footgroup{#1}%
9473 \m@make@footstart{#1}%
9474 \bidi@namelongdef{\footnotetext#1}##1{%
9475 \@nameuse{\@ninecolfootnotetext#1}{##1}}%
9476 \bidi@namelongdef{\mpfootnotetext#1}##1{%
9477 \@nameuse{\@mpninecolfootnotetext#1}{##1}}%
9478 \@namedef{\@footgroup#1}{\@nameuse{\@ninecol@footgroup#1}}%
9479 \@namedef{\mp@footgroup#1}{\@nameuse{\@mpninecol@footgroup#1}}%
9480 \expandafter\dimen\csname footins#1\endcsname=2\footinsdim
9481 \expandafter\count\csname footins#1\endcsname=500\relax}
9482 \bidi@ensure@newcommand{\m@make@ninecolfootnotetext}[1]{%
9483 \bidi@namelongdef{\@ninecolfootnotetext#1}##1{%
9484 \insert\@nameuse{\footins#1}{%

```



```

9485 \def\baselinestretch{\m@m@footnote@spacing}%
9486 \reset@font\@nameuse{foottextfont#1}%
9487 \@preamfntext
9488 \protected@edef\@currentlabel{%
9489 \csname p@footnote#1\endcsname \@nameuse{@thefnmark#1}}%
9490 \color@begingroup
9491 \@nameuse{@ninecolfootfmt#1}{##1}%
9492 \color@endgroup}%
9493 \m@mmf@prepare}}
9494 \bidi@ensure@newcommand{\m@make@mpninecolfootnotetext}[1]{%
9495 \bidi@namelongdef{\mpninecolfootnotetext#1}##1{%
9496 \global\setbox\@nameuse{@mpfootins#1}\vbox{%
9497 \unvbox\@nameuse{@mpfootins#1}
9498 \def\baselinestretch{\m@m@footnote@spacing}%
9499 \reset@font\@nameuse{foottextfont#1}%
9500 \hsize\columnwidth \@parboxrestore
9501 \protected@edef\@currentlabel{%
9502 \csname p@mpfootnote#1\endcsname\@nameuse{@thefnmark#1}}%
9503 \color@begingroup
9504 \@nameuse{@ninecolfootfmt#1}{##1}%
9505 \color@endgroup}\m@mmf@prepare}}
9506 \bidi@ensure@newcommand{\m@make@ninecolfootfmt}[1]{%
9507 \@namedef{@ninecolfootfmt#1}##1{%
9508 \@preamninefmt
9509 {\@nameuse{footfootmark#1}\strut
9510 {\@nameuse{foottextfont#1}##1}\strut\par}\allowbreak}}
9511 \bidi@ensure@newcommand{\m@make@ninecol@footgroup}[1]{%
9512 \@namedef{@ninecol@footgroup#1}{%
9513 \def\baselinestretch{\m@m@footnote@spacing}%
9514 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
9515 \m@mrigidbalance{\@nameuse{footins#1}}{9}{\splittopskip}}}}
9516 \bidi@ensure@newcommand{\m@make@mpninecol@footgroup}[1]{%
9517 \@namedef{@mpninecol@footgroup#1}{%
9518 \def\baselinestretch{\m@m@footnote@spacing}%
9519 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
9520 \m@mrigidbalance{\@nameuse{@mpfootins#1}}{9}{\splittopskip}}}}
9521 \bidi@ensure@newcommand{\tencolumnfootnotes}{%
9522 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
9523 \let\@footnotetext\@tencolfootnotetext
9524 \let\@LTRfootnotetext\@tencolLTRfootnotetext
9525 \let\@RTLfootnotetext\@tencolRTLfootnotetext
9526 \dimen\footinsv@r=10\footinsdim
9527 \count\footinsv@r=100\relax
9528 \m@make@tencol@footgroup{v@r}%
9529 \let\@footgroupv@r\@tencol@footgroupv@r
9530 \let\@mpfootnotetext\@mptencolfootnotetext
9531 \let\@mpLTRfootnotetext\@mptencolLTRfootnotetext
9532 \let\@mpRTLfootnotetext\@mptencolRTLfootnotetext
9533 \m@make@mptencol@footgroup{v@r}%
9534 \let\mp@footgroupv@r\@mptencol@footgroupv@r}

```



```

9535 \bidi@ensure@newcommand{\@tencolfootnotetext}[1]{\insert\footinsv@r{\if@RTL@footnote\@RTLtrue
9536 \def\baselinestretch{\m@m@footnote@spacing}%
9537 \reset@font\foottextfont
9538 \@preamfntext
9539 \protected@edef\@currentlabel{%
9540 \csname p@footnote\endcsname\@thefnmark}%
9541 \color@begingroup
9542 \@tencolfootfmt{#1}%
9543 \color@endgroup}%
9544 \m@mmf@prepare}
9545 \bidi@ensure@newcommand{\@tencolLTRfootnotetext}[1]{\insert\footinsv@r{\if@RTL@columnfootnotes
9546 \def\baselinestretch{\m@m@footnote@spacing}%
9547 \reset@font\LTRfoottextfont
9548 \@preamfntext
9549 \protected@edef\@currentlabel{%
9550 \csname p@footnote\endcsname\@thefnmark}%
9551 \color@begingroup
9552 \@tencolLTRfootfmt{#1}%
9553 \color@endgroup}%
9554 \m@mmf@prepare}
9555 \bidi@ensure@newcommand{\@tencolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
9556 \def\baselinestretch{\m@m@footnote@spacing}%
9557 \reset@font\RTLfoottextfont
9558 \@preamfntext
9559 \protected@edef\@currentlabel{%
9560 \csname p@footnote\endcsname\@thefnmark}%
9561 \color@begingroup
9562 \@tencolRTLfootfmt{#1}%
9563 \color@endgroup}%
9564 \m@mmf@prepare}
9565 \bidi@ensure@newcommand{\@preamtenfmt}{%
9566 \hspace{.1\hspace}
9567 \parindent=\z@
9568 \tolerance=5000\relax
9569 \leavevmode}
9570 \bidi@ensure@newcommand{\@tencolfootfmt}[1]{%
9571 \@preamtenfmt
9572 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
9573 \bidi@ensure@newcommand{\@tencolLTRfootfmt}[1]{%
9574 \@preamtenfmt
9575 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
9576 \bidi@ensure@newcommand{\@tencolRTLfootfmt}[1]{%
9577 \@preamtenfmt
9578 {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
9579 \bidi@ensure@newcommand{\@mptencolfootnotetext}[1]{%
9580 \global\setbox\@mpfootinsv@r\vbox{\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
9581 \unvbox\@mpfootinsv@r
9582 \def\baselinestretch{\m@m@footnote@spacing}%
9583 \reset@font\foottextfont
9584 \hspace\columnwidth \@parboxrestore

```



```

9585 \protected@edef\@currentlabel{%
9586 \csname p@mpfootnote\endcsname\@thefnmark}%
9587 \color@begingroup
9588 \@tencolfootfmt{#1}%
9589 \color@endgroup}%
9590 \m@mmf@prepare}
9591 \bidi@ensure@newcommand{\@mptencolLTRfootnotetext}[1]{%
9592 \global\setbox\@mpfootinsv@r\vbox{\@RTLfalse%
9593 \unvbox\@mpfootinsv@r
9594 \def\baselinestretch{\m@m@footnote@spacing}%
9595 \reset@font\LTRfoottextfont
9596 \hsize\columnwidth \@parboxrestore
9597 \if@RTLcolumnfootnotes\beginL\fi
9598 \protected@edef\@currentlabel{%
9599 \csname p@mpfootnote\endcsname\@thefnmark}%
9600 \color@begingroup
9601 \@tencolLTRfootfmt{#1}%
9602 \color@endgroup}%
9603 \m@mmf@prepare}
9604 \bidi@ensure@newcommand{\@mptencolRTLfootnotetext}[1]{%
9605 \global\setbox\@mpfootinsv@r\vbox{\@RTLtrue%
9606 \unvbox\@mpfootinsv@r
9607 \def\baselinestretch{\m@m@footnote@spacing}%
9608 \reset@font\RTLfoottextfont
9609 \hsize\columnwidth \@parboxrestore
9610 \protected@edef\@currentlabel{%
9611 \csname p@mpfootnote\endcsname\@thefnmark}%
9612 \color@begingroup
9613 \@tencolRTLfootfmt{#1}%
9614 \color@endgroup}%
9615 \m@mmf@prepare}
9616 \bidi@ensure@newcommand{\tencolumnfootstyle}[1]{%
9617 \m@make@tencolfootnotetext{#1}%
9618 \m@make@mptencolfootnotetext{#1}%
9619 \m@make@tencolfootfmt{#1}%
9620 \m@make@tencol@footgroup{#1}%
9621 \m@make@mptencol@footgroup{#1}%
9622 \m@make@footstart{#1}%
9623 \bidi@namelongdef{\@footnotetext#1}##1{%
9624 \@nameuse{\@tencolfootnotetext#1}{##1}}%
9625 \bidi@namelongdef{\@mpfootnotetext#1}##1{%
9626 \@nameuse{\@mptencolfootnotetext#1}{##1}}%
9627 \@namedef{\@footgroup#1}{\@nameuse{\@tencol@footgroup#1}}%
9628 \@namedef{\mp@footgroup#1}{\@nameuse{\@mptencol@footgroup#1}}%
9629 \expandafter\dimen\csname footins#1\endcsname=2\footinsdim
9630 \expandafter\count\csname footins#1\endcsname=500\relax}
9631 \bidi@ensure@newcommand{\m@make@tencolfootnotetext}[1]{%
9632 \bidi@namelongdef{\@tencolfootnotetext#1}##1{%
9633 \insert\@nameuse{footins#1}{%
9634 \def\baselinestretch{\m@m@footnote@spacing}%

```



```

9635 \reset@font\@nameuse{foottextfont#1}%
9636 \@preamfntext
9637 \protected@edef\@currentlabel{%
9638 \csname p@footnote#1\endcsname \@nameuse{@thefnmark#1}}%
9639 \color@begingroup
9640 \@nameuse{@tencolfootfmt#1}{##1}%
9641 \color@endgroup}%
9642 \m@mmlf@prepare}}
9643 \bidi@ensure@newcommand{\m@make@mptencolfootnotetext}[1]{%
9644 \bidi@namelongdef{\mptencolfootnotetext#1}##1{%
9645 \global\setbox\@nameuse{@mpfootins#1}\vbox{%
9646 \unvbox\@nameuse{@mpfootins#1}
9647 \def\baselinestretch{\m@m@footnote@spacing}%
9648 \reset@font\@nameuse{foottextfont#1}%
9649 \hsize\columnwidth \@parboxrestore
9650 \protected@edef\@currentlabel{%
9651 \csname p@mpfootnote#1\endcsname\@nameuse{@thefnmark#1}}%
9652 \color@begingroup
9653 \@nameuse{@tencolfootfmt#1}{##1}%
9654 \color@endgroup}\m@mmlf@prepare}}
9655 \bidi@ensure@newcommand{\m@make@tencolfootfmt}[1]{%
9656 \@namedef{@tencolfootfmt#1}##1{%
9657 \@preamtenfmt
9658 {\@nameuse{footfootmark#1}\strut
9659 {\@nameuse{foottextfont#1}##1}\strut\par}\allowbreak}}
9660 \bidi@ensure@newcommand{\m@make@tencol@footgroup}[1]{%
9661 \@namedef{@tencol@footgroup#1}{%
9662 \def\baselinestretch{\m@m@footnote@spacing}%
9663 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
9664 \m@mrigidbalance{\@nameuse{footins#1}}{10}{\splittopskip}}}}
9665 \bidi@ensure@newcommand{\m@make@mptencol@footgroup}[1]{%
9666 \@namedef{@mptencol@footgroup#1}{%
9667 \def\baselinestretch{\m@m@footnote@spacing}%
9668 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
9669 \m@mrigidbalance{\@nameuse{@mpfootins#1}}{10}{\splittopskip}}}}
9670 \bidi@ensure@newcommand{\m@m@munvxh}[1]{%
9671 \setbox0=\vbox{\unvbox#1%
9672 \global\setbox1=\lastbox}%
9673 \unhbox1
9674 \unskip
9675 \unskip
9676 \unpenalty
9677 \hskip\m@mipn@skip}
9678 \bidi@ensure@newcommand{\m@mungebox}{%
9679 \setbox0=\hbox{\m@m@munvxh0}%
9680 \dp0=\z@
9681 \ht0=\footfudgefactor\wd0
9682 \box0
9683 \penalty0}
9684 \newskip\m@mipn@skip

```





```

9685 \bidi@ensure@newcommand*{\m@minterparanoteglue}[1]{%
9686   {\foottextfont\global\m@mipn@skip=#1\relax}}
9687 \m@minterparanoteglue{1em plus.4em minus.4em}
9688 \@ifpackageloaded{multicol}{%
9689 \bidi@ensure@newcommand*{\m@mmakehboxofhboxes}{%
9690   \if@parafootRTL\@RTLtrue\else\@RTLfalse\fi%
9691   \hsize\textwidth%
9692   \setbox0=\hbox{}%
9693   \loop
9694     \unpenalty
9695     \setbox2=\lastbox
9696   \ifhbox2
9697     \setbox0=\hbox{\box2\unhbox0}
9698   \repeat}%
9699 }{%
9700 \bidi@ensure@newcommand*{\m@mmakehboxofhboxes}{%
9701   \if@parafootRTL\@RTLtrue\else\@RTLfalse\fi%
9702   \setbox0=\hbox{}%
9703   \loop
9704     \unpenalty
9705     \setbox2=\lastbox
9706   \ifhbox2
9707     \setbox0=\hbox{\box2\unhbox0}
9708   \repeat}}
9709 \bidi@ensure@newcommand*{\m@mremovehboxes}{\setbox0=\lastbox
9710   \ifhbox0{\m@mremovehboxes}\unhbox0 \fi}
9711 \bidi@ensure@newcommand*{\footfudgefiddle}{64}
9712 \bidi@ensure@newcommand{\paragraphfootnotes}{%
9713   \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
9714   \let\@footnotetext\@parafootnotetext
9715   \let\@LTRfootnotetext\@paraLTRfootnotetext
9716   \let\@RTLfootnotetext\@paraRTLfootnotetext
9717   \dimen\footinsv@r=\footinsdim
9718   \count\footinsv@r=1000\relax
9719   \m@make@para@footgroup{v@r}%
9720   \let\@footgroupv@r\@para@footgroupv@r
9721   \let\@mpfootnotetext\@mpparafootnotetext
9722   \let\@mpLTRfootnotetext\@mpparaLTRfootnotetext
9723   \let\@mpRTLfootnotetext\@mpparaRTLfootnotetext
9724   \m@make@mppara@footgroup{v@r}%
9725   \let\mp@footgroupv@r\@mppara@footgroupv@r
9726   {\def\baselinestretch{\m@m@footnote@spacing}%
9727     \foottextfont
9728     \dimen0=\baselineskip
9729     \multiply\dimen0 by 1024
9730     \divide\dimen0 by \hsize \multiply\dimen0 by \footfudgefiddle
9731     \xdef\footfudgefactor{\expandafter\strip@pt\dimen0 }}}
9732 \bidi@ensure@newcommand{\@parafootnotetext}[1]{\insert\footinsv@r{%
9733   \let\bidi@RTL@everypar\@empty%
9734   \def\baselinestretch{\m@m@footnote@spacing}%

```



```

9735 \reset@font\foottextfont
9736 \@preamfntext
9737 \protected@edef\@currentlabel{%
9738   \csname p@footnote\endcsname\@thefnmark}%
9739 \setbox0=\vbox{\hsize=\maxdimen
9740   \color@begingroup
9741     \noindent \@parafootfmt{\if@RTL@footnote\beginR\else\beginL\fi#1\if@RTL@footnote\endR\else\beginL\fi#1\endL}%
9742   \color@endgroup}%
9743 \m@mungebox}\m@mmf@prepare}
9744 \bidi@ensure@newcommand{\@paraLTRfootnotetext}[1]{\insert\footinsv@r{%
9745   \let\bidi@RTL@everypar\@empty%
9746   \def\baselinestretch{\m@m@footnote@spacing}%
9747   \reset@font\LTRfoottextfont
9748   \@preamfntext
9749   \protected@edef\@currentlabel{%
9750     \csname p@footnote\endcsname\@thefnmark}%
9751   \setbox0=\vbox{\hsize=\maxdimen
9752     \color@begingroup
9753       \noindent \@paraLTRfootfmt{\beginL#1\endL}%
9754     \color@endgroup}%
9755   \m@mungebox}\m@mmf@prepare}
9756 \bidi@ensure@newcommand{\@paraRTLfootnotetext}[1]{\insert\footinsv@r{%
9757   \let\bidi@RTL@everypar\@empty%
9758   \def\baselinestretch{\m@m@footnote@spacing}%
9759   \reset@font\RTLfoottextfont
9760   \@preamfntext
9761   \protected@edef\@currentlabel{%
9762     \csname p@footnote\endcsname\@thefnmark}%
9763   \setbox0=\vbox{\hsize=\maxdimen
9764     \color@begingroup
9765       \noindent \@paraRTLfootfmt{\beginR#1\endR}%
9766     \color@endgroup}%
9767   \m@mungebox}\m@mmf@prepare}
9768 \bidi@ensure@newcommand{\@parafootfmt}[1]{%
9769   \parindent=\z@
9770   \parfillskip=0pt \@plus 1fil
9771   {\footfootmark\strut {\foottextfont #1}\penalty-10}}
9772 \bidi@ensure@newcommand{\@paraLTRfootfmt}[1]{%
9773   \parindent=\z@
9774   \parfillskip=0pt \@plus 1fil
9775   {\LTRfootfootmark\strut {\LTRfoottextfont #1}\penalty-10}}
9776 \bidi@ensure@newcommand{\@paraRTLfootfmt}[1]{%
9777   \parindent=\z@
9778   \parfillskip=0pt \@plus 1fil
9779   {\RTLfootfootmark\strut {\RTLfoottextfont #1}\penalty-10}}
9780 \bidi@ensure@newcommand{\@mpparafootnotetext}[1]{%
9781   \global\setbox\@mpfootinsv@r\vbox{%
9782     \let\bidi@RTL@everypar\@empty%
9783     \def\baselinestretch{\m@m@footnote@spacing}%
9784     \unvbox\@mpfootinsv@r

```



```

9785 \reset@font\foottextfont
9786 \hsize\columnwidth \@parboxrestore
9787 \protected@edef\@currentlabel{%
9788 \csname p@mpfootnote\endcsname\@thefnmark}%
9789 \setbox0=\vbox{\hsize=\maxdimen
9790 \color@begingroup
9791 \noindent \@parafootfmt{\if@RTL@footnote\beginR\else\beginL\fi#1\if@RTL@footnote\endR\else\beginL\fi#1\if@RTL@footnote\endR}%
9792 \color@endgroup}%
9793 \m@mungebox}\m@mmf@prepare}
9794 \bidi@ensure@newcommand{\@mpparaLTRfootnotetext}[1]{%
9795 \global\setbox\@mpfootinsv@r\vbox{%
9796 \let\bidi@RTL@everypar\@empty%
9797 \def\baselinestretch{\m@m@footnote@spacing}%
9798 \unvbox\@mpfootinsv@r
9799 \reset@font\LTRfoottextfont
9800 \hsize\columnwidth \@parboxrestore
9801 \protected@edef\@currentlabel{%
9802 \csname p@mpfootnote\endcsname\@thefnmark}%
9803 \setbox0=\vbox{\hsize=\maxdimen
9804 \color@begingroup
9805 \noindent \@paraLTRfootfmt{\beginL#1\endL}%
9806 \color@endgroup}%
9807 \m@mungebox}\m@mmf@prepare}
9808 \bidi@ensure@newcommand{\@mpparaRTLfootnotetext}[1]{%
9809 \global\setbox\@mpfootinsv@r\vbox{%
9810 \let\bidi@RTL@everypar\@empty%
9811 \def\baselinestretch{\m@m@footnote@spacing}%
9812 \unvbox\@mpfootinsv@r
9813 \reset@font\RTLfoottextfont
9814 \hsize\columnwidth \@parboxrestore
9815 \protected@edef\@currentlabel{%
9816 \csname p@mpfootnote\endcsname\@thefnmark}%
9817 \setbox0=\vbox{\hsize=\maxdimen
9818 \color@begingroup
9819 \noindent \@paraRTLfootfmt{\beginR#1\endR}%
9820 \color@endgroup}%
9821 \m@mungebox}\m@mmf@prepare}
9822 \bidi@ensure@newcommand{\paragraphfootstyle}[1]{%
9823 \m@make@parafootnotetext{#1}%
9824 \m@make@mpparafootnotetext{#1}%
9825 \m@make@parafootfmt{#1}%
9826 \m@make@para@footgroup{#1}%
9827 \m@make@mppara@footgroup{#1}%
9828 \m@make@para@footstart{#1}%
9829 \bidi@namelongdef{\footnotetext#1}##1{%
9830 \@nameuse{\@parafootnotetext#1}{##1}}%
9831 \bidi@namelongdef{\mpfootnotetext#1}##1{%
9832 \@nameuse{\@mpparafootnotetext#1}{##1}}%
9833 \@namedef{\@footgroup#1}{\@nameuse{\@para@footgroup#1}}%
9834 \@namedef{\mp@footgroup#1}{\@nameuse{\@mppara@footgroup#1}}%

```



```

9835 \@namedef{@footstart#1}{\@nameuse{@para@footstart#1}}%
9836 \expandafter\dimen\csname footins#1\endcsname=\footinsdim
9837 \expandafter\count\csname footins#1\endcsname=1000\relax
9838 {\def\baselinestretch{\m@m@footnote@spacing}%
9839 \@nameuse{foottextfont#1}}%
9840 \dimen0=\baselineskip
9841 \multiply\dimen0 by 1024
9842 \divide\dimen0 by \hsize \multiply\dimen0 by 64
9843 \xdef\footfudgefactor{\expandafter\strip@pt\dimen0 }}}
9844 \bidi@ensure@newcommand{\m@make@parafootnotetext}[1]{%
9845 \bidi@namelongdef{@parafootnotetext#1}##1{%
9846 \insert\@nameuse{footins#1}{
9847 \def\baselinestretch{\m@m@footnote@spacing}%
9848 \reset@font\@nameuse{foottextfont#1}}%
9849 \preamfntext
9850 \protected@edef\@currentlabel{%
9851 \csname p@footnote#1\endcsname \@nameuse{@thefnmark#1}}%
9852 \setbox0=\vbox{\hsize=\maxdimen
9853 \color@begingroup
9854 \noindent \@nameuse{@parafootfmt#1}{##1}%
9855 \color@endgroup}%
9856 \m@mungebox}\m@mmf@prepare}}
9857 \bidi@ensure@newcommand{\m@make@mpparafootnotetext}[1]{%
9858 \bidi@namelongdef{@mpparafootnotetext#1}##1{%
9859 \global\setbox\@nameuse{@mpfootins#1}\vbox{%
9860 \unvbox\@nameuse{@mpfootins#1}
9861 \def\baselinestretch{\m@m@footnote@spacing}%
9862 \reset@font\@nameuse{foottextfont#1}}%
9863 \hsize\columnwidth \@parboxrestore
9864 \protected@edef\@currentlabel{%
9865 \csname p@mpfootnote#1\endcsname\@nameuse{@thefnmark#1}}%
9866 \setbox0=\vbox{\hsize=\maxdimen
9867 \color@begingroup
9868 \noindent \@nameuse{@parafootfmt#1}{##1}%
9869 \color@endgroup}%
9870 \m@mungebox}\m@mmf@prepare}}
9871 \bidi@ensure@newcommand{\m@make@parafootfmt}[1]{%
9872 \bidi@namelongdef{@parafootfmt#1}##1{%
9873 \parindent=\z@
9874 \parfillskip=0pt \@plus 1fil
9875 {\@nameuse{footfootmark#1}\strut
9876 {\@nameuse{foottextfont#1}##1}\penalty-10}}}
9877 \bidi@ensure@newcommand{\m@make@para@footgroup}[1]{%
9878 \@namedef{@para@footgroup#1}{%
9879 \unvbox\@nameuse{footins#1}
9880 \m@mmakehboxofhboxes
9881 \setbox0=\hbox{\unhbox0 \m@mremovehboxes}%
9882 \@parboxrestore%
9883 \def\baselinestretch{\m@m@footnote@spacing}%
9884 \@nameuse{foottextfont#1}}%

```



```

9885 \noindent\unhbox0\par}}
9886 \bidi@ensure@newcommand{\m@make@mppara@footgroup}[1]{%
9887 \@namedef{@mppara@footgroup#1}{%
9888 \unvbox\@nameuse{@mpfootins#1}
9889 \m@mmakehboxofhboxes
9890 \setbox0=\hbox{\unhbox0 \m@mremovehboxes}%
9891 \def\baselinestretch{\m@m@footnote@spacing}%
9892 \@nameuse{foottextfont#1}%
9893 \noindent\unhbox0\par}}
9894 \bidi@ensure@newcommand{\m@make@para@footstart}[1]{%
9895 \@namedef{@para@footstart#1}{%
9896 \vskip\bigskipamount
9897 \leftskip=\z@
9898 \rightskip=\z@
9899 \parindent=\z@
9900 \vskip\skip\@nameuse{footins#1}%
9901 \footnoterule}}
9902 \bidi@ensure@newcommand*{\m@m@makecolfloats}{%
9903 \xdef\@freelist{\@freelist\@midlist}%
9904 \global\let\@midlist\@empty
9905 \@combinefloats}
9906 \bidi@ensure@newcommand*{\m@m@makecoltext}{%
9907 \ifvbox\@kludgeins
9908 \@makespecialcolbox
9909 \else
9910 \setbox\@outputbox \vbox to\@colht{%
9911 \@texttop
9912 \dimen@ \dp\@outputbox
9913 \unvbox \@outputbox
9914 \vskip -\dimen@
9915 \@textbottom}%
9916 \fi}
9917 \bidi@ensure@newcommand*{\m@m@makecolintro}{%
9918 \bidi@ensure@newcommand*{\m@m@footnote}{\setbox\@outputbox \vbox{%
9919 \boxmaxdepth\@maxdepth
9920 \@tempdima\dp\@cclv
9921 \unvbox\@cclv
9922 \vskip-\@tempdima
9923 \bidi@mopfn@bottom
9924 \vskip \skip\footins
9925 \color@begingroup
9926 \normalcolor
9927 \footnoterule
9928 \unvbox \footins
9929 \color@endgroup}}
9930 \newcommand*{\bidi@mopfootnotebf}{%
9931 \setbox\@outputbox \vbox{%
9932 \boxmaxdepth\@maxdepth
9933 \unvbox\@outputbox
9934 \bidi@mopfn@bottom

```



```

9935 \vskip\skip\footins
9936 \color@begingroup
9937 \normalcolor
9938 \footnoterule
9939 \unvbox \footins
9940 \color@endgroup}}
9941 \gdef\mem@makecol{%
9942 \m@m@makecolintro
9943 \ifvoid\footins
9944 \setbox\@outputbox \box\@cclv
9945 \else
9946 \m@mopfootnote
9947 \fi
9948 \m@mdoextrafeet
9949 \m@m@makecolfloats
9950 \m@m@makecoltext
9951 \global \maxdepth \@maxdepth}
9952 \gdef\bidi@makecolbf{%
9953 \m@m@makecolintro
9954 \setbox\@outputbox \box\@cclv
9955 \m@m@makecolfloats
9956 \ifvoid\footins
9957 \else
9958 \bidi@mopfootnotebf
9959 \fi
9960 \m@mdoextrafeet
9961 \m@m@makecoltext
9962 \global \maxdepth \@maxdepth}
9963 \newcommand{\FeetAboveFloat}{\gdef\@makecol{\mem@makecol}}
9964 \newcommand{\FeetBelowFloat}{\gdef\@makecol{\bidi@makecolbf}}
9965 \newcommand\FeetAtBottom{\def\bidi@mopfn@bottom{\vfill\relax}}
9966 \newcommand\FeetBelowRagged{\let\bidi@mopfn@bottom\relax}
9967 \FeetAboveFloat
9968 \FeetBelowRagged

```

## 7.55 extreport-xetex-bidi.def

```

9969 \ProvidesFile{extreport-xetex-bidi.def}[2015/11/14 v0.2 bidi adaptations for extreport class]
9970 \renewcommand*\l@part[2]{%
9971 \ifnum \c@tocdepth >-2\relax
9972 \addpenalty{-\@highpenalty}%
9973 \addvspace{2.25em \@plus\p@}%
9974 \begingroup
9975 \setlength\@tempdima{3em}%
9976 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
9977 \parfillskip -\@pnumwidth
9978 {\leavevmode
9979 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
9980 \nobreak
9981 \global\@nobreaktrue

```



```

9982         \everypar{\global\@nbreakfalse\everypar{}}%
9983     \endgroup
9984 \fi}
9985 \renewcommand*\l@chapter[2]{%
9986     \ifnum \c@tocdepth >\m@ne
9987         \addpenalty{-\@highpenalty}%
9988         \vskip 1.0em \@plus\p@
9989         \setlength\@tempdima{1.5em}%
9990         \begingroup
9991             \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
9992             \parfillskip -\@pnumwidth
9993             \leavevmode \bfseries
9994             \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
9995             \hskip -\if@RTL\rightskip\else\leftskip\fi
9996             #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
9997             \penalty\@highpenalty
9998         \endgroup
9999 \fi}
10000 \def\@makechapterhead#1{%
10001     \vspace*{50\p@}%
10002     {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont
10003         \ifnum \c@secnumdepth >\m@ne
10004             \huge\bfseries \@chapapp\space \thechapter
10005             \par\nobreak
10006             \vskip 20\p@
10007         \fi
10008         \interlinepenalty\@M
10009         \Huge \bfseries #1\par\nobreak
10010         \vskip 40\p@
10011     }}
10012 \def\@makeschapterhead#1{%
10013     \vspace*{50\p@}%
10014     {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
10015         \normalfont
10016         \interlinepenalty\@M
10017         \Huge \bfseries #1\par\nobreak
10018         \vskip 40\p@
10019     }}
10020 \renewcommand\left@footnoterule{%
10021     \kern-3\p@
10022     \hrule\@width.4\columnwidth
10023     \kern2.6\p@}
10024 \renewcommand\right@footnoterule{%
10025     \kern-3\p@
10026     \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
10027     \kern2.6\p@}
10028 \renewenvironment{thebibliography}[1]
10029     {\chapter*{\bibname
10030         \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}}%
10031         \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi

```



```

10032     \list{\@biblabel{\@arabic\c@enumiv}}%
10033         {\settowidth\labelwidth{\@biblabel{#1}}%
10034           \leftmargin\labelwidth
10035           \advance\leftmargin\labelsep
10036           \@openbib@code
10037           \usecounter{enumiv}%
10038           \let\p@enumiv\@empty
10039           \renewcommand\theenumiv{\@arabic\c@enumiv}}%
10040     \sloppy\clubpenalty4000\widowpenalty4000%
10041     \sfcode`.\@m}
10042     {\def\@noitemerr
10043       {\@latex@warning{Empty `thebibliography' environment}}}%
10044     \endlist}
10045 \if@titlepage
10046 \renewcommand\maketitle{\begin{titlepage}%
10047 \let\footnotesize\small
10048 \let\right@footnoterule\relax
10049 \let\left@footnoterule\relax
10050 \let\textwidth\footnoterule\relax
10051 \let \footnote \thanks
10052 \null\vfil
10053 \vskip 60\p@
10054 \begin{center}%
10055   {\LARGE \@title \par}%
10056   \vskip 3em%
10057   {\large
10058     \lineskip .75em%
10059     \begin{tabular}[t]{c}%
10060       \@author
10061     \end{tabular}\par}%
10062     \vskip 1.5em%
10063     {\large \@date \par}%           % Set date in \large size.
10064 \end{center}\par
10065 \@thanks
10066 \vfil\null
10067 \end{titlepage}%
10068 \setcounter{footnote}{0}%
10069 \global\let\thanks\relax
10070 \global\let\maketitle\relax
10071 \global\let\@thanks\@empty
10072 \global\let\@author\@empty
10073 \global\let\@date\@empty
10074 \global\let\@title\@empty
10075 \global\let\title\relax
10076 \global\let\author\relax
10077 \global\let\date\relax
10078 \global\let\and\relax
10079 }
10080 \else
10081 \renewcommand\maketitle{\par

```





```

10082 \beginngroup
10083 \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
10084 \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
10085 \long\def\@makefntext##1{\parindent 1em\noindent
10086     \hb@xt@1.8em{%
10087         \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
10088 \if@twocolumn
10089     \ifnum \col@number=\@ne
10090         \@maketitle
10091     \else
10092         \twocolumn[\@maketitle]%
10093     \fi
10094 \else
10095     \newpage
10096     \global\@topnum\z@ % Prevents figures from going at top of page.
10097     \@maketitle
10098 \fi
10099 \thispagestyle{plain}\@thanks
10100 \endgroup
10101 \setcounter{footnote}{0}%
10102 \global\let\thanks\relax
10103 \global\let\maketitle\relax
10104 \global\let\@maketitle\relax
10105 \global\let\@thanks\@empty
10106 \global\let\@author\@empty
10107 \global\let\@date\@empty
10108 \global\let\@title\@empty
10109 \global\let\title\relax
10110 \global\let\author\relax
10111 \global\let\date\relax
10112 \global\let\and\relax
10113 }
10114 \def\@maketitle{%
10115     \newpage
10116     \null
10117     \vskip 2em%
10118     \begin{center}%
10119         \let \footnote \thanks
10120         {\LARGE \@title \par}%
10121         \vskip 1.5em%
10122         {\large
10123             \lineskip .5em%
10124             \begin{tabular}[t]{c}%
10125                 \@author
10126             \end{tabular}\par}%
10127         \vskip 1em%
10128         {\large \@date}%
10129     \end{center}%
10130     \par
10131     \vskip 1.5em}

```



```

10132 \fi
10133 \renewcommand\thesection      {\thechapter\@SepMark\@arabic\c@section}
10134 \renewcommand\thesubsection   {\thesection\@SepMark\@arabic\c@subsection}
10135 \renewcommand\thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
10136 \renewcommand\theparagraph    {\thesubsubsection\@SepMark\@arabic\c@paragraph}
10137 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
10138 \renewcommand\theequation{%
10139   \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@equation}
10140 \renewcommand\thefigure{%
10141   \ifnum \c@chapter>\z@\thechapter\@SepMark\fi \@arabic\c@figure}
10142 \renewcommand\thetable{%
10143   \ifnum \c@chapter>\z@\thechapter\@SepMark\fi\@arabic\c@table}

```

## 7.56 fancybox-xetex-bidi.def

```

10144 \ProvidesFile{fancybox-xetex-bidi.def}[2013/05/01 v0.1 bidi adaptations for fancybox package]
10145 \def\fancy@oval#1#2#3{%
10146   \boxmaxdepth \maxdimen
10147   \@ovttrue \@ovbtrue \@ovltrue \@ovrtrue
10148   \@tfor\@tempa :=#3\do{\csname @ov\@tempa false\endcsname}%
10149   \@ovxx#1\relax
10150   \advance\@ovxx-\@wholewidth
10151   \@ovyy#2\relax
10152   \advance\@ovyy-\@wholewidth
10153   \@tempdimb \ifdim \@ovyy >\@ovxx \@ovxx\else \@ovyy \fi
10154   \advance\@tempdimb-2\p@
10155   \ifdim\@tempdimb>\the@cornersize\relax
10156     \@tempdimb=\the@cornersize
10157   \fi
10158   \@getcirc\@tempdimb
10159   \@ovro\ht\@tempboxa \@ovri\dp\@tempboxa
10160   \@ovdx\@ovxx \advance\@ovdx-\@tempdima \divide\@ovdx \tw@
10161   \@ovdy\@ovyy \advance\@ovdy-\@tempdima \divide\@ovdy \tw@
10162   \@circlefnt
10163   \setbox\@tempboxa\hbox{\beginL%
10164     \if@ovr \@ovvert32\kern -\@tempdima \fi
10165     \if@ovl \kern \@ovxx \@ovvert01\kern -\@tempdima \kern -\@ovxx \fi
10166     \if@ovt \@ovhorz \kern -\@ovxx \fi
10167     \if@ovb \raise \@ovyy \@ovhorz \fi\endL}%
10168   \advance\@ovdx\@ovro
10169   \advance\@ovdy\@ovro
10170   \advance\@ovxx\@wholewidth
10171   \wd\@tempboxa=\@ovxx
10172   \dp\@tempboxa=\z@}

```

## 7.57 fancyhdr-xetex-bidi.def

```

10173 \ProvidesFile{fancyhdr-xetex-bidi.def}[2016/11/30 v0.6 bidi adaptations for fancyhdr package]
10174
10175 \let\fnch@everypar\everypar%
10176

```



```

10177 \def\@fancyhead#1#2#3#4#5{#1\hbox to\headwidth{\fancy@reset
10178   \@fancyvbox\headheight{\hbox
10179     {\rlap{\parbox[b]{\headwidth}{\bidi@raggedright#2}}\hfill
10180     \parbox[b]{\headwidth}{\centering#3}\hfill
10181     \llap{\parbox[b]{\headwidth}{\bidi@raggedleft#4}}}\headrule}}#5}
10182
10183 \def\@fancyfoot#1#2#3#4#5{#1\hbox to\headwidth{\fancy@reset
10184   \@fancyvbox\footskip{\footrule
10185     \hbox{\rlap{\parbox[t]{\headwidth}{\bidi@raggedright#2}}\hfill
10186     \parbox[t]{\headwidth}{\centering#3}\hfill
10187     \llap{\parbox[t]{\headwidth}{\bidi@raggedleft#4}}}\hfill}}#5}
10188

```

## 7.58 fix2col-xetex-bidi.def

```

10189 \ProvidesFile{fix2col-xetex-bidi.def}[2013/04/10 v0.3 bidi adaptations for fix2col package fo
10190 \def\RTL@outputdblcol{%
10191   \if@firstcolumn
10192     \global\@firstcolumnfalse
10193     \global\setbox\@leftcolumn\copy\@outputbox
10194     \splitmaxdepth\maxdimen
10195     \vbadness\maxdimen
10196     \setbox\@outputbox\vsplit\@outputbox to\maxdimen
10197     \toks@\expandafter{\topmark}%
10198     \xdef\@firstcoltopmark{\the\toks@}%
10199     \toks@\expandafter{\splitfirstmark}%
10200     \xdef\@firstcolfirstmark{\the\toks@}%
10201     \ifx\@firstcolfirstmark\@empty
10202       \global\let\@setmarks\relax
10203     \else
10204       \gdef\@setmarks{%
10205         \let\firstmark\@firstcolfirstmark
10206         \let\topmark\@firstcoltopmark}%
10207     \fi
10208 \else \global\@firstcolumntrue
10209 \setbox\@outputbox \vbox {\hbox to\textwidth {%
10210   \hskip \columnwidth
10211   \hfil \vrule width\columnseprule \hfil
10212   \hbox to\columnwidth {\box\@leftcolumn \hss}%
10213   \hskip -\textwidth
10214   \hbox to\columnwidth{\box\@outputbox \hss}%
10215   \hskip \columnsep
10216   \hskip \columnwidth }}%
10217 \@combinedblfloats \@setmarks \@outputpage
10218 \begingroup \@dblfloatplacement \@startdblcolumn
10219 \@whiles\if@fcolmade \fi
10220 {\@outputpage \@startdblcolumn }\endgroup
10221 \fi}
10222 \def\LTR@outputdblcol{%
10223   \if@firstcolumn

```



```

10224 \global\@firstcolumnfalse
10225 \global\setbox\@leftcolumn\copy\@outputbox
10226 \splitmaxdepth\maxdimen
10227 \vbadness\maxdimen
10228 \setbox\@outputbox\vsplit\@outputbox to\maxdimen
10229 \toks@\expandafter{\topmark}%
10230 \xdef\@firstcoltopmark{\the\toks@}%
10231 \toks@\expandafter{\splitfirstmark}%
10232 \xdef\@firstcolfirstmark{\the\toks@}%
10233 \ifx\@firstcolfirstmark\@empty
10234 \global\let\@setmarks\relax
10235 \else
10236 \gdef\@setmarks{%
10237 \let\firstmark\@firstcolfirstmark
10238 \let\topmark\@firstcoltopmark}%
10239 \fi
10240 \else
10241 \global\@firstcolumntrue
10242 \setbox\@outputbox\vbox{%
10243 \hb@xt@\textwidth{%
10244 \hb@xt@\columnwidth{\box\@leftcolumn \hss}%
10245 \hfil
10246 \vrule \@width\columnseprule
10247 \hfil
10248 \hb@xt@\columnwidth{\box\@outputbox \hss}}}%
10249 \@combinedblfloats
10250 \@setmarks
10251 \@outputpage
10252 \begingroup
10253 \@dblfloatplacement
10254 \@startdblcolumn
10255 \@whilesw\if@fcolmade \fi{\@outputpage\@startdblcolumn}%
10256 \endgroup
10257 \fi}

```

## 7.59 fleqn-xetex-bidi.def

```

10258 \ProvidesFile{fleqn-xetex-bidi.def}[2010/03/01 v0.1 bidi adaptations for fleqn tag for XeTeX]
10259 \renewcommand\[{ \relax
10260 \ifmmode\@badmath
10261 \else
10262 \begin{trivlist}%
10263 \beginparpenalty\predisplaypenalty
10264 \endparpenalty\postdisplaypenalty
10265 \item[]\leavevmode
10266 \hb@xt@\linewidth\bgroup \beginL$\m@th\displaystyle %$
10267 \hskip\mathindent\bgroup
10268 \fi}
10269 \renewcommand\]{ \relax
10270 \ifmmode

```



```

10271             \egroup $\hfil% $
10272             \endL\egroup
10273             \end{trivlist}%
10274             \else \@badmath
10275             \fi}
10276 \renewenvironment{equation}%
10277 {\@beginparpenalty\predisplaypenalty
10278  \@endparpenalty\postdisplaypenalty
10279  \refstepcounter{equation}%
10280  \trivlist \item[]\leavevmode
10281   \hb@xt@\linewidth\bgroup\beginL $m@th% $
10282   \displaystyle
10283   \hskip\mathindent}%
10284   {$\hfil % $
10285   \displaywidth\linewidth\hbox{\@eqnnum}%
10286   \endL\egroup
10287   \endtrivlist}

```

## 7.60 float-xetex-bidi.def

```

10288 \ProvidesFile{float-xetex-bidi.def}[2013/04/04 v0.2 bidi adaptations for float package for Xe
10289 \renewcommand\floatc@plain[2]{\setbox\@tempboxa\hbox{\@fs@cfont #1:} #2}%
10290 \ifdim\wd\@tempboxa>\hsize {\@fs@cfont #1:} #2\par
10291 \else\hbox to\hsize{\if@RTL\beginR\fi\hfil\box\@tempboxa\hfil\if@RTL\endR\fi}\fi}
10292 \def\float@newx#1[#2]{\@ifundefined{c#1}{\newcounter{#1}[#2]%
10293   \expandafter\edef\csname the#1\endcsname{%
10294     \expandafter\noexpand\csname
10295       the#2\endcsname\@SepMark\noexpand\arabic{#1}}}%
10296   {\PackageWarning{float}{Can't redefine counter variable for #1.}}}

```

## 7.61 floatrow-xetex-bidi.def

```

10297 \ProvidesFile{floatrow-xetex-bidi.def}[2013/04/08 v0.1 bidi adaptations for floatrow package
10298 \renewcommand\flnew@within[1]{\@addtoreset{FB@captype}{#1}%
10299   \expandafter\edef\csname theFB@captype\endcsname{%
10300     \expandafter\noexpand\csname
10301       the#1\endcsname\@SepMark\noexpand\arabic{FB@captype}}}

```

## 7.62 flowfram-xetex-bidi.def

```

10302 \ProvidesFile{flowfram-xetex-bidi.def}[2010/07/25 v0.2 bidi adaptations for flowfram package
10303 \def\@outputdblcol{%
10304   \@nxtcol=\c@thisframe
10305   \c@curpg=\c@page
10306   \@g@tnextcol{\@nxtcol}%
10307   \if@ff@nwp@ % next flow frame starts on new page
10308     \global\@firstcolumntrue
10309     \@setcolbox\c@thisframe
10310     \if@specialpage
10311       \global\@specialpagefalse
10312       \@nameuse{ps@\@specialstyle}\relax
10313     \fi

```



```

10314 \if@twoside
10315 \ifodd\count\z@
10316 \let\@thehead\@oddhead
10317 \let\@thefoot\@oddfoot
10318 \else
10319 \let\@thehead\@evenhead
10320 \let\@thefoot\@evenfoot
10321 \fi
10322 \else
10323 \let\@thehead\@oddhead
10324 \let\@thefoot\@oddfoot
10325 \fi
10326 \@begindvi
10327 \@dynamicthehead\@dynamicthefoot
10328 \vbadness=\@M
10329 \setbox\@outputbox\vbox{\hbox to \textwidth{\@ffdo@allframes}}%
10330 \@combinedblfloats
10331 \@outputpage
10332 \advance\c@curpg by -\c@page\relax
10333 \whiledo{\c@curpg>0}{\advance\c@curpg by -1\relax
10334 \setbox\@outputbox\vbox{\hbox to \textwidth{\@ffdo@allframes}}%
10335 \@outputpage}
10336 \begingroup
10337 \dblfloatplacement
10338 \startdblcolumn
10339 \@whiles\if@colmade \fi
10340 {\@outputpage \startdblcolumn }\endgroup
10341 \@resetst@tics
10342 \@resetdyn@mics
10343 \else % still on same page, save contents of box255
10344 \global\@firstcolumnfalse
10345 \setcolbox\c@thisframe
10346 \fi
10347 \global\c@thisframe=\@nxtcol
10348 \setcol{\c@thisframe}\relax
10349 \global\@colht\vsiz
10350 }
10351 \def\@outputpage{%
10352 \begingroup
10353 \let\protect\noexpand
10354 \@resetactivechars
10355 \global\let\@if@newlist\if@newlist
10356 \global\@newlistfalse\@parboxrestore
10357 \shipout\vbox{\set@typeset@protect
10358 \aftergroup
10359 \endgroup
10360 \aftergroup
10361 \set@typeset@protect
10362 \reset@font\normalsize\normalsfcodes
10363 \let\label\@gobble

```



```

10364 \let\index\@gobble
10365 \let\glossary\@gobble
10366 \baselineskip\z@skip
10367 \lineskip\z@skip
10368 \lineskiplimit\z@
10369 \vskip\topmargin\moveright\@themargin
10370 \vbox{%
10371     \vskip\headheight
10372     \vskip\headsep
10373     \box\@outputbox
10374 }}%
10375 \global\let\if@newlist\@if@newlist
10376 \stepcounter{page}%
10377 \setcounter{displayedframe}{0}%
10378 \let\firstmark\botmark}
10379
10380
10381 \newcommand*\bidi@s@tfftextcol{\ifthenelse{\equal{\ff@txtcol}{}}{\}%
10382 \expandafter\bidicolor\ff@txtcol}}
10383
10384 \newcommand{\bidi@ff@box}[3]{\@ffbackground{\vbox to#2
10385 {\hb@xt@ #1{\hss{\bidi@s@tfftextcol #3}\hss}\vss\kern\z@}}}%
10386
10387
10388 \renewcommand*{\@docolbox}[1]{%
10389 \edef\ff@frametype{%
10390 \csname @ff@frametype@\romannumeral#1\endcsname}%
10391 \edef\ff@col{\csname @ff@col@\romannumeral#1\endcsname}%
10392 \edef\ff@txtcol{\csname @ff@txtcol@\romannumeral#1\endcsname}%
10393 \edef\ff@backcol{\csname @ff@backcol@\romannumeral#1\endcsname}%
10394 \@ff@setoffset{#1}%
10395 \rotateframe{\csname @ff@angle@\romannumeral#1\endcsname}{%
10396 \ifthenelse{\boolean{columnframe\romannumeral#1}}{\%
10397 \@ff@fbox{\csname colwidth\romannumeral#1\endcsname}%
10398 {\csname colheight\romannumeral#1\endcsname}}{\%
10399 \expandafter\box\csname column\romannumeral#1\endcsname}}{\%
10400 \csname\ff@frametype\endcsname}%
10401 }{\%
10402 \bidi@ff@box{\csname colwidth\romannumeral#1\endcsname}%
10403 {\csname colheight\romannumeral#1\endcsname}}{\%
10404 \expandafter\box\csname column\romannumeral#1\endcsname}%
10405 }}}
10406 \@ifclassloaded{book}{%
10407 \renewcommand\theequation
10408 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
10409 \renewcommand \thefigure
10410 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
10411 \renewcommand \thetable
10412 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
10413 \renewcommand \thechapter {\@arabic\c@chapter}

```



```

10414 \renewcommand \thesection {\thechapter\@SepMark\@arabic\c@section}
10415 \renewcommand \thesubsection {\thesection\@SepMark\@arabic\c@subsection}
10416 \renewcommand \thesubsubsection {\thesubsection \@SepMark\@arabic\c@subsubsection}
10417 \renewcommand \theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
10418 \renewcommand \thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}}{}
10419 \@ifclassloaded{report}{%
10420 \renewcommand \theequation
10421 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
10422 \renewcommand \thefigure
10423 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
10424 \renewcommand \thetable
10425 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
10426 \renewcommand \thechapter {\@arabic\c@chapter}
10427 \renewcommand \thesection {\thechapter\@SepMark\@arabic\c@section}
10428 \renewcommand \thesubsection {\thesection\@SepMark\@arabic\c@subsection}
10429 \renewcommand \thesubsubsection {\thesubsection \@SepMark\@arabic\c@subsubsection}
10430 \renewcommand \theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
10431 \renewcommand \thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}}{}
10432 \renewcommand{\rotateframe}[2]{\if@tbtb\rotate
10433 \rotatebox{#1}{\if@RTL\beginL\fi#2\if@RTL\endL\fi}%
10434 \else
10435 #2\relax
10436 \fi}

```

## 7.63 footnote-xetex-bidi.def

```

10437 \ProvidesFile{footnote-xetex-bidi.def}[2016/09/09 v1.0 bidi footnote macros for XeTeX engine]
10438 \if@RTLmain\@RTL@footnotetrue\else\@RTL@footnotefalse\fi
10439 \newif\ifbidi@autofootnoterule
10440 \def\bidi@mpfootnoterule{\footnoterule}
10441 \newcounter{footdir@label}
10442 \renewcommand*{\thefootdir@label}{footdir@the\value{footdir@label}}
10443 \newcommand*{\footdir@write}{%
10444 \stepcounter{footdir@label}%
10445 \zref@labelbyprops{\thefootdir@label}{abspage}%
10446 }
10447 \newif\iffootdir@debug
10448 \newcommand*{\debugfootnotedirection}{\footdir@debugtrue}
10449 \newtoks\footdir@toks
10450 \newcommand*{\footdir@debug}[1]{%
10451 \iffootdir@debug
10452 \typeout{[footdir] #1}%
10453 \fi
10454 }
10455 \@ifpackagelater{zref-abspage}{2012/10/27}{%
10456 % \newcommand*{\footdir@LeftRightElse}{%
10457 % \ltx@ifundefined{footdir@the\value{zabspage}}{%
10458 % \footdir@debug{abspage \the\value{zabspage}: else}%
10459 % \ltx@thirdofthree
10460 % }{%

```





```

10461 % \if\csname footdir@\the\value{zabspage}\endcsname L%
10462 % \footdir@debug{abspage \the\value{zabspage}: left}%
10463 % \expandafter\ltx@firstofthree
10464 % \else
10465 % \footdir@debug{abspage \the\value{zabspage}: right}%
10466 % \expandafter\ltx@secondofthree
10467 % \fi
10468 % }%
10469 % }%
10470 %}{%
10471 \providecommand*\c@zabspage{\c@abspage}%
10472 \newcommand*\footdir@LeftRightElse{%
10473 \footdir@write
10474 \zifrefundefined{\thefootdir@label}{%
10475 \footdir@debug{abspage ??: else}%
10476 \ltx@thirdofthree
10477 }{%
10478 \edef\footdir@abspage{%
10479 \zref@extractdefault{\thefootdir@label}{abspage}{0}%
10480 }%
10481 \ltx@ifundefined{footdir@\footdir@abspage}{%
10482 \footdir@debug{\footdir@abspage: else}%
10483 \ltx@thirdofthree
10484 }{%
10485 \if\csname footdir@\footdir@abspage\endcsname L%
10486 \footdir@debug{\footdir@abspage: left}%
10487 \expandafter\ltx@firstofthree
10488 \else
10489 \footdir@debug{\footdir@abspage: right}%
10490 \expandafter\ltx@secondofthree
10491 \fi
10492 }%
10493 }%
10494 }%
10495 %}
10496 \newcommand*\footdir@fntext}[1]{%
10497 \zifrefundefined{\thefootdir@label}{%
10498 }{%
10499 \edef\footdir@name{%
10500 \footdir@\zref@extractdefault{\thefootdir@label}{abspage}{0}%
10501 }%
10502 \@ifundefined{\footdir@name}{%
10503 \expandafter\gdef\csname\footdir@name\endcsname{#1}%
10504 }{}%
10505 }%
10506 }
10507
10508 \newcommand*\footdir@temp}[3]{%
10509 \@ifdefinable{#1}{%
10510 \let#1#2%

```



```

10511 \renewcommand{#2}[1]{%
10512 \footdir@write
10513 \footdir@fntext{#3}%
10514 \stepcounter{footdir@label}%
10515 \footdir@fntext{#3}%
10516 \footdir@toks{##1}%
10517 \footdir@toks\expandafter{%
10518 \the\expandafter\footdir@toks
10519 \expandafter
10520 \zref@labelbyprops\expandafter{\thefootdir@label}{abspage}%
10521 }%
10522 \expandafter#1\expandafter{\the\footdir@toks}%
10523 }%
10524 }%
10525 }
10526
10527 \def\right@footnoterule{%
10528 \kern-3\p@
10529 \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
10530 \kern2.6\p@}
10531 \def\left@footnoterule{\kern-3\p@
10532 \hrule \@width .4\columnwidth \kern 2.6\p@}
10533 \def\textwidth@footnoterule{\kern-3\p@
10534 \hrule \@width \columnwidth \kern 2.6\p@}
10535 \def\leftfootnoterule{%
10536 \bidi@autofootnoterulefalse%
10537 \def\footnoterule{\left@footnoterule}}
10538 \let\LRfootnoterule=\leftfootnoterule
10539 \def\rightfootnoterule{%
10540 \bidi@autofootnoterulefalse%
10541 \def\footnoterule{\right@footnoterule}}
10542 \def\textwidthfootnoterule{%
10543 \bidi@autofootnoterulefalse%
10544 \def\footnoterule{\textwidth@footnoterule}}
10545
10546
10547
10548 \def\auto@footnoterule{%
10549 \footdir@LeftRightElse%
10550 \left@footnoterule%
10551 \right@footnoterule%
10552 \left@footnoterule%
10553 }
10554
10555
10556
10557 \def\autofootnoterule{%
10558 \bidi@autofootnoteruletrue%
10559 \def\footnoterule{\auto@footnoterule}%
10560 }

```



```

10561
10562 \newcommand*\SplitFootnoteRule}{%
10563   \gdef\split@prev{0}
10564   \let\pagefootnoterule\footnoterule
10565   \let\mpfootnoterule\footnoterule
10566   \def\splitfootnoterule{\kern-3\p@ \hrule \kern2.6\p@}
10567   \def\footnoterule{\relax
10568     \ifx \@listdepth\@mplistdepth
10569       \mpfootnoterule
10570     \else
10571       \ifnum\split@prev=\z@
10572         \pagefootnoterule
10573       \else
10574         \splitfootnoterule
10575       \fi
10576     \xdef\split@prev{\the\insertpenalties}%
10577   \fi
10578 }%
10579 }
10580
10581
10582
10583
10584 \def\RTLfootnote{\@ifnextchar[\@xRTLfootnote{\stepcounter\@mpfn
10585   \protected@xdef\@thefnmark{\thempfn}%
10586   \@footnotemark\@RTLfootnotetext}}
10587 \def\@xRTLfootnote[#1]{%
10588   \begingroup
10589     \csname c@\@mpfn\endcsname #1\relax
10590     \unrestored@protected@xdef\@thefnmark{\thempfn}%
10591   \endgroup
10592   \@footnotemark\@RTLfootnotetext}
10593 \def\LTRfootnote{\@ifnextchar[\@xLTRfootnote{\stepcounter\@mpfn
10594   \protected@xdef\@thefnmark{\thempfn}%
10595   \@footnotemark\@LTRfootnotetext}}
10596 \def\@xLTRfootnote[#1]{%
10597   \begingroup
10598     \csname c@\@mpfn\endcsname #1\relax
10599     \unrestored@protected@xdef\@thefnmark{\thempfn}%
10600   \endgroup
10601   \@footnotemark\@LTRfootnotetext}
10602
10603
10604 \def\setfootnoteRL{\@RTL@footnotetrue}
10605 \def\unsetfootnoteRL{\@RTL@footnotefalse}
10606 \def\setfootnoteLR{\@unsetfootnoteRL}
10607
10608 \newcommand*\{bidi@footnotetext@font}{\reset@font\footnotesize}
10609 \newcommand*\{bidi@LTRfootnotetext@font}{\reset@font\footnotesize}
10610 \newcommand*\{bidi@RTLfootnotetext@font}{\reset@font\footnotesize}

```



```

10611
10612 \long\def\@footnotetext#1{\insert\footins{%
10613     \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
10614     \bidi@@footnotetext@font% \reset@font\footnotesize
10615     \interlinepenalty\interfootnotelinepenalty
10616     \splittopskip\footnotesep
10617     \splitmaxdepth \dp\strutbox \floatingpenalty \@MM
10618     \hsize\columnwidth \@parboxrestore
10619     \protected@edef\@currentlabel{%
10620         \csname p@footnote\endcsname\@thefnmark
10621     }%
10622     \color@begingroup
10623         \makefnmark{%
10624             \rule\z@{footnotesep\ignorespaces#1\@finalstrut\strutbox}%
10625         \color@endgroup}}}%
10626
10627
10628 \long\def\@RTLfootnotetext#1{\insert\footins{%
10629     \@RTLtrue%
10630     \bidi@@RTLfootnotetext@font% \reset@font\footnotesize
10631     \interlinepenalty\interfootnotelinepenalty
10632     \splittopskip\footnotesep
10633     \splitmaxdepth \dp\strutbox \floatingpenalty \@MM
10634     \hsize\columnwidth \@parboxrestore
10635     \protected@edef\@currentlabel{%
10636         \csname p@footnote\endcsname\@thefnmark
10637     }%
10638     \color@begingroup
10639         \makefnmark{%
10640             \rule\z@{footnotesep\ignorespaces#1\@finalstrut\strutbox}%
10641         \color@endgroup}}}%
10642
10643 \long\def\@LTRfootnotetext#1{\insert\footins{%
10644     \@RTLfalse%
10645     \bidi@@LTRfootnotetext@font% \reset@font\footnotesize
10646     \interlinepenalty\interfootnotelinepenalty
10647     \splittopskip\footnotesep
10648     \splitmaxdepth \dp\strutbox \floatingpenalty \@MM
10649     \hsize\columnwidth \@parboxrestore
10650     \protected@edef\@currentlabel{%
10651         \csname p@footnote\endcsname\@thefnmark
10652     }%
10653     \color@begingroup
10654         \makefnmark{%
10655             \rule\z@{footnotesep\ignorespaces#1\@finalstrut\strutbox}%
10656         \color@endgroup}}}%
10657
10658 \AtBeginDocument{%
10659 \if@RTL@footnote
10660     \newcommand*{\bidi@footdir@footnote}{R}

```



```

10661 \else
10662   \newcommand*{\bidi@footdir@footnote}{L}
10663 \fi%
10664 }
10665
10666 \footdir@temp\footdir@ORG@bidi@footnotetext\@footnotetext{\bidi@footdir@footnote}%
10667 \footdir@temp\footdir@ORG@bidi@RTLfootnotetext\@RTLfootnotetext{R}%
10668 \footdir@temp\footdir@ORG@bidi@LTRfootnotetext\@LTRfootnotetext{L}%
10669
10670 \long\def\@mpRTLfootnotetext#1{%
10671   \ifbidi@autofootnoterule\ifnum\c@mpfootnote=\@ne\global\let\bidi@mpfootnoterule\right@footnot
10672   \global\setbox\@mpfootins\vbox{\@RTLtrue%
10673     \unvbox\@mpfootins
10674     \bidi@RTLfootnotetext@font% \reset@font\footnotesize
10675     \hsize\columnwidth
10676     \@parboxrestore
10677     \protected@edef\@currentlabel
10678       {\csname p@mpfootnote\endcsname\@thefnmark}%
10679     \color@begingroup
10680     \@makefntext{%
10681       \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}%
10682     \color@endgroup}}
10683 \long\def\@mpLTRfootnotetext#1{%
10684   \ifbidi@autofootnoterule\ifnum\c@mpfootnote=\@ne\global\let\bidi@mpfootnoterule\left@footnot
10685   \global\setbox\@mpfootins\vbox{\@RTLfalse%
10686     \unvbox\@mpfootins
10687     \bidi@LTRfootnotetext@font% \reset@font\footnotesize
10688     \hsize\columnwidth
10689     \@parboxrestore
10690     \protected@edef\@currentlabel
10691       {\csname p@mpfootnote\endcsname\@thefnmark}%
10692     \color@begingroup
10693     \@makefntext{%
10694       \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}%
10695     \color@endgroup}}
10696 \long\def\@mpfootnotetext#1{%
10697   \ifbidi@autofootnoterule\ifnum\c@mpfootnote=\@ne\if@RTL@footnote\global\let\bidi@mpfootnoterule
10698   \global\setbox\@mpfootins\vbox{\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
10699     \unvbox\@mpfootins
10700     \bidi@footnotetext@font% \reset@font\footnotesize
10701     \hsize\columnwidth
10702     \@parboxrestore
10703     \protected@edef\@currentlabel
10704       {\csname p@mpfootnote\endcsname\@thefnmark}%
10705     \color@begingroup
10706     \@makefntext{%
10707       \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}%
10708     \color@endgroup}}
10709 \def\@iiminipage#1#2[#3]#4{%
10710   \leavevmode

```



```

10711 \@pboxswfalse
10712 \if@hboxRconstruct\@bidi@list@minipage@parbox@not@nobtrue\fi
10713 \if@RTL\if#1t\@bidi@list@minipage@parboxtrue\else\if#1b\@bidi@list@minipage@parboxtrue\fi\fi
10714 \setlength\@tempdima{#4}%
10715 \def\@mpargs{#{1}#{2}[#{3}#{4}]}%
10716 \setbox\@tempboxa\vbox\bgroup
10717   \color@begingroup
10718     \hsize\@tempdima
10719     \textwidth\hsize \columnwidth\hsize
10720     \@parboxrestore
10721     \def\@mpfn{\mpfootnote}\def\thempfn{\thempfootnote}\c@mpfootnote\z@
10722     \let\@footnotetext\@mpfootnotetext
10723     \let\@LTRfootnotetext\@mpLTRfootnotetext
10724     \let\@RTLfootnotetext\@mpRTLfootnotetext
10725     \let\@listdepth\@mplistdepth \@mplistdepth\z@
10726     \@minipagerestore
10727     \@setminipage}
10728 \def\endminipage{%
10729   \par
10730   \unskip
10731   \ifvoid\@mpfootins\else
10732     \vskip\skip\@mpfootins
10733     \normalcolor
10734     \bidi@mpfootnoterule
10735     \unvbox\@mpfootins
10736   \fi
10737   \@minipagefalse %% added 24 May 89
10738   \color@endgroup
10739   \egroup
10740   \expandafter\@iiiparbox\@mpargs{\unvbox\@tempboxa}}
10741 \def\LTRthanks#1{\footnotemark
10742   \protected@xdef\@thanks{\@thanks
10743     \protect\LTRfootnotetext[\the\c@footnote]{#1}}}%
10744 }
10745 \def\LTRfootnotetext{%
10746   \@ifnextchar [\@xLTRfootnotenext
10747     {\protected@xdef\@thefnmark{\thempfn}%
10748     \@LTRfootnotetext}}
10749 \def\@xLTRfootnotenext[#1]{%
10750   \begingroup
10751     \csname c@\@mpfn\endcsname #1\relax
10752     \unrestored@protected@xdef\@thefnmark{\thempfn}%
10753   \endgroup
10754   \@LTRfootnotetext}
10755 \def\RTLthanks#1{\footnotemark
10756   \protected@xdef\@thanks{\@thanks
10757     \protect\RTLfootnotetext[\the\c@footnote]{#1}}}%
10758 }
10759 \let\@thanks\@empty
10760 \def\RTLfootnotetext{%

```



```

10761 \ifnextchar [\@xRTLfootnotenext
10762 {\protected@xdef\@thefnmark{\thempfn}%
10763 \@RTLfootnotetext}}
10764 \def\@xRTLfootnotenext[#1]{%
10765 \begingroup
10766 \csname c@\@mpfn\endcsname #1\relax
10767 \unrestored@protected@xdef\@thefnmark{\thempfn}%
10768 \endgroup
10769 \@RTLfootnotetext}
10770 \leftfootnoterule

```

## 7.64 framed-xetex-bidi.def

```

10771 \ProvidesFile{framed-xetex-bidi.def}[2012/06/05 v0.3 bidi adaptations for framed package for
10772 \renewcommand\TitleBarFrame[3] [] {\begingroup
10773 \ifx\delimiter#1\delimiter
10774 \let\TF@conlab\@empty
10775 \else
10776 \def\TF@conlab{% continuation label
10777 \nointerlineskip
10778 \smash{\rlap{\kern\wd\@tempboxa\kern\fbboxrule\kern\fbboxsep #1}}}%
10779 \fi
10780 %\let\TF@savecolor\current@color
10781 \textcolor{TFFrameColor}{%
10782 \CustomFBox
10783 {\TF@Title{#2}}{\TF@conlab}%
10784 \fbboxrule\fbboxrule\fbboxrule\fbboxrule
10785 %{\let\current@color\TF@savecolor\set@color #3}%
10786 {\normalcolor #3}%
10787 }\endgroup
10788 }
10789 \renewenvironment{titled-frame}[1]{%
10790 \def\FrameCommand{\fbboxsep8pt\fbboxrule2pt
10791 \TitleBarFrame{\textbf{#1}}}%
10792 \def\FirstFrameCommand{\fbboxsep8pt\fbboxrule2pt
10793 \TitleBarFrame{$\if@RTL\blacktriangleleft\else\blacktriangleright\fi$}{\textbf{#1}}}%
10794 \def\MidFrameCommand{\fbboxsep8pt\fbboxrule2pt
10795 \TitleBarFrame{$\if@RTL\blacktriangleleft\else\blacktriangleright\fi$}{\textbf{#1\ (cont
10796 \def\LastFrameCommand{\fbboxsep8pt\fbboxrule2pt
10797 \TitleBarFrame{\textbf{#1\ (cont)}}}%
10798 \MakeFramed{\advance\hsize-20pt \FrameRestore}}%
10799 % note: 8 + 2 + 8 + 2 = 20. Don't use \width because the frame title
10800 % could interfere with the width measurement.
10801 {\endMakeFramed}
10802 \chardef\FrameRestore=\catcode`\| % for debug
10803 \catcode`\|=\catcode`\% (debug: insert space after backslash)
10804 \def\fb@put@frame#1#2{\relax
10805 \ifdim\pagegoal=\maxdimen \pagegoal\vsize \fi
10806 | \message{===== Entering putframe =====^^J
10807 | \pagegoal=\the\pagegoal, \pagetotal=\the\pagetotal. }%

```



```

10808 \ifinner
10809 \fb@putboxa#1%
10810 \fb@afterframe
10811 \else
10812 \dimen@ \pagegoal \advance \dimen@ - \pagetotal % natural space left on page
10813 \ifdim \dimen@ < 2 \baselineskip % Too little room on page
10814 | \message{Page has only \the \dimen@ space room left; eject. }%
10815 \eject \fb@adjheight \fb@put@frame#1#2%
10816 \else % there's appreciable room left on the page
10817 \fb@sizeofframe#1%
10818 | \message{\string \pagetotal = \the \pagetotal,
10819 | \string \pagegoal = \the \pagegoal,
10820 | \string \pagestretch = \the \pagestretch,
10821 | \string \pageshrink = \the \pageshrink,
10822 | \string \fb@frh = \the \fb@frh. \space}
10823 | \message{^^JBox of size \the \ht \tempboxa \space}%
10824 \begingroup % temporarily set \dimen@ to be...
10825 \advance \dimen@ .8 \pageshrink % maximum space available on page
10826 \advance \dimen@ - \fb@frh \relax % max space available for frame's contents
10827 %%% LOOKS SUBTRACTED AND ADDED, SO DOUBLE ACCOUNTING!
10828 \expandafter \endgroup
10829 % expand \ifdim, then restore \dimen@ to real room left on page
10830 \ifdim \dimen@ > \ht \tempboxa % whole box does fit
10831 | \message{fits in \the \dimen@. }%
10832 % ToDo: Change this to use vsplit anyway to capture the marks
10833 % MERGE THIS WITH THE else CLAUSE!!!
10834 \fb@putboxa#1%
10835 \fb@afterframe
10836 \else % box must be split
10837 | \message{must be split to fit in \the \dimen@. }%
10838 % update frame measurement to use \FirstFrameCommand or \MidFrameCommand
10839 \fb@sizeofframe#2%
10840 \setbox \tempboxa \vbox{% simulate frame and flexibility of the page:
10841 \vskip \fb@frh \plus \pagestretch \minus .8 \pageshrink
10842 \kern 137sp \kern -137sp \penalty -30
10843 \unvbox \tempboxa}%
10844 \edef \fb@resto@set{\boxmaxdepth \the \boxmaxdepth
10845 \splittopskip \the \splittopskip}%
10846 \boxmaxdepth \z@ \splittopskip \z@
10847 | \message{^^JPadded box of size \the \ht \tempboxa \space split to \the \dimen@}%
10848 % Split box here
10849 \setbox \tw@ \vsplit \tempboxa to \dimen@
10850 | \toks99 \expandafter {\splitfirstmark}%
10851 | \toks98 \expandafter {\splitbotmark}%
10852 | \message{Marks are: \the \toks99, \the \toks98. }%
10853 \setbox \tw@ \vbox{\unvbox \tw@}% natural-sized
10854 | \message{Natural height of split box is \the \ht \tw@, leaving
10855 | \the \ht \tempboxa \space remainder. }%
10856 % If the split to size > (\vsize - \topskip), then set box to full size.
10857 \begingroup

```





```

10858      \advance\dimen@ \topskip
10859      \expandafter\endgroup
10860      \ifdim\dimen@>\pagegoal
10861 |      \message{Frame is big -- Use up the full column. }%
10862      \dimen@ii\pagegoal
10863      \advance\dimen@ii -\topskip
10864      \advance\dimen@ii \FrameHeightAdjust\relax
10865      \else % suspect this is implemented incorrectly:
10866      % If the split-to size > feasible room_on_page, rebox it smaller.
10867      \advance\dimen@.8\pageshrink
10868      \ifdim\ht\tw@>\dimen@
10869 |      \message{Box too tall; rebox it to \the\dimen@. }%
10870      \dimen@ii\dimen@
10871      \else % use natural size
10872      \dimen@ii\ht\tw@
10873      \fi
10874      \fi
10875      % Re-box contents to desired size \dimen@ii
10876      \advance\dimen@ii -\fb@frh
10877      \setbox\tw@\vbox to\dimen@ii \bgroup
10878      % remove simulated frame and page flexibility:
10879      \vskip -\fb@frh \@plus-\pagestretch \@minus-.8\pageshrink
10880      \unvbox\tw@ \unpenalty\unpenalty
10881      \ifdim\lastkern=-137sp % whole box went to next page
10882 |      \message{box split at beginning! }%
10883      % need work here???
10884      \egroup \fb@resto@set \eject % (\vskip for frame size was discarded)
10885      \fb@adjheight
10886      \fb@put@frame#1#2% INSERTED ???
10887      \else % Got material split off at the head
10888      \egroup \fb@resto@set
10889      \ifvoid\@tempboxa % it all fit after all
10890 |      \message{box split at end! }%
10891      \setbox\@tempboxa\box\tw@
10892      \fb@putboxa#1%
10893      \fb@afterframe
10894      \else % it really did split
10895 |      \message{box split as expected. Its reboxed height is \the\ht\tw@. }%
10896      \ifdim\wd\tw@>\z@
10897      \wd\tw@\wd\@tempboxa
10898      \centerline{#2{\hboxL{\box\tw@}}}% ??? \centerline bad idea
10899      \else
10900 |      \message{Zero width means likely blank. Don't frame it (guess)}%
10901      \box\tw@
10902      \fi
10903      \hrule \@height\z@ \@width\hsize
10904      \eject
10905      \fb@adjheight
10906      \fb@put@frame\LastFrameCommand\MidFrameCommand
10907      \fi\fi\fi\fi\fi

```



```

10908 }
10909 \def\fb@putboxa#1{%
10910   \ifvoid\@tempboxa
10911     \PackageWarning{framed}{Boxa is void -- discard it. }%
10912   \else
10913     \message{Frame and place boxa. }%
10914     %{\showoutput\showbox\@tempboxa}%
10915     \centerline{#1{\hboxL{\box\@tempboxa}}}%
10916   \fi
10917 }
10918 \catcode`\|=\FrameRestore
10919 \def\FrameRestore{%
10920   \let\if@nobreak\iffalse
10921   \let\if@noskipsec\iffalse
10922   \let\-\@dischyph
10923   \let\'\@acci\let\`\@accii\let\=\@acciii
10924   % \message{FrameRestore:
10925   %   \@totalleftmargin=\the \@totalleftmargin,
10926   %   \rightmargin=\the\rightmargin,
10927   %   \@listdepth=\the\@listdepth. }%
10928   % Test if we are in a list (or list-like paragraph)
10929   \ifnum \ifdim\@totalleftmargin>\z@ 1\fi
10930     \ifdim\rightmargin>\z@ 1\fi
10931     \ifnum\@listdepth>\z@ 1\fi 0>\z@
10932     % \message{In a list: \linewidth=\the\linewidth, \@totalleftmargin=\the\@totalleftma
10933     %   \parshape=\the\parshape, \columnwidth=\the\columnwidth, \hsize=\the\hsize,
10934     %   \labelwidth=\the\labelwidth. }%
10935     \@setminipage % snug fit around the item
10936     % Now try to propagate changes of width from \hsize to list parameters.
10937     % This is deficient, but a more advanced way to indicate modification to text
10938     % dimensions is not (yet) provided; in particular, no separate left/right
10939     % adjustment.
10940     \advance\linewidth-\columnwidth \advance\linewidth\hsize
10941     \parshape\@ne \@totalleftmargin \linewidth
10942   \else % Not in list
10943     \linewidth=\hsize
10944     %\message{No list, set \string\linewidth=\the\hsize. }%
10945   \fi
10946   \sloppy
10947 }

```

## 7.65 ftnright-xetex-bidi.def

```

10948 \ProvidesFile{ftnright-xetex-bidi.def}[2016/05/10 v0.4 bidi adaptations for ftnright package
10949
10950 \def\LTR@outputdblcol{%
10951   \if@firstcolumn
10952     \global\@firstcolumnfalse
10953     \global\setbox\@leftcolumn\copy\@outputbox
10954     \global\count\footins\@m

```



```

10955 \global\skip\footins\rcol@footinsskip
10956 \splitmaxdepth\maxdimen
10957 \vbadness\maxdimen
10958 \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
10959 \setbox\@outputbox\vsplit\@outputbox to\maxdimen
10960 \toks@\expandafter{\topmark}%
10961 \xdef\@firstcoltopmark{\the\toks@}%
10962 \toks@\expandafter{\splitfirstmark}%
10963 \xdef\@firstcolfirstmark{\the\toks@}%
10964 \ifx\@firstcolfirstmark\@empty
10965 \global\let\@setmarks\relax
10966 \else
10967 \gdef\@setmarks{%
10968 \let\firstmark\@firstcolfirstmark
10969 \let\topmark\@firstcoltopmark}%
10970 \fi
10971 \else
10972 \preparefootins
10973 \global\@firstcolumntrue
10974 \setbox\@outputbox\vbox{%
10975 \hb@xt@\textwidth{%
10976 \hb@xt@\columnwidth{\box\@leftcolumn \hss}%
10977 \hfil
10978 {\normalcolor\vrule \@width\columnseprule}%
10979 \hfil
10980 \hb@xt@\columnwidth{\box\@outputbox \hss}}}%
10981 \@combinedblfloats
10982 \@setmarks
10983 \@outputpage
10984 \begingroup
10985 \@dblfloatplacement
10986 \@startdblcolumn
10987 \@whiles\if@colmade \fi{\@outputpage
10988 \@startdblcolumn}%
10989 \endgroup
10990 \fi}%
10991
10992
10993
10994 \def\RTL@outputdblcol{%
10995 \if@firstcolumn
10996 \global\@firstcolumnfalse
10997 \global\setbox\@leftcolumn\copy\@outputbox
10998 \global\count\footins\@m
10999 \global\skip\footins\rcol@footinsskip
11000 \splitmaxdepth\maxdimen
11001 \vbadness\maxdimen
11002 \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
11003 \setbox\@outputbox\vsplit\@outputbox to\maxdimen
11004 \toks@\expandafter{\topmark}%

```





```

11052 \Grot@setangle{#1}%
11053 \setbox\z@\hbox{\ifmmode\if@RTL\beginR\fi#2\if@RTL\endR\fi\else\if@RTL\beginR\fi#2\if@RTL\endR\fi}%
11054 \Grot@x\z@
11055 \Grot@y\z@
11056 \Grot@box\ifmmode\else\if@RTL\endL\fi\fi}
11057 \long\def\Gscale@box#1[#2]#3{\ifmmode\else\if@RTL\beginL\fi\fi%
11058 \leavevmode
11059 \def\Gscale@x{#1}\def\Gscale@y{#2}%
11060 \setbox\z@\hbox{{#3}}%
11061 \setbox\tw@\hbox{\Gscale@start\rlap{\copy\z@}\Gscale@end}%
11062 \ifdim#2\p<\z@
11063 \ht\tw@-#2\dp\z@
11064 \dp\tw@-#2\ht\z@
11065 \else
11066 \ht\tw@#2\ht\z@
11067 \dp\tw@#2\dp\z@
11068 \fi
11069 \ifdim#1\p<\z@
11070 \hb@xt@-#1\wd\z@{\kern-#1\wd\z@\box\tw@\hss}%
11071 \else
11072 \wd\tw@#1\wd\z@
11073 \box\tw@
11074 \fi\ifmmode\else\if@RTL\endL\fi\fi}
11075 \def\Gin@iii[#1,#2][#3,#4]#5{%
11076 \begingroup
11077 \ifmmode\else\if@RTL\beginL\fi\fi
11078 \Gin@bboxtrue
11079 \Gin@defaultbp\Gin@llx{#1}%
11080 \Gin@defaultbp\Gin@lly{#2}%
11081 \Gin@defaultbp\Gin@urx{#3}%
11082 \Gin@defaultbp\Gin@ury{#4}%
11083 \Gin@include@graphics{#5}%
11084 \ifmmode\else\if@RTL\endL\fi\fi
11085 \endgroup}
11086 \def\Gin@ii[#1]#2{%
11087 \def\@tempa{[]}\def\@tempb{#2}%
11088 \ifx\@tempa\@tempb
11089 \def\@tempa{\Gin@iii[#1] []}%
11090 \expandafter\@tempa
11091 \else
11092 \begingroup
11093 \ifmmode\else\if@RTL\beginL\fi\fi
11094 \@tempswafalse
11095 \toks@{\Gin@include@graphics{#2}}%
11096 \setkeys{Gin}{#1}%
11097 \Gin@esetsize
11098 \the\toks@
11099 \ifmmode\else\if@RTL\endL\fi\fi
11100 \endgroup
11101 \fi}

```



```

11102 \def\reflectbox{\bidiGscale@box-1[1]}
11103 \long\def\bidiGscale@box#1[#2]#3{\ifmmode\else\if@RTL\beginL\fi\fi%
11104   \leavevmode
11105   \def\Gscale@x{#1}\def\Gscale@y{#2}%
11106   \setbox\z@\hbox{\ifmmode\if@RTL\beginR\fi#3\if@RTL\endR\fi\else\if@RTL\beginR\fi#3\if@RTL\endR\fi}%
11107   \setbox\tw@\hbox{\Gscale@start\rlap{\copy\z@}\Gscale@end}%
11108   \ifdim#2\p@<\z@
11109     \ht\tw@-#2\dp\z@
11110     \dp\tw@-#2\ht\z@
11111   \else
11112     \ht\tw@#2\ht\z@
11113     \dp\tw@#2\dp\z@
11114   \fi
11115   \ifdim#1\p@<\z@
11116     \hb@xt@-#1\wd\z@{\kern-#1\wd\z@\box\tw@\hss}%
11117   \else
11118     \wd\tw@#1\wd\z@
11119     \box\tw@
11120   \fi\ifmmode\else\if@RTL\endL\fi\fi}
11121 \def\scalebox#1{%
11122   \@ifnextchar[{\bidiGscale@box{#1}}{\bidiGscale@box{#1}[#1]}%
11123 \def\resizebox{%
11124   \leavevmode
11125   \@ifstar{\bidiGscale@@box\totalheight}{\bidiGscale@@box\height}}
11126 \def\bidiGscale@@box#1#2#3{%
11127   \let\@tempa\Gin@exclamation
11128   \expandafter\def\expandafter\@tempb\expandafter{\string#2}%
11129   \expandafter\def\expandafter\@tempc\expandafter{\string#3}%
11130   \ifx\@tempb\@tempa
11131     \ifx\@tempc\@tempa
11132       \toks@{\mbox}%
11133     \else
11134       \toks@{\bidiGscale@box@dd{#3}#1}%
11135     \fi
11136   \else
11137     \ifx\@tempc\@tempa
11138       \toks@{\bidiGscale@box@dd{#2}\width}%
11139     \else
11140       \toks@{\bidiGscale@box@ddd{#2}\width{#3}#1}%
11141     \fi
11142   \fi
11143   \the\toks@}
11144 \long\def\bidiGscale@box@dd#1#2#3{%
11145   \@begin@tempboxa\hbox{\ifmmode\if@RTL\beginR\fi#3\if@RTL\endR\fi\else\if@RTL\beginR\fi#3\if@RTL\endR\fi}%
11146   \setlength\@tempdima{#1}%
11147   \setlength\@tempdimb{#2}%
11148   \Gscale@div\@tempa\@tempdima\@tempdimb
11149   \Gscale@box\@tempa[\@tempa]{\box\@tempboxa}%
11150   \@end@tempboxa}
11151 \long\def\bidiGscale@box@ddd#1#2#3#4#5{%

```



```

11152 \@begin@tempboxa\hbox{\ifmmode\if@RTL\beginR\fi#5\if@RTL\endR\fi\else\if@RTL\beginR\fi#5\if
11153 \setlength\@tempdima{#1}%
11154 \setlength\@tempdimb{#2}%
11155 \Gscale@div\@tempa\@tempdima\@tempdimb
11156 \setlength\@tempdima{#3}%
11157 \setlength\@tempdimb{#4}%
11158 \Gscale@div\@tempb\@tempdima\@tempdimb
11159 \ifGin@iso
11160 \ifdim\@tempa\p@>\@tempb\p@
11161 \let\@tempa\@tempb
11162 \else
11163 \let\@tempb\@tempa
11164 \fi
11165 \fi
11166 \Gscale@box\@tempa[\@tempb]{\box\@tempboxa}%
11167 \@end@tempboxa}

```

## 7.67 geometry-xetex-bidi.def

```

11168 \ProvidesFile{geometry-xetex-bidi.def}[2017/01/14 v0.2 bidi adaptations for geometry package]
11169 \renewcommand*{\Gm@vrules@mpi}{%
11170 \if@RTLmain%
11171 \hb@xt@\@tempdima{\hskip-\marginparwidth\hskip-\marginparsep
11172 \llap{\Gm@vrule}\ignorespaces
11173 \hskip \marginparwidth\rlap{\Gm@vrule}\hskip \marginparsep
11174 \llap{\Gm@vrule}\hskip\textwidth\rlap{\Gm@vrule}\hss}%
11175 \else%
11176 \hb@xt@\@tempdima{\llap{\Gm@vrule}\ignorespaces
11177 \hskip \textwidth\Gm@vrule\hskip \marginparsep
11178 \llap{\Gm@vrule}\hfil\Gm@vrule}\fi}%
11179 \renewcommand*{\Gm@vrules@mpii}{%
11180 \if@RTLmain%
11181 \hb@xt@\@tempdima{\llap{\Gm@vrule}\ignorespaces
11182 \hskip \textwidth\Gm@vrule\hskip \marginparsep
11183 \llap{\Gm@vrule}\hfil\Gm@vrule}%
11184 \else%
11185 \hb@xt@\@tempdima{\hskip-\marginparwidth\hskip-\marginparsep
11186 \llap{\Gm@vrule}\ignorespaces
11187 \hskip \marginparwidth\rlap{\Gm@vrule}\hskip \marginparsep
11188 \llap{\Gm@vrule}\hskip\textwidth\rlap{\Gm@vrule}\hss}\fi}%
11189 \bidi@patchcmd{\Gm@pageframes}{%
11190 \ifodd\count\z@
11191 \let\@themargin\oddsidemargin
11192 \else
11193 \let\@themargin\evensidemargin
11194 \fi
11195 }{%
11196 \ifodd\count\z@
11197 \if@RTLmain
11198 \let\@themargin\evensidemargin

```



```

11199         \else
11200             \let\@themargin\oddsidemargin
11201         \fi
11202     \else
11203         \if@RTLmain
11204             \let\@themargin\oddsidemargin
11205         \else
11206             \let\@themargin\evensidemargin
11207         \fi
11208     \fi
11209 }{}{}

```

## 7.68 hvfloat-xetex-bidi.def

```

11210 \ProvidesFile{hvfloat-xetex-bidi.def}[2012/04/18 v0.2 bidi adaptations for hvfloat package fo
11211 \def\do@hvFloat[#1]#2#3{%
11212 \def\hv@shortCap{#1}
11213 \def\hv@longCap{#2}
11214 \def\hv@label{#3}
11215 %\newcommand*{\hvFloat}[5][]{%
11216 % [#1]: keyvalues
11217 % #2: type figure | table | ...
11218 % #3: float contents
11219 % [#4]: short caption
11220 % #5: caption
11221 % #6: label
11222 % \setDefault%
11223 % \def\@tempa{#1}%
11224 % \ifx\@tempa\empty\else\setkeys{hvSet}{#1}\fi% set options, only when not empty
11225 % \def\@tempa{90}%
11226 % \ifx\hvSet@rotAngle\@tempa \setlength{\hvMaxCapWidth}{\textheight}
11227 % \else \setlength{\hvMaxCapWidth}{\linewidth}
11228 % \fi
11229 %
11230 % First we save the object in \hvObjectBox
11231 %
11232 % \ifx\hvSet@objectAngle\hv@Zero % rotate the object?
11233 % \savebox{\hvObjectBox}{\ifhv@useOBox\usebox{\hvOBox}\else\hv@floatObject\fi}
11234 % \else
11235 % \savebox{\hvObjectBox}{%
11236 % \rotatebox{\hvSet@objectAngle}{%
11237 % \ifhv@useOBox\usebox{\hvOBox}\else\hv@floatObject\fi}}
11238 % \fi
11239 % \setlength{\hvObjectWidth}{\wd\hvObjectBox}
11240 %
11241 % Now we save the caption with its defined \hvCapWidth
11242 %
11243 % \ifx\hvSet@capWidth\hv@Width\setlength{\hvCapWidth}{\hvObjectWidth}
11244 % \else
11245 % \ifx\hvSet@capWidth\hv@Height\setlength{\hvCapWidth}{\ht\hvObjectBox}

```





```

11246 \else
11247 \setlength{\hvCapWidth}{\hvObjectWidth}
11248 \ifx\hvSet@capPos\hv@Left\addtolength{\hvMaxCapWidth}{-\hvObjectWidth}\fi
11249 \ifx\hvSet@capPos\hv@Right\addtolength{\hvMaxCapWidth}{-\hvObjectWidth}\fi
11250 \ifdim\hvSet@capWidth\columnwidth<\hvMaxCapWidth
11251 \setlength{\hvCapWidth}{\hvSet@capWidth\columnwidth}
11252 \else
11253 \setlength{\hvCapWidth}{\hvMaxCapWidth}
11254 \fi
11255 \fi
11256 \fi
11257 %
11258 % now we have the object and the caption with the right
11259 % rotated angles saved in boxes
11260 %
11261 \def\fps@figure{\hvSet@floatPos}
11262 \ifhv@nonFloat\begin{group}% Start the nonfloat part
11263 \else \begin{\hv@floatType}% Start the floating environment
11264 \fi%
11265 \saveCaptionSkip% we put this space ourselves
11266 \ifx\hvSet@capAngle\hv@Width % need rotation?
11267 \sbox{\hvCaptionBox}{%
11268 \begin{minipage}[b]{\hvCapWidth}% minipage, to get hyphenation
11269 \ifhv@nonFloat%
11270 \ifhv@onlyText#2%
11271 \else%
11272 \ifx\hv@floatType\hv@figure
11273 \ifx\relax#1\relax \figcaption{#2}\else\figcaption[1]{#2}\fi
11274 \else
11275 \ifx\relax#1\relax \tabcaption{#2}\else\tabcaption[1]{#2}\fi%
11276 \fi
11277 \fi
11278 \else\ifx\relax\hv@shortCap\relax\caption{#2}\else\caption[1]{#2}\fi%
11279 \fi%
11280 \label{#3}%
11281 \end{minipage}%
11282 }%
11283 \else%
11284 \sbox{\hvCaptionBox}{%
11285 \rotatebox{\hvSet@capAngle}{%
11286 \begin{minipage}[b]{\hvCapWidth}% minipage, to get hyphenation
11287 \ifhv@nonFloat%
11288 \ifhv@onlyText#2%
11289 \else%
11290 \ifx\hv@floatType\hv@figure
11291 \ifx\relax#1\relax \figcaption{#2}\else\figcaption[1]{#2}\fi
11292 \else
11293 \ifx\relax#1\relax \tabcaption{#2}\else\tabcaption[1]{#2}\fi%
11294 \fi
11295 \fi

```



```

11296 \else\ifx\relax\hv@shortCap\relax\caption{#2}\else\caption[#1]{#2}\fi%
11297     \fi%
11298     \label{#3}%
11299     \end{minipage}%
11300 }%
11301 }%
11302 \fi%
11303 %%
11304 \restoreCaptionSkip% save old values
11305 \ifx\hvSet@objectPos\hv@Right\bidiraggedleft%
11306 \else%
11307     \ifx\hvSet@objectPos\hv@Center
11308         \ifhv@nonFloat\hspace*{\fill}\else\centering\fi%
11309     \fi%
11310 \fi%
11311 %
11312 % to rotate object and caption together, we save all in another box
11313 % the caption comes first, if its on the left or the top
11314 %
11315 \savebox{\@tempboxa}{%
11316     \ifx\hvSet@capPos\hv@Left % caption on left side
11317 \ifRTL%
11318 \ifx\hvSet@capVPos\hv@Center%
11319 \ifhv@fbox
11320 \fbox{\parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}}
11321 \else
11322 \parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}
11323 \fi%
11324 \hspace{\hvSet@floatCapSep pt}%
11325 \ifhv@fbox
11326 \fbox{\parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}}%
11327 \else
11328 \parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}
11329 \fi%
11330 \else%
11331 \ifx\hvSet@capVPos\hv@Top
11332 \ifhv@fbox
11333 \fbox{\raisebox{-\height}{\usebox{\hvObjectBox}}}%
11334 \else
11335 \raisebox{-\height}{\usebox{\hvObjectBox}}%
11336 \fi%
11337 \hspace{\hvSet@floatCapSep pt}%
11338 \ifhv@fbox
11339 \fbox{\raisebox{-\height}{\usebox{\hvCaptionBox}}}%
11340 \else
11341 \raisebox{-\height}{\usebox{\hvCaptionBox}}%
11342 \fi
11343 \else
11344 \ifhv@fbox
11345 \fbox{\usebox{\hvObjectBox}}%

```



```

11346 \else
11347 \usebox{\hvObjectBox}%
11348 \fi
11349 \hspace{\hvSet@floatCapSep pt}%
11350 \ifhv@fbox
11351 \fbox{\usebox{\hvCaptionBox}}%
11352 \else
11353 \usebox{\hvCaptionBox}%
11354 \fi%
11355 \fi%
11356 \fi%
11357 \else% not RTL
11358 \ifx\hvSet@capVPos\hv@Center%
11359 \ifhv@fbox\fbbox{\parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}}%
11360 \else \parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}%
11361 \fi%
11362 \hspace{\hvSet@floatCapSep pt}% capfloatsep
11363 \ifhv@fbox\fbbox{\parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}}
11364 \else \parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}
11365 \fi%
11366 \else%
11367 \ifx\hvSet@capVPos\hv@Top % caption at top
11368 \ifhv@fbox\fbbox{\raisebox{-\height}{\usebox{\hvCaptionBox}}}%
11369 \else \raisebox{-\height}{\usebox{\hvCaptionBox}}%
11370 \fi
11371 \hspace{\hvSet@floatCapSep pt}% capfloatsep
11372 \ifhv@fbox\fbbox{\raisebox{-\height}{\usebox{\hvObjectBox}}}
11373 \else \raisebox{-\height}{\usebox{\hvObjectBox}}
11374 \fi%
11375 \else% caption on bottom
11376 \ifhv@fbox\fbbox{\usebox{\hvCaptionBox}}
11377 \else\usebox{\hvCaptionBox}
11378 \fi%
11379 \hspace{\hvSet@floatCapSep pt}%
11380 \ifhv@fbox\fbbox{\usebox{\hvObjectBox}}
11381 \else \usebox{\hvObjectBox}
11382 \fi%
11383 \fi%
11384 \fi% end of RTL
11385 \fi%
11386 \else
11387 \ifx\hvSet@capPos\hv@Top
11388 \ifdim\wd\hvCaptionBox>\wd\hvObjectBox
11389 \begin{minipage}{\wd\hvCaptionBox}
11390 \else
11391 \begin{minipage}{\wd\hvObjectBox}
11392 \fi
11393 \centering
11394 \ifhv@fbox
11395 \fbox{\usebox{\hvCaptionBox}}\[\hvBelowCaptionSkip]

```



```

11396 \fbox{\usebox{\hvObjectBox}}
11397 \else
11398 \usebox{\hvCaptionBox}\[\hvBelowCaptionSkip]
11399 \usebox{\hvObjectBox}
11400 \fi%
11401 \end{minipage}
11402 \else
11403 \ifx\hvSet@capPos\hv@Bottom
11404 \ifdim\wd\hvCaptionBox>\wd\hvObjectBox
11405 \begin{minipage}{\wd\hvCaptionBox}
11406 \else
11407 \begin{minipage}{\wd\hvObjectBox}
11408 \fi
11409 \centering
11410 \ifhv@fbox
11411 \fbox{\usebox{\hvObjectBox}}\[\hvAboveCaptionSkip]
11412 \fbox{\usebox{\hvCaptionBox}}
11413 \else
11414 \usebox{\hvObjectBox}\[\hvAboveCaptionSkip]
11415 \usebox{\hvCaptionBox}
11416 \fi%
11417 \end{minipage}
11418 \else% the last option: put the caption on the right
11419 \if@RTL%
11420 \ifx\hvSet@capVPos\hv@Center%
11421 \ifhv@fbox\fbox{\parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}}%
11422 \else \parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}%
11423 \fi%
11424 \hspace{\hvSet@floatCapSep pt}% capfloatsep
11425 \ifhv@fbox\fbox{\parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}}%
11426 \else \parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}
11427 \fi%
11428 \else%
11429 \ifx\hvSet@capVPos\hv@Top % caption at top
11430 \ifhv@fbox\fbox{\raisebox{-\height}{\usebox{\hvCaptionBox}}}%
11431 \else \raisebox{-\height}{\usebox{\hvCaptionBox}}%
11432 \fi
11433 \hspace{\hvSet@floatCapSep pt}% capfloatsep
11434 \ifhv@fbox\fbox{\raisebox{-\height}{\usebox{\hvObjectBox}}}%
11435 \else \raisebox{-\height}{\usebox{\hvObjectBox}}%
11436 \fi%
11437 \else% caption on bottom
11438 \ifhv@fbox\fbox{\usebox{\hvCaptionBox}}
11439 \else\usebox{\hvCaptionBox}
11440 \fi%
11441 \hspace{\hvSet@floatCapSep pt}%
11442 \ifhv@fbox\fbox{\usebox{\hvObjectBox}}
11443 \else \usebox{\hvObjectBox}
11444 \fi%
11445 \fi%

```



```

11446 \fi%
11447 \else% not RTL
11448 \ifx\hvSet@capVPos\hv@Center%
11449 \ifhv@fbox
11450 \fbox{\parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}}
11451 \else
11452 \parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}
11453 \fi%
11454 \hspace{\hvSet@floatCapSep pt}%
11455 \ifhv@fbox
11456 \fbox{\parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}}%
11457 \else
11458 \parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}
11459 \fi%
11460 \else%
11461 \ifx\hvSet@capVPos\hv@Top
11462 \ifhv@fbox
11463 \fbox{\raisebox{-\height}{\usebox{\hvObjectBox}}}%
11464 \else
11465 \raisebox{-\height}{\usebox{\hvObjectBox}}%
11466 \fi%
11467 \hspace{\hvSet@floatCapSep pt}%
11468 \ifhv@fbox
11469 \fbox{\raisebox{-\height}{\usebox{\hvCaptionBox}}}%
11470 \else
11471 \raisebox{-\height}{\usebox{\hvCaptionBox}}%
11472 \fi
11473 \else
11474 \ifhv@fbox
11475 \fbox{\usebox{\hvObjectBox}}%
11476 \else
11477 \usebox{\hvObjectBox}%
11478 \fi
11479 \hspace{\hvSet@floatCapSep pt}%
11480 \ifhv@fbox
11481 \fbox{\usebox{\hvCaptionBox}}%
11482 \else
11483 \usebox{\hvCaptionBox}%
11484 \fi%
11485 \fi%
11486 \fi
11487 \fi% end of RTL
11488 \fi
11489 \fi
11490 \fi
11491 }% End savebox Object and caption
11492 %
11493 % now we rotate the object and caption, if needed
11494 %
11495 \ifx\hvSet@rotAngle\hv@Zero

```



```

11496 \usebox{\@tempboxa}
11497 \else
11498 \rotatebox{\hvSet@rotAngle}{\usebox{\@tempboxa}}
11499 \fi
11500 \ifhv@nonFloat
11501 \ifx\hvSet@objectPos\hv@Center
11502 \ifhv@nonFloat
11503 \hspace{\fill}
11504 \fi
11505 \fi
11506 \endgroup% End the nonfloat part
11507 \else
11508 \end{\hv@floatType}% End the floating environment
11509 \fi
11510 }

```

## 7.6g hyperref-xetex-bidi.def

```

11511 \ProvidesFile{hyperref-xetex-bidi.def}[2015/11/26 v0.9 bidi adaptations for hyperref package]
11512 \AtBeginDocument{%
11513 \def\contentsline#1#2#3#4{%
11514 \ifx\#4\%
11515 \csname l@#1\endcsname{#2}{#3}%
11516 \else
11517 \ifcase\Hy@linktoc % none
11518 \csname l@#1\endcsname{#2}{#3}%
11519 \or % section
11520 \csname l@#1\endcsname{%
11521 \hyper@linkstart{link}{#4}{\if@RTL\beginR\fi#2\if@RTL\endR\fi}\hyper@linkend
11522 }{#3}%
11523 \or % page
11524 \csname l@#1\endcsname{#2}{#3}%
11525 \hyper@linkstart{link}{#4}{#3}\hyper@linkend
11526 }%
11527 \else % all
11528 \csname l@#1\endcsname{%
11529 \hyper@linkstart{link}{#4}{\if@RTL\beginR\fi#2\if@RTL\endR\fi}\hyper@linkend
11530 }{#3}%
11531 \hyper@linkstart{link}{#4}{#3}\hyper@linkend
11532 }%
11533 \fi
11534 \fi
11535 }
11536 \ifHy@hyperfootnotes
11537 \let\H@@footnotetext\@footnotetext
11538 \let\HRTL@RTLfootnotetext\@RTLfootnotetext
11539 \let\HLTR@LTRfootnotetext\@LTRfootnotetext
11540 \def\@xfootnotenext[#1]{%
11541 \begingroup
11542 \csname c@#1\endcsname #1\relax

```



```

11543     \unrestored@protected@xdef\@thefnmark{\thempfn}%
11544 \endgroup
11545 \ifx\@footnotetext\@mpfootnotetext
11546     \expandafter\H@\@mpfootnotetext
11547 \else
11548     \expandafter\H@\@footnotetext
11549 \fi
11550 }%
11551 \def\@xRTLfootnotenext[#1]{%
11552 \begingroup
11553     \csname c@\@mpfn\endcsname #1\relax
11554     \unrestored@protected@xdef\@thefnmark{\thempfn}%
11555 \endgroup
11556 \ifx\@RTLfootnotetext\@mpRTLfootnotetext
11557     \expandafter\HRTL@\@mpRTLfootnotetext
11558 \else
11559     \expandafter\HRTL@\@RTLfootnotetext
11560 \fi
11561 }%
11562 \def\@xLTRfootnotenext[#1]{%
11563 \begingroup
11564     \csname c@\@mpfn\endcsname #1\relax
11565     \unrestored@protected@xdef\@thefnmark{\thempfn}%
11566 \endgroup
11567 \ifx\@LTRfootnotetext\@mpLTRfootnotetext
11568     \expandafter\HLTR@\@mpLTRfootnotetext
11569 \else
11570     \expandafter\HLTR@\@LTRfootnotetext
11571 \fi
11572 }%
11573 \def\@xfootnotemark[#1]{%
11574 \begingroup
11575     \c@footnote #1\relax
11576     \unrestored@protected@xdef\@thefnmark{\thefootnote}%
11577 \endgroup
11578 \H@\@footnotemark
11579 }%
11580 \let\H@\@mpfootnotetext\@mpfootnotetext
11581 \let\HRTL@\@mpRTLfootnotetext\@mpRTLfootnotetext
11582 \let\HLTR@\@mpLTRfootnotetext\@mpLTRfootnotetext
11583 \long\def\@mpfootnotetext#1{%
11584 \H@\@mpfootnotetext{%
11585     \ifHy@nesting
11586         \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
11587     \else
11588         \Hy@raisedlink{%
11589             \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
11590         }#1%
11591     \fi
11592 }%

```



```

11593 }%
11594 \long\def\@mpRTLfootnotetext#1{%
11595   \HRTL@mpRTLfootnotetext{%
11596     \ifHy@nesting
11597       \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
11598     \else
11599       \Hy@raisedlink{%
11600         \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
11601       }#1%
11602     \fi
11603   }%
11604 }%
11605 \long\def\@mpLTRfootnotetext#1{%
11606   \HLTR@mpLTRfootnotetext{%
11607     \ifHy@nesting
11608       \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
11609     \else
11610       \Hy@raisedlink{%
11611         \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
11612       }#1%
11613     \fi
11614   }%
11615 }%
11616 \long\def\@footnotetext#1{%
11617   \H@@footnotetext{%
11618     \ifHy@nesting
11619       \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
11620     \else
11621       \Hy@raisedlink{%
11622         \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
11623       }%
11624       \let\@currentHlabel\Hy@footnote@currentHlabel
11625       \let\@currentHref\Hy@footnote@currentHref
11626       \let\@currentlabelname\@empty
11627       #1%
11628     \fi
11629   }%
11630 }%
11631 \long\def\@RTLfootnotetext#1{%
11632   \HRTL@RTLfootnotetext{%
11633     \ifHy@nesting
11634       \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
11635     \else
11636       \Hy@raisedlink{%
11637         \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
11638       }%
11639       \let\@currentHlabel\Hy@footnote@currentHlabel
11640       \let\@currentHref\Hy@footnote@currentHref
11641       \let\@currentlabelname\@empty
11642       #1%

```





```

11643     \fi
11644   }%
11645 }%
11646 \long\def\@LTRfootnotetext#1{%
11647   \HLTR@@LTRfootnotetext{%
11648     \ifHy@nesting
11649       \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
11650     \else
11651       \Hy@raisedlink{%
11652         \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
11653       }%
11654       \let\@currentHlabel\Hy@footnote@currentHlabel
11655       \let\@currentHref\Hy@footnote@currentHref
11656       \let\@currentlabelname\@empty
11657       #1%
11658     \fi
11659   }%
11660 }%
11661 \@ifpackageloaded{tabularx}{%
11662   \let\HyOrg@TX@endtabularx\TX@endtabularx
11663   \def\Hy@tabularx@hook{%
11664     \let\@footnotetext\H@@footnotetext
11665     \let\@LTRfootnotetext\HLTR@@LTRfootnotetext
11666     \let\@RTLfootnotetext\HRTL@@RTLfootnotetext
11667     \let\@footnotemark\H@@footnotemark
11668     \let\@mpfootnotetext\H@@mpfootnotetext
11669     \let\@mpLTRfootnotetext\HLTR@@mpLTRfootnotetext
11670     \let\@mpRTLfootnotetext\HRTL@@mpRTLfootnotetext
11671   }%
11672   \begingroup
11673     \toks@\expandafter{\TX@endtabularx}%
11674     \xdef\Hy@gtemp{%
11675       \noexpand\Hy@tabularx@hook
11676       \the\toks@
11677     }%
11678   \endgroup
11679   \let\TX@endtabularx\Hy@gtemp
11680 }{}%
11681 \@ifpackageloaded{longtable}{%
11682   \CheckCommand*\LT@p@LTRftntext}[1]{%
11683     \edef\@tempa{%
11684       \the\LT@p@ftn
11685       \noexpand\LTRfootnotetext[\the\c@footnote]%
11686     }%
11687     \global\LT@p@ftn\expandafter{\@tempa{#1}}%
11688   }%
11689   \long\def\LT@p@LTRftntext#1{%
11690     \edef\@tempa{%
11691       \the\LT@p@ftn
11692     }%

```



```

11693         \noexpand\c@footnote=\the\c@footnote\relax
11694         \noexpand\protected@xdef\noexpand\@thefnmark{%
11695             \noexpand\thempfn
11696         }%
11697         \noexpand\Hy@LT@LTRfootnotetext{%
11698             \Hy@footnote@currentHref
11699         }%
11700     }%
11701     \global\LT@p@ftn\expandafter{%
11702         \@tempa{#1}%
11703     \endgroup
11704 }%
11705 }%
11706 \long\def\Hy@LT@LTRfootnotetext#1#2{%
11707     \HLTR@@LTRfootnotetext{%
11708         \ifHy@nesting
11709             \hyper@@anchor{#1}{#2}%
11710         \else
11711             \Hy@raisedlink{%
11712                 \hyper@@anchor{#1}{\relax}%
11713             }%
11714             \def\@currentHref{#1}%
11715             \let\@currentlabelname\@empty
11716             #2%
11717         \fi
11718     }%
11719 }%
11720 \CheckCommand*{\LT@p@RTLftntext}[1]{%
11721     \edef\@tempa{%
11722         \the\LT@p@ftn
11723         \noexpand\RTLfootnotetext[\the\c@footnote]%
11724     }%
11725     \global\LT@p@ftn\expandafter{\@tempa{#1}}%
11726 }%
11727 \long\def\LT@p@RTLftntext#1{%
11728     \edef\@tempa{%
11729         \the\LT@p@ftn
11730     \begingroup
11731         \noexpand\c@footnote=\the\c@footnote\relax
11732         \noexpand\protected@xdef\noexpand\@thefnmark{%
11733             \noexpand\thempfn
11734         }%
11735         \noexpand\Hy@LT@RTLfootnotetext{%
11736             \Hy@footnote@currentHref
11737         }%
11738     }%
11739     \global\LT@p@ftn\expandafter{%
11740         \@tempa{#1}%
11741     \endgroup
11742 }%

```



```

11743 }%
11744 \long\def\Hy@LT@RTLfootnotetext#1#2{%
11745   \HRTL@RTLfootnotetext{%
11746     \ifHy@nesting
11747       \hyper@@anchor{#1}{#2}%
11748     \else
11749       \Hy@raisedlink{%
11750         \hyper@@anchor{#1}{\relax}%
11751       }%
11752       \def\@currentHref{#1}%
11753       \let\@currentlabelname\@empty
11754       #2%
11755     \fi
11756   }%
11757 }%
11758 }{}%
11759 \@ifpackageloaded{bidipoem}{%
11760 \long\def\bidipoem@p@ftntext#1{%
11761   \edef\@tempx{%
11762     \the\bidipoem@p@ftn
11763     \beginngroup
11764       \noexpand\csname c@\@mpfn\endcsname=\the\csname c@\@mpfn\endcsname\relax
11765       \noexpand\protected@xdef\noexpand\@thefnmark{%
11766         \noexpand\thempfn
11767       }%
11768       \noexpand\Hy@bidipoem@footnotetext{%
11769         \Hy@footnote@currentHref
11770       }%
11771     }%
11772     \global\bidipoem@p@ftn\expandafter{%
11773       \@tempx{#1}%
11774     \endgroup
11775   }%
11776 }%
11777 \long\def\Hy@bidipoem@footnotetext#1#2{%
11778   \H@footnotetext{%
11779     \ifHy@nesting
11780       \hyper@@anchor{#1}{#2}%
11781     \else
11782       \Hy@raisedlink{%
11783         \hyper@@anchor{#1}{\relax}%
11784       }%
11785       \def\@currentHref{#1}%
11786       \let\@currentlabelname\@empty
11787       #2%
11788     \fi
11789   }%
11790 }%
11791 \long\def\bidipoem@p@LTRftntext#1{%
11792   \edef\@tempxi{%

```



```

11793     \the\bidipoem@p@ftn
11794     \begingroup
11795         \noexpand\csname c@\@mpfn\endcsname=\the\csname c@\@mpfn\endcsname\relax
11796         \noexpand\protected@xdef\noexpand\@thefnmark{%
11797             \noexpand\thempfn
11798         }%
11799         \noexpand\Hy@bidipoem@LTRfootnotetext{%
11800             \Hy@footnote@currentHref
11801         }%
11802     }%
11803     \global\bidipoem@p@ftn\expandafter{%
11804         \@tempxi{#1}%
11805     \endgroup
11806 }%
11807 }%
11808 \long\def\Hy@bidipoem@LTRfootnotetext#1#2{%
11809     \HLTR@@LTRfootnotetext{%
11810         \ifHy@nesting
11811             \hyper@@anchor{#1}{#2}%
11812         \else
11813             \Hy@raisedlink{%
11814                 \hyper@@anchor{#1}{\relax}%
11815             }%
11816             \def\@currentHref{#1}%
11817             \let\@currentlabelname\@empty
11818             #2%
11819         \fi
11820     }%
11821 }%
11822     \long\def\bidipoem@p@RTLftntext#1{%
11823     \edef\@tempxi{#1}%
11824     \the\bidipoem@p@ftn
11825     \begingroup
11826         \noexpand\csname c@\@mpfn\endcsname=\the\csname c@\@mpfn\endcsname\relax
11827         \noexpand\protected@xdef\noexpand\@thefnmark{%
11828             \noexpand\thempfn
11829         }%
11830         \noexpand\Hy@bidipoem@RTLfootnotetext{%
11831             \Hy@footnote@currentHref
11832         }%
11833     }%
11834     \global\bidipoem@p@ftn\expandafter{%
11835         \@tempxi{#1}%
11836     \endgroup
11837 }%
11838 }%
11839 \long\def\Hy@bidipoem@RTLfootnotetext#1#2{%
11840     \HRTL@@RTLfootnotetext{%
11841         \ifHy@nesting
11842             \hyper@@anchor{#1}{#2}%

```



```

11843         \else
11844             \Hy@raisedlink{%
11845                 \hyper@@anchor{#1}{\relax}%
11846             }%
11847             \def\@currentHref{#1}%
11848             \let\@currentlabelname\@empty
11849             #2%
11850         \fi
11851     }%
11852 }%
11853 }{}%
11854 \let\HyOrg@maketitle\maketitle
11855 \def\maketitle{%
11856     \let\Hy@saved@footnotemark\@footnotemark
11857     \let\Hy@saved@footnotetext\@footnotetext
11858     \let\HyRTL@saved@RTLfootnotetext\@RTLfootnotetext
11859     \let\HyLTR@saved@LTRfootnotetext\@LTRfootnotetext
11860     \let\@footnotemark\H@@footnotemark
11861     \let\@footnotetext\H@@footnotetext
11862     \let\@RTLfootnotetext\HRTL@@RTLfootnotetext
11863     \let\@LTRfootnotetext\HLTR@@LTRfootnotetext
11864     \@ifnextchar[\Hy@maketitle@optarg{% ]
11865         \HyOrg@maketitle
11866         \Hy@maketitle@end
11867     }%
11868 }%
11869 \def\Hy@maketitle@optarg[#1]{%
11870     \HyOrg@maketitle[#{#1}]%
11871     \Hy@maketitle@end
11872 }%
11873 \def\Hy@maketitle@end{%
11874     \ifx\@footnotemark\H@@footnotemark
11875         \let\@footnotemark\Hy@saved@footnotemark
11876     \fi
11877     \ifx\@footnotetext\H@@footnotetext
11878         \let\@footnotetext\Hy@saved@footnotetext
11879     \fi
11880     \ifx\@RTLfootnotetext\HRTL@@RTLfootnotetext
11881         \let\@RTLfootnotetext\HyRTL@saved@RTLfootnotetext
11882     \fi
11883     \ifx\@LTRfootnotetext\HLTR@@LTRfootnotetext
11884         \let\@LTRfootnotetext\HyLTR@saved@LTRfootnotetext
11885     \fi
11886 }%
11887 \def\realfootnote{%
11888     \@ifnextchar[\@xfootnote{%
11889         \stepcounter{\@mpfn}%
11890         \protected@xdef\@thefnmark{\thempfn}%
11891         \H@@footnotemark\H@@footnotetext
11892     }%

```



```

11893 }%
11894 \fi
11895 \def\Hy@BeginAnnot#1{%
11896   \ifmmode\else\beginL\fi%
11897   \stepcounter{Hy@AnnotLevel}%
11898   \ifnum\value{Hy@AnnotLevel}=\@ne
11899     #1%
11900   \fi
11901 }
11902 \def\Hy@endAnnot{%
11903   \ifnum\value{Hy@AnnotLevel}=\@ne
11904     \Hy@endcolorlink
11905     \@pdfm@mark{eann}%
11906   \fi
11907   \addtocounter{Hy@AnnotLevel}\m@ne
11908   \ifmmode\else\endL\fi%
11909 }
11910 \def\hyper@link#1#2#3{%
11911   \hyper@linkstart{#1}{#2}\ifmmode\else@if@RTL\beginR\fi\fi#3\ifmmode\else@if@RTL\endR\fi\fi%
11912 }
11913 \def\hyper@linkfile#1#2#3{%
11914   \leavevmode
11915   \Hy@BeginAnnot{%
11916     \def\Hy@pstringF{#2}%
11917     \Hy@CleanupFile\Hy@pstringF
11918     \Hy@pstringdef\Hy@pstringF\Hy@pstringF
11919     \Hy@pstringdef\Hy@pstringD{#3}%
11920     \Hy@MakeRemoteAction
11921     \@pdfm@mark{%
11922       bann<<%
11923       /Type/Annot%
11924       /Subtype/Link%
11925       \ifHy@pdfa /F 4\fi
11926       \Hy@setpdfborder
11927       \ifx\@filebordercolor\relax
11928         \else
11929           /C[\@filebordercolor]%
11930       \fi
11931       /A<<%
11932       /S/GoToR%
11933       /F(\Hy@pstringF)%
11934       /D%
11935       \ifx\#3\%
11936         [\Hy@href@page\@pdfremotestartview]%
11937       \else
11938         (\Hy@pstringD)%
11939       \fi
11940       \Hy@SetNewWindow
11941       \Hy@href@nextactionraw
11942       >>%

```



```

11943     >>%
11944 }%
11945 \Hy@colorlink\@filecolor
11946 }%
11947 \ifmmode\else\if@RTL\beginR\fi\fi#1\ifmmode\else\if@RTL\endR\fi\fi\Hy@xspace@end
11948 \Hy@EndAnnot
11949 }
11950 \def\@hyper@launch run:#1\|#2#3{% filename, anchor text linkname
11951 \leavevmode
11952 \Hy@BeginAnnot{%
11953 \Hy@pstringdef\Hy@pstringF{#1}%
11954 \Hy@pstringdef\Hy@pstringP{#3}%
11955 \@pdfmark{%
11956 bann<<%
11957 /Type/Annot%
11958 /Subtype/Link%
11959 \ifHy@pdfa /F 4\fi
11960 \Hy@setpdfborder
11961 \ifx\@runbordercolor\relax
11962 \else
11963 /C[\@runbordercolor]%
11964 \fi
11965 /A<<%
11966 /F(\Hy@pstringF)%
11967 /S/Launch%
11968 \Hy@SetNewWindow
11969 \ifx\|#3\%
11970 \else
11971 /Win<</P(\Hy@pstringP)/F(\Hy@pstringF)>>%
11972 \fi
11973 \Hy@href@nextactionraw
11974 >>%
11975 >>%
11976 }%
11977 \Hy@colorlink\@runcolor
11978 }%
11979 \ifmmode\else\if@RTL\beginR\fi\fi#2\ifmmode\else\if@RTL\endR\fi\fi\Hy@xspace@end
11980 \Hy@EndAnnot
11981 }
11982 \def\hyper@linkurl#1#2{%
11983 \leavevmode
11984 \Hy@BeginAnnot{%
11985 \Hy@pstringdef\Hy@pstringURI{#2}%
11986 \@pdfmark{%
11987 bann<<%
11988 /Type/Annot%
11989 /Subtype/Link%
11990 \ifHy@pdfa /F 4\fi
11991 \Hy@setpdfborder
11992 \ifx\@urlbordercolor\relax

```



```

11993         \else
11994             /C[\@urlbordercolor]%
11995         \fi
11996         /A<<%
11997         /S/URI%
11998         /URI(\Hy@pstringURI)%
11999         \ifHy@href@ismap
12000             /IsMap true%
12001         \fi
12002         \Hy@href@nextactionraw
12003         >>%
12004     >>%
12005 }%
12006 \Hy@colorlink \@urlcolor
12007 }%
12008 \ifmmode\else\if@RTL\beginR\fi\fi#1\ifmmode\else\if@RTL\endR\fi\fi\Hy@xspace@end
12009 \Hy@EndAnnot
12010 }
12011 \def\Acrobatmenu#1#2{%
12012     \Hy@Acrobatmenu{#1}{#2}{%
12013         \Hy@BeginAnnot{%
12014             \EdefEscapeName\Hy@temp@menu{#1}%
12015             \@pdfm@mark{%
12016                 bann<<%
12017                 /Type/Annot%
12018                 /Subtype/Link%
12019                 \ifHy@pdfa /F 4\fi
12020                 \Hy@setpdfborder
12021                 \ifx\@menubordercolor\relax
12022                     \else
12023                         /C[\@menubordercolor]%
12024                     \fi
12025                 /A<<%
12026                 /S/Named%
12027                 /N/\Hy@temp@menu
12028                 \Hy@href@nextactionraw
12029                 >>%
12030             >>%
12031             }%
12032             \Hy@colorlink \@menucolor
12033         }%
12034         \ifmmode\else\if@RTL\beginR\fi\fi#2\ifmmode\else\if@RTL\endR\fi\fi\Hy@xspace@end
12035         \Hy@EndAnnot
12036     }%
12037 }
12038 \def\hyper@natlinkstart#1{%
12039     \Hy@backout{#1}%
12040     \hyper@linkstart{cite}{cite.#1}\if@RTL\beginR\fi%
12041     \def\hyper@nat@current{#1}%
12042 }

```





```

12043 \def\hyper@natlinkend{%
12044   \if@RTL\endR\fi\hyper@linkend
12045 }
12046 \def\hyper@natlinkbreak#1#2{%
12047   \if@RTL\endR\fi\hyper@linkend#1\hyper@linkstart{cite}{cite.#2}\if@RTL\beginR\fi%
12048 }%
12049 }
12050 \pdfstringdefDisableCommands{%
12051   \let\LT@array\@firstofone
12052   \let\LR\@firstofone
12053   \let\RLE\@firstofone
12054   \let\RL\@firstofone
12055   \def\XeTeX{Xe\TeX}
12056   \def\XeLaTeX{Xe\LaTeX}
12057 }
12058 \@ifpackageloaded{longtable}{%
12059   \begingroup
12060     \def\y{\LT@array}%
12061     \ifundefined{scr@LT@array}{%
12062       \ifundefined{adl@LT@array}{\def\y{\adl@LT@array}}%
12063     }\def\y{\scr@LT@array}%
12064     \long\def\x\refstepcounter#1#2\sharp#3#4\@nil{%
12065       \expandafter\endgroup
12066       \expandafter\def\y[##1]##2{%
12067         \H@refstepcounter{#1}%
12068         \hyper@makecurrent{table}%
12069         \let\Hy@LT@currentHref\@currentHref
12070         #2\sharp####4%
12071       }%
12072     }%
12073     \expandafter\expandafter\expandafter\x\y[{#1}]{#2}\@nil
12074     \begingroup
12075       \def\x#1\ifvoid\LT@foot#2\fi#3\@nil{%
12076         \endgroup
12077         \def\LT@start{%
12078           #1%
12079           \ifvoid\LT@foot#2\fi
12080           \let\@currentHref\Hy@LT@currentHref
12081           \Hy@raisedlink{%
12082             \hyper@anchorstart{\@currentHref}\hyper@anchorend
12083           }%
12084           #3%
12085         }%
12086       }%
12087       \expandafter\x\LT@start\@nil
12088 }{}

```

## 7.70 leqno-xetex-bidi.def

12089 \ProvidesFile{leqno-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for leqno tag for XeTeX]



```

12090 \renewcommand\@eqnnum{\hb@xt@.01\p@{}}%
12091 \rlap{
12092 \hskip -\displaywidth{\normalfont\normalcolor\if@RTL\beginR\fi(\theeq

```

## 7.71 letter-xetex-bidi.def

```

12093 \ProvidesFile{letter-xetex-bidi.def}[2015/11/14 v0.3 bidi adaptations for standard letter cla
12094 \renewcommand*{\opening}[1]{\ifx\@empty\fromaddress
12095 \thispagestyle{firstpage}%
12096 {\if@RTL\raggedright\else\raggedleft\fi\@date\par}%
12097 \else % home address
12098 \thispagestyle{empty}%
12099 {\if@RTL\raggedright\else\raggedleft\fi\if@RTL\begin{tabular}{r@{}}\else\begin{tabular}{l@{}}
12100 \fromaddress \*[2\parskip]%
12101 \@date \end{tabular}\par}%
12102 \fi
12103 \vspace{2\parskip}%
12104 {\if@RTL\raggedleft\else\raggedright\fi \toname \ \ toaddress \par}%
12105 \vspace{2\parskip}%
12106 #1\par\nobreak}
12107 \renewcommand\left@footnoterule{%
12108 \kern-\p@
12109 \hrule \@width .4\columnwidth
12110 \kern .6\p@}
12111 \renewcommand\right@footnoterule{%
12112 \kern-\p@
12113 \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
12114 \kern .6\p@}

```

## 7.72 lettrine-xetex-bidi.def

```

12115 \ProvidesFile{lettrine-xetex-bidi.def}[2015/02/17 v0.5 bidi adaptations for lettrine package
12116 \def\@lettrine[#1]#2#3{%
12117 \setcounter{L@lines}{\theDefaultLines}%
12118 \setcounter{L@depth}{\theDefaultDepth}%
12119 \renewcommand*{\L@hang}{\DefaultLhang}%
12120 \renewcommand*{\L@oversize}{\DefaultLoversize}%
12121 \renewcommand*{\L@raise}{\DefaultLraise}%
12122 \renewcommand*{\L@ante}{}%
12123 \setlength{\L@Findent}{\DefaultFindent}%
12124 \setlength{\L@Nindent}{\DefaultNindent}%
12125 \setlength{\L@slope}{\DefaultSlope}%
12126 \setlength{\L@novskip}{\DiscardVskip}%
12127 \ifLettrineImage\L@imagetrue\else\L@imagefalse\fi
12128 \ifLettrineOnGrid\L@gridtrue\else\L@gridfalse\fi
12129 \if\DefaultOptionsFile\relax
12130 \else
12131 \begingroup
12132 \InputIfFileExists{\DefaultOptionsFile}%
12133 {}%
12134 {\PackageWarning{lettrine.sty}%

```



```

12135         {File \DefaultOptionsFile\space not found}%
12136     }%
12137     \def\color##1##{\l@color{##1}}%
12138     \let\l@color\@gobbletwo
12139     \def\textcolor##1##{\l@textcolor{##1}}%
12140     \def\l@textcolor##1##2##3{##3}%
12141     \expandafter\ifx\csname l@#2-keys\endcsname\relax
12142         \gdef\l@LOKeys{}%
12143     \else
12144         \xdef\l@LOKeys{\csname l@#2-keys\endcsname}%
12145     \fi
12146     \endgroup
12147     \def\KV@prefix{KV@L@}%
12148     \let\@tempc\relax
12149     \expandafter\KV@do\l@LOKeys,\relax,
12150     \sbox{\L@lbox}{\LettrineFont #2}%
12151     \setlength{\LettrineWidth}{\wd\L@lbox}%
12152     \def\KV@prefix{KV@L@}%
12153     \let\@tempc\relax
12154     \expandafter\KV@do\l@LOKeys,\relax,
12155     \fi
12156     \setkeys{L}{#1}%
12157     \ifL@image
12158         \sbox{\L@lbox}{\LettrineFontEPS{#2}}%
12159     \else
12160         \sbox{\L@lbox}{\LettrineFont #2}%
12161     \fi
12162     \sbox{\L@tbox}{\LettrineTextFont{#3}}%
12163     \@tempdima=\baselineskip
12164     \ifnum\theL@lines=1
12165         \setlength{\L@first}{\ht\L@lbox}%
12166         \addtolength{\L@first}{-\ht\L@tbox}%
12167         \setlength{\L@lraise}{\z@}%
12168     \else
12169         \setlength{\L@first}{-\theL@lines\@tempdima}%
12170         \addtolength{\L@first}{\@tempdima}%
12171         \sbox{\@tempboxa}{\LettrineTextFont x}%
12172         \addtolength{\L@first}{-\ht\@tempboxa}%
12173         \setlength{\L@lraise}{-\L@raise\L@first}%
12174         \addtolength{\L@first}{\L@lraise}%
12175         \addtolength{\L@first}{\ht\L@lbox}%
12176         \addtolength{\L@lraise}{-\theL@lines\@tempdima}%
12177         \addtolength{\L@lraise}{\@tempdima}%
12178     \fi
12179     \par
12180     \ifdim\L@first>\L@novskip
12181         \ifL@grid
12182             \@tempdima=\baselineskip
12183             \@tempdimb=\@tempdima
12184             \advance\@tempdimb by \L@novskip

```



```

12185      \@tempcnta=1
12186      \loop\ifdim\L@first>\@tempdimb
12187        \advance\@tempcnta by 1
12188        \advance\L@first by -\@tempdima
12189      \repeat
12190      \vskip\@tempcnta\baselineskip
12191    \else
12192      \vskip\L@first
12193    \fi
12194  \fi
12195  \setlength{\L@Pindent}{\wd\L@lbox}%
12196  \addtolength{\L@Pindent}{-\L@hang\wd\L@lbox}%
12197  \settowidth{\L@first}{\L@ante}%
12198  \addtolength{\L@Pindent}{\L@first}%
12199  \addtolength{\L@Pindent}{\L@Findent}%
12200  \setlength{\L@first}{\linewidth}%
12201  \addtolength{\L@first}{-\L@Pindent}%
12202  \addtolength{\L@Nindent}{\L@Pindent}%
12203  \setlength{\L@next}{\linewidth}%
12204  \addtolength{\L@next}{-\L@Nindent}%
12205  \addtolength{\L@Pindent}{\rightmargin}%
12206  \addtolength{\L@Nindent}{\rightmargin}%
12207  \setlength{\LettrineWidth}{\wd\L@lbox}%
12208  \setlength{\LettrineHeight}{\ht\L@lbox}%
12209  \setlength{\LettrineDepth}{\dp\L@lbox}%
12210  \addtocounter{L@lines}{1}%
12211  \addtocounter{L@lines}{\the\c@L@depth}%
12212  \if@RTL\def\L@parshape{\c@L@lines Opt \the\L@first}\else\def\L@parshape{\c@L@lines \the\L@P
12213  \@tempcnta=\tw@
12214  \@whilenum \@tempcnta<\c@L@lines\do{%
12215    \if@RTL\edef\L@parshape{\L@parshape Opt \the\L@next}\else\edef\L@parshape{\L@parshape \t
12216    \addtolength{\L@Nindent}{\L@slope}%
12217    \addtolength{\L@next}{-\L@slope}%
12218    \advance\@tempcnta\@ne}%
12219  \if@RTL \edef\L@parshape{\L@parshape Opt \the\linewidth}\else\edef\L@parshape{\L@parshape \
12220  \noindent
12221  \parshape=\L@parshape\relax
12222  \smash{\llap{\mbox{\L@ante}\raisebox{\L@lraise}{\usebox{\L@lbox}}}%
12223    \hskip \the\L@Findent}}%
12224  \usebox{\L@tbox}%
12225 }

```

## 7.73 listings-xetex-bidi.def

```

12226 \ProvidesFile{listings-xetex-bidi.def}[2017/01/14 v1.4 bidi adaptations for listings package]
12227 \lst@Key{captiondirection}{textdirection}{%
12228   \lstKV@SwitchCases{#1}%
12229   {textdirection&\\%
12230     RTL&\chardef\bidi@lst@caption@direction\@ne\\%
12231     LTR&\chardef\bidi@lst@caption@direction\@z%

```



```

12232     }\PackageError{Listings}{direction #1 unknown}\@ehc}}
12233
12234 \lst@Key{captionscript}{textscript}{%
12235     \lstKV@SwitchCases{#1}%
12236     {textscript&\\%
12237     latin&\chardef\bidi@lst@caption@script\@ne\\%
12238     nonlatin&\chardef\bidi@lst@caption@script\z@%
12239     }\PackageError{Listings}{direction #1 unknown}\@ehc}}
12240
12241 \newcommand*{\bidi@lst@ensure@caption@direction}[2]{%
12242     \@ifundefined{bidi@lst@caption@direction}{-}{%
12243         \ifnum\bidi@lst@caption@direction=\z@%
12244             #1%
12245         \else%
12246             \ifnum\bidi@lst@caption@direction=\@ne%
12247                 #2%
12248             \fi%
12249         \fi%
12250     }}
12251
12252 \newcommand*{\bidi@lst@ensure@caption@script}[2]{%
12253     \@ifundefined{bidi@lst@caption@script}{-}{%
12254         \ifnum\bidi@lst@caption@script=\z@%
12255             #1%
12256         \else%
12257             \ifnum\bidi@lst@caption@script=\@ne%
12258                 #2%
12259             \fi%
12260         \fi%
12261     }}
12262
12263 \long\def\@bidi@lst@makecaption#1#2{%
12264     \bidi@lst@ensure@caption@script{\@nonlatintrue}{\@nonlatinfalse}%
12265     \vskip\abovecaptionskip
12266     \bidi@lst@ensure@caption@direction{\@RTLfalse}{\@RTLtrue}%
12267     \sbox\@tempboxa{%
12268         \bidi@lst@ensure@caption@direction{\beginL}{\beginR}%
12269         #1: #2%
12270         \bidi@lst@ensure@caption@direction{\endL}{\endR}%
12271     }%
12272     \ifdim \wd\@tempboxa >\hsize
12273         #1: #2\par
12274     \else
12275         \global \@minipagefalse
12276         \hb@xt@\hsize{\hfil\box\@tempboxa\hfil}%
12277     \fi
12278     \vskip\belowcaptionskip}%
12279 \def\lst@makecaption{\@bidi@lst@makecaption}
12280 \def\lst@maketitle{\@bidi@lst@makecaption\lst@title@dropdelim}
12281 \bidi@AtEndPreamble{%

```



```

12282 \bidi@patchcmd{\lst@MakeCaption}{%
12283     \ifx #1%
12284         \ifx\lst@caption\@empty\expandafter\lst@HRefStepCounter \else
12285             \expandafter\refstepcounter
12286         \fi {lstlisting}%
12287 }{%
12288     \ifx #1%
12289         \bidi@lst@ensure@caption@direction{\@RTLfalse}{\@RTLtrue}%
12290         \ifx\lst@caption\@empty\expandafter\lst@HRefStepCounter \else
12291             \expandafter\refstepcounter
12292         \fi {lstlisting}%
12293         \bidi@lst@ensure@caption@direction{\@RTLfalse}{\@RTLfalse}%
12294 }{}{}%
12295 \bidi@patchcmd{\lst@MakeCaption}{%
12296     \addcontentsline{lol}{lstlisting}%
12297     {\protect\numberline{\thelstlisting}\lst@caption}%
12298 }{%
12299 \begingroup%
12300     \bidi@lst@ensure@caption@direction{\@RTLfalse}{\@RTLtrue}%
12301     \addcontentsline{lol}{lstlisting}%
12302     {\protect\numberline{\thelstlisting}\lst@caption}%
12303 \endgroup%
12304 }{}{}%
12305 }
12306 \@ifpackageloaded{caption}{%
12307     \AtBeginCaption{%
12308         \bidi@lst@ensure@caption@script{\@nonlatintrue}{\@nonlatinfalse}%
12309         \bidi@lst@ensure@caption@direction{\@RTLfalse}{\@RTLtrue}%
12310     }
12311     \let\@bidi@lst@makecaption\caption@makecaption%
12312     \def\lst@makecaption{\caption@starfalse\@bidi@lst@makecaption}%
12313     \def\lst@maketitle{\caption@startrue\@bidi@lst@makecaption\@empty}%
12314 }{}%
12315 \AtBeginDocument{%
12316     \@ifundefined{captionlabelfalse}{}{%
12317         \def\lst@maketitle{\captionlabelfalse\@bidi@lst@makecaption\@empty}}%
12318     \@ifundefined{caption@startrue}{}{%
12319         \def\lst@maketitle{\caption@startrue\@bidi@lst@makecaption\@empty}}%
12320 }%
12321 }
12322 \AtBeginDocument{
12323     \@ifundefined{thechapter}{\let\lst@ifnumberbychapter\iffalse}{}
12324     \lst@ifnumberbychapter
12325         \gdef\thelstlisting%
12326             {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@lstlisting}
12327     \else
12328         \gdef\thelstlisting{\@arabic\c@lstlisting}
12329     \fi}

```



## 7.74 loadingorder-xetex-bidi.def

```
12330 \ProvidesFile{loadingorder-xetex-bidi.def}[2015/10/16 v0.96 making sure that bidi is the last
12331 \bidi@isloaded{amsmath}
12332 \bidi@isloaded{amstext}
12333 \bidi@isloaded{amsthm}
12334 \bidi@isloaded{animate}
12335 \bidi@isloaded{breqn}
12336 \bidi@isloaded{cals}
12337 \bidi@isloaded{caption}
12338 \bidi@isloaded{crop}
12339 \bidi@isloaded{cuted}
12340 \bidi@isloaded{cutwin}
12341 \bidi@isloaded{color}
12342 \bidi@isloaded{dblfnote}
12343 \bidi@isloaded{xcolor}
12344 \bidi@isloaded{colortbl}
12345 \bidi@isloaded{float}
12346 \bidi@isloaded{floatrow}
12347 \bidi@isloaded{flowfram}
12348 \bidi@isloaded{framed}
12349 \bidi@isloaded{ftnright}
12350 \bidi@isloaded{xltextra}
12351 \bidi@isloaded{xunicode}
12352 \bidi@isloaded{wrapfig}
12353 \bidi@isloaded{graphicx}
12354 \bidi@isloaded{geometry}
12355 \bidi@isloaded{hvfloat}
12356 \bidi@isloaded{mdframed}
12357 \bidi@isloaded{midfloat}
12358 \bidi@isloaded{ntheorem}
12359 \bidi@isloaded{ntheorem-hyper}
12360 \bidi@isloaded{hyperref}
12361 \bidi@isloaded{fancybox}
12362 \bidi@isloaded{fancyhdr}
12363 \bidi@isloaded{fix2col}
12364 \bidi@isloaded{draftwatermark}
12365 \bidi@isloaded{empheq}
12366 \bidi@isloaded{overpic}
12367 \bidi@isloaded{pdfpages}
12368 \bidi@isloaded{listings}
12369 \bidi@isloaded{lettrine}
12370 \bidi@isloaded{media9}
12371 \bidi@isloaded{pstricks}
12372 \bidi@isloaded{pgf}
12373 \bidi@isloaded{picinpar}
12374 \bidi@isloaded{quotchap}
12375 \bidi@isloaded{tikz}
12376 \bidi@isloaded{titlesec}
12377 \bidi@isloaded{titletoc}
```



```

12378 \bidi@isloaded{array}
12379 \bidi@isloaded{soul}
12380 \bidi@isloaded{stabular}
12381 \bidi@isloaded{subfig}
12382 \bidi@isloaded{subfigure}
12383 \bidi@isloaded{supertabular}
12384 \bidi@isloaded{xtab}
12385 \bidi@isloaded{longtable}
12386 \bidi@isloaded{arydshln}
12387 \bidi@isloaded{multicol}
12388 \bidi@isloaded{multienum}
12389 \bidi@isloaded{minitoc}
12390 \bidi@isloaded{natbib}
12391 \bidi@isloaded{newfloat}
12392 \bidi@isloaded{ragged2e}
12393 \bidi@isloaded{rotating}
12394 \bidi@isloaded{tabls}
12395 \bidi@isloaded{tabulary}
12396 \bidi@isloaded{tocbasic}
12397 \bidi@isloaded{tocstyle}
12398 \bidi@isloaded{tocbibind}
12399 \bidi@isloaded{fontspec}
12400 \bidi@isloaded{arabxetex}
12401 \bidi@isloaded{polyglossia}
12402 \bidi@isloaded{fancyvrb}
12403 \AtBeginDocument{
12404   \if@bidi@amsmathloaded@else
12405     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package amsmath after bidi packa
12406   \fi%
12407   \if@bidi@amstextloaded@else
12408     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package amstext after bidi packa
12409   \fi%
12410   \if@bidi@amsthmloaded@else
12411     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package amsthm after bidi packag
12412   \fi%
12413   \if@bidi@animateloaded@else
12414     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package animate after bidi packa
12415   \fi%
12416   \if@bidi@breqnloaded@else
12417     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package breqn after bidi package
12418   \fi%
12419   \if@bidi@calsloaded@else
12420     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package cals after bidi package.
12421   \fi%
12422   \if@bidi@captionloaded@else
12423     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package caption after bidi packa
12424   \fi%
12425   \if@bidi@croploaded@else
12426     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package crop after bidi package.
12427   \fi%

```





```

12428 \if@bidi@colorloaded@else
12429 \@ifpackageloaded{hyperref}{\fi%
12430 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package color after bidi package
12431 \fi%
12432 \if@bidi@cutwinloaded@else
12433 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package cutwin after bidi package
12434 \fi%
12435 \if@bidi@cutedloaded@else
12436 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package cuted after bidi package
12437 \fi%
12438 \if@bidi@dblfnoteloaded@else
12439 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package dblfnote after bidi pack
12440 \fi%
12441 \if@bidi@xcolorloaded@else
12442 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package xcolor after bidi packag
12443 \fi%
12444 \if@bidi@colortblloaded@else
12445 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package colortbl after bidi pack
12446 \fi%
12447 \if@bidi@floatloaded@else
12448 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package float after bidi package
12449 \fi%
12450 \if@bidi@floatrowloaded@else
12451 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package floatrow after bidi pack
12452 \fi%
12453 \if@bidi@flowframloaded@else
12454 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package flowfram after bidi pack
12455 \fi%
12456 \if@bidi@framedloaded@else
12457 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package framed after bidi packag
12458 \fi%
12459 \if@bidi@ftnrightloaded@else
12460 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package ftnright after bidi pack
12461 \fi%
12462 \if@bidi@xltxtalloaded@else
12463 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package xltextra after bidi packa
12464 \fi%
12465 \if@bidi@xunicodeloaded@else
12466 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package xunicode after bidi pack
12467 \fi%
12468 \if@bidi@wrapfigloaded@else
12469 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package wrapfig after bidi packa
12470 \fi%
12471 \if@bidi@graphicxloaded@else
12472 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package graphicx after bidi pack
12473 \fi%
12474 \if@bidi@geometryloaded@else
12475 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package geometry after bidi pack
12476 \fi%
12477 \if@bidi@hvfloatloaded@else

```



```

12478 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package hvfloat after bidi packa
12479 \fi%
12480 \if@bidi@mdframedloaded@else
12481 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package mdframed after bidi pack
12482 \fi%
12483 \if@bidi@midfloatloaded@else
12484 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package midfloat after bidi pack
12485 \fi%
12486 \if@bidi@ntheoremloaded@else
12487 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package ntheorem after bidi pack
12488 \fi%
12489 \if@bidi@hyperrefloaded@else
12490 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package hyperref after bidi pack
12491 \fi%
12492 \if@bidi@fancyboxloaded@else
12493 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package fancybox after bidi pack
12494 \fi%
12495 \if@bidi@fancyhdrloaded@else
12496 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package fancyhdr after bidi pack
12497 \fi%
12498 \if@bidi@draftwatermarkloaded@else
12499 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package draftwatermark after bid
12500 \fi%
12501 \if@bidi@empheqloaded@else
12502 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package empheq after bidi packag
12503 \fi%
12504 \if@bidi@overpicloaded@else
12505 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package overpic after bidi packa
12506 \fi%
12507 \if@bidi@pdfpagesloaded@else
12508 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package pdfpages after bidi pack
12509 \fi%
12510 \if@bidi@lettrineloaded@else
12511 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package lettrine after bidi pack
12512 \fi%
12513 \if@bidi@listingsloaded@else
12514 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package listings after bidi pack
12515 \fi%
12516 \csname if@bidi@media9loaded@endcsname\else
12517 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package media9 after bidi packag
12518 \fi%
12519 \if@bidi@pstricksloaded@else
12520 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package pstricks after bidi pack
12521 \fi%
12522 \if@bidi@pgfloaded@else
12523 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package pgf after bidi package.
12524 \fi%
12525 \if@bidi@picinparloaded@else
12526 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package picinpar after bidi pack
12527 \fi%

```



```

12528 \if@bidi@quotchaploaded@\else
12529   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package quotchap after bidi pack
12530 \fi%
12531 \if@bidi@tikzloaded@\else
12532   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package tikz after bidi package.
12533 \fi%
12534 \if@bidi@titlesecloaded@\else
12535   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package titlesec after bidi pack
12536 \fi%
12537 \if@bidi@titletocloaded@\else
12538   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package titletoc after bidi pack
12539 \fi%
12540 \if@bidi@arrayloaded@\else
12541   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package array after bidi package
12542 \fi%
12543 \if@bidi@stabularloaded@\else
12544   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package stabular after bidi pack
12545 \fi%
12546 \if@bidi@soulloaded@\else
12547   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package soul after bidi package.
12548 \fi%
12549 \if@bidi@subfigloaded@\else
12550   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package subfig after bidi packag
12551 \fi%
12552 \if@bidi@subfigureloaded@\else
12553   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package subfigure after bidi pac
12554 \fi%
12555 \if@bidi@supertabularloaded@\else
12556   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package supertabular after bidi
12557 \fi%
12558 \if@bidi@xtabloaded@\else
12559   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package xtab after bidi package.
12560 \fi%
12561 \if@bidi@longtableloaded@\else
12562   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package longtable after bidi pac
12563 \fi%
12564 \if@bidi@arydshlnloaded@\else
12565   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package arydshln after bidi pack
12566 \fi%
12567 \if@bidi@multicolloaded@\else
12568   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package multicol after bidi pack
12569 \fi%
12570 \if@bidi@multienumloaded@\else
12571   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package multienum after bidi pac
12572 \fi%
12573 \if@bidi@minitocloaded@\else
12574   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package minitoc after bidi packa
12575 \fi%
12576 \if@bidi@natbibloaded@\else
12577   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package natbib after bidi packag

```



```

12578 \fi%
12579 \if@bidi@newfloatloaded@else
12580 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package newfloat after bidi pack
12581 \fi%
12582 \csname if@bidi@ragged2eloaded@endcsname\else
12583 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package ragged2e after bidi pack
12584 \fi%
12585 \if@bidi@rotatingloaded@else
12586 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package rotating after bidi pack
12587 \fi%
12588 \if@bidi@tblsloaded@else
12589 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package tbls after bidi package
12590 \fi%
12591 \if@bidi@tabularyloaded@else
12592 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package tabulary after bidi pack
12593 \fi%
12594 \if@bidi@tocbasicloaded@else
12595 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package tocbasic after bidi pack
12596 \fi%
12597 \if@bidi@tocstyleloaded@else
12598 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package tocstyle after bidi pack
12599 \fi%
12600 \if@bidi@tocbibindloaded@else
12601 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package tocbibind after bidi pac
12602 \fi%
12603 \if@bidi@fontspecloaded@else
12604 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package fontspec after bidi pack
12605 \fi%
12606 \if@bidi@arabxetexloaded@else
12607 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package arabxetex after bidi pac
12608 \fi%
12609 \if@bidi@polyglossialloaded@else
12610 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package polyglossia after bidi p
12611 \fi%
12612 \if@bidi@fancyvrbloaded@else
12613 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package fancyvrb after bidi pack
12614 \fi%
12615 }

```

## 7.75 longtable-xetex-bidi.def

```

12616 \ProvidesFile{longtable-xetex-bidi.def}[2016/09/09 v0.4 bidi adaptations for longtable packag
12617 \def\LT@array[#1]#2{%
12618 \refstepcounter{table}\stepcounter{LT@tables}%
12619 \if l#1%
12620 \if@RTLtab\LTleft\fill \LTright\z@else\LTleft\z@ \LTright\fill\fi
12621 \else\if r#1%
12622 \if@RTLtab\LTleft\z@ \LTright\fill\else\LTleft\fill \LTright\z@\fi
12623 \else\if c#1%
12624 \LTleft\fill \LTright\fill

```



```

12625 \fi\fi\fi
12626 \let\LT@mc\multicolumn
12627 \let\LT@tabarray\@tabarray
12628 \let\LT@hl\hline
12629 \def\@tabarray{%
12630   \let\hline\LT@hl
12631   \LT@tabarray}%
12632 \let\LT@tabularcr\let\@tabularnewline\%
12633 \def\newpage{\noalign{\break}}%
12634 \def\pagebreak{\noalign{\ifnum`}=0\fi\@testopt{\LT@no@pgbk-}4}%
12635 \def\nopagebreak{\noalign{\ifnum`}=0\fi\@testopt{\LT@no@pgbk4}}%
12636 \let\hline\LT@hl \let\kill\LT@kill \let\caption\LT@caption
12637 \@tempdima\ht\strutbox
12638 \let\@endpbox\LT@endpbox
12639 \ifx\extrarowheight\@undefined
12640   \let\@acol\@tabacol
12641   \let\@classz\@tabclassz \let\@classiv\@tabclassiv
12642   \def\@startpbox{\vtop\LT@startpbox}%
12643   \let\@startpbox\@startpbox
12644   \let\@endpbox\@endpbox
12645   \let\LT@LLFM\cr\@tabularcr
12646 \else
12647   \advance\@tempdima\extrarowheight
12648   \colsep\@tabcolsep
12649   \let\@startpbox\LT@startpbox \let\LT@LLFM\cr\@arraycr
12650 \fi
12651 \setbox\@arstrutbox\hbox{\vrule
12652   \@height \arraystretch \@tempdima
12653   \@depth \arraystretch \dp \strutbox
12654   \@width \z@}%
12655 \let\@sharp#\let\protect\relax
12656 \begingroup
12657   \mkpream{#2}%
12658   \xdef\LT@bchunk{%
12659     \global\advance\c@LT@chunks\@ne
12660     \global\LT@rows\z@\setbox\z@\vbox\bgroup
12661     \LT@setprevdepth
12662     \tabskip\LTleft \noexpand\halign to\hsize\bgroup
12663     \tabskip\z@ \@arstrut \@preamble \tabskip\LTRight \cr}%
12664 \endgroup
12665 \expandafter\LT@nofcols\LT@bchunk&\LT@nofcols
12666 \LT@make@row
12667 \m@th\let\par\@empty
12668 \everycr{\lineskip\z@\baselineskip\z@
12669 \LT@bchunk}
12670 \def\LT@makecaption#1#2#3{%
12671   \LT@mc\LT@cols c{\hbox to\z@{\hss\parbox[t]\LTcapwidth{%
12672     \sbox\@tempboxa{\if@RTL\beginR\fi#1{#2: }#3\if@RTL\endR\fi}%
12673     \ifdim\wd\@tempboxa>\hsize
12674       #1{#2: }#3%

```



```

12675 \else
12676 \hbox to\hsize{\hfil\box\@tempboxa\hfil}%
12677 \fi
12678 \endgraf\vskip\baselineskip}%
12679 \hss}}
12680 \ifpackageloaded{caption}{%
12681 \renewcommand\LT@makecaption[3]{%
12682 \caption@LT@make{%
12683 \caption@settype*\LTcaptiontype
12684 \ifdim\LTcapwidth=4in \else
12685 \setcaptionwidth\LTcapwidth
12686 \fi
12687 \caption@setoptions{longtable}%
12688 \caption@setoptions{@longtable}%
12689 \caption@LT@setup
12690 \caption@setautoposition{\ifcase\LT@rows t\else b\fi}%
12691 \caption@startrue#1\caption@starfalse
12692 \caption@prepare@stepcounter\LTcaptiontype{LT}%
12693 \caption@begin\LTcaptiontype
12694 \caption@normalsize
12695 \vskip-\ht\strutbox
12696 \caption@iftop{\vskip\belowcaptionskip}{\vskip\abovecaptionskip}%
12697 \caption@@make{#2}{#3}\endgraf
12698 \caption@iftop{\vskip\abovecaptionskip}{\vskip\belowcaptionskip}%
12699 \caption@end}}%
12700 }{}
12701 \def\LT@startpbox#1{%
12702 \bgroup
12703 \let\@footnotetext\LT@p@ftntext
12704 \let\@LTRfootnotetext\LT@p@LTRftntext
12705 \let\@RTLfootnotetext\LT@p@RTLftntext
12706 \setlength\hsize{#1}%
12707 \@arrayparboxrestore
12708 \vrule \@height \ht\@arstrutbox \@width \z@}
12709 \def\LT@p@LTRftntext#1{%
12710 \edef\@tempa{\the\LT@p@ftn\noexpand\LTRfootnotetext[\the\c@footnote]]}%
12711 \global\LT@p@ftn\expandafter{\@tempa{#1}}}%
12712 \def\LT@p@RTLftntext#1{%
12713 \edef\@tempa{\the\LT@p@ftn\noexpand\RTLfootnotetext[\the\c@footnote]]}%
12714 \global\LT@p@ftn\expandafter{\@tempa{#1}}}%
12715
12716
12717 \def\LT@output{%
12718 \ifnum\outputpenalty <-\@Mi
12719 \ifnum\outputpenalty > -\LT@endopen
12720 \LT@err{floats and marginpars not allowed in a longtable}\@ehc
12721 \else
12722 \setbox\z@\vbox{\unvbox\@cc1v}%
12723 \ifdim \ht\LT@lastfoot>\ht\LT@foot
12724 \dimen@ \pagegoal

```



```

12725      \advance\dimen@-\ht\LT@lastfoot
12726      \ifdim\dimen@<\ht\z@
12727        \setbox\@cclv\vbox{\unvbox\z@\copy\LT@foot\vss}%
12728        \makecol
12729        \outputpage
12730        \setbox\z@\vbox{\box\LT@head}%
12731      \fi
12732    \fi
12733    \global\@colroom\@colht
12734    \global\vsizel\@colht
12735    \vbox
12736      {\ifRTLtab\hbox\bgroup\beginR\vbox\bgroup\fi\unvbox\z@\box\ifvoid\LT@lastfoot\LT@foot
12737    \fi
12738  \else
12739    \setbox\@cclv\vbox{\ifRTLtab\hbox\bgroup\beginR\vbox\bgroup\fi\unvbox\@cclv\copy\LT@foot
12740    \makecol
12741    \outputpage
12742    \global\vsizel\@colroom
12743    \copy\LT@head\nobreak
12744  \fi}

```

## 7.76 mdframed-xetex-bidi.def

```

12745 \ProvidesFile{mdframed-xetex-bidi.def}[2013/09/22 v0.4 bidi adaptations for mdframed package]
12746 \newif\if@bidi@mdf@RTL
12747 \def\mdf@lrbox#1{%
12748   \mdf@patchamsthm%patch amsthm
12749   \ifRTL\@bidi@mdf@RTLtrue\fi%
12750   \@RTLfalse%
12751   \setbox#1\vbox\bgroup%
12752     \color@begingroup%
12753     \if@bidi@mdf@RTL\@RTLtrue\fi%
12754     \mdf@horizontalmargin@equation%
12755     \columnwidth=\hsize%
12756     \textwidth=\hsize%
12757     \let\if@nobreak\iffalse%
12758     \let\if@noskipsec\iffalse%
12759     \let\par\@par%
12760     \let-\@dischph%
12761     \let'\@acci\let'\@accii\let\=\@acciii%
12762     \parindent\z@ \parskip\z@skip%
12763     \linewidth\hsize%
12764     \@totalleftmargin\z@%
12765     \leftskip\z@skip \rightskip\z@skip \@rightskip\z@skip%
12766     \parfillskip\@flushglue \lineskip\normallineskip%
12767     \baselineskip\normalbaselineskip%
12768   %% \sloppy%
12769   \let\\\@normalcr%
12770   \mdf@par@local%New feature to restore parskip/parindent local in save box
12771   \ifbool{mdf@suppressfirstparskip}{\vspace*{-\parskip}}{}%

```



```

12772     \@afterindentfalse%
12773     %\@afterheading%
12774 }
12775 \renewrobustcmd\mdfframetitleenv[1]{%
12776     \mdf@lrbox{\mdf@frametitlebox}%
12777     \mdf@frametitlealignment%
12778     \leavevmode{\color{\mdf@frametitlefontcolor}%
12779         \normalfont\mdf@frametitlefont{#1}
12780     \ifbool{mdf@ignorelastdescenders}%
12781         {%
12782             \par\strut\par
12783             \unskip\unskip\setbox0=\lastbox
12784             \vspace*{\dimexpr\ht\strutbox-\baselineskip\relax}%
12785         }{}}%
12786     \par\unskip\ifvmode\nointerlineskip\hrule \@height\z@ \@width\hsize\fi%%
12787     \endmdf@lrbox\relax%
12788     \mdf@ignorevbadness%
12789     \setbox\mdf@frametitlebox=\vbox{\unvbox\mdf@frametitlebox}%
12790     \mdfframetitleboxwidth=\wd\mdf@frametitlebox\relax%
12791     \mdfframetitleboxheight=\ht\mdf@frametitlebox\relax%
12792     \mdfframetitleboxdepth=\dp\mdf@frametitlebox\relax%
12793     \mdfframetitleboxtotalheight=\dimexpr
12794         \ht\mdf@frametitlebox
12795         +\dp\mdf@frametitlebox%
12796         +\mdf@frametitleaboveskip@length
12797         +\mdf@frametitlebelowskip@length
12798     \relax%
12799 }
12800
12801 \renewrobustcmd*\mdf@footnoteoutput{%
12802     \ifvoid\@mpfootins\else%
12803         \nobreak%
12804         \vskip\mdf@footnotedistance@length%
12805         \normalcolor%
12806         \bidi@mpfootnoterule%
12807         \unvbox\@mpfootins%
12808     \fi%
12809 }
12810
12811
12812 \renewrobustcmd*\mdf@footnoteinput{%
12813     \def\@mpfn{mpfootnote}%
12814     \def\thempfn{\thempfootnote}%
12815     \c@mpfootnote\z@%
12816     \let\@footnotetext\@mpfootnotetext%
12817     \let\@LTRfootnotetext\@mpLTRfootnotetext%
12818     \let\@RTLfootnotetext\@mpRTLfootnotetext%
12819 }

```





## 7.77 bidi-media9.sty

```

12820 \ProvidesExplPackage{bidi-media9}{2016/05/03}{0.2}
12821 {bidi fixes for media9 package for the XeTeX engine}
12822
12823 \keys_define:nn{media9/mbtn}{
12824   draft .code:n = {},
12825   final .code:n = {},
12826
12827   tooltip .tl_gset_x:N = \g_mix_tooltip_tl,
12828   tooltip .value_required:n = {true},
12829
12830   overface .code:n = {
12831     \%hbox_set:Nn\l_mix_poster_box{#1}
12832     \sbox\l_mix_poster_box{\if@RTL\beginR\fi#1\if@RTL\endR\fi}
12833     \mix_pdfxform:n{\l_mix_poster_box}
12834     \tl_gset:Nx\g_mix_overbtn_tl{\mix_pdflastxform:}
12835   },
12836   overface .value_required:n = {true},
12837
12838   downface .code:n = {
12839     \%hbox_set:Nn\l_mix_poster_box{#1}
12840     \sbox\l_mix_poster_box{\if@RTL\beginR\fi#1\if@RTL\endR\fi}
12841     \mix_pdfxform:n{\l_mix_poster_box}
12842     \tl_gset:Nx\g_mix_downbtn_tl{\mix_pdflastxform:}
12843   },
12844   downface .value_required:n = {true},
12845
12846   3Dgotoview .code:n = {
12847     \tl_set:Nx\l_tmpa_tl{#1} %extract ref
12848     \regex_replace_once:nnN{([~:]+):??.*}{\1}\l_tmpa_tl
12849     \tl_trim_spaces:N\l_tmpa_tl
12850     \tl_if_exist:cTF{ann@\l_tmpa_tl}{
12851       \str_if_eq_x:nnF{\tl_use:c{ann@\l_tmpa_tl}}{draft}{
12852         \tl_set:Nx\l_tmpb_tl{#1} %extract idx
12853         \regex_replace_once:nnN{([~:]+:?)}{\1}\l_tmpb_tl
12854         \tl_trim_spaces:N\l_tmpb_tl
12855         \tl_if_blank:VF\l_tmpb_tl{
12856           \regex_match:nVTF{^[DFLNP]$}\l_tmpb_tl{
12857             \tl_set:Nx\l_mix_vidx_tl{/ \l_tmpb_tl}
12858           }{
12859             \regex_match:nVTF{^~\d+$}\l_tmpb_tl{
12860               \tl_set:Nx\l_mix_vidx_tl{~ \l_tmpb_tl}
12861             }{
12862               \regex_replace_once:nnN{^~(\s*)}{\1}\l_tmpb_tl
12863               \regex_replace_once:nnN{\s*~}{\1}\l_tmpb_tl
12864               \tl_set:Nx\l_mix_vidx_tl{~ (\l_tmpb_tl)}
12865             }
12866           }
12867         }

```



```

12868     \mix_pdfobj:nnn{}{dict}{
12869       /S/JavaScript/JS~(
12870         if(typeof(annotRM)=='undefined'){annotRM=new~Array();}
12871         if(typeof(annotRM['\l_tmpa_tl'])=='undefined'){
12872           annotRM['\l_tmpa_tl']=
12873             this.getAnnotRichMedia(\tl_use:c{page@\l_tmpa_tl},'\l_tmpa_tl');
12874         }
12875         annotRM['\l_tmpa_tl'].activated=true;
12876       )
12877       \tl_if_blank:VF\l_tmpb_tl{
12878         /Next~<<
12879         /S/GoTo3DView
12880         /TA~\tl_use:c{ann@\l_tmpa_tl}
12881         /V\l_mix_vidx_tl
12882       >>
12883     }
12884   }
12885   \tl_gput_right:Nx\g_mix_btnactions_tl{~\mix_pdflastobj:}
12886 }
12887 }{
12888   \msg_warning:nnx{media9}{undefined~reference}{\l_tmpa_tl}
12889   \cs_if_exist:NF\g_mix_refundefwarned_tl{
12890     \tl_new:N\g_mix_refundefwarned_tl
12891     \AtEndDocument{\msg_warning:nn{media9}{undefined~references}}
12892   }
12893 }
12894 },
12895 3Dgotoview .value_required:n = {true},
12896
12897 mediacommand .code:n = {
12898   \tl_set:Nx\l_tmpa_tl{#1}
12899   \regex_replace_once:nnN{([~:]+):??.*}{\l}\l_tmpa_tl %extract ref
12900   \tl_trim_spaces:N\l_tmpa_tl
12901   \tl_if_exist:cTF{ann@\l_tmpa_tl}{
12902     \str_if_eq_x:nnF{\tl_use:c{ann@\l_tmpa_tl}}{draft}{
12903       \tl_set:Nx\l_tmpb_tl{#1}
12904       \regex_replace_once:nnN{[~:]+\?:?}{\l}\l_tmpb_tl
12905       \tl_trim_spaces:N\l_tmpb_tl
12906       \regex_replace_all:nnN{^{\|\\}$}{\l}\l_tmpb_tl
12907       \tl_set:Nx\l_mix_cmd_tl{
12908         \exp_after:wN\mix_separate_cmd_from_actn:w\l_tmpb_tl[]\q_stop}
12909       \tl_trim_spaces:N\l_mix_cmd_tl
12910       \tl_set:Nx\l_mix_arg_tl{
12911         \exp_after:wN\mix_separate_arg_from_actn:w\l_tmpb_tl[]\q_stop}
12912       \tl_trim_spaces:N\l_mix_arg_tl
12913       \mix_pdfobj:nnn{}{dict}{
12914         /S/JavaScript/JS~(
12915           if(typeof(annotRM)=='undefined'){annotRM=new~Array();}
12916           if(typeof(annotRM['\l_tmpa_tl'])=='undefined'){
12917             annotRM['\l_tmpa_tl']=

```



```

12918         this.getAnnotRichMedia(\tl_use:c{page@\l_tmpa_tl},'\l_tmpa_tl');
12919     }
12920     annotRM['\l_tmpa_tl'].activated=true;
12921 )
12922 \tl_if_blank:VF\l_mix_cmd_tl{
12923     /Next~<<
12924     /S/RichMediaExecute
12925     /TA~\tl_use:c{ann@\l_tmpa_tl}
12926     /TI~\tl_use:c{main@\l_tmpa_tl}
12927     /CMD~<<
12928     /C~(\l_mix_cmd_tl)
12929     \tl_if_blank:VF\l_mix_arg_tl{
12930         /A~[\l_mix_arg_tl]
12931     }
12932     >>
12933     >>
12934 }
12935 }
12936 \tl_gput_right:Nx\g_mix_btnactions_tl{~\mix_pdflastobj:}
12937 }
12938 }{
12939     \msg_warning:nnx{media9}{undefined~reference}{\l_tmpa_tl}
12940     \cs_if_exist:NF\g_mix_refundefwarned_tl{
12941         \tl_new:N\g_mix_refundefwarned_tl
12942         \AtEndDocument{\msg_warning:nn{media9}{undefined~references}}
12943     }
12944 }
12945 },
12946 mediacommand .value_required:n = {true},
12947
12948 jsaction .code:n = {
12949     \tl_set:Nx\l_tmpa_tl{#1}
12950     \regex_match:nVTF{^[^\:]+:.*$}\l_tmpa_tl{
12951         \regex_replace_once:nnN{([^\:]+):??.*}{\1}\l_tmpa_tl %extract ref
12952         \tl_trim_spaces:N\l_tmpa_tl
12953     }{\tl_clear:N\l_tmpa_tl}
12954     \tl_set:Nx\l_tmpb_tl{#1}
12955     \tl_if_blank:VF\l_tmpa_tl{
12956         \tl_if_exist:cF{ann@\l_tmpa_tl}{
12957             \msg_warning:nnx{media9}{undefined~reference}{\l_tmpa_tl}
12958             \cs_if_exist:NF\g_mix_refundefwarned_tl{
12959                 \tl_new:N\g_mix_refundefwarned_tl
12960                 \AtEndDocument{\msg_warning:nn{media9}{undefined~references}}
12961             }
12962         }
12963         \regex_replace_once:nnN{^[^\:]+:}{\1}\l_tmpb_tl
12964     }
12965     \tl_set:Nx\l_tmpb_tl{\exp_after:wN\use:n\l_tmpb_tl}
12966     \tl_trim_spaces:N\l_tmpb_tl
12967     \tl_if_blank:VF\l_tmpb_tl{

```



```

12968 \mix_pdfobj:nnn{}{dict}{
12969   /S/JavaScript/JS~(
12970     try{\l_tmpb_tl}catch(e){console.show();console.println(e)}}}
12971 \bool_if:nT{
12972   \tl_if_exist_p:c{ann@\l_tmpa_tl}&&
12973   !\str_if_eq_x_p:nn{\tl_use:c{ann@\l_tmpa_tl}}{draft}
12974 }{
12975   \mix_pdfobj:nnn{}{dict}{
12976     /S/JavaScript/JS~(
12977       if(typeof(annotRM)=='undefined'){annotRM=new~Array();}
12978       if(typeof(annotRM['\l_tmpa_tl'])=='undefined'){
12979         annotRM['\l_tmpa_tl']=
12980         this.getAnnotRichMedia(\tl_use:c{page@\l_tmpa_tl},'\l_tmpa_tl');
12981       }
12982       annotRM['\l_tmpa_tl'].activated=true;
12983     )
12984     \tl_if_blank:VF\l_tmpb_tl{/Next~\mix_pdflastobj:}
12985   }
12986 }
12987 \bool_if:nT{
12988   \tl_if_exist_p:c{ann@\l_tmpa_tl}&&
12989   !\str_if_eq_x_p:nn{\tl_use:c{ann@\l_tmpa_tl}}{draft}||
12990   !\tl_if_blank_p:V\l_tmpb_tl
12991 }{
12992   \tl_gput_right:Nx\g_mix_btnactions_tl{~\mix_pdflastobj:}
12993 }
12994 },
12995 jsaction .value_required:n = {true},
12996
12997 unknown .code:n = {
12998   \msg_error:nnx{media9}{unknown~option}{\l_keys_key_tl}
12999 }
13000 }
13001
13002
13003 \RenewDocumentCommand\includemedia{0{mm}}{~%#1 options, #2 text/image #3 media file
13004   \mix_uriend:
13005   \group_begin:
13006   \beginL
13007   \leavevmode
13008   %empty stream as appearance dummy
13009   \cs_if_exist:NF\g_mix_appearance_tl{
13010     \hbox_set:Nn\l_mix_poster_box{\phantom{\rule{1pt}{1pt}}}
13011     \mix_pdfxform:n{\l_mix_poster_box}
13012     \tl_gset:Nx\g_mix_appearance_tl{\mix_pdflastxform:}
13013   }
13014   \mix_reset:
13015   \mix_uribegin: %treat URI characters correctly
13016   \keys_set:nn{media9/user}{#1}
13017   \mix_uriend:

```



```

13018 \tl_greplace_all:Nnn\g_mix_flashvars_tl{~&}{&}
13019 \tl_greplace_all:Nnn\g_mix_flashvars_tl{&~}{&}
13020 \tl_greplace_all:Nnn\g_mix_flashvars_tl{~=}{=}
13021 \tl_greplace_all:Nnn\g_mix_flashvars_tl{=}{=}
13022 \tl_gtrim_spaces:N\g_mix_flashvars_tl
13023
13024 \cs_if_exist:NT\Ginput@path{\cs_set_eq:NN\input@path\Ginput@path}
13025
13026 %\hbox_set:Nn\l_mix_poster_box{\group_begin:#2\group_end:}
13027 %\hbox_set:Nn\l_mix_poster_box{#2}
13028 \sbox\l_mix_poster_box{\if@RTL\beginR\fi#2\if@RTL\endR\fi}
13029 \mix_scale:n{\l_mix_poster_box}
13030 \bool_if:nT{
13031   \dim_compare_p:n{\g_mix_tt_tl=\c_zero_dim}||
13032   \dim_compare_p:n{\g_mix_wd_tl=\c_zero_dim}
13033 }{
13034   \tl_gset:Nn\g_mix_usrpbtn_tl{none}
13035 }
13036 \bool_if:NTF\g_mix_usrdraft_bool{
13037   \tl_if_empty:NF\g_mix_usrlabel_tl{
13038     \mix_keytoaux_now:nn{ann@\g_mix_usrlabel_tl}{draft}
13039   }
13040   \tl_if_blank:oTF{#2}{
13041     \mix_uribegin: %treat URI characters correctly
13042     \mix_draftbox:n{\tl_to_str:n{#3}}
13043     \mix_uriend:
13044   }{
13045     \hbox_to_wd:nn{\g_mix_wd_tl}{
13046       \vrule~width~\c_zero_dim~height~\g_mix_ht_tl~depth~\g_mix_dp_tl
13047       \box_use:N\l_mix_poster_box\hss
13048     }
13049   }
13050 }{
13051   \bool_if:nF{\str_if_eq_p:Vn\g_mix_usrpbtn_tl{none}}{
13052     %attach script that switches off play button overlay upon activation
13053     \mix_pdfobj:nnn{}{stream}{
13054       {}{
13055         var~ocgs=host.getOCGs(host.pageNum);
13056         for(var~i=0;i<ocgs.length;i++){
13057           if(ocgs[i].name=='MediaPlayerButton\int_use:N\g_mix_rmcnt_int'){
13058             ocgs[i].state=false;
13059           }
13060         }
13061       }
13062     }
13063     \mix_pdfobj:nnn{}{dict}{
13064       /Type/Filespec/EF~<</F~\mix_pdflastobj:>>/F~(btnoff)%/UF~(btnoff)
13065     }
13066     \tl_gset:Nx\g_mix_assets_tl{(btnoff)~\mix_pdflastobj:}
13067     \tl_set:Nx\l_mix_scripts_tl{\mix_pdflastobj:~}

```



```

13068      %enforce plain playbutton overlay for XeTeX
13069      \sys_if_engine_xetex:T{\tl_gset:Nn\g_mix_usrpbtn_tl{plain}}
13070    }
13071    %embed main asset
13072    \mix_uribegin:
13073    \mix_embedasset:n{#3}
13074    \bool_if:nTF{
13075      \str_if_eq_p:Vn\l_mix_ext_tl{prc}||\str_if_eq_p:Vn\l_mix_ext_tl{u3d}
13076    }{
13077      \bool_gset_true:N\g_mix_iiid_bool
13078      \tl_gset:Nn\g_mix_mainassetsub_tl{3D}
13079    }{
13080      \str_case_x:nnF{\l_mix_base_tl}{
13081        {APlayer}{\tl_gset:Nn\g_mix_mainassetsub_tl{Sound}}
13082        {AudioPlayer}{\tl_gset:Nn\g_mix_mainassetsub_tl{Sound}}
13083        {VPlayer}{\tl_gset:Nn\g_mix_mainassetsub_tl{Video}}
13084        {VideoPlayer}{\tl_gset:Nn\g_mix_mainassetsub_tl{Video}}
13085        {StrobeMediaPlayback}{\tl_gset:Nn\g_mix_mainassetsub_tl{Video}}
13086      }{\tl_gset:Nn\g_mix_mainassetsub_tl{Flash}}
13087    }
13088    \tl_gset:Nx\g_mix_mainasset_tl{~\g_mix_lastasset_tl}
13089    \mix_uriend:
13090    %secondary assets (added by addresource)
13091    \seq_map_function:NN\g_mix_res_seq\mix_embedasset:n
13092    \seq_map_inline:Nn\g_mix_script_seq{
13093      \mix_embedasset:n{##1}
13094      \tl_put_right:Nx\l_mix_scripts_tl{~\g_mix_lastasset_tl}
13095    }
13096    %attach 3D calculation script
13097    \bool_if:nT{\g_mix_iiid_bool && \g_mix_iiidcalc_bool}{
13098      \mix_embedasset:n{3Dmenu.js}
13099      \tl_put_left:Nx\l_mix_scripts_tl{\g_mix_lastasset_tl~}
13100    }
13101    %create 3D views from file (option 3Dviews)
13102    \bool_if:nT{\g_mix_iiid_bool && !(\tl_if_blank_p:V\g_mix_vfile_tl)}{
13103      \tl_set:Nn\l_mix_level_tl{\c_minus_one}
13104      \int_zero:N\l_mix_viewcnt_int
13105      \int_zero:N\l_mix_lineno_int
13106
13107      \ior_open:Nn\l_mix_vfile_stream{\g_mix_vfile_tl}
13108      \ior_map_inline:Nn\l_mix_vfile_stream{
13109        \int_incr:N\l_mix_lineno_int
13110        \keys_set:nn{media9/views}{##1} %process input line
13111      }
13112      \ior_close:N\l_mix_vfile_stream
13113    }
13114    \bool_if:nT{ %create default 3D view if required
13115      \g_mix_iiid_bool &&
13116      (\g_mix_opt_iiidview_bool || \tl_if_blank_p:V\l_mix_iiidviewarray_tl)
13117    }{

```



```

13118 \tl_set_eq:NN\l_mix_bg_tl\g_mix_opt_bg_tl
13119 \tl_set_eq:NN\l_mix_ls_tl\g_mix_opt_ls_tl
13120 \tl_set_eq:NN\l_mix_rm_tl\g_mix_opt_rm_tl
13121 \tl_set_eq:NN\l_mix_psob_tl\g_mix_opt_psob_tl
13122 \tl_set_eq:NN\l_mix_coo_tl\g_mix_opt_coo_tl
13123 \tl_set_eq:NN\l_mix_ctoc_tl\g_mix_opt_ctoc_tl
13124 \tl_set_eq:NN\l_mix_ciiw_tl\g_mix_opt_ciiw_tl
13125
13126 \fp_set_eq:NN\l_mix_roo_fp\g_mix_opt_roo_fp
13127 \fp_set_eq:NN\l_mix_aac_fp\g_mix_opt_aac_fp
13128 \fp_set_eq:NN\l_mix_oscale_fp\g_mix_opt_oscale_fp
13129 \fp_set_eq:NN\l_mix_roll_fp\g_mix_opt_roll_fp
13130
13131 \bool_set_eq:NN\l_mix_ciiw_bool\g_mix_opt_ciiw_bool
13132 \bool_set_eq:NN\l_mix_iiidortho_bool\g_mix_opt_iiidortho_bool
13133 \tl_clear:N\l_mix_naarray_tl
13134
13135 \bool_if:NF\l_mix_ciiw_bool{
13136   \tl_set:Nx\l_mix_args_tl{\l_mix_coo_tl\space\l_mix_ctoc_tl\space}
13137   \exp_after:wN\mix_calc_ciiw:w\l_mix_args_tl\q_stop
13138 }
13139
13140 \tl_clear:N\l_mix_naarray_tl
13141 \tl_clear:N\l_mix_saarray_tl
13142 \tl_set_eq:NN\l_mix_nr_tl\g_mix_nrdflt_tl
13143
13144 \mix_view:n{Default}
13145 \tl_set:Nx\l_mix_dfltview_tl{\mix_pdflastobj:}
13146
13147 }
13148 \mix_pdfobj:nnn{}{dict}{
13149   /Type/RichMediaInstance
13150   /Subtype/\g_mix_mainassetsub_tl
13151   /Asset~\g_mix_mainasset_tl
13152   \bool_if:NF\g_mix_iiid_bool{
13153     /Params~<<
13154     /Binding\str_if_eq:VnTF\g_mix_transp_tl{true}{
13155       /Foreground
13156     }{
13157       /Background
13158     }
13159     \tl_if_blank:VF\g_mix_flashvars_tl{
13160       /FlashVars~(\g_mix_flashvars_tl)
13161     }
13162     >>
13163   }
13164 }
13165 \tl_if_empty:NF\g_mix_usrlabel_tl{
13166   \mix_keytoaux_now:nn{main@\g_mix_usrlabel_tl}{\mix_pdflastobj:}
13167 }

```



```

13168 \mix_pdfobj:nnn{}{dict}{
13169     /Type/RichMediaConfiguration
13170     /Subtype/\g_mix_mainassetsub_tl
13171     /Instances~[\mix_pdflastobj:]
13172 }
13173 \mix_pdfobj:nnn{}{dict}{
13174     /Type/RichMediaContent
13175     /Assets~<</Names~[\g_mix_assets_tl]>>
13176     /Configurations~[\mix_pdflastobj:]
13177     \bool_if:nT{
13178         \g_mix_iiid_bool && !(\tl_if_empty_p:V\l_mix_iiidviewarray_tl)
13179     }{
13180         /Views~[\l_mix_iiidviewarray_tl]
13181     }
13182 }
13183 \tl_set:Nx\l_mix_content_tl{\mix_pdflastobj:}
13184 \bool_if:nT{
13185     \g_mix_iiid_bool && \str_if_eq_p:Vn\g_mix_playtpe_tl{Oscillating}
13186 }{
13187     \tl_gset:Nx\g_mix_playcnt_tl{\int_eval:n{\g_mix_playcnt_tl*2}}
13188 }
13189 %determine floating window size
13190 \bool_if:NT\g_mix_opt_windowed_bool{
13191     \exp_after:wN\mix_parse_winsizearg:w\g_mix_winsize_tl\q_stop
13192 }
13193 \mix_pdfobj:nnn{}{dict}{
13194     /Activation~<<
13195     /Condition\g_mix_act_tl
13196     \bool_if:nT{
13197         \g_mix_iiid_bool &&
13198         !(\str_if_eq_p:Vn\g_mix_playtpe_tl{None})
13199     }{%seems to work only with 3D content
13200     /Animation~<<
13201         /Subtype/\g_mix_playtpe_tl
13202         /PlayCount~\g_mix_playcnt_tl
13203         /Speed~\g_mix_playspd_tl
13204     >>
13205 }
13206 \bool_if:nT{
13207     \g_mix_iiid_bool && (
13208         \g_mix_opt_iiidview_bool || \tl_if_blank_p:V\l_mix_iiidviewarray_tl
13209     )
13210 }{/View~\l_mix_dfltview_tl}
13211 /Presentation~<<
13212     /Transparent~\g_mix_transp_tl
13213     \bool_if:NTF\g_mix_opt_windowed_bool{
13214         /Style/Windowed
13215         /Window~<<
13216             /Width~<</Default~\tl_mix_fltd>>
13217             /Height~<</Default~\tl_mix_fltht>>

```





```

13218         /Position~<<
13219         /HOffset~0/VOffset~0
13220         \str_case_x:nnF{\g_mix_winpos_tl}{
13221             {tl}{/VAlign/Near/HAlign/Near}
13222             {cl}{/VAlign/Center/HAlign/Near}
13223             {bl}{/VAlign/Far/HAlign/Near}
13224             {bc}{/VAlign/Far/HAlign/Center}
13225             {br}{/VAlign/Far/HAlign/Far}
13226             {cr}{/VAlign/Center/HAlign/Far}
13227             {tr}{/VAlign/Near/HAlign/Far}
13228             {tc}{/VAlign/Near/HAlign/Center}
13229         }{/HAlign/Center/VAlign/Center}
13230     >>
13231     >>
13232     }{
13233         /Style/Embedded
13234     }
13235     \bool_if:NTF\g_mix_iid_bool{
13236         /Toolbar~\g_mix_tools_tl
13237         /NavigationPane~\g_mix_nav_tl
13238     }{
13239         /PassContextClick~\g_mix_contextclick_tl
13240     }
13241     >>
13242     \tl_if_blank:VF\l_mix_scripts_tl{/Scripts~[\l_mix_scripts_tl]}
13243     >>
13244     /Deactivation~<</Condition\g_mix_deact_tl>>
13245 }
13246 \tl_set:Nx\l_mix_settings_tl{\mix_pdflastobj:}
13247 \tl_if_empty:NF\g_mix_usrlabel_tl{
13248     \tl_gset_eq:NN\g_mix_label_tl\g_mix_usrlabel_tl
13249 }
13250 % #1:width, #2:height, #3:depth, #4:content (key-value)
13251 \mix_pdfannot:nnnn{\g_mix_wd_tl}{\g_mix_ht_tl}{\g_mix_dp_tl}{
13252     /Subtype/RichMedia
13253     /F~4\cs_if_exist_use:N\ocgxii@insert@OC
13254     /BS~<</W~0/S/S>>
13255     /Contents~(media~embedded~by~media9~[\g_mix_version_tl~(\g_mix_date_tl)])
13256     /NM~(\g_mix_label_tl)
13257     /AP~<</N~\g_mix_appearance_tl>>
13258     /RichMediaSettings~\l_mix_settings_tl
13259     /RichMediaContent~\l_mix_content_tl
13260 }
13261 \tl_if_empty:NF\g_mix_usrlabel_tl{
13262     \mix_keytoaux_now:nn{ann@\g_mix_usrlabel_tl}{\mix_pdflastann:}
13263     \mix_keytoaux_shipout:nn{page@\g_mix_usrlabel_tl}{
13264         \noexpand\the\g@mix@page@int}
13265 }
13266 \mix_pdfobj:nnn{}{dict}{
13267     /S/JavaScript/JS~(

```



```

13268     try{
13269         if(typeof(annotRM)=='undefined'){annotRM=new~Array();}
13270         if(typeof(annotRM['\g_mix_label_tl'])=='undefined'){
13271             annotRM['\g_mix_label_tl']=
13272                 this.getAnnotRichMedia(this.pageNum,'\g_mix_label_tl');
13273         }
13274         \str_if_eq_x:nnF{\g_mix_usrpbtn_tl}{none}{
13275             if(typeof(ocgBtn\int_use:N\g_mix_rmcnt_int)=='undefined'){
13276                 var~ocgs=this.getOCGs(this.pageNum);
13277                 for(var~i=0;i<ocgs.length;i++){
13278                     if(ocgs[i].name=='MediaPlayButton\int_use:N\g_mix_rmcnt_int'){
13279                         var~ocgBtn\int_use:N\g_mix_rmcnt_int=ocgs[i];
13280                     }
13281                 }
13282             }
13283             if(
13284                 !annotRM['\g_mix_label_tl'].activated&&(
13285                     app.viewerType=='Reader' ||
13286                     app.viewerType=='Exchange' ||
13287                     app.viewerType=='Exchange-Pro'
13288                 )&&app.viewerVersion>=9
13289             ){
13290                 ocgBtn\int_use:N\g_mix_rmcnt_int.state=true;
13291             }
13292         }
13293     }catch(e){}
13294     this.dirty=false;
13295 )
13296 }
13297 \mix_pdfannot:nnnn{Opt}{Opt}{Opt}{
13298     /Subtype/Widget
13299     /FT/Btn/Ff~65537/F~2
13300     /BS~<</W~0>>
13301     /T~(fd@\g_mix_label_tl)
13302     /AA~<</PO~\mix_pdflastobj:~/PV~\mix_pdflastobj:>>
13303 }
13304 \mix_appendtofields:n{\mix_pdflastann:}
13305 \hbox_overlap_right:n{\box_use:N\l_mix_poster_box}
13306 \str_if_eq_x:nnTF{\g_mix_usrpbtn_tl}{none}{
13307     \hbox_to_wd:nn{\g_mix_wd_tl}{
13308         \vrule~width~\c_zero_dim~height~\g_mix_ht_tl~depth~\g_mix_dp_tl\hss
13309     }
13310 }{%insert play button overlay
13311     \mix_insert_btnocg: %create OCG
13312     \cs_gset_eq:Nc\mix_pbtn:NN{g@mix@pbtn@\g_mix_usrpbtn_tl @tl}
13313     %\hbox_set:Nn\l_mix_pbtn_box{\mix_pbtn:NN\g_mix_wd_tl\g_mix_tt_tl}
13314     \sbox\l_mix_pbtn_box{\mix_pbtn:NN\g_mix_wd_tl\g_mix_tt_tl}
13315     \box_move_down:nn{\g_mix_dp_tl}{
13316         \hbox_to_wd:nn{\g_mix_wd_tl}{
13317             \vbox_to_ht:nn{\g_mix_tt_tl}{

```



```

13318         \vss
13319         \ocgbase_oc_bdc:n{\g_mix_btnocg_tl}
13320         \box_use:N\l_mix_pbtn_box
13321         \ocgbase_oc_emc:
13322     }
13323 }
13324 }
13325 }
13326 \int_gincr:N\g_mix_rmcnt_int
13327 }
13328 \endL
13329 \group_end:
13330 }
13331 \tl_set_eq:NN\l_mix_includemedia_tl\includemedia
13332 \tl_set:Nn\includemedia{\mix_uribegin:\l_mix_includemedia_tl}
13333
13334
13335
13336 \RenewDocumentCommand\mediabutton{0{ }m}{%#1 options, #2 normal button text
13337     \mix_uriend:
13338     \group_begin:
13339     \beginL
13340     \leavevmode
13341     %reset various variables
13342     \tl_gclear:N\g_mix_overbtn_tl
13343     \tl_gclear:N\g_mix_downbtn_tl
13344     \tl_gclear:N\g_mix_btnactions_tl
13345     \tl_gclear:N\g_mix_tooltip_tl
13346     %process options
13347     \bool_gset_eq:NN\g_mix_btndraft_bool\g_mix_pkgdraft_bool
13348     \mix_uribegin: %treat URI characters correctly
13349     \keys_set:nn{media9/mbtndraft}{#1} %detect draft/final on first pass
13350     \bool_if:NF\g_mix_btndraft_bool{\keys_set:nn{media9/mbtn}{#1}}
13351     \mix_uriend:
13352     %normal button appearance
13353     %\hbox_set:Nn\l_mix_poster_box{#2}
13354     \sbox\l_mix_poster_box{\if@RTL\beginR\fi#2\if@RTL\endR\fi}
13355     \tl_set:Nx\width {\dim_use:N\box_wd:N\l_mix_poster_box}
13356     \tl_set:Nx\height{\dim_use:N\box_ht:N\l_mix_poster_box}
13357     \tl_set:Nx\depth {\dim_use:N\box_dp:N\l_mix_poster_box}
13358     \bool_if:NTF\g_mix_btndraft_bool{\box_use:N\l_mix_poster_box}{
13359         \mix_pdfxform:n{\l_mix_poster_box}
13360         \tl_set:Nx\g_mix_normalbtn_tl{\mix_pdflastxform:}
13361         \bool_if:nT{ %dummy Widget for ocgx2, AR seems to need it
13362             \cs_if_exist_p:N\ocgxii@insert@OC && !\tl_if_blank_p:V\ocgxii@insert@OC
13363             !\cs_if_exist:NTF\ocgxii@insert@OC{
13364                 \tl_if_blank_p:V\ocgxii@insert@OC
13365             }{
13366                 \c_true_bool
13367             }

```



```

13368 }{\mix_pdfannot:nnnn{\width}{\height}{\depth}{/Subtype/Widget/F-2}}
13369 %insert widget annotation
13370 \mix_pdfannot:nnnn{\width}{\height}{\depth}{
13371   /Subtype/Widget
13372   /T~(mbtn@int_use:N\g_mix_mbtncnt_int)
13373   \tl_if_empty:NF\g_mix_tooltip_tl{/TU~(\g_mix_tooltip_tl)}
13374   /FT/Btn/Ff~65536\cs_if_exist_use:N\ocgxii@insert@OC
13375   \tl_if_empty:NTF\g_mix_downbtn_tl{/H/I}{/H/P}
13376   /AP~<<
13377   /N~\g_mix_normalbtn_tl
13378   \tl_if_empty:NF\g_mix_overbtn_tl{/R~\g_mix_overbtn_tl}
13379   \tl_if_empty:NF\g_mix_downbtn_tl{/D~\g_mix_downbtn_tl}
13380   >>
13381   /MK~<<
13382   /TP~1~/IF~<</S/A/FB~true/A~[0.0~0.0]>>
13383   /I~\g_mix_normalbtn_tl
13384   \tl_if_empty:NF\g_mix_overbtn_tl{/RI~\g_mix_overbtn_tl}
13385   \tl_if_empty:NF\g_mix_downbtn_tl{/IX~\g_mix_downbtn_tl}
13386   >>
13387   /A~<<
13388   /S/JavaScript/JS~(app.focusRect=false;)
13389   %sequence of actions to perform
13390   \tl_if_empty:NF\g_mix_btnactions_tl{/Next~[\g_mix_btnactions_tl]}
13391   >>
13392 }
13393 \mix_appendtofields:n{\mix_pdflastann:}
13394 \hbox_to_wd:nn{\width}{
13395   \vrule~width~\c_zero_dim~height~\height~depth~\depth\hss
13396 }
13397 \int_gincr:N\g_mix_mbtncnt_int
13398 }
13399 \endL
13400 \group_end:
13401 }
13402 \tl_set_eq:NN\l_mix_mediabutton_tl\mediabutton
13403 \tl_set:Nn\mediabutton{\mix_uribegin:\l_mix_mediabutton_tl}
13404
13405
13406

```

## 7.78 memoir-xetex-bidi.def

```

13407 \ProvidesFile{memoir-xetex-bidi.def}[2010/07/25 v0.5 bidi adaptations for memoir class for Xe
13408 \renewcommand{\keepthetitle}{%
13409   \@bsmtitleempty
13410   \global\let\thanks\relax
13411   \global\let\LTRthanks\relax
13412   \global\let\RTLthanks\relax
13413   \global\let\and\relax
13414   \global\let\andnext\relax

```



```

13415 \global\let\@thanks\@empty
13416 \global\let\@title\@empty
13417 \global\let\@author\@empty
13418 \global\let\@date\@empty}
13419 \renewcommand{\maketitle}{\par
13420 \begingroup
13421   \@bsmarkseries
13422   \def\@makefnmark{\@textsuperscript{%
13423     \normalfont\@bsthanksheadpre \tamark \@bsthanksheadpost}}}%
13424   \long\def\@makefntext##1{\makethanksmark ##1}
13425   \if@twocolumn
13426     \ifnum \col@number=\@ne
13427       \@maketitle
13428     \else
13429       \twocolumn[\@maketitle]%
13430     \fi
13431   \else
13432     \ifdim\pagetotal>z@
13433       \newpage
13434     \fi
13435     \global\@topnum\z@
13436     \@maketitle
13437   \fi
13438   \thispagestyle{title}\@thanks
13439 \endgroup
13440 \bscontmark % \setcounter{footnote}{0}%
13441 }
13442 \renewcommand*{\memRTLleftskip}{\if@RTL\rightskip\else\leftskip\fi}
13443 \renewcommand*{\memRTLrightskip}{\if@RTL\leftskip\else\rightskip\fi}
13444 \renewcommand*{\memRTLvleftskip}{\if@RTL\vrightskip\else\vleftskip\fi}
13445 \renewcommand*{\memRTLvrightskip}{\if@RTL\vleftskip\else\vrightskip\fi}
13446 \renewcommand*{\memRTLraggedright}{\if@RTL\raggedleft\else\raggedright\fi}
13447 \renewcommand*{\memRTLraggedleft}{\if@RTL\raggedright\else\raggedleft\fi}
13448 \renewcommand*{\thesection}{\thechapter\@SepMark\@arabic\c@section}
13449 \renewcommand*{\thesubsection}{%
13450   \thesection\@SepMark\@arabic\c@subsection}
13451 \renewcommand*{\thesubsubsection}{%
13452   \thesubsection\@SepMark\@arabic\c@subsubsection}
13453 \renewcommand*{\theparagraph}{%
13454   \thesubsubsection\@SepMark\@arabic\c@paragraph}
13455 \renewcommand*{\thesubparagraph}{%
13456   \theparagraph\@SepMark\@arabic\c@subparagraph}
13457 \renewcommand{\setthesection}{\thechapter\@SepMark\Alph{section}}
13458 \renewcommand{\theequation}{%
13459   \ifnum \c@chapter>z@ \thechapter\@SepMark\fi \@arabic\c@equation}
13460 \renewcommand{\thefigure}{\thechapter\@SepMark\@arabic\c@figure}
13461 \renewcommand{\thetable}{\thechapter\@SepMark\@arabic\c@table}
13462 \ifartopt
13463   \chapterstyle{article}
13464   \counterwithout{figure}{chapter}

```



```

13465 \counterwithout{table}{chapter}
13466 \counterwithout{footnote}{chapter}
13467 \counterwithout{equation}{chapter}
13468 \renewcommand{\chaptername}{}
13469 \renewcommand{\maketitlehookb}{%
13470   \vskip -1.5\topsep\vskip -1.5\partopsep}
13471 \renewcommand{\maketitlehookc}{%
13472   \vskip -1.5\topsep\vskip -1.5\partopsep}
13473 \fi
13474 \long\def\@makecaption#1#2{\let\@memtempa\relax
13475   \ifdim\prevdepth>-99\p@ \vskip\abovecaptionskip
13476   \else \def\@memtempa{\vbox to\topskip{}}\fi
13477   \let\@contfnote\footnote \renewcommand{\footnote}[2] [] {}
13478   \let\@contfmark\footnotemark \renewcommand{\footnotemark}[1] [] {}
13479   \sbox\@tempboxa{\@contnfont #1\@contdelim \@conttfont #2\@contfinal}
13480   \let\footnote\@contfnote
13481   \let\footnotemark\@contfmark
13482   \ifdim\wd\@tempboxa<\linewidth \centering \fi
13483   \if@contcw
13484     \centering
13485     \parbox{\@contcwidth}{%
13486       \ifdim\wd\@tempboxa<\@contcwidth \centering \fi
13487     \fi
13488     \ifdim\wd\@tempboxa<\linewidth
13489       \@contpre
13490       {\@contnfont #1\@contdelim}\@memtempa
13491       {\@contcshortstyle \@conttfont #2\@contfinal\par}
13492     \else
13493       \if@conthang
13494         \sbox\@tempboxa{\@contnfont #1\@contdelim}
13495         \@contpre%
13496         {\@contcstyle\hangindent=\wd\@tempboxa
13497           \noindent\box\@tempboxa\@memtempa \@conttfont #2\@contfinal\par}
13498       \else
13499         \if@contindent
13500           \@contpre%
13501           {\@contnfont #1\@contdelim}\@memtempa
13502           {\@contcstyle\hangindent=\@contindw
13503             \hangafter=\@ne\@conttfont #2\@contfinal\par}% <- v1.4
13504         \else
13505           \@contpre%
13506           {\@contnfont #1\@contdelim}\@memtempa
13507           {\@contcstyle \@conttfont #2\@contfinal\par}
13508         \fi
13509       \fi
13510     \fi
13511     \@contpost
13512     \if@contcw
13513       \par
13514     } % end of the \parbox

```



```

13515 \fi
13516 \vskip\belowcaptionskip}
13517 \@ifpackageloaded{caption}{%
13518 \AtBeginPackage{caption}{
13519 \ClassWarningNoLine{memoir}{%
13520 You are using the caption package with the memoir \MessageBreak
13521 class. This may cause unexpected or inconsistent \MessageBreak
13522 results if you use any of memoir's captioning facilities}
13523
13524 \long\def\@makecaption##1##2{%
13525 \vskip\abovecaptionskip
13526 \sbox\@tempboxa{\if@RTL\beginR\fi##1: ##2\if@RTL\endR\fi}%
13527 \ifdim \wd\@tempboxa >\hsize
13528 \if@RTL\beginR\fi##1: ##2\if@RTL\endR\fi\par
13529 \else
13530 \global \@minipagefalse
13531 \hb@xt@\hsize{\hfil\box\@tempboxa\hfil}%
13532 \fi
13533 \vskip\belowcaptionskip}
13534
13535 \def\caption{%
13536 \ifx\@capttype\@undefined
13537 \latexerror{\noexpand\caption outside float}\@ehd
13538 \expandafter\@gobble
13539 \else
13540 \refstepcounter\@capttype
13541 \expandafter\@firstofone
13542 \fi
13543 {\@dblarg{\@caption\@capttype}}}%
13544 }
13545
13546 \long\def\@caption##1[##2]##3{%
13547 \par
13548 \addcontentsline{\csname ext@##1\endcsname}{##1}%
13549 {\protect\numberline{\csname the##1\endcsname}{\ignorespaces ##2}}}%
13550 \begingroup
13551 \@parboxrestore
13552 \if@minipage
13553 \setminipage
13554 \fi
13555 \normalsize
13556 \@makecaption{\csname fnum@##1\endcsname}{\ignorespaces ##3}\par
13557 \endgroup}
13558 }{}
13559 \renewenvironment{thebibliography}[1]{%
13560 \bibsection
13561 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
13562 \begin{bibitemlist}{#1}}{\end{bibitemlist}\postbibhook}

```



## 7.79 midfloat-xetex-bidi.def

```

13563 \ProvidesFile{midfloat-xetex-bidi.def}[2016/05/10 v0.3 bidi adaptations for midfloat package]
13564 \def\RTL@outputdblcol{%
13565   \if@firstcolumn
13566     \global \@firstcolumnfalse
13567     \global\setbox\@leftcolumn\copy\@outputbox
13568     \splitmaxdepth\maxdimen
13569     \vbadness\maxdimen
13570     \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
13571     \setbox\@outputbox\vsplit\@outputbox to\maxdimen
13572     \toks@\expandafter{\topmark}%
13573     \xdef\@firstcoltopmark{\the\toks@}%
13574     \toks@\expandafter{\splitfirstmark}%
13575     \xdef\@firstcolfirstmark{\the\toks@}%
13576     \ifx\@firstcolfirstmark\@empty
13577       \global\let\@setmarks\relax
13578     \else
13579       \gdef\@setmarks{%
13580         \let\firstmark\@firstcolfirstmark
13581         \let\topmark\@firstcoltopmark}%
13582     \fi
13583     \global\c@colht\@colht\global\c@addvipersep\z@
13584     \ifnum\j@o@sk>0
13585       \remove@strip\j@o@sar
13586       \global\@colht\the\j@o@pr
13587       \ifdim\right@cor>\z@
13588         \global\advance\@colht by\right@cor
13589       \fi
13590       \global\advance\@colht by\cor@height
13591       \global\cor@height=0pt
13592     \fi
13593     \global\setbox\@rightcolumn\vbox{%
13594   \else
13595     \ifdim\c@colht>\@colht
13596       \@tempdima\@colht
13597       \ifdim\@colht>\z@
13598         \global\setbox\@rightcolumn\vbox{%
13599           \unvbox\@rightcolumn
13600           \vbox to\@tempdima{%
13601             \vskip\c@addvipersep\unvbox\@outputbox}%
13602           \vskip\stripsep
13603           \vrule height\the\j@o@ht width 0pt depth 0pt
13604           \vskip\stripsep
13605         }%
13606         \global\c@addvipersep\m@addvipersep
13607       \else
13608         \global\setbox\@rightcolumn\vbox{%
13609           \unvbox\@rightcolumn
13610           \vrule height\the\j@o@ht width 0pt depth 0pt

```





```

13611             \vskip\stripsep
13612         }%
13613     \fi
13614     \ifnum\jua@sk>0
13615         \remove@strip\jua@sar
13616         \global\@colht\the\jua@pr
13617         \global\advance\@colht by -\ht\@rightcolumn
13618         \global\advance\@colht by \cor@height
13619         \global\cor@height=0pt
13620     \else
13621         \global\advance\c@colht by-\ht\@rightcolumn
13622         \global\@colht\c@colht
13623     \fi
13624 \else
13625 \global\@firstcolumntrue
13626 \global\setbox\@outputbox\vbox to\ht\@leftcolumn{%
13627     \unvbox\@rightcolumn
13628     \vskip\c@addvipersep
13629     \unvbox\@outputbox
13630 }%
13631 \setbox\@outputbox \vbox {%
13632     \hb@xt@\textwidth {%
13633         \hskip \columnwidth
13634         \hfil
13635         \vrule \@width\columnseprule
13636         \hfil
13637         \hb@xt@\columnwidth {%
13638             \box\@leftcolumn \hss}%
13639         \hskip-\textwidth
13640         \hb@xt@\columnwidth {%
13641             \box\@outputbox \hss}%
13642         \hskip\columnwidth
13643         \hskip\columnsep}%
13644     }%
13645 \@combinedblfloats
13646 \@setmarks
13647 \@outputpage
13648 \begingroup
13649     \@dblfloatplacement
13650     \@startdblcolumn
13651     \@whiles\if@fcolmade \fi
13652     {\@outputpage
13653     \@startdblcolumn}%
13654 \endgroup
13655 \global\jua@sk=0\global\jua@sar={}
13656 \global\cor@height\z@\global\c@addvipersep\z@
13657 \fi
13658 \fi
13659 }
13660

```



```

13661
13662 \def\LTR@outputdblcol{%
13663   \if@firstcolumn
13664     \global \@firstcolumnfalse
13665     \global\setbox\@leftcolumn\copy\@outputbox
13666     \splitmaxdepth\maxdimen
13667     \vbadness\maxdimen
13668     \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
13669     \setbox\@outputbox\vsplit\@outputbox to\maxdimen
13670     \toks@\expandafter{\topmark}%
13671     \xdef\@firstcoltopmark{\the\toks@}%
13672     \toks@\expandafter{\splitfirstmark}%
13673     \xdef\@firstcolfirstmark{\the\toks@}%
13674     \ifx\@firstcolfirstmark\@empty
13675       \global\let\@setmarks\relax
13676     \else
13677       \gdef\@setmarks{%
13678         \let\firstmark\@firstcolfirstmark
13679         \let\topmark\@firstcoltopmark}%
13680     \fi
13681     \global\c@colht\@colht\global\c@addvipersep\z@
13682     \ifnum\jua@sk>0
13683       \remove@strip\jua@sar
13684       \global\@colht\the\jua@pr
13685       \ifdim\right@cor>\z@
13686         \global\advance\@colht by\right@cor
13687       \fi
13688       \global\advance\@colht by\cor@height
13689       \global\cor@height=0pt
13690     \fi
13691     \global\setbox\@rightcolumn\vbox{%
13692   \else
13693     \ifdim\c@colht>\@colht
13694       \@tempdima\@colht
13695       \ifdim\@colht>\z@
13696         \global\setbox\@rightcolumn\vbox{%
13697           \unvbox\@rightcolumn
13698           \vbox to\@tempdima{%
13699             \vskip\c@addvipersep\unvbox\@outputbox}%
13700           \vskip\stripsep
13701           \vrule height\the\jua@ht width 0pt depth 0pt
13702           \vskip\stripsep
13703         }%
13704         \global\c@addvipersep\m@addvipersep
13705       \else
13706         \global\setbox\@rightcolumn\vbox{%
13707           \unvbox\@rightcolumn
13708           \vrule height\the\jua@ht width 0pt depth 0pt
13709           \vskip\stripsep
13710         }%

```



```

13711         \fi
13712         \ifnum\jua@sk>0
13713             \remove@strip\jua@sar
13714             \global\@colht\the\jua@pr
13715             \global\advance\@colht by -\ht\@rightcolumn
13716             \global\advance\@colht by\cor@height
13717             \global\cor@height=0pt
13718         \else
13719             \global\advance\c@colht by-\ht\@rightcolumn
13720             \global\@colht\c@colht
13721         \fi
13722     \else
13723         \global\@firstcolumntrue
13724         \global\setbox\@outputbox\vbox to\ht\@leftcolumn{%
13725             \unvbox\@rightcolumn
13726             \vskip\c@addvipersep
13727             \unvbox\@outputbox
13728             }%
13729         \setbox\@outputbox \vbox {%
13730             \hb@xt@\textwidth {%
13731                 \hb@xt@\columnwidth {%
13732                     \box\@leftcolumn \hss}%
13733                 \hfil
13734                 \vrule \@width\columnseprule
13735                 \hfil
13736                 \hb@xt@\columnwidth {%
13737                     \box\@outputbox \hss}%
13738                 }%
13739             }%
13740         \@combinedblfloats
13741         \@setmarks
13742         \@outputpage
13743         \begingroup
13744             \@dblfloatplacement
13745             \@startdblcolumn
13746             \@whilesw\if@fcolmade \fi
13747                 {\@outputpage
13748                     \@startdblcolumn}%
13749         \endgroup
13750         \global\jua@sk=0\global\jua@sar={}%
13751         \global\cor@height\z@\global\c@addvipersep\z@
13752     \fi
13753 \fi
13754 }
13755
13756
13757 \def\@strip[#1/#2]{\global\@tempdima=#1\global\@tempdimb=#2%
13758     \global \setbox\@viper\vbox\bgroup\if@RTLmain\moveleft\dimexpr(\columnwidth+\columnsep)\fi\
13759         \hsize\textwidth
13760         \@parboxrestore

```



```

13761         \col@number \@ne
13762         \vrule height\topskip width0pt depth0pt
13763     }
13764
13765 \def\endstrip{%
13766     \egroup\egroup
13767     \if@firstcolumn
13768         \ifdim\pagetotal>\z@
13769             \vskip\stripsep
13770             \global\ht@strip\pagegoal
13771             \global\advance\ht@strip by-\pagetotal
13772             \global\advance\ht@strip by-\stripsep
13773             \global\advance\ht@strip by-\ht\@viper
13774             \global\advance\ht@strip by-\stripsep
13775             \global\jua@ht=\ht\@viper
13776         \else
13777             \global\ht@strip\z@
13778         \fi
13779         \ifdim\ht@strip>\z@
13780             \unvbox\@viper
13781             \vskip\stripsep
13782             \add@strip{\the\pagetotal}{\the\jua@ht}{\the\@tempdima}{\the\@tempdimb}%
13783             \global\advance\jua@sk by1
13784         \else
13785             \@latex@error{Strip needs more place!}\@ehc
13786             \if@vihproof
13787                 \framebox[\columnwidth]{??? Strip ???}%
13788             \fi
13789         \fi
13790     \else
13791         \@latex@error{Strip is used only on left column!}\@ehc
13792         \if@vihproof
13793             \framebox[\columnwidth]{??? Strip ???}%
13794         \fi
13795     \fi
13796 }

```

## 7.80 minitoc-xetex-bidi.def

```

13797 \ProvidesFile{minitoc-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for minitoc package fo
13798 \def\@undottedtocline#1#2#3#4#5{%
13799     \ifnum #1>\c@tocdepth\relax \else
13800         \vskip \z@ plus.2\p@
13801         {\if@RTL\rightskip\else\leftskip\fi #2\relax \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
13802         \parindent #2\relax\@afterindenttrue
13803         \interlinepenalty\@M
13804         \leavevmode
13805         \@tempdima #3\relax \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \hbox{}%
13806         \hskip -\if@RTL\rightskip\else\leftskip\fi
13807         #4\nobreak\hfill \nobreak

```



```

13808         \null\par}%
13809     \fi}
13810 \def\@Undottedtocline#1#2#3#4#5{%
13811     \ifnum #1>\c@tocdepth\relax \else
13812         \vskip \z@ \@plus.2\p@
13813         {\if@RTL\rightskip\else\leftskip\fi #2\relax \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
13814         \parindent #2\relax\@afterindenttrue
13815         \interlinepenalty\@M
13816         \leavevmode
13817         \@tempdima #3\relax
13818         \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
13819         {\coffee font #4}\nobreak \nobreak\null
13820     \par}%
13821 \fi}
13822 \def\@Undottedtoclinep#1#2#3#4#5{%
13823     \ifnum #1>\c@tocdepth\relax \else
13824         \vskip \z@ \@plus.2\p@
13825         {\if@RTL\rightskip\else\leftskip\fi #2\relax \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
13826         \parindent #2\relax\@afterindenttrue
13827         \interlinepenalty\@M
13828         \leavevmode
13829         \@tempdima #3\relax
13830         \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
13831         {#4}\nobreak \hfill \nobreak\null
13832         \hb@xt@\@pnumwidth{\{\hfil\normalfont \normalcolor #5}\}%
13833     \par}%
13834 \fi}

```

## 7.81 multicol-xetex-bidi.def

```

13835 \ProvidesFile{multicol-xetex-bidi.def}[2016/11/27 v0.8 bidi adaptations for multicol package]
13836 \def\page@sofar{%
13837     \process@cols\mult@rightbox
13838     {\ifvoid\count@
13839         \setbox\count@\hbox to\hsize{%
13840             \else
13841                 \wd\count@\hsize
13842             \fi}%
13843     \count@\col@number \advance\count@\m@ne
13844     \mult@info\z@
13845     {Column spec: \the\full@width\space = indent
13846         + columns + sep =\MessageBreak
13847         \the\multicol@leftmargin\space
13848         + \the\col@number\space
13849         x \the\hsize\space
13850         + \the\count@\space
13851         x \the\columnsep
13852     }%
13853 \ifvmode\else\errmessage{Multicol Error}\fi
13854 \nointerlineskip

```



```

13855 \setbox\z@\hbox{p}\global\dimen\tw@\dp\z@
13856 \moveright\multicol@leftmargin
13857 \hbox to\full@width{%
13858 \bidi@multicol@align@columns
13859 \rlap{\phantom p}%
13860 }%
13861 \prevdepth\z@
13862 \kern-\dimen\tw@
13863 \ifdim\dimen\tw@ > \mc@gridwarn
13864 \PackageWarning{multicol}%
13865 {Very deep columns!\MessageBreak
13866 Grid alignment might be broken}%
13867 \fi
13868 }
13869 \def\LTR@column@boxes{%
13870 \process@cols\mult@gfirstbox{%
13871 \ifdim\dp\count@>\dimen\tw@
13872 \global\dimen\tw@\dp\count@ \fi
13873 \mc@col@status@write
13874 \box\count@
13875 \hss{\columnseprulecolor\vrule
13876 \@width\columnseprule}\hss}%
13877 \ifdim\dp\mult@rightbox>\dimen\tw@
13878 \global\dimen\tw@\dp\mult@rightbox \fi
13879 \mc@lastcol@status@write
13880 \box\mult@rightbox
13881 }
13882
13883 \def\RTL@column@boxes{%
13884 \ifnum\col@number<\tw@
13885 \LTR@column@boxes
13886 \else
13887 \process@cols\mult@gfirstbox{%
13888 \hskip\hsize
13889 \hss{\columnseprulecolor\vrule
13890 \@width\columnseprule}\hss
13891 }%
13892 \hskip\hsize
13893 \process@cols\mult@gfirstbox{%
13894 \ifdim\dp\count@>\dimen\tw@
13895 \global\dimen\tw@\dp\count@ \fi
13896 \hskip-\hsize
13897 \mc@col@status@write
13898 \box\count@
13899 \hskip-\hsize
13900 \hskip-\columnsep
13901 }%
13902 \ifdim\dp\mult@rightbox>\dimen\tw@
13903 \global\dimen\tw@\dp\mult@rightbox \fi
13904 \hskip-\hsize

```



```

13905     \mc@lastcol@status@write
13906     \box\mult@rightbox
13907     \hskip-\hsize
13908     \hskip\full@width
13909   \fi
13910 }
13911 \newcommand\RTLmulticolcolumns
13912   {\let\ bidi@multicol@align@columns
13913     \RTL@column@boxes}
13914 \newcommand\LTRmulticolcolumns
13915   {\let\ bidi@multicol@align@columns
13916     \LTR@column@boxes}
13917 \newcommand\ bidi@multicol@align@columns
13918   {\if@RTLmain\RTL@column@boxes\else\LTR@column@boxes\fi}
13919 \def\multicols#1{\col@number#1\relax
13920   \ifnum\col@number<\tw@
13921     \PackageWarning{multicol}%
13922       {Using ` \number\col@number'
13923         columns doesn't seem a good idea.^^J
13924         I therefore use two columns instead}%
13925     \col@number\tw@ \fi
13926   \ifnum\col@number>10
13927     \PackageError{multicol}%
13928       {Too many columns}%
13929       {Current implementation doesn't
13930         support more than 10 columns.%
13931       \MessageBreak
13932       I therefore use 10 columns instead}%
13933     \col@number10 \fi
13934   \ifx\@footnotetext\mult@footnotetext\else
13935     \let\orig@footnotetext\@footnotetext
13936     \let\@footnotetext\mult@footnotetext
13937   \fi
13938   \ifx\@LTRfootnotetext\mult@LTRfootnotetext\else
13939     \let\orig@LTRfootnotetext\@LTRfootnotetext
13940     \let\@LTRfootnotetext\mult@LTRfootnotetext
13941   \fi
13942   \ifx\@RTLfootnotetext\mult@RTLfootnotetext\else
13943     \let\orig@RTLfootnotetext\@RTLfootnotetext
13944     \let\@RTLfootnotetext\mult@RTLfootnotetext
13945   \fi
13946   \@ifnextchar[\mult@cols{\mult@cols[]}]
13947 \long\def\mult@footnotetext#1{\begingroup
13948   \hsize\textwidth
13949   \columnwidth\textwidth
13950   \orig@footnotetext{#1}\endgroup}
13951 \long\def\mult@LTRfootnotetext#1{\begingroup
13952   \hsize\textwidth
13953   \columnwidth\textwidth
13954   \orig@LTRfootnotetext{#1}\endgroup}

```



```

13955 \long\def\mult@RTLfootnotetext#1{\begingroup
13956         \hsize\textwidth
13957         \columnwidth\textwidth
13958         \orig@RTLfootnotetext{#1}\endgroup}
13959 \def\right@footnoterule{%
13960     \kern-3\p@
13961     \hbox to \textwidth{\hskip \dimexpr\textwidth-.4\columnwidth\relax \hrulefill }
13962     \kern2.6\p@}
13963 \def\textwidth@footnoterule{\kern-3\p@
13964     \hrule \@width \textwidth \kern 2.6\p@}

```

## 7.82 multienum-xetex-bidi.def

```

13965 \ProvidesFile{multienum-xetex-bidi.def}[2011/04/16 v0.1 bidi adaptations for multienum package]
13966 \renewcommand{\itemx}[1]{\parbox[t]{%
13967     {\labelwidth}{\hfill{\labelname}}\hskip\labelsep%
13968     \parbox[t]{\remainx}{\bidi@raggedright #1}\par}%\smallskip
13969 \renewcommand{\itemxx}[2]{\parbox[t]{%
13970     {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
13971     \parbox[t]{.5\remainxx}{\bidi@raggedright #1}\hfill\parbox[t]{%
13972     {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
13973     \parbox[t]{0.5\remainxx}{\bidi@raggedright #2}\smallskip}
13974 \renewcommand{\itemxxx}[3]{\parbox[t]{%
13975     {\labelwidth}{\hfill{\labelname}}\hskip\labelsep%
13976     \parbox[t]{.3333\remainxxx}{\bidi@raggedright #1}\hfill\parbox[t]{%
13977     {\labelwidth}{\hfill{\labelname}}\hskip\labelsep%
13978     \parbox[t]{0.3333\remainxxx}{\bidi@raggedright #2}\hfill\parbox[t]{%
13979     {\labelwidth}{\hfill{\labelname}}\hskip\labelsep%
13980     \parbox[t]{0.3333\remainxxx}{\bidi@raggedright #3}\par}%\smallskip
13981 \renewcommand{\itemxxxx}[4]{\parbox[t]{%
13982     {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
13983     \parbox[t]{.25\remainxxxx}{\bidi@raggedright #1}\hfill\parbox[t]{%
13984     {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
13985     \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #2}\hfill%
13986     \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
13987     \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #3}\hfill%
13988     \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
13989     \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #4}\smallskip}
13990 \renewcommand{\itemxxxxx}[5]{\parbox[t]{%
13991     {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
13992     \parbox[t]{0.2\remainxxxxx}{\bidi@raggedright #1}\hfill%
13993     \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
13994     \parbox[t]{0.2\remainxxxxx}{\bidi@raggedright #2}\hfill%
13995     \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
13996     \parbox[t]{0.2\remainxxxxx}{\bidi@raggedright #3}\hfill%
13997     \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
13998     \parbox[t]{0.2\remainxxxxx}{\bidi@raggedright #4}\hfill%
13999     \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
14000     \parbox[t]{0.2\remainxxxxx}{\bidi@raggedright #5}\smallskip}
14001 \renewcommand{\itemxox}[2]{\parbox[t]{%

```





```

14002 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
14003 \parbox[t]{\remainxox}{\bidi@raggedright #1}\hfill%
14004 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
14005 \parbox[t]{0.3333\remainxxx}{\bidi@raggedright #2}\smallskip
14006 \renewcommand{\itemxox}[2]{\parbox[t]%
14007 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
14008 \parbox[t]{0.3333\remainxxx}{\bidi@raggedright #1}\hfill%
14009 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
14010 \parbox[t]{\remainxox}{\bidi@raggedright #2}\smallskip
14011 \renewcommand{\itemxox}[3]{\parbox[t]%
14012 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
14013 \parbox[t]{\remainxox}{\bidi@raggedright #1}\hfill%
14014 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
14015 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #2}\hfill%
14016 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
14017 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #3}\smallskip
14018 \renewcommand{\itemxox}[3]{\parbox[t]%
14019 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
14020 \parbox[t]{.25\remainxxxx}{\bidi@raggedright #1}\hfill%
14021 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
14022 \parbox[t]{\remainxox}{\bidi@raggedright #2}\hfill%
14023 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
14024 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #3}\smallskip
14025 \renewcommand{\itemxox}[3]{\parbox[t]%
14026 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
14027 \parbox[t]{.25\remainxxxx}{\bidi@raggedright #1}\hfill%
14028 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
14029 \parbox[t]{.25\remainxxxx}{\bidi@raggedright #2}\hfill%
14030 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
14031 \parbox[t]{\remainxox}{\bidi@raggedright #3}\smallskip

```

### 7.83 natbib-xetex-bidi.def

```

14032 \ProvidesFile{natbib-xetex-bidi.def}[2011/06/04 v0.1 bidi adaptations for natbib package for
14033 \renewenvironment{thebibliography}[1]{%
14034 \bibsection
14035 \parindent\z@
14036 \bibpreamble
14037 \bibfont
14038 \ifRTL\ifLTR\bibitems\@RTLfalse\else\fi\else\ifRTL\bibitems\@RTLtrue\else\fi\fi
14039 \list{\@biblabel{\the\c@NAT@ctr}}{\@bibsetup{#1}\global\c@NAT@ctr\z@}%
14040 \ifNAT@openbib
14041 \renewcommand\newblock{\par}%
14042 \else
14043 \renewcommand\newblock{\hskip .11em \@plus.33em \@minus.07em}%
14044 \fi
14045 \sloppy\clubpenalty4000\widowpenalty4000
14046 \sfcode`\.\@m
14047 \let\NAT@bibitem@first@sw\@firstoftwo
14048 \let\citeN\cite \let\shortcite\cite

```



```

14049 \let\citeasnoun\cite
14050 }{%
14051 \bibitem@fin
14052 \bibpostamble
14053 \def\@noitemerr{%
14054 \PackageWarning{natbib}{Empty `thebibliography' environment}%
14055 }%
14056 \endlist
14057 \bibcleanup
14058 }%

```

## 7.84 newfloat-xetex-bidi.def

```

14059 \ProvidesFile{newfloat-xetex-bidi.def}[2013/05/22 v0.1 bidi adaptations for newfloat package]
14060 \renewcommand*\newfloat@setwithin[2]{%
14061 \ifcsname c@chapter\endcsname
14062 \@removefromreset{#1}{chapter}%
14063 \fi
14064 \@removefromreset{#1}{section}%
14065 \edef\@tempa{#2}%
14066 \ifx\@tempa\@empty
14067 \def\@tempa{none}%
14068 \fi
14069 \def\@tempb{none}%
14070 \ifx\@tempa\@tempb
14071 \ifcsname c@chapter\endcsname
14072 \@chapterlistsgap@off{#1}%
14073 \fi
14074 \newfloat@@setwithin{#1}{-}{-}%
14075 \else
14076 \def\@tempb{chapter}%
14077 \ifx\@tempa\@tempb
14078 \@addtoreset{#1}{chapter}%
14079 \@chapterlistsgap@on{#1}%
14080 \newfloat@@setwithin{#1}{\ifnum\c@chapter>\z@ \thechapter\@SepMark\fi}{\theHchapter\@SepMark}%
14081 \else
14082 \def\@tempb{section}%
14083 \ifx\@tempa\@tempb
14084 \@addtoreset{#1}{section}%
14085 \ifcsname c@chapter\endcsname
14086 \@addtoreset{#1}{chapter}%
14087 \@chapterlistsgap@on{#1}%
14088 \newfloat@@setwithin{#1}{\thesection\@SepMark}{\theHsection\@SepMark}%
14089 \else
14090 \newfloat@@setwithin{#1}{\ifnum\c@section>\z@ \thesection\@SepMark\fi}{\theHsection\@SepMark}%
14091 \fi
14092 \else
14093 \newfloat@Error{Invalid value `#2' for option `within'}%
14094 \fi
14095 \fi

```



```
14096 \fi}
```

## 7.85 ntheorem-xetex-bidi.def

```
14097 \ProvidesFile{ntheorem-xetex-bidi.def}[2012/05/01 v0.1 bidi adaptations for ntheorem package
14098 \gdef\@thm#1#2#3{%
14099   \if@thmmarks
14100     \stepcounter{end\InTheoType ctr}%
14101   \fi
14102   \renewcommand{\InTheoType}{#1}%
14103   \if@thmmarks
14104     \stepcounter{curr#1ctr}%
14105     \setcounter{end#1ctr}{0}%
14106   \fi
14107   \refstepcounter{#2}%
14108   \theorem@prework
14109   \thm@topsepadd \theorempostskipamount % cf. latex.ltx: \@trivlist
14110   \ifvmode \advance\thm@topsepadd\partopsep\fi
14111   \trivlist
14112   \@topsep \theorempreskipamount
14113   \@topsepadd \thm@topsepadd % used by \@endparenv
14114   \advance\linewidth -\theorem@indent
14115   \advance\@totalleftmargin \theorem@indent
14116   \if@RTL\parshape \@one Opt \linewidth\else \parshape \@one \@totalleftmargin \linewidth\fi
14117   \@ifnextchar[{\@ythm{#1}{#2}{#3}}{\@xthm{#1}{#2}{#3}}}
```

## 7.86 ntheorem-hyper-xetex-bidi.def

```
14118 \ProvidesFile{ntheorem-hyper-xetex-bidi.def}[2012/05/01 v0.1 bidi adaptations for ntheorem-hy
14119 \gdef\@thm#1#2#3{%
14120   \if@thmmarks
14121     \stepcounter{end\InTheoType ctr}%
14122   \fi
14123   \renewcommand{\InTheoType}{#1}%
14124   \if@thmmarks
14125     \stepcounter{curr#1ctr}%
14126     \setcounter{end#1ctr}{0}%
14127   \fi
14128   \refstepcounter{#2}%
14129   \thm@topsepadd \theorempostskipamount % cf. latex.ltx: \@trivlist
14130   \ifvmode \advance\thm@topsepadd\partopsep\fi
14131   \trivlist
14132   \@topsep \theorempreskipamount
14133   \@topsepadd \thm@topsepadd % used by \@endparenv
14134   \advance\linewidth -\theorem@indent
14135   \advance\@totalleftmargin \theorem@indent
14136   \if@RTL\parshape \@one Opt \linewidth\else \parshape \@one \@totalleftmargin \linewidth\fi
14137   \@ifnextchar[{\@ythm{#1}{#2}{#3}}{\@xthm{#1}{#2}{#3}}}
```

## 7.87 overpic-xetex-bidi.def

```
14138 \ProvidesFile{overpic-xetex-bidi.def}[2015/12/07 v0.1 bidi adaptations for overpic package fo
```



```

14139 \renewenvironment{overpic}[2][]{%
14140   \sbox{\z@}{\includegraphics[#1]{#2}}%
14141   \settodepth{\@tempcnta}{\usebox{\z@}}%
14142   \settoheight{\@tempcntb}{\usebox{\z@}}%
14143   \advance\@tempcntb\@tempcnta%
14144   \settowidth{\@tempcnta}{\usebox{\z@}}%
14145   \setlength{\@tempdima}{\unitlength}%
14146   \count@=\z@\Gin@gridfalse\setkeys{Gin}{#1}%
14147 %
14148 \OVP@calc%
14149 %
14150 \begin{picture}(\@tempcnta,\@tempcntb)%
14151   \ifRTL\else\put(0,0){\makebox(0,0)[bl]{\usebox{\z@}}}%
14152   \ifGin@grid%
14153     \put(0,0){\normalfont\fontsize\@viipt\@viipt\selectfont%
14154       \grid(\@tempcnta,\@tempcntb)(\count@,\count@)[0,0]}%
14155   \fi\fi%
14156   % reset the graphics parameter
14157   \let\Gin@outer@scalex\relax
14158   \let\Gin@outer@scaley\relax
14159   \let\Gin@angle\relax
14160   \let\Gin@ewidth\Gin@exclamation
14161   \let\Gin@eheight\Gin@ewidth
14162   \def\Gin@scalex{1}
14163   \let\Gin@scaley\Gin@exclamation
14164 }{%
14165   \ifRTL\ifGin@grid%
14166     \put(0,0){\normalfont\fontsize\@viipt\@viipt\selectfont%
14167       \grid(\@tempcnta,\@tempcntb)(\count@,\count@)[0,0]}%
14168   \fi%
14169   \put(0,0){\makebox(0,0)[bl]{\usebox{\z@}}}\fi%
14170 \end{picture}%
14171 }%

```

## 7.88 pdfpages-xetex-bidi.def

```

14172 \ProvidesFile{pdfpages-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for pdfpages package]
14173 \renewcommand*{\includepdf}[2][]{%
14174   \begingroup
14175   \@RTLfalse
14176   \let\AM@threadname\relax
14177   \AM@split@options{pdfpages}{#1}%
14178   \edef\AM@temp{\{pdfpages\}\the\@temptokena}%
14179   \expandafter\setkeys\AM@temp
14180   \ifthenelse{\boolean{AM@pkg@draft}\and\boolean{AM@survey}}{%
14181     \let\AM@currentdocname\relax
14182     \renewcommand\includegraphics[2][]{Survey in draft-mode}%
14183     \def\AM@pagecount{0}%
14184   }{%
14185     \AM@findfile{#2}%

```



```

14186 \if\AM@threadname\relax
14187 \def\AM@threadname{\AM@currentdocname}%
14188 \fi
14189 }%
14190 \ifAM@survey
14191 \def\AM@pagestemp{}%
14192 \@tempcnta=0
14193 \def\foo{%
14194 \ifundefined{r@\AM@xrprefix pdfpages@page\the\@tempcnta}%
14195 {\let\foo\relax}
14196 {\expandafter\ifx\expandafter\\AM@pagestemp\\
14197 \edef\AM@pagestemp{%
14198 \AM@pageref{\AM@xrprefix pdfpages@page\the\@tempcnta}}}%
14199 \else
14200 \edef\AM@pagestemp{\AM@pagestemp,%
14201 \AM@pageref{\AM@xrprefix pdfpages@page\the\@tempcnta}}}%
14202 \fi
14203 \advance\@tempcnta 1\relax
14204 }%
14205 \foo
14206 }%
14207 \foo
14208 \expandafter\ifx\expandafter\\AM@pagestemp\\
14209 \def\AM@pagestemp{1}%
14210 \fi
14211 \fi
14212 \ifAM@output
14213 \expandafter\AM@readlist\expandafter{\AM@pagestemp}%
14214 \AM@output{#1}%
14215 \fi
14216 \AM@CheckAtEnd
14217 \endgroup
14218 \AM@ClearShipoutPicture
14219 }

```

## 7.89 pgfcorescopes.code-xetex-bidi.def

```

14220 \ProvidesFile{pgfcorescopes.code-xetex-bidi.def}[2015/11/14 v0.1 bidi adaptations for pgf pac
14221 \def\pgfpicture{%
14222 \begingroup%
14223 \ifmmode\else\@RTLfalse\beginL\fi%
14224 \pgfpicturetrue%
14225 \global\advance\pgf@picture@serial@count by1\relax%
14226 \edef\pgfpictureid{\pgfid\the\pgf@picture@serial@count}%
14227 \let\pgf@nodecallback=\pgfutil@gobble%
14228 \pgf@picmaxx=-16000pt\relax%
14229 \pgf@picminx=16000pt\relax%
14230 \pgf@picmaxy=-16000pt\relax%
14231 \pgf@picminy=16000pt\relax%
14232 \pgf@relevantforpicturesize true%

```



```

14233 \pgf@resetpathsizes%
14234 \pgfutil@ifnextchar\bgroup\pgf@oldpicture\pgf@picture}
14235 \def\endpgfpicture{%
14236     \ifpgfrememberpicturepositiononpage%
14237     \hbox to0pt{\pgfsys@markposition{\pgfpictureid}}%
14238     \fi%
14239     % ok, now let's position the box
14240     \ifdim\pgf@picmaxx=-16000pt\relax%
14241     % empty picture. make size 0.
14242     \global\pgf@picmaxx=0pt\relax%
14243     \global\pgf@picminx=0pt\relax%
14244     \global\pgf@picmaxy=0pt\relax%
14245     \global\pgf@picminy=0pt\relax%
14246     \fi%
14247     % Shift baseline outside:
14248     \pgf@relevantforpicturesizefalse%
14249     \pgf@process{\pgf@baseline}%
14250     \xdef\pgf@shift@baseline{\the\pgf@y}%
14251     %
14252     \pgf@process{\pgf@trimleft}%
14253     \global\advance\pgf@x by-\pgf@picminx
14254     % prepare \hskip\pgf@trimleft@final.
14255     % note that \pgf@trimleft@final is also queried
14256     % by the pgf image externalization.
14257     \xdef\pgf@trimleft@final{-\the\pgf@x}%
14258     %
14259     \pgf@process{\pgf@trimright}%
14260     \global\advance\pgf@x by-\pgf@picmaxx
14261     % prepare \hskip\pgf@trimright@final.
14262     % note that \pgf@trimright@final is also queried
14263     % by the pgf image externalization.
14264     \xdef\pgf@trimright@final{\the\pgf@x}%
14265     %
14266     \pgf@remember@layerlist@globally
14267     \endgroup%
14268     \hss%
14269     \egroup%
14270     \pgf@restore@layerlist@from@global
14271     \pgf@insertlayers%
14272     \endgroup%
14273     \pgfsys@discardpath%
14274     \endgroup%
14275     \pgfsys@endscope%
14276     \pgfsys@endpicture%
14277     \endgroup%
14278     \hss
14279     \egroup%
14280     \pgfsys@typesetpicturebox\pgfpic%
14281     \ifmmode\else\endL\fi%
14282     \endgroup%

```



14283 }

## 7.90 picinpar-xetex-bidi.def

```
14284 \ProvidesFile{picinpar-xetex-bidi.def}[2013/04/08 v0.2 bidi adaptations for picinpar package
14285 \long\def\@makewincaption#1#2{%
14286   \setbox\@tempboxa\hbox{\footnotesize{\bf #1:\enspace}{#2}}%
14287   \ifdim\wd\@tempboxa>\picwd
14288     {\footnotesize{\bf #1:\enspace}{#2\par}}
14289   \else
14290     \hbox to\picwd{\if@RTL\beginR\fi\hfil\box\@tempboxa\hfil\if@RTL\endR\fi}
14291   \fi}
14292 \def\endwindow{%
14293   \global\tcd=\tcdsav
14294   \egroup\vskip\parskip\parshape=0 % reset parshape; end \box\rawtext
14295   \vbadness=10000
14296   \splittopskip=0pt
14297 %
14298 % Typeset the lines above the window
14299 %
14300 \ifnum\tcd>0\setbox\holder=\vsplit\rawtext to \tcd\baselineskip
14301 \tcn=\tcd
14302 \loop\advance\tcn -1
14303 \setbox\fslice=\vsplit\holder to\baselineskip
14304 \prune\fslice\linewidth
14305 \topheight=0pt
14306 \ifnum\dp\fslice>\dp\wstrutbox
14307   \advance\topheight-\dp\fslice
14308   \advance\topheight\dp\wstrutbox
14309   \advance\topheight\ilg\fi
14310 \hbox to\linewidth{\box\fslice}
14311 \vskip-\topheight
14312 \ifdim\ht\holder>0pt\repeat
14313 \fi
14314 %
14315 % Now we build the boxes beside the window
14316 %
14317 \global\topheight=\tcl\baselineskip
14318 \ifnum\cumpartcl>0\global\tcl=\cumtcl
14319   \global\topheight=\vpic
14320 \fi
14321 \ifnum\bl>0 \ifnum\br>0 \multiply\topheight by 2\fi\fi
14322 \ifnum\bl>0\setbox\holder=\vsplit\rawtext to\topheight
14323 \else\ifnum\br>0\setbox\holder=\vsplit\rawtext to\topheight\fi\fi
14324 \tcn=\tcl \na=0 \nb=0
14325 \ifnum\bl>0 \ifnum\br>0 \multiply\tcn by 2\fi\fi
14326 \ifnum\bl>0\na=\tcn\ifnum\br>0\divide\na by 2\fi\fi
14327 \ifnum\br>0\nb=\tcn\ifnum\bl>0\divide\nb by 2\fi\fi
14328 \ifnum\na=0\ifnum\nb=0
14329   \setbox\waslice=\vbox to\vpic{\vss}
```



```

14330      \setbox\wbslice=\vbox to\vpic{\vss}
14331      \bl=1\br=1
14332      \vskip\ilg
14333 \fi\fi
14334 %
14335 % both sides
14336 %
14337 \ifnum\na>0 \ifnum\nb>0
14338 \loop\advance\nb -1
14339 \advance\na -1
14340 \if@RTL%
14341 \setbox\bslice=\vsplit\holder to\baselineskip
14342 \prune\bslice\rtside
14343 \setbox\wbslice=\vbox{\unvbox\wbslice\hbox
14344 to\rtside{\box\bslice\hfil}}
14345 \setbox\aslice=\vsplit\holder to\baselineskip
14346 \prune\aslice\lftside
14347 \setbox\waslice=\vbox{\unvbox\waslice\hbox
14348 to\lftside{\box\aslice\hfil}}
14349 \else%
14350 \setbox\aslice=\vsplit\holder to\baselineskip
14351 \prune\aslice\lftside
14352 \setbox\waslice=\vbox{\unvbox\waslice\hbox
14353 to\lftside{\box\aslice\hfil}}
14354 \setbox\bslice=\vsplit\holder to\baselineskip
14355 \prune\bslice\rtside
14356 \setbox\wbslice=\vbox{\unvbox\wbslice\hbox
14357 to\rtside{\box\bslice\hfil}}
14358 \fi%
14359 \ifnum\nb>0\repeat
14360 \fi\fi
14361 %
14362 % only text on the left side
14363 %
14364 \ifnum\na>0
14365   \loop\advance\na -1
14366   \setbox\aslice=\vsplit\holder to\baselineskip
14367   \prune\aslice\lftside
14368   \setbox\waslice=\vbox{\unvbox\waslice\hbox
14369 to\lftside{\box\aslice\hfil}}
14370   \ifdim\ht\holder>0pt\repeat
14371 \fi
14372 %
14373 % only text on the right side
14374 %
14375 \ifnum\nb>0
14376   \loop\advance\nb -1
14377   \setbox\bslice=\vsplit\holder to\baselineskip
14378   \prune\bslice\rtside
14379   \setbox\wbslice=\vbox{\unvbox\wbslice\hbox

```





```

14380 to\rtside{\box\bslice\hfil}}
14381 \ifdim\ht\holder>0pt\repeat
14382 \fi
14383 %
14384 % fixing the dimensions of the window part
14385 %
14386 \ifnum\bl=0\topheight=\ht\wbslice
14387 \else\ifnum\br=0\topheight=\ht\waslice
14388 \else\ifdim\ht\waslice>\ht\wbslice\topheight=\ht\waslice
14389 \else\topheight=\ht\wbslice\fi\fi\fi
14390 %
14391 % ship out the window material to the main vertical list
14392 %
14393 \ifnum\bl>0 \ifnum\br>0 \ifdim\ht\wbslice<\topheight
14394 \setbox\wbslice=\vbox to\topheight{\box\wbslice\vfill}
14395 \fi\fi\fi
14396 \setbox>windowbox=\vbox{\hbox to\linewidth{%
14397 \ifnum\bl>0\box\waslice\hfill\fi%
14398 \vbox to\topheight{\hrule width\picwd height0pt depth0pt\vskip0pt%
14399 \vfill\unvbox\picbox%
14400 \ifnum\picwd>0\vfill\fi%
14401 \vss}\ifnum\br>0\hfill\vbox{\box\wbslice}\fi}}%
14402 \unvbox>windowbox%
14403 \loop
14404 \setbox\bslice=\vsplit\rawtext to\baselineskip
14405 \prune\bslice\linewidth
14406 \setbox\wbslice=\vbox{\hbox to\linewidth{\box\bslice\hfil}}
14407 \unvbox\wbslice
14408 \ifdim\ht\rawtext>0pt
14409 \repeat
14410 }% FINITO

```

## 7.91 plain-xetex-bidi.def

```

14411 \def\TeXXeTOn{\TeXXeTstate=1 }
14412 \def\TeXXeTOff{\TeXXeTstate=0 }
14413 \TeXXeTOn
14414 \def\usebox#1{\leavevmode\copy #1\relax}
14415 \def\bidi@RTL@everypar{\setbox\z@ \lastbox\if@RTL\beginR\else\beginL\fi\ifvoid\z@\else\usebox\z@
14416 \let\bidi@o@everypar=\everypar
14417 \newtoks\bidi@n@everypar
14418 \bidi@n@everypar\expandafter{\the\bidi@o@everypar}
14419 \bidi@o@everypar{\bidi@RTL@everypar\the\bidi@n@everypar}
14420 \let\everypar=\bidi@n@everypar
14421 \def\moreLRE{\bracetext \aftergroup\endL \beginL\@RTLfalse}
14422 \def\moreRLE{\bracetext \aftergroup\endR \beginR\@RTLtrue}
14423 \protected\def\hboxR{\hbox\bgroup
14424 \everyhbox{%
14425 \aftergroup\egroup
14426 \everyhbox{}}%

```



```

14427 \beginR
14428 \@hboxRconstructtrue
14429 \bgroup
14430 \aftergroup\endR
14431 \aftergroup\egroup
14432 }\hbox}
14433 \protected\def\hboxL{\hbox\bgroup
14434 \everyhbox{%
14435 \aftergroup\egroup
14436 \everyhbox{}}%
14437 \beginL
14438 \@hboxRconstructfalse
14439 \bgroup
14440 \aftergroup\endL
14441 \aftergroup\egroup
14442 }\hbox}
14443 \protected\def\vboxR{\vbox\bgroup
14444 \everyvbox{%
14445 \aftergroup\egroup
14446 \everyvbox{}}%
14447 \@RTLtrue
14448 \bgroup
14449 \aftergroup\egroup
14450 }\vbox}
14451 \protected\def\vboxL{\vbox\bgroup
14452 \everyvbox{%
14453 \aftergroup\egroup
14454 \everyvbox{}}%
14455 \@RTLfalse
14456 \bgroup
14457 \aftergroup\egroup
14458 }\vbox}
14459 \def\LTR{\par\@RTLfalse\@RTL@footnotefalse\hsize\linewidth\parshape\z@}
14460 \def\endLTR{\par}
14461 \def\RTL{\par\@RTLtrue\@RTL@footnotetrue\hsize\linewidth\parshape\z@}
14462 \def\endRTL{\par}
14463 \def\setRTL{\@RTLtrue\@RTL@footnotetrue}
14464 \def\setLTR{\@RTLfalse\@RTL@footnotefalse}
14465 \let\unsetRTL=\setLTR
14466 \let\unsetLTR=\setRTL
14467 \let\LR=\LRE
14468 \let\RL=\RLE
14469 \def\@ensure@RTL#1{\if@RTL#1\else\RLE{#1}\fi}
14470 \def\@ensure@LTR#1{\if@RTL\LRE{#1}\else#1\fi}
14471 \let\@ensure@RL=\@ensure@RTL
14472 \let\@ensure@LR=\@ensure@LTR
14473 \def\@ensure@dir#1{\if@RTL\RLE{#1}\else{#1}\fi}
14474 \let\@ensure@maindir=\@ensure@dir
14475 \def\@RTL{RTL}
14476 \def\@LTR{LTR}

```



```

14477 \def\save@dir{\if@RTL\gdef\saved@@dir{RTL}\else\gdef\saved@@dir{LTR}\fi}
14478 \def\reset@dir{\ifx\saved@@dir\@RTL\setRTL\else\ifx\saved@@dir\@LTR\setLTR\else\relax\fi\fi}
14479 \let\@@TeX\TeX
14480 \def\TeX{\@ensure@LTR{\@@TeX}}
14481 \long\def\ bidi@reflect@box#1{%
14482   \leavevmode
14483   \setbox\z@\hbox{{#1}}%
14484   \setbox\tw@\hbox{\special{x:gsave}\special{x:scale -1 1}\rlap{\copy\z@}\special{x:grestore}}
14485   \hbox to \wd\z@{\kern\wd\z@\box\tw@\hss}%
14486 }
14487 \def\XeTeX{LR{\leavevmode$\smash{\hbox{X}\lower.5ex
14488   \hbox{\kern-.125em\ bidi@reflect@box{E}}\kern-.1667em \TeX}}$}}
14489 \let\setRL=\setRTL
14490 \let\setLR=\setLTR
14491 \let\unsetRL=\setLTR
14492 \let\ bidi@sav@eqno=\eqno
14493 \let\ bidi@sav@leqno=\leqno
14494 \def\eqno{\ifnum\predisplaydirection<\z@ \ bidi@sav@leqno \else \ bidi@sav@eqno \fi}
14495 \def\leqno{\ifnum\predisplaydirection<\z@ \ bidi@sav@eqno \else \ bidi@sav@leqno \fi}
14496 \def\centerline#1{\line{\hss\if@RTL\beginR\fi#1\if@RTL\endR\fi\hss}}
14497 \def\leftline#1{\line{\if@RTL\beginR\fi#1\if@RTL\endR\fi\hss}}
14498 \def\rightline#1{\line{\hss\if@RTL\beginR\fi#1\if@RTL\endR\fi}}

```

## 7.92 pstricks-xetex-bidi.def

```

14499 \ProvidesFile{pstricks-xetex-bidi.def}[2015/11/18 v0.5 bidi adaptations for pstricks package]
14500 \def\pspicture{\begingroup\ifmmode\else\@RTLfalse\beginL\fi\pst@ifstar\pst@picture}
14501 \def\endpspicture{%
14502   \ifshowgrid\ifnum\showgridp>0
14503     \psgrid[xunit=\sh@wgridXunit,yunit=\sh@wgridYunit,style=gridstyle]\fi\fi%
14504     \pst@killglue
14505 % \global\pst@shift=\pst@shift% in fact of the following endgroup
14506 \endgroup
14507 \egroup
14508 \ifdim\wd\pst@hbox=\z@\else
14509   %\@pstrickserr{Extraneous space in the pspicture environment}%
14510   %\Type \space <return> \space to proceed.}%
14511 \fi
14512 \ht\pst@hbox=\pst@dimd
14513 \dp\pst@hbox=-\pst@dimb
14514 \setbox\pst@hbox=\hbox{%
14515   \kern-\pst@dima
14516 % Orig version -----
14517 %\ifx\pst@tempa\@empty\else
14518 %\advance\pst@dimd-\pst@dimb
14519 %\pst@dimd=\pst@tempa\pst@dimd
14520 %\advance\pst@dimd\pst@dimb
14521 %\lower\pst@dimd
14522 %\fi
14523 %----- end Orig

```



```

14524 \ifPst@shift@star%\typeout{==pstricks== old behaviour of the shift option}% shift=*
14525 \advance\pst@dimd-\pst@dimb
14526 \pst@dimd=0.5\pst@dimd
14527 \else\pst@dimd-\pst@shift\fi
14528 \advance\pst@dimd\pst@dimb
14529 \lower\pst@dimd
14530 \box\pst@hbox
14531 \kern\pst@dimc}%
14532 \if@star\setbox\pst@hbox=\hbox{\clipbox@@\z@}\fi
14533 \leavevmode\ifdim\overfullrule=\z@\box\pst@hbox\else
14534 \fboxsep=0pt
14535 \fbox{\rule[-\pst@shift]{0pt}{\ht\pst@hbox}\rule{\wd\pst@hbox}{0pt}}\fi
14536 \ifmmode\else\endL\fi
14537 \endgroup%
14538 \psset[pstricks]{shift=0}% reset value
14539 }

```

### 7.93 quotchap-xetex-bidi.def

```

14540 \ProvidesFile{quotchap-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for quotchap package]
14541 \renewcommand{\qauthor}[1]{%
14542 \par\smallskip
14543 {\if@RTL\raggedright\else\raggedleft\fi\upshape #1\qqquad\hbox{}\par}\bigskip}
14544 \renewcommand{\@makechapterhead}[1]{\chapterheadstartvskip%
14545 {\size@chapter\sectfont\if@RTL\raggedright\else\raggedleft\fi
14546 {\chapnumfont
14547 \ifnum \c@secnumdepth >\m@ne%
14548 \if@mainmatter\thechapter%
14549 \fi\fi
14550 \par\nobreak}%
14551 {\if@RTL\raggedright\else\raggedleft\fi\advance\if@RTL\rightmargin\else\leftmargin\fi10pt}
14552 \nobreak\chapterheadendvskip}}
14553 \renewcommand*{\@iprintcites}{%
14554 \vbox to\z@{\leavevmode\copy\@quotebox\vss}
14555 \global\let\@printcites\relax}

```

### 7.94 ragged2e-xetex-bidi.def

```

14556 \ProvidesFile{ragged2e-xetex-bidi.def}[2010/07/25 v0.2 bidi adaptations for ragged2e package]
14557 \renewcommand{\Centering}{%
14558 \ifx\\ \@raggedtwoe@savedcr
14559 \let\\ \@centercr
14560 \fi
14561 \let\@newline\@raggedtwoe@gnewline
14562 \if@RTL\rightskip\else\leftskip\fi\CenteringLeftskip
14563 \@rightskip\CenteringRightskip
14564 \if@RTL\leftskip\else\rightskip\fi\@rightskip
14565 \parfillskip\CenteringParfillskip
14566 \parindent\CenteringParindent
14567 \@raggedtwoe@spaceskiptrue
14568 \@raggedtwoe@everyselectfont

```



```

14569 }
14570 \renewcommand{\RaggedLeft}{%
14571   \ifx\\ \@raggedtwo@savedcr
14572     \let\\ \@centercr
14573   \fi
14574   \let\@newline\@raggedtwo@gnewline
14575   \if@RTL\rightright\else\leftskip\fi\RaggedLeftLeftskip
14576   \@rightskip\RaggedLeftRightskip
14577   \if@RTL\leftskip\else\rightright\fi\@rightskip
14578   \parfillskip\RaggedLeftParfillskip
14579   \parindent\RaggedLeftParindent
14580   \@raggedtwo@spaceskiptrue
14581   \@raggedtwo@everyselectfont
14582 }
14583 \renewcommand{\RaggedRight}{%
14584   \ifx\\ \@raggedtwo@savedcr
14585     \let\\ \@centercr
14586   \fi
14587   \let\@newline\@raggedtwo@gnewline
14588   \if@RTL\rightright\else\leftskip\fi\RaggedRightLeftskip
14589   \@rightskip\RaggedRightRightskip
14590   \if@RTL\leftskip\else\rightright\fi\@rightskip
14591   \parfillskip\RaggedRightParfillskip
14592   \parindent\RaggedRightParindent
14593   \@raggedtwo@spaceskiptrue
14594   \@raggedtwo@everyselectfont
14595 }
14596 \renewcommand{\justifying}{%
14597   \let\\ \@raggedtwo@savedcr
14598   \let\@newline\@raggedtwo@saved@gnewline
14599   \if@RTL\rightright\else\leftskip\fi\z@
14600   \@rightskip\z@
14601   \if@RTL\leftskip\else\rightright\fi\@rightskip
14602   \parfillskip\JustifyingParfillskip
14603   \parindent\JustifyingParindent
14604   \@raggedtwo@spaceskipfalse
14605   \@raggedtwo@everyselectfont
14606 }
14607 \renewcommand*{\@raggedtwo@raggedrightboxes@opt}{
14608   \CheckCommand*{\arrayparboxrestore}{%
14609     \let\if@nobreak\iffalse
14610     \let\if@noskipsec\iffalse
14611     \let\par\@par
14612     \let\-\@dischph
14613     \let\'@acci\let\'@accii\let\=\@acciii
14614     \parindent\z@ \parskip\z@skip
14615     \everypar{}%
14616     \linewidth\hsize
14617     \@totalleftmargin\z@
14618     \if@RTL\rightright\else\leftskip\fi\z@skip \if@RTL\leftskip\else\rightright\fi\z@skip \@rig

```



```

14619 \parfillskip\@flushglue \lineskip\normallineskip
14620 \baselineskip\normalbaselineskip
14621 \sloppy}%
14622 \renewcommand{\@arrayparboxrestore}{%
14623 \let\if@nobreak\iffalse
14624 \let\if@noskipsec\iffalse
14625 \let\par\@@par
14626 \let\-\@dischph
14627 \let'\@acci\let'\@accii\let\=\@acciii
14628 \parskip\z@skip
14629 \everypar{}%
14630 \linewidth\hsize
14631 \@totalleftmargin\z@
14632 \RaggedRight
14633 \lineskip\normallineskip
14634 \baselineskip\normalbaselineskip
14635 \sloppy}%
14636 \let\@raggedtwoe@raggedrightboxes@opt\relax
14637 }
14638 \let\origin@RaggedLeft=\RaggedLeft
14639 \let\origin@RaggedRight=\RaggedRight
14640 \def\RaggedLeft{\if@RTL\origin@RaggedRight\else\origin@RaggedLeft\fi}
14641 \def\RaggedRight{\if@RTL\origin@RaggedLeft\else\origin@RaggedRight\fi}

```

## 7.95 rapport1-xetex-bidi.def

```

14642 \ProvidesFile{rapport1-xetex-bidi.def}[2015/11/14 v0.3 bidi adaptations for rapport1 class fo
14643 \renewenvironment{theindex}{%
14644 \if@twocolumn
14645 \@restonecolfalse
14646 \else
14647 \@restonecoltrue
14648 \fi
14649 \columnseprule \z@
14650 \columnsep 35\p@
14651 \twocolumn[\@makeschapterhead{\indexname}]}%
14652 \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
14653 \thispagestyle{plain}\parindent\z@
14654 \parskip\z@ \@plus .3\p@\relax
14655 \let\item\@idxitem
14656 }{%
14657 \if@restonecol\onecolumn\else\clearpage\fi}
14658 \renewcommand*\head@style{%
14659 \interlinepenalty \@M
14660 \hyphenpenalty=\@M \exhyphenpenalty=\@M
14661 \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
14662 \if@titlepage
14663 \renewenvironment{abstract}{%
14664 \titlepage
14665 \null\vfil

```



```

14666     \section*{\SectFont\abstractname}%
14667     \noindent\ignorespaces}
14668     {\par\vfil\null\endtitlepage}
14669 \else
14670   \renewenvironment{abstract}{%
14671     \if@twocolumn
14672       \section*{\abstractname}%
14673     \else
14674       \bgroup\if@RTL\leftskip\else\rightskip\fi=\unitindent
14675       \section*{\small\SectFont\abstractname}%
14676       \noindent\ignorespaces
14677     \fi}
14678     {\if@twocolumn\else\par\egroup\fi}
14679 \fi
14680 \renewcommand*\@regtocline[3]{%
14681   \ifnum #1>\c@tocdepth
14682   \else
14683     \vskip\z@\@plus.2\p@
14684     {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
14685     \if@RTL\rightskip\else\leftskip\fi\unitindent
14686     \if@RTL\leftskip\else\rightskip\fi\unitindent\@plus 1fil
14687     \parfillskip\z@
14688     \@tempdima\unitindent
14689     \parindent\z@
14690     \leavevmode
14691     \hbox{} \hskip -\if@RTL\rightskip\else\leftskip\fi\relax#2\nobreak
14692     \hskip 1em \nobreak{\slshape #3}\par
14693   }%
14694   \fi}
14695 \if@oldtoc
14696 \renewcommand*\l@part[2]{%
14697   \ifnum \c@tocdepth >-2\relax
14698     \addpenalty{-\@highpenalty}%
14699     \addvspace{2.25em \@plus\p@}%
14700     \begingroup
14701       \setlength\@tempdima{3em}%
14702       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
14703       \parfillskip -\@pnumwidth
14704       {\leavevmode
14705         \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
14706         \nobreak
14707         \global\@nobreaktrue
14708         \everypar{\global\@nobreakfalse\everypar{}}}%
14709     \endgroup
14710   \fi}
14711 \else
14712 \renewcommand*\l@part{%
14713   \ifnum \c@tocdepth >-2\relax
14714     \addpenalty{-\@highpenalty}%
14715     \addvspace{2.25em \@plus \p@}%

```



```

14716     \@regtocline{0}%
14717     \fi}
14718 \fi
14719 \if@oldtoc
14720 \renewcommand*\l@chapter[2]{%
14721     \addpenalty{-\@highpenalty}%
14722     \vskip 1.0em \@plus\p@
14723     \setlength\@tempdima{1.5em}%
14724     \begingroup
14725     \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
14726     \parfillskip -\@pnumwidth
14727     \leavevmode \bfseries
14728     \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
14729     \hskip -\if@RTL\rightskip\else\leftskip\fi
14730     #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
14731     \penalty\@highpenalty
14732     \endgroup}
14733 \else
14734 \renewcommand*\l@chapter{\@regtocline{0}}
14735 \fi
14736 \renewcommand*\left@footnoterule{%
14737     \kern-3\p@
14738     \kern.5\baselineskip
14739     \hrule\@width\unitindent
14740     \kern.4\baselineskip
14741 }
14742 \renewcommand*\right@footnoterule{%
14743     \kern-3\p@
14744     \kern.5\baselineskip
14745     \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
14746     \kern.4\baselineskip}
14747 \renewenvironment{thebibliography}[1]
14748     {\chapter*{\bibname}%
14749     \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
14750     \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
14751     \list{\@biblabel{\@arabic\c@enumiv}}%
14752         {\settowidth\labelwidth{\@biblabel{#1}}%
14753         \leftmargin\labelwidth
14754         \advance\leftmargin\labelsep
14755         \@openbib@code
14756         \usecounter{enumiv}%
14757         \let\p@enumiv\@empty
14758         \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
14759     \sloppy\clubpenalty4000\widowpenalty4000%
14760     \sfcode`\.\@m}
14761     {\def\@noitemerr
14762     {\@latex@warning{Empty `thebibliography' environment}}}%
14763     \endlist}
14764 \renewcommand*\thesection{\thechapter\@SepMark\@arabic\c@section}
14765 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}

```





```

14766 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
14767 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
14768 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
14769 \renewcommand*\theequation{%
14770   \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@equation}
14771 \renewcommand*\thefigure{%
14772   \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@figure}
14773 \renewcommand*\thetable{%
14774   \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@table}
14775 \if@titlepage
14776 \renewcommand*\TitleFont{\rmfamily}
14777 \renewcommand*\maketitle{%
14778   \begin{titlepage}%
14779     \let\footnotesize\small
14780     \let\right@footnoterule\relax
14781     \let\left@footnoterule\relax
14782     \let\textwidth\footnoterule\relax
14783     \let \footnote \thanks
14784     \long\def\@makefntext##1{\parindent\z@
14785       \def\labelitemi{\textendash}\@revlabeltrue
14786       \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
14787     \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
14788     \if@compatibility\setcounter{page}{0}\fi
14789     \null\vfil
14790     \vskip 60\p@
14791     \begin{center}%
14792       \TitleFont
14793       {\LARGE \def\\{\penalty -\@M}
14794         \if@allcaps
14795           \expandafter\uc@nothanks\@title\thanks\relax
14796         \else
14797           \@title
14798         \fi\par}%
14799       \vskip 3em%
14800       {\large
14801         \lineskip .75em \parindent\z@
14802         \begin{tabular}[t]{c}%
14803           \if@allcaps
14804             \expandafter\uc@author\@author\and\relax
14805           \else
14806             \@author
14807           \fi
14808         \end{tabular}\par}%
14809       \vskip 1.5em%
14810       {\large
14811         \if@allcaps
14812           \uppercase\expandafter{\@date}%
14813         \else
14814           \@date
14815         \fi\par}%

```



```

14816      \end{center}\par
14817      \@thanks
14818      \vfil\null
14819      \end{titlepage}%
14820      \setcounter{footnote}{0}%
14821      \global\let\thanks\relax
14822      \global\let\maketitle\relax
14823      \global\let\@thanks\@empty
14824      \global\let\@author\@empty
14825      \global\let\@title\@empty
14826      \global\let\@date\@empty
14827      \global\let\title\relax
14828      \global\let\author\relax
14829      \global\let\date\relax
14830      \global\let\and\relax
14831  }
14832  \def\uc@nothanks#1\thanks{\uppercase{#1}\futurelet\@tempa\uc@tx}
14833  \def\uc@authornothanks#1\and{\uc@nothanks#1\thanks\relax
14834      \futurelet\@tempa\uc@ax}
14835  \def\uc@ax{%
14836      \ifx\@tempa\relax
14837      \else
14838      \\\andname \\\expandafter\uc@authornothanks
14839      \fi}
14840  \def\uc@tx{\ifx\@tempa\relax
14841      \else \expandafter\uc@ty \fi}
14842  \def\uc@ty#1{\thanks{#1}\uc@nothanks}
14843  \else
14844  \renewcommand*\maketitle{\par
14845      \begingroup
14846      \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
14847      \def\@makefnmark{\rlap{%
14848          \@textsuperscript{\normalfont\@thefnmark}}}%
14849      \long\def\@makefntext{\@xmakefntext{%
14850          \@textsuperscript{\normalfont\@thefnmark}}}%
14851      \if@twocolumn
14852          \ifnum \col@number=\@one
14853              \@maketitle
14854          \else
14855              \twocolumn[\@maketitle]%
14856          \fi
14857      \else
14858          \newpage
14859          \global\@topnum\z@
14860          \@maketitle
14861      \fi
14862      \thispagestyle{plain}\@thanks
14863  \endgroup
14864  \setcounter{footnote}{0}%
14865  \global\let\thanks\relax

```



```

14866 \global\let\maketitle\relax
14867 \global\let\@maketitle\relax
14868 \global\let\@thanks\@empty
14869 \global\let\@author\@empty
14870 \global\let\@title\@empty
14871 \global\let\@date\@empty
14872 \global\let\title\relax
14873 \global\let\author\relax
14874 \global\let\date\relax
14875 \global\let\and\relax
14876 }
14877 \def\@maketitle{%
14878 \newpage
14879 \null
14880 \vskip 2em%
14881 \begin{center}%
14882 \let \footnote \thanks
14883 {\LARGE \TitleFont \@title \par}%
14884 \vskip 1.5em%
14885 {\large \TitleFont
14886 \lineskip .5em%
14887 \begin{tabular}[t]{c}%
14888 \@author
14889 \end{tabular}\par}%
14890 \vskip 1em%
14891 {\large \TitleFont \@date}%
14892 \end{center}%
14893 \par
14894 \vskip 1.5em}
14895 \fi

```

## 7.96 rapport3-xetex-bidi.def

```

14896 \ProvidesFile{rapport3-xetex-bidi.def}[2015/11/14 v0.5 bidi adaptations for rapport3 class fo
14897 \renewenvironment{theindex}{%
14898 \if@twocolumn
14899 \@restonecolfalse
14900 \else
14901 \@restonecoltrue
14902 \fi
14903 \columnseprule \z@
14904 \columnsep 35\p@
14905 \twocolumn[\@makeschapterhead{\indexname}]%
14906 \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
14907 \thispagestyle{plain}\parindent\z@
14908 \parskip\z@ \@plus .3\p@\relax
14909 \let\item\@idxitem
14910 }{%
14911 \if@restonecol\onecolumn\else\clearpage\fi}
14912 \if@titlepage

```



```

14913 \renewcommand*\TitleFont{\rmfamily}
14914 \renewcommand*\maketitle{%
14915   \begin{titlepage}%
14916     \let\footnotesize\small
14917     \let\right@footnoterule\relax
14918     \let\left@footnoterule\relax
14919     \let\textwidth@footnoterule\relax
14920     \let \footnote \thanks
14921     \let \LTRfootnote \LTRthanks
14922     \let \RTLfootnote \RTLthanks
14923     \long\def\@makefntext##1{\parindent\z@
14924       \def\labelitemi{\textendash}\@revlabeltrue
14925       \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
14926     \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
14927     \if@compatibility\setcounter{page}{0}\fi
14928     \null\vfil
14929     \vskip 60\p@
14930     \begin{center}%
14931       \TitleFont
14932       {\LARGE \def\{\{\penalty -\@M}
14933         \if@allcaps
14934           \expandafter\uc@nothanks\@title\thanks\relax
14935         \else
14936           \@title
14937         \fi\par}%
14938       \vskip 3em%
14939       {\large
14940         \lineskip .75em \parindent\z@
14941         \begin{tabular}[t]{c}%
14942           \if@allcaps
14943             \expandafter\uc@authornothanks\@author\and\relax
14944           \else
14945             \@author
14946           \fi
14947         \end{tabular}\par}%
14948       \vskip 1.5em%
14949       {\large
14950         \if@allcaps
14951           \uppercase\expandafter{\@date}%
14952         \else
14953           \@date
14954         \fi\par}%
14955       \end{center}\par
14956       \@thanks
14957       \vfil\null
14958     \end{titlepage}%
14959     \setcounter{footnote}{0}%
14960     \global\let\thanks\relax
14961     \global\let\LTRthanks\relax
14962     \global\let\RTLthanks\relax

```



```

14963 \global\let\maketitle\relax
14964 \global\let\@thanks\@empty
14965 \global\let\@author\@empty
14966 \global\let\@title\@empty
14967 \global\let\@date\@empty
14968 \global\let\title\relax
14969 \global\let\author\relax
14970 \global\let\date\relax
14971 \global\let\and\relax
14972 }
14973 \def\uc@nothanks#1\thanks{\uppercase{#1}\futurelet\@tempa\uc@tx}
14974 \def\uc@authornothanks#1\and{\uc@nothanks#1\thanks\relax
14975 \futurelet\@tempa\uc@ax}
14976 \def\uc@ax{%
14977 \ifx\@tempa\relax
14978 \else
14979 \ \andname \ \expandafter\uc@authornothanks
14980 \fi}
14981 \def\uc@tx{\ifx\@tempa\relax
14982 \else \expandafter\uc@ty \fi}
14983 \def\uc@ty#1{\thanks{#1}\uc@nothanks}
14984 \else
14985 \renewcommand*\maketitle{\par
14986 \begingroup
14987 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
14988 \def\@makefnmark{\rlap{%
14989 \@textsuperscript{\normalfont\@thefnmark}}}%
14990 \long\def\@makefntext{\@xmakefntext{%
14991 \@textsuperscript{\normalfont\@thefnmark}}}%
14992 \if@twocolumn
14993 \ifnum \col@number=\@ne
14994 \@maketitle
14995 \else
14996 \twocolumn[\@maketitle]%
14997 \fi
14998 \else
14999 \newpage
15000 \global\@topnum\z@
15001 \@maketitle
15002 \fi
15003 \thispagestyle{plain}\@thanks
15004 \endgroup
15005 \setcounter{footnote}{0}%
15006 \global\let\thanks\relax
15007 \global\let\LTRthanks\relax
15008 \global\let\RTLthanks\relax
15009 \global\let\maketitle\relax
15010 \global\let\@maketitle\relax
15011 \global\let\@thanks\@empty
15012 \global\let\@author\@empty

```



```

15013 \global\let\@title\@empty
15014 \global\let\@date\@empty
15015 \global\let\title\relax
15016 \global\let\author\relax
15017 \global\let\date\relax
15018 \global\let\and\relax
15019 }
15020 \def\@maketitle{%
15021 \newpage
15022 \null
15023 \vskip 2em%
15024 \if@titlecentered
15025 \begin{center}%
15026 \let \footnote \thanks
15027 \let \LTRfootnote \LTRthanks
15028 \let \RTLfootnote \RTLthanks
15029 {\LARGE \TitleFont \@title \par}%
15030 \vskip 1.5em%
15031 {\large \TitleFont
15032 \lineskip .5em%
15033 \begin{tabular}[t]{c}%
15034 \@author
15035 \end{tabular}\par}%
15036 \vskip 1em%
15037 {\large \TitleFont \@date}%
15038 \end{center}%
15039 \else
15040 {\LARGE \TitleFont \head@style \@title \par} \vskip 1.5em
15041 {\large \TitleFont \lineskip .5em \tabcolsep\z@
15042 \def\and{%% \begin{tabular} has already started
15043 \end{tabular}\hskip 1em plus .17fil
15044 \if@RTL\begin{tabular}[t]{r}\else\begin{tabular}[t]{l}\fi}% \end{tabular}
15045 \if@RTL\begin{tabular}[t]{r}\else\begin{tabular}[t]{l}\fi\@author\end{tabular}\p
15046 \vskip 1em {\large \TitleFont \@date}
15047 \fi
15048 \par
15049 \vskip 1.5em}
15050 \fi
15051 \renewcommand*\@regtocline[3]{%
15052 \ifnum #1>\c@tocdepth
15053 \else
15054 \vskip\z@\@plus.2\p@
15055 {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
15056 \if@RTL\righskip\else\leftskip\fi\unitindent
15057 \if@RTL\leftskip\else\righskip\fi\unitindent\@plus 1fil
15058 \parfillskip\z@
15059 \@tempdima\unitindent
15060 \parindent\z@
15061 \leavevmode
15062 \hbox{}\hskip -\if@RTL\righskip\else\leftskip\fi\relax#2\nobreak

```



```

15063     \hskip 1em \nobreak{\slshape #3}\par
15064   }%
15065 \fi}
15066 \if@oldtoc
15067 \renewcommand*\l@part[2]{%
15068   \ifnum \c@tocdepth >-2\relax
15069     \addpenalty{-\@highpenalty}%
15070     \addvspace{2.25em \@plus\p@}%
15071     \begingroup
15072       \setlength\@tempdima{3em}%
15073       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
15074       \parfillskip -\@pnumwidth
15075       {\leavevmode
15076         \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
15077         \nobreak
15078         \global\@nobreaktrue
15079         \everypar{\global\@nobreakfalse\everypar{}}}%
15080     \endgroup
15081   \fi}
15082 \else
15083   \renewcommand*\l@part{%
15084     \ifnum \c@tocdepth >-2\relax
15085       \addpenalty{-\@highpenalty}%
15086       \addvspace{2.25em \@plus\p@}%
15087       \@regtocline{0}%
15088     \fi}
15089 \fi
15090 \if@oldtoc
15091 \renewcommand*\l@chapter[2]{%
15092   \addpenalty{-\@highpenalty}%
15093   \vskip 1.0em \@plus\p@
15094   \setlength\@tempdima{1.5em}%
15095   \begingroup
15096   \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
15097   \parfillskip -\@pnumwidth
15098   \leavevmode \bfseries
15099   \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
15100   \hskip -\if@RTL\rightskip\else\leftskip\fi
15101   #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
15102   \penalty\@highpenalty
15103   \endgroup}
15104 \else
15105   \renewcommand*\l@chapter{\@regtocline{0}}
15106 \fi
15107 \renewcommand*\head@style{%
15108   \interlinepenalty \@M
15109   \hyphenpenalty=\@M \exhyphenpenalty=\@M
15110   \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
15111 \if@titlepage
15112   \renewenvironment{abstract}{%

```



```

15113 \titlepage
15114 \null\vfil
15115 \section*{\SectFont\abstractname}%
15116 \noindent\ignorespaces}
15117 {\par\vfil\null\endtitlepage}
15118 \else
15119 \renewenvironment{abstract}{%
15120 \if@twocolumn
15121 \section*{\abstractname}%
15122 \else
15123 \bgroup\if@RTL\leftskip\else\rightskip\fi=\unitindent
15124 \section*{\small\SectFont\abstractname}%
15125 \noindent\ignorespaces
15126 \fi}
15127 {\if@twocolumn\else\par\egroup\fi}
15128 \fi
15129 \renewcommand*\thesection{\thechapter\@SepMark\@arabic\c@section}
15130 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
15131 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
15132 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
15133 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
15134 \renewcommand*\thefigure{%
15135 \ifnum\c@chapter>\z@\thechapter\@SepMark\fi\@arabic\c@figure}
15136 \renewcommand*\thetable{%
15137 \ifnum\c@chapter>\z@\thechapter\@SepMark\fi\@arabic\c@table}
15138 \renewcommand*\theequation{%
15139 \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@equation}
15140 \renewenvironment{thebibliography}[1]
15141 {\chapter*{\bibname}%
15142 \mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
15143 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
15144 \list{\@biblabel{\@arabic\c@enumiv}}%
15145 {\settowidth\labelwidth{\@biblabel{#1}}%
15146 \leftmargin\labelwidth
15147 \advance\leftmargin\labelsep
15148 \openbib@code
15149 \usecounter{enumiv}%
15150 \let\p@enumiv\@empty
15151 \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
15152 \sloppy\clubpenalty4000\widowpenalty4000%
15153 \sfcode`\.\@m}
15154 {\def\@noitemerr
15155 {\@latex@warning{Empty `thebibliography' environment}}%
15156 \endlist}
15157 \renewcommand*\left@footnoterule{%
15158 \kern-3\p@
15159 \kern.5\baselineskip
15160 \hrule\@width\unitindent
15161 \kern.4\baselineskip
15162 }

```





```

15163 \renewcommand*\right@footnoterule{%
15164   \kern-3\p@
15165   \kern.5\baselineskip
15166   \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
15167   \kern.4\baselineskip}
15168 \renewcommand*\head@style{%
15169   \interlinepenalty \@M
15170   \hyphenpenalty=\@M \exhyphenpenalty=\@M
15171   \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}

```

## 7.97 refrep-xetex-bidi.def

```

15172 \ProvidesFile{refrep-xetex-bidi.def}[2015/11/14 v0.4 bidi adaptations for refrep class for Xe
15173 \if@titlepage
15174   \renewcommand\maketitle{\begin{titlepage}%
15175     \let\footnotesize\small
15176     \let\right@footnoterule\relax
15177     \let\left@footnoterule\relax
15178     \let\textwidth\footnoterule\relax
15179     \let\footnote\thanks
15180     \let\LTRfootnote\LTRthanks
15181     \let\RTLfootnote\RTLthanks
15182     \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
15183     \def\@makefnmark%
15184       {\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
15185     \long\def\@makefntext##1{%
15186       \@setpar{\@par
15187         \@tempdima = \hsize
15188         \advance\@tempdima -1em
15189         \parshape \@ne 1em \@tempdima}%
15190       \par\parindent 1em \noindent
15191       \hb@xt@\z@{\hss\@textsuperscript{\normalfont\@thefnmark}\,}##1}
15192     \null\vfil
15193     \vskip 60\p@
15194     \begin{center}%
15195       {\LARGE \@title \par}%
15196       \vskip 3em%
15197       {\large
15198         \lineskip .75em%
15199         \begin{tabular}[t]{c}%
15200           \@author
15201         \end{tabular}\par}%
15202       \vskip 1.5em%
15203       {\large \@date \par}%           % Set date in \large size.
15204     \end{center}\par
15205     \@thanks
15206     \vfil\null
15207   \end{titlepage}%
15208   \setcounter{footnote}{0}%
15209   \global\let\thanks\relax

```



```

15210 \global\let\LTRthanks\relax
15211 \global\let\RTLthanks\relax
15212 \global\let\maketitle\relax
15213 \global\let\@thanks\@empty
15214 \global\let\@author\@empty
15215 \global\let\@date\@empty
15216 \global\let\@title\@empty
15217 \global\let\title\relax
15218 \global\let\author\relax
15219 \global\let\date\relax
15220 \global\let\and\relax
15221 }
15222 \else
15223 \renewcommand\maketitle{\par
15224 \begingroup
15225 \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
15226 \def\@makefnmark%
15227 {\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
15228 \long\def\@makefntext##1{%
15229 \setpar{\@par
15230 \tempdima = \hsize
15231 \advance\tempdima -1em
15232 \parshape \@ne 1em \tempdima}%
15233 \par\parindent 1em \noindent
15234 \hb@xt@\z@\{\hss\@textsuperscript{\normalfont\@thefnmark}\,}##1}
15235 \if@twocolumn
15236 \ifnum \col@number=\@ne
15237 \maketitle
15238 \else
15239 \twocolumn[\maketitle]%
15240 \fi
15241 \else
15242 \newpage
15243 \global\@topnum\z@ % Prevents figures from going at top of page.
15244 \maketitle
15245 \fi
15246 \thispagestyle{empty}\@thanks
15247 \endgroup
15248 \setcounter{footnote}{0}%
15249 \global\let\thanks\relax
15250 \global\let\LTRthanks\relax
15251 \global\let\RTLthanks\relax
15252 \global\let\maketitle\relax
15253 \global\let\@maketitle\relax
15254 \global\let\@thanks\@empty
15255 \global\let\@author\@empty
15256 \global\let\@date\@empty
15257 \global\let\@title\@empty
15258 \global\let\title\relax
15259 \global\let\author\relax

```



```

15260 \global\let\date\relax
15261 \global\let\and\relax
15262 }
15263 \def\@maketitle{%
15264 \newpage
15265 \null
15266 \longthickrule\vskip1.5em%
15267 \let \footnote \thanks
15268 \let \LTRfootnote \LTRthanks
15269 \let \RTLfootnote \RTLthanks
15270 {\secshape \parskip\z@ \parindent\z@
15271 \Large\bfseries \@title \par}%
15272 \vskip1.5em\longthickrule\vskip1.5em%
15273 {\normalsize
15274 \lineskip .5em%
15275 \begin{flushright}%
15276 {\slshape\@author\par}
15277 \vskip 1em%
15278 {\@date}%
15279 \end{flushright}\par}%
15280 \vskip 1.5em}
15281 \fi
15282 \renewcommand*\l@part[2]{%
15283 \ifnum \c@tocdepth >-2\relax
15284 \addpenalty{-\@highpenalty}%
15285 \addvspace{2.25em \@plus\p@}%
15286 \begingroup
15287 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
15288 \parfillskip -\@pnumwidth
15289 {\leavevmode
15290 \large \bfseries #1\hfil \hbox to\@pnumwidth{\hss #2}}\par
15291 \nobreak
15292 \global\@nobreaktrue
15293 \everypar{\global\@nobreakfalse\everypar{}}%
15294 \endgroup
15295 \fi}
15296 \renewcommand*\l@chapter[2]{%
15297 \ifnum \c@tocdepth >\m@ne
15298 \addpenalty{-\@highpenalty}%
15299 \vskip 1.0em \@plus\p@
15300 \setlength\@tempdima{1.5em}%
15301 \begingroup
15302 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
15303 \parfillskip -\@pnumwidth
15304 \leavevmode \bfseries
15305 \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
15306 \hskip -\if@RTL\rightskip\else\leftskip\fi
15307 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
15308 \penalty\@highpenalty
15309 \endgroup

```



```

15310 \fi}
15311 \renewcommand\secshape{\if@RTL\rightskip\else\leftskip\fi=-\leftmarginwidth%
15312 \if@RTL\leftskip\else\rightskip\fi=\@flushglue%
15313 \hyphenpenalty=2000}
15314 \renewcommand\left@footnoterule{%
15315 \kern-3\p@
15316 \hrule\@width.4\columnwidth
15317 \kern 2.6\p@}
15318 \renewcommand\right@footnoterule{%
15319 \kern-3\p@
15320 \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
15321 \kern2.6\p@}
15322 \renewcommand\theequation
15323 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
15324 \renewcommand\thefigure
15325 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
15326 \renewcommand\thetable%
15327 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
15328 \renewcommand\thesection {\thechapter\@SepMark\@arabic\c@section}
15329 \renewcommand\thesubsection {\thesection\@SepMark\@arabic\c@subsection}
15330 \renewcommand\thesubsubsection {\thesubsection \@SepMark\@arabic\c@subsubsection}
15331 \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
15332 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
15333 \renewenvironment{thebibliography}[1]
15334 {\chapter*{\bibname
15335 \mkboth{\bibname}{\bibname}}%
15336 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
15337 \list{\@biblabel{\@arabic\c@enumiv}}%
15338 {\settowidth\labelwidth{\@biblabel{#1}}%
15339 \leftmargin\labelwidth
15340 \advance\leftmargin\labelsep
15341 \@openbib@code
15342 \usecounter{enumiv}%
15343 \let\p@enumiv\@empty
15344 \renewcommand\theenumiv{\@arabic\c@enumiv}}%
15345 \sloppy
15346 \clubpenalty4000
15347 \@clubpenalty \clubpenalty
15348 \widowpenalty4000%
15349 \sfcode`\.=\@m}
15350 {\def\@noitemerr
15351 {\@latex@warning{Empty `thebibliography' environment}}%
15352 \endlist}

```

## 7.98 report-xetex-bidi.def

```

15353 \ProvidesFile{report-xetex-bidi.def}[2015/11/14 v0.7 bidi adaptations for standard report cla
15354 \renewenvironment{theindex}
15355 {\if@twocolumn
15356 \@restonecolfalse

```



```

15357             \else
15358                 \@restonecoltrue
15359             \fi
15360             \columnseprule \z@
15361             \columnsep 35\p@
15362             \twocolumn[{\makeschapterhead{\indexname}}]%
15363             \@mkboth{\MakeUppercase\indexname}%
15364                 {\MakeUppercase\indexname}%
15365             \thispagestyle{plain}\parindent\z@
15366             \parskip\z@ \@plus .3\p@\relax
15367             \let\item\@idxitem}
15368         {\if@restonecol\onecolumn\else\clearpage\fi}
15369     \if@titlepage
15370     \renewcommand\maketitle{\begin{titlepage}%
15371     \let\footnotesize\small
15372     \let\right@footnoterule\relax
15373     \let\left@footnoterule\relax
15374     \let\textwidth\footnoterule\relax
15375     \let \footnote \thanks
15376     \let \LTRfootnote \LTRthanks
15377     \let \RTLfootnote \RTLthanks
15378     \null\vfil
15379     \vskip 60\p@
15380     \begin{center}%
15381         {\LARGE \@title \par}%
15382         \vskip 3em%
15383         {\large
15384         \lineskip .75em%
15385         \begin{tabular}[t]{c}%
15386             \@author
15387         \end{tabular}\par}%
15388         \vskip 1.5em%
15389         {\large \@date \par}%           % Set date in \large size.
15390     \end{center}\par
15391     \@thanks
15392     \vfil\null
15393     \end{titlepage}%
15394     \setcounter{footnote}{0}%
15395     \global\let\thanks\relax
15396     \global\let\LTRthanks\relax
15397     \global\let\RTLthanks\relax
15398     \global\let\maketitle\relax
15399     \global\let\@thanks\@empty
15400     \global\let\@author\@empty
15401     \global\let\@date\@empty
15402     \global\let\@title\@empty
15403     \global\let\title\relax
15404     \global\let\author\relax
15405     \global\let\date\relax
15406     \global\let\and\relax

```



```

15407 }
15408 \else
15409 \renewcommand\maketitle{\par
15410 \begin{group
15411 \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
15412 \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
15413 \long\def\@makefntext##1{\parindent 1em\noindent
15414 \hb@xt@1.8em{%
15415 \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
15416 \if@twocolumn
15417 \ifnum \col@number=\@ne
15418 \@maketitle
15419 \else
15420 \twocolumn[\@maketitle]%
15421 \fi
15422 \else
15423 \newpage
15424 \global\@topnum\z@ % Prevents figures from going at top of page.
15425 \@maketitle
15426 \fi
15427 \thispagestyle{plain}\@thanks
15428 \endgroup
15429 \setcounter{footnote}{0}%
15430 \global\let\thanks\relax
15431 \global\let\LTRthanks\relax
15432 \global\let\RTLthanks\relax
15433 \global\let\maketitle\relax
15434 \global\let\@maketitle\relax
15435 \global\let\@thanks\@empty
15436 \global\let\@author\@empty
15437 \global\let\@date\@empty
15438 \global\let\@title\@empty
15439 \global\let\title\relax
15440 \global\let\author\relax
15441 \global\let\date\relax
15442 \global\let\and\relax
15443 }
15444 \def\@maketitle{%
15445 \newpage
15446 \null
15447 \vskip 2em%
15448 \begin{center}%
15449 \let \footnote \thanks
15450 \let \LTRfootnote \LTRthanks
15451 \let \RTLfootnote \RTLthanks
15452 {\LARGE \@title \par}%
15453 \vskip 1.5em%
15454 {\large
15455 \lineskip .5em%
15456 \begin{tabular}[t]{c}%

```



```

15457         \@author
15458         \end{tabular}\par}%
15459         \vskip 1em%
15460         {\large \@date}%
15461     \end{center}%
15462     \par
15463     \vskip 1.5em}
15464 \fi
15465 \renewcommand*\l@part[2]{%
15466     \ifnum \c@tocdepth >-2\relax
15467         \addpenalty{-\@highpenalty}%
15468         \addvspace{2.25em \@plus\p@}%
15469         \setlength\@tempdima{3em}%
15470         \begingroup
15471             \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
15472             \parfillskip -\@pnumwidth
15473             {\leavevmode
15474                 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
15475             \nobreak
15476             \global\@nobreaktrue
15477             \everypar{\global\@nobreakfalse\everypar{}}%
15478         \endgroup
15479     \fi}
15480 \renewcommand*\l@chapter[2]{%
15481     \ifnum \c@tocdepth >\m@ne
15482         \addpenalty{-\@highpenalty}%
15483         \vskip 1.0em \@plus\p@
15484         \setlength\@tempdima{1.5em}%
15485         \begingroup
15486             \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
15487             \parfillskip -\@pnumwidth
15488             \leavevmode \bfseries
15489             \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
15490             \hskip -\if@RTL\rightskip\else\leftskip\fi
15491             #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
15492             \penalty\@highpenalty
15493         \endgroup
15494     \fi}
15495 \renewcommand\left@footnoterule{%
15496     \kern-3\p@
15497     \hrule\@width.4\columnwidth
15498     \kern2.6\p@}
15499 \renewcommand\right@footnoterule{%
15500     \kern-3\p@
15501     \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
15502     \kern2.6\p@}
15503 \renewcommand\theequation
15504     {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
15505 \renewcommand \thefigure
15506     {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}

```



```

15507 \renewcommand \thetable
15508     {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
15509 \renewcommand \thechapter {\@arabic\c@chapter}
15510 \renewcommand \thesection {\thechapter\@SepMark\@arabic\c@section}
15511 \renewcommand\thesubsection {\thesection\@SepMark\@arabic\c@subsection}
15512 \renewcommand\thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
15513 \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
15514 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
15515 \def\@makechapterhead#1{%
15516     \vspace*{50\p@}%
15517     {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont
15518         \ifnum \c@secnumdepth >\m@ne
15519             \huge\bfseries \@chapapp\space \thechapter
15520             \par\nobreak
15521             \vskip 20\p@
15522         \fi
15523         \interlinepenalty\@M
15524         \Huge \bfseries #1\par\nobreak
15525         \vskip 40\p@
15526     }}
15527 \def\@makeschapterhead#1{%
15528     \vspace*{50\p@}%
15529     {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
15530         \normalfont
15531         \interlinepenalty\@M
15532         \Huge \bfseries #1\par\nobreak
15533         \vskip 40\p@
15534     }}
15535 \renewenvironment{thebibliography}[1]
15536     {\chapter*{\bibname}%
15537         \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
15538         \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
15539         \list{\@biblabel{\@arabic\c@enumiv}}%
15540             {\settowidth\labelwidth{\@biblabel{#1}}%
15541                 \leftmargin\labelwidth
15542                 \advance\leftmargin\labelsep
15543                 \@openbib@code
15544                 \usecounter{enumiv}%
15545                 \let\p@enumiv\@empty
15546                 \renewcommand\theenumiv{\@arabic\c@enumiv}}%
15547         \sloppy
15548         \clubpenalty4000
15549         \@clubpenalty \clubpenalty
15550         \widowpenalty4000%
15551         \sfcode`\.\@m}
15552 {\def\@noitemerr
15553     {\@latex@warning{Empty `thebibliography' environment}}}%
15554 \endlist}

```





## 7.99 rotating-xetex-bidi.def

```

15555 \ProvidesFile{rotating-xetex-bidi.def}[2013/05/22 v0.2 bidi adaptations for rotating package]
15556 \def\end@rotfloat{%
15557   \end{minipage}\end{lrbox}%
15558   \stepcounter{r@tfl@t}%
15559   \rot@label{RF\ther@tfl@t}%
15560   \rot@pageref{RF\ther@tfl@t}{\R@@page}%
15561   \edef\@tempa{Adding sideways \capttype\space on page \R@@page\space}
15562   \rot@mess@toks\expandafter{\@tempa}
15563   \wd\rot@float@box\z@
15564   \ht\rot@float@box\z@
15565   \dp\rot@float@box\z@
15566   \vboxL to \textheight{%
15567     \setkeys{Grot}{units=360}%
15568     \if@rot@twoside
15569     \else
15570       \let\R@@page\rot@LR
15571     \fi
15572     \ifthenelse{\isodd{\R@@page}}{%
15573       \if@rot@twoside
15574         \rot@mess@toks\expandafter{\the\rot@mess@toks (right hand page)}%
15575       \fi
15576       \vfill
15577       \@@line{%
15578         \hskip\rotFPtop
15579         \rotatebox{90}{\box\rot@float@box}%
15580         \hskip\rotFPbot
15581       }%
15582     }{%
15583       \if@rot@twoside
15584         \rot@mess@toks\expandafter{\the\rot@mess@toks (left hand page)}%
15585       \fi
15586       \@@line{%
15587         \hskip\rotFPbot
15588         \rotatebox{-90}{\box\rot@float@box}%
15589         \hskip\rotFPtop
15590       }%
15591       \vfill
15592     }%
15593     \rot@message{\the\rot@mess@toks}
15594   }%
15595   \end@float
15596 }
15597 \let\endsidewaysfigure\end@rotfloat
15598 \let\endsidewaysstable\end@rotfloat
15599 \def\end@rotdblfloat{%
15600   \end{minipage}\end{lrbox}%
15601   \stepcounter{r@tfl@t}%
15602   \rot@label{RF\ther@tfl@t}%

```



```

15603 \rot@pageref{RF\ther@tfl@t}{\R@@page}%
15604 \edef\@tempa{Adding sideways \@captype\space on page \R@@page\space}
15605 \rot@mess@toks\expandafter{\@tempa}
15606 \@tempdima\ht\rot@float@box
15607 \advance\@tempdima by \dp\rot@float@box
15608 \wd\rot@float@box\z@
15609 \ht\rot@float@box\z@
15610 \dp\rot@float@box\z@
15611 \vboxL to \textheight{%
15612   \setkeys{Grot}{units=360}%
15613   \if@rot@twoside
15614   \else
15615     \let\R@@page\rot@LR
15616   \fi
15617   \ifthenelse{\isodd{\R@@page}}{%
15618     \ifrot@messages
15619     \if@rot@twoside
15620     \rot@mess@toks\expandafter{\the\rot@mess@toks (right hand page)}}%
15621 \fi
15622   \fi
15623   \vfill
15624   \@@line{%
15625     \hskip\rotFPtop
15626     \rotatebox{90}{\box\rot@float@box}%
15627     \hskip\rotFPbot
15628   }%
15629 }{%
15630   \ifrot@messages
15631   \if@rot@twoside
15632   \rot@mess@toks\expandafter{\the\rot@mess@toks (left hand page)}}%
15633 \fi
15634   \fi%
15635   \@@line{%
15636     \hskip\rotFPbot
15637     \rotatebox{-90}{\box\rot@float@box}%
15638     \hskip\rotFPtop
15639   }%
15640   \vfill
15641 }%
15642 \rot@message{\the\rot@mess@toks}%
15643 }%
15644 \end@dblfloat
15645 }
15646 \def\turn#1{%
15647   \Grot@setangle{#1}%
15648   \setbox\z@\color@hbox\ifmmode\if@RTL\beginR\fi\else\if@RTL\beginR\fi\fi\ignorespaces}
15649 \def\endturn{%
15650   \ifmmode\if@RTL\endR\fi\else\if@RTL\endR\fi\fi
15651   \unskip\color@endbox
15652   \Grot@x\z@

```



```

15653 \Grot@y\z@
15654 \ifmmode\else\if@RTL\beginL\fi\fi\Grot@box\ifmmode\else\if@RTL\endL\fi\fi
15655 }
15656 \def\rotate#1{%
15657 \Grot@setangle{#1}%
15658 \setbox\z@\color@hbox\ifmmode\if@RTL\beginR\fi\else\if@RTL\beginR\fi\fi\ignorespaces}
15659 \def\endrotate{%
15660 \ifmmode\if@RTL\endR\fi\else\if@RTL\endR\fi\fi
15661 \unskip\color@endbox
15662 \Grot@x\z@
15663 \Grot@y\z@
15664 \wd0\z@\dp0\z@\ht0\z@
15665 \ifmmode\else\if@RTL\beginL\fi\fi\Grot@box\ifmmode\else\if@RTL\endL\fi\fi
15666 }
15667 \def\turnbox#1#2{%
15668 \Grot@setangle{#1}%
15669 \setbox\z@\hbox{{\ifmmode\if@RTL\beginR\fi\else\if@RTL\beginR\fi\fi#2\ifmmode\if@RTL\endR\fi\fi}}
15670 \Grot@x\z@\Grot@y\z@
15671 \wd0\z@\dp0\z@\ht0\z@
15672 \ifmmode\else\if@RTL\beginL\fi\fi\Grot@box\ifmmode\else\if@RTL\endL\fi\fi
15673 }
15674 \def\sideways{%
15675 \Grot@setangle{90}%
15676 \setbox\z@\color@hbox\ifmmode\if@RTL\beginR\fi\else\if@RTL\beginR\fi\fi\ignorespaces}
15677 \def\endsideways{%
15678 \ifmmode\if@RTL\endR\fi\else\if@RTL\endR\fi\fi
15679 \unskip\color@endbox
15680 \Grot@x\z@
15681 \Grot@y\z@
15682 \ifmmode\else\if@RTL\beginL\fi\fi\Grot@box\ifmmode\else\if@RTL\endL\fi\fi
15683 }

```

## 7.100 scrartcl-xetex-bidi.def

```

15684 \ProvidesFile{scrartcl-xetex-bidi.def}[2016/09/14 v1.0 bidi adaptations for scrartcl class for xetex]
15685 \newcommand{\scr@saved@LTRfootnotetext}{%
15686 \newcommand{\scr@saved@RTLfootnotetext}{%
15687 \let\scr@saved@footnotetext\@footnotetext
15688 \let\scr@saved@LTRfootnotetext\@LTRfootnotetext
15689 \let\scr@saved@RTLfootnotetext\@RTLfootnotetext
15690 \renewcommand{\@footnotetext}[1]{%
15691 \scr@saved@footnotetext{#1}%
15692 \csname FN@mfp@prepare\endcsname
15693 }
15694 \renewcommand{\@LTRfootnotetext}[1]{%
15695 \scr@saved@LTRfootnotetext{#1}%
15696 \csname FN@mfp@prepare\endcsname
15697 }
15698 \renewcommand{\@RTLfootnotetext}[1]{%
15699 \scr@saved@RTLfootnotetext{#1}%

```



```

15700 \csname FN@mfp@prepare\endcsname
15701 }
15702 \renewcommand\deffootnote[4] [] {%
15703   \long\def\@makefnmark##1{%
15704     \setlength{\@tempdimc}{#3}%
15705     \def\@tempa{#1}\ifx\@tempa\@empty
15706       \setpar{\@par
15707         \@tempdima = \hsize
15708         \addtolength{\@tempdima}{-#2}%
15709         \ifRTL\parshape \@ne Opt \@tempdima\else\parshape \@ne #2 \@tempdima\fi}%
15710     \else
15711       \addtolength{\@tempdimc}{#2}%
15712       \addtolength{\@tempdimc}{-#1}%
15713       \setpar{\@par
15714         \@tempdima = \hsize
15715         \addtolength{\@tempdima}{-#1}%
15716         \@tempdimb = \hsize
15717         \addtolength{\@tempdimb}{-#2}%
15718         \ifRTL\parshape \tw@ Opt \@tempdima Opt \@tempdimb\else\parshape \tw@ #1 \@tempdima
15719       }%
15720     \fi
15721     \par
15722     \parindent\@tempdimc\noindent
15723     \ftn@font\hbox to \z@{\hss\@makefnmark}##1%
15724   }%
15725   \def\@makefnmark{\hbox{\ftnm@font{#4}}}%
15726 }
15727 \deffootnote[1em]{1.5em}{1em}{\textsuperscript{\thefootnotemark}}
15728 \renewcommand*\left@footnoterule{%
15729   \normalsize\ftn@rule@test@values
15730   \kern-\dimexpr 2.6\p+ \ftn@rule@height\relax
15731   \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
15732   {\usekomafont{footnoterule}{%
15733     \hrule \@height\ftn@rule@height \@width\ftn@rule@width}}%
15734   \kern 2.6\p@}
15735 \renewcommand*\right@footnoterule{%
15736   \normalsize\ftn@rule@test@values
15737   \kern-\dimexpr 2.6\p+ \ftn@rule@height\relax
15738   \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
15739   {\usekomafont{footnoterule}{%
15740     \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\ftn@rule@width\relax \leavevmode\le
15741     \kern 2.6\p@}
15742 \renewcommand*\maketitle[1] [1] {%
15743   \if@titlepage
15744     \begin{titlepage}
15745       \setcounter{page}{%
15746         #1%
15747       }%
15748       \let\footnotesize\small
15749       \let\right@footnoterule\relax

```



```

15750 \let\left@footnoterule\relax
15751 \let\textwidth@footnoterule\relax
15752 \let\footnote\thanks
15753 \let\LTRfootnote\LTRthanks
15754 \let\RTLfootnote\RTLthanks
15755 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
15756 \let\@oldmakefnmark\@makefnmark
15757 \renewcommand*{\@makefnmark}{\rlap{\@oldmakefnmark}}%
15758 \ifx\@extratitle\@empty \else
15759 \noindent\@extratitle\next@tpage\cleardoubleemptypage
15760 \thispagestyle{empty}%
15761 \fi
15762 \setparsizes{\z@}{\z@}{\z@\@plus 1fil}\par@updaterelative
15763 \ifx\@titlehead\@empty \else
15764 \begin{minipage}[t]{\textwidth}%
15765 \@titlehead
15766 \end{minipage}\par
15767 \fi
15768 \null\vfill
15769 \begin{center}
15770 \ifx\@subject\@empty \else
15771 {\subject@font \@subject \par}%
15772 \vskip 3em
15773 \fi
15774 {\titlefont\huge \@title\par}%
15775 \vskip 1em
15776 {\ifx\@subtitle\@empty\else\usekomafont{subtitle}\@subtitle\par\fi}%
15777 \vskip 2em
15778 {\Large \lineskip 0.75em
15779 \begin{tabular}[t]{c}
15780 \@author
15781 \end{tabular}\par
15782 }%
15783 \vskip 1.5em
15784 {\Large \@date \par}%
15785 \vskip \z@\@plus3fill
15786 {\Large \@publishers \par}%
15787 \vskip 3em
15788 \end{center}\par
15789 \@thanks
15790 \vfill\null
15791 \if@twoside\next@tpage
15792 \begin{minipage}[t]{\textwidth}
15793 \uppertitleback
15794 \end{minipage}\par
15795 \vfill
15796 \begin{minipage}[b]{\textwidth}
15797 \lowertitleback
15798 \end{minipage}
15799 \fi

```



```

15800     \ifx\@dedication\@empty \else
15801         \next@tpage\null\vfill
15802         {\centering \Large \@dedication \par}%
15803         \vskip \z@ \@plus3fill
15804         \if@twoside \next@tpage\cleardoubleemptypage \fi
15805     \fi
15806 \end{titlepage}
15807 \else
15808     \par
15809     \@tempcnta=%
15810     #1%
15811     \relax\ifnum\@tempcnta=1\else
15812         \ClassWarning{\KOMAClassName}{%
15813             Optional argument of \string\maketitle\space ignored
15814             at\MessageBreak
15815             notitlepage-mode%
15816         }%
15817     \fi
15818 \begingroup
15819     \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
15820     \let\oldmakefnmark\@makefnmark
15821     \renewcommand*{\@makefnmark}{\rlap{\oldmakefnmark}}
15822     \if@twocolumn
15823         \ifnum \col@number=\@ne
15824             \@maketitle
15825         \else
15826             \twocolumn[\@maketitle]%
15827         \fi
15828     \else
15829         \newpage
15830         \global\@topnum\z@
15831         \@maketitle
15832     \fi
15833     \thispagestyle{\titlepagestyle}\@thanks
15834 \endgroup
15835 \fi
15836 \setcounter{footnote}{0}%
15837 \let\thanks\relax
15838 \let\LTRthanks\relax
15839 \let\RTLthanks\relax
15840 \let\maketitle\relax
15841 \let\@maketitle\relax
15842 \global\let\@thanks\@empty
15843 \global\let\@author\@empty
15844 \global\let\@date\@empty
15845 \global\let\@title\@empty
15846 \global\let\@subtitle\@empty
15847 \global\let\@extratitle\@empty
15848 \global\let\@titlehead\@empty
15849 \global\let\@subject\@empty

```



```

15850 \global\let\@publishers\@empty
15851 \global\let\@uppertitleback\@empty
15852 \global\let\@lowertitleback\@empty
15853 \global\let\@dedication\@empty
15854 \global\let\author\relax
15855 \global\let\title\relax
15856 \global\let\extratitle\relax
15857 \global\let\titlehead\relax
15858 \global\let\subject\relax
15859 \global\let\publishers\relax
15860 \global\let\uppertitleback\relax
15861 \global\let\lowertitleback\relax
15862 \global\let\dedication\relax
15863 \global\let\date\relax
15864 \global\let\and\relax
15865 }%
15866 \renewcommand*{\@maketitle}{%
15867 \clearpage
15868 \let\footnote\thanks
15869 \let\LTRfootnote\LTRthanks
15870 \let\RTLfootnote\RTLthanks
15871 \ifx\@extratitle\@empty \else
15872 \noindent\@extratitle \next@tpage \if@twoside \null\next@tpage \fi
15873 \fi
15874 \setparsizes{\z@}{\z@}{\z@\@plus 1fil}\par@updaterelative
15875 \ifx\@titlehead\@empty \else
15876 \begin{minipage}[t]{\textwidth}
15877 \@titlehead
15878 \end{minipage}\par
15879 \fi
15880 \null
15881 \vskip 2em%
15882 \begin{center}%
15883 \ifx\@subject\@empty \else
15884 {\subject@font \@subject \par}
15885 \vskip 1.5em
15886 \fi
15887 {\titlefont\huge \@title \par}%
15888 \vskip .5em
15889 {\ifx\@subtitle\@empty\else\usekomafont{subtitle}\@subtitle\par\fi}%
15890 \vskip 1em
15891 {\Large
15892 \lineskip .5em%
15893 \begin{tabular}[t]{c}
15894 \@author
15895 \end{tabular}}\par
15896 }%
15897 \vskip 1em%
15898 {\Large \@date \par}%
15899 \vskip \z@ \@plus 1em

```



```

15900     {\Large \@publishers \par}
15901     \ifx\@dedication\@empty \else
15902         \vskip 2em
15903         {\Large \@dedication \par}
15904     \fi
15905 \end{center}%
15906 \par
15907 \vskip 2em
15908 }%
15909 \def\raggedsection{\if@RTL\raggedleft\else\raggedright\fi}
15910 \def\raggedpart{\if@RTL\raggedleft\else\raggedright\fi}
15911 \renewcommand*\autodot{\if@altsecnumformat\@SepMark\fi}
15912 \renewcommand*{\thesubsection}{\thesection\@SepMark\@arabic\c@section}
15913 \renewcommand*{\thesubsubsection}{%
15914     \thesubsection\@SepMark\@arabic\c@subsubsection
15915 }
15916 \renewcommand*{\theparagraph}{\thesubsubsection\@SepMark\@arabic\c@paragraph}
15917 \renewcommand*{\thesubparagraph}{%
15918     \theparagraph\@SepMark\@arabic\c@subparagraph
15919 }
15920 \renewenvironment{thebibliography}[1]{%
15921     \if@bib@break@
15922         \bib@beginhook
15923     \else
15924         \bib@heading
15925         \ifx\bibpreamble\relax\else\ifx\bibpreamble\@empty\else
15926             \noindent\bibpreamble\par\nobreak
15927         \fi\fi
15928         \bib@beginhook
15929         \bib@before@hook
15930     \fi
15931     \renewcommand{\BreakBibliography}[1]{%
15932         \@bib@break
15933         \end{thebibliography}%
15934         \begingroup ##1\endgroup
15935         \begin{thebibliography}{#1}
15936     }%
15937     \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
15938     \list{%
15939         \@biblabel{\@arabic\c@enumiv}%
15940     }{%
15941         \settowidth\labelwidth{\@biblabel{#1}}%
15942         \leftmargin\labelwidth
15943         \advance\leftmargin\labelsep
15944         \@openbib@code
15945         \if@bib@break@
15946             \edef\@tempa{%
15947                 \noexpand\usecounter{enumiv}%
15948                 \noexpand\setcounter{enumiv}{\the\c@enumiv}%
15949             }\@tempa

```





```

15950     \no@bib@break
15951     \else
15952         \usecounter{enumiv}%
15953     \fi
15954     \let\p@enumiv\@empty
15955     \renewcommand*\theenumiv{\@arabic\c@enumiv}%
15956 }%
15957 \sloppy\clubpenalty4000 \widowpenalty4000
15958 \sfcode`\.=\@m
15959 }{%
15960 \if@bib@break@
15961     \def\@noitemerr{%
15962         \@latex@warning{%
15963             \string\BreakBibliography\space at begin of `thebibliography'
15964             environment\MessageBreak
15965             or following \string\BreakBibliography}%
15966     }%
15967 \else
15968     \def\@noitemerr{%
15969         \@latex@warning{%
15970             Empty `thebibliography' environment or
15971             \string\BreakBibliography\MessageBreak
15972             before end of `thebibliography' environment}%
15973     }%
15974 \fi
15975 \endlist
15976 \if@bib@break@
15977 \else
15978     \bib@after@hook
15979     \let\bib@before@hook\@empty
15980     \let\bib@after@hook\@empty
15981 \fi
15982 \bib@endhook
15983 }
15984 \renewcommand*\left@footnoterule{%
15985     \kern-3\p@
15986     \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
15987     \hrule\@width.4\columnwidth
15988     \kern 2.6\p@}
15989 \renewcommand*\right@footnoterule{%
15990     \kern-3\p@
15991     \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
15992     \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
15993     \kern2.6\p@}
15994 \renewcommand*{\raggeddictum}{\if@RTL\raggedright\else\raggedleft\fi}
15995 \renewcommand*{\raggeddictumtext}{\if@RTL\raggedleft\else\raggedright\fi}
15996 \renewcommand*{\raggeddictumauthor}{\if@RTL\raggedright\else\raggedleft\fi}
15997 \renewcommand\marginline[1]{%
15998     \marginpar[\if@RTL\raggedright\else\raggedleft\fi{#1}]{\if@RTL\raggedleft\else\raggedright\fi}
15999 }

```



```

16000 \renewcommand{\@@makecaption}[3]{%
16001   \cap@margin
16002   \ifonelinecaptions
16003     \@tempcnta=\value{mpfootnote}\@tempcntb=\value{footnote}%
16004     \let\scr@tmp@footnotetext=\@footnotetext
16005     \let\@footnotetext=\@gobble
16006     \let\scr@tmp@LTRfootnotetext=\@LTRfootnotetext
16007     \let\@LTRfootnotetext=\@gobble
16008     \let\scr@tmp@RTLfootnotetext=\@RTLfootnotetext
16009     \let\@RTLfootnotetext=\@gobble
16010     \sbox\@tempboxa{%
16011       {\capfont{\strut\ignorespaces
16012         #1{\caplabelfont{#2\captionformat}}}%
16013         #3\unskip\strut}}%
16014     }%
16015     \let\@footnotetext=\scr@tmp@footnotetext
16016     \let\scr@tmp@footnotetext=\undefined
16017     \let\@LTRfootnotetext=\scr@tmp@LTRfootnotetext
16018     \let\scr@tmp@LTRfootnotetext=\undefined
16019     \let\@RTLfootnotetext=\scr@tmp@RTLfootnotetext
16020     \let\scr@tmp@RTLfootnotetext=\undefined
16021     \setcounter{footnote}{\@tempcntb}%
16022     \setcounter{mpfootnote}{\@tempcnta}%
16023   \else
16024     \sbox\@tempboxa{\hspace*{2\cap@width}}%
16025   \fi
16026   \begingroup%
16027     \setlength{\@tempdima}{\cap@width}%
16028     \ifdim \wd\@tempboxa >\@tempdima
16029       \hb@xt@\hsize{%
16030         \setbox\@tempboxa\vbox{\hsize=\cap@width
16031           \ifdofullc@p
16032             {\capfont{\@hangfrom{\scr@smashdp{\strut\ignorespaces
16033               #1{\caplabelfont{#2\captionformat}}}}}%
16034             {\#3\unskip\strut\par}}}%
16035       \else%
16036         \ifdim\cap@indent<\z@
16037           {\capfont{\strut\ignorespaces
16038             #1{\caplabelfont{#2\captionformat\par}}}%
16039           \noindent\hspace*{-\cap@indent}\#3\unskip\strut\par}}%
16040       \else%
16041         \if@capbreak
16042           {\capfont{\strut\ignorespaces
16043             #1{\caplabelfont{#2\captionformat\par}}}%
16044           \noindent\@hangfrom{\hspace*{\cap@indent}}{\#3\par}}}%
16045       \else
16046         {\capfont{\@hangfrom{\scr@smashdp\strut\hspace*{\cap@indent}}%
16047           {\hspace*{-\cap@indent}\scr@smashdp{\ignorespaces#1%
16048             {\caplabelfont{#2\captionformat}}}\#3\unskip\strut\par}}}%
16049     \fi

```



```

16050         \fi
16051         \fi
16052     }%
16053     \setlength{\@tempdima}{\ht\@tempboxa}%
16054     \addtolength{\@tempdima}{\dp\@tempboxa}%
16055     \addtolength{\@tempdima}{-\ht\strutbox}%
16056     \ht\@tempboxa\ht\strutbox
16057     \dp\@tempboxa\@tempdima
16058     \strut\cap@left
16059     \box\@tempboxa
16060     \cap@right\strut
16061 }%
16062 \else
16063     \global \@minipagefalse
16064     \sbox\@tempboxa{%
16065         {\capfont{\scr@smashdp{\strut\ignorespaces
16066             #1{\caplabelfont{#2\captionformat}}}}}%
16067         #3}%
16068     }%
16069     {\capfont{\hb@xt@\hsize{\strut\cap@left\if@RTL\beginR\fi\box\@tempboxa\if@RTL\endR\fi\c
16070     \fi
16071 \endgroup
16072 }
16073 \renewcommand{\@makecaption}[2]{%
16074     \if@captionabove
16075         \vskip\belowcaptionskip
16076     \else
16077         \vskip\abovecaptionskip
16078     \fi
16079     \@makecaption\@firstofone{#1}{#2}%
16080     \if@captionabove
16081         \vskip\abovecaptionskip
16082     \else
16083         \vskip\belowcaptionskip
16084     \fi
16085 }
16086 \bidi@AfterFile{longtable-xetex-bidi.def}{%
16087     \@ifpackageloaded{caption2}{\@komalongtablefalse
16088         \scr@caption@before@longtable@warning{caption2}%
16089     }{}%
16090     \if@komalongtable
16091         \renewcommand{\LT@makecaption}[3]{%
16092             \noalign{%
16093                 \if@captionabove
16094                     \vskip\belowcaptionskip
16095                 \else
16096                     \vskip\abovecaptionskip
16097                 \fi
16098             }%
16099             \LT@mcol\LT@cols c{%

```



```

16100      \hbox to\z@{\hss\parbox[t]{\linewidth{%
16101          \@makecaption{#1}{#2}{#3}%
16102      }\endgraf
16103      \if@captionabove
16104          \vskip\abovcaptionskip
16105      \else
16106          \vskip\belowcaptionskip
16107      \fi
16108      }%
16109      \hss
16110      }%
16111      }%
16112      }%
16113      \renewcommand*{\scr@LT@array}{}%
16114      \let\scr@LT@array=\LT@array
16115      \renewcommand*{\LT@array}{%
16116          \let\scr@caption=\LT@caption
16117          \def\captionabove{\noalign{\global\@captionabovetrue}%
16118              \scr@caption}%
16119          \def\captionbelow{\noalign{\global\@captionabovetrue}%
16120              \scr@caption}%
16121          \if@tablecaptionabove
16122              \let\LT@caption=\captionabove
16123          \else
16124              \let\LT@caption=\captionbelow
16125          \fi
16126          \scr@LT@array
16127      }%
16128      \ClassInfo{\KOMAClassName}{%
16129          longtable captions redefined%
16130      }%
16131      \fi
16132  }
16133
16134  \CloneTOCEntryStyle{tocline}{part}
16135  \TOCEntryStyleStartInitCode{part}{%
16136      \expandafter\renewcommand%
16137      \csname scr@tso@#1@linefill\endcsname{\hfill}%
16138      \expandafter\renewcommand%
16139      \csname scr@tso@#1@entryformat\endcsname[1]{\usekomafont{partentry}{##1}}%
16140      \expandafter\renewcommand%
16141      \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
16142          \usekomafont{partentry}{\usekomafont{partentrypagenumber}{##1}}}%
16143      \expandafter\renewcommand\expandafter*%
16144      \csname scr@tso@#1@beforeskip\endcsname{2.25em \@plus\p@}%
16145  }
16146
16147  \CloneTOCEntryStyle{tocline}{section}
16148  \TOCEntryStyleStartInitCode{section}{%
16149      \expandafter\renewcommand%

```



```

16150 \csname scr@tso@#1@linefill\endcsname{%
16151   \if@sectionentrywithdots
16152     \TOCLineLeaderFill\relax
16153   \else
16154     \hfill
16155   \fi
16156 }%
16157 % F^^fcr die Eintr^^e4ge die Schrift von Element sectionentry verwenden.
16158 \expandafter\renewcommand%
16159 \csname scr@tso@#1@entryformat\endcsname{\usekomafont{sectionentry}}%
16160 \expandafter\renewcommand%
16161 \csname scr@tso@#1@pagenumberformat\endcsname[1]{\usekomafont{sectionentry}{\usekomafont{se
16162 \expandafter\renewcommand\expandafter*%
16163 \csname scr@tso@#1@beforeskip\endcsname{1.0em \@plus\p@}%
16164 }
16165
16166 \CloneTOCEntryStyle{tocline}{subsection}
16167 \TOCEntryStyleStartInitCode{subsection}{%
16168   \expandafter\renewcommand%
16169   \csname scr@tso@#1@linefill\endcsname{\TOCLineLeaderFill\relax}%
16170 }
16171
16172 \CloneTOCEntryStyle{subsection}{default}
16173
16174 \DeclareSectionCommand[%
16175   style=part,%
16176   level=\z@,%
16177   tocstyle=part,%
16178   toclevel=\m@ne,%
16179   tocindent=\z@,%
16180   tocnumwidth=2em%
16181 ]{part}
16182 \DeclareSectionCommand[%
16183   style=section,%
16184   level=1,%
16185   indent=\z@,%
16186   beforeskip=-3.5ex \@plus -1ex \@minus -.2ex,%
16187   afterskip=2.3ex \@plus .2ex,%
16188   tocstyle=section,%
16189   tocindent=0pt,%
16190   tocnumwidth=1.5em%
16191 ]{section}
16192 \DeclareSectionCommand[%
16193   style=section,%
16194   level=2,%
16195   indent=\z@,%
16196   beforeskip=-3.25ex\@plus -1ex \@minus -.2ex,%
16197   afterskip=1.5ex \@plus .2ex,%
16198   tocstyle=subsection,%
16199   tocindent=1.5em,%

```



```

16200   tocnumwidth=2.3em%
16201 ]{subsection}
16202 \DeclareSectionCommand[%
16203   style=section,%
16204   level=3,%
16205   indent=\z@,%
16206   beforeskip=-3.25ex\@plus -1ex \@minus -.2ex,%
16207   afterskip=1.5ex \@plus .2ex,%
16208   tocstyle=subsection,%
16209   tocindent=3.8em,%
16210   tocnumwidth=3.2em%
16211 ]{subsubsection}
16212 \DeclareSectionCommand[%
16213   style=section,%
16214   level=4,%
16215   indent=\z@,%
16216   beforeskip=3.25ex \@plus1ex \@minus .2ex,%
16217   afterskip=-1em,%
16218   tocstyle=subsection,%
16219   tocindent=7.0em,%
16220   tocnumwidth=4.1em%
16221 ]{paragraph}
16222 \DeclareSectionCommand[%
16223   style=section,%
16224   level=5,%
16225   indent=\scr@parindent,%
16226   beforeskip=3.25ex \@plus1ex \@minus .2ex,%
16227   afterskip=-1em,%
16228   tocstyle=subsection,%
16229   tocindent=10em,%
16230   tocnumwidth=5em%
16231 ]{subparagraph}

```

### 7.101 scrbook-xetex-bidi.def

```

16232 \ProvidesFile{scrbook-xetex-bidi.def}[2016/09/14 v1.0 bidi adaptations for scrbook class for
16233 \newcommand{\scr@saved@LTRfootnotetext}{}
16234 \newcommand{\scr@saved@RTLfootnotetext}{}
16235 \let\scr@saved@footnotetext\@footnotetext
16236 \let\scr@saved@LTRfootnotetext\@LTRfootnotetext
16237 \let\scr@saved@RTLfootnotetext\@RTLfootnotetext
16238 \renewcommand{\@footnotetext}[1]{%
16239   \scr@saved@footnotetext{#1}%
16240   \csname FN@mf@prepare\endcsname
16241 }
16242 \renewcommand{\@LTRfootnotetext}[1]{%
16243   \scr@saved@LTRfootnotetext{#1}%
16244   \csname FN@mf@prepare\endcsname
16245 }
16246 \renewcommand{\@RTLfootnotetext}[1]{%

```



```

16247 \scr@saved@RTLfootnotetext{#1}%
16248 \csname FN@mfb@prepare\endcsname
16249 }
16250 \renewcommand\deffootnote[4][]{%
16251 \long\def\@makefntext##1{%
16252 \setlength{\@tempdimc}{#3}%
16253 \def\@tempa{#1}\ifx\@tempa\@empty
16254 \setpar{\@par
16255 \@tempdima = \hsize
16256 \addtolength{\@tempdima}{-#2}%
16257 \ifRTL\parshape \@ne Opt \@tempdima\else\parshape \@ne #2 \@tempdima\fi}%
16258 \else
16259 \addtolength{\@tempdimc}{#2}%
16260 \addtolength{\@tempdimc}{-#1}%
16261 \setpar{\@par
16262 \@tempdima = \hsize
16263 \addtolength{\@tempdima}{-#1}%
16264 \@tempdimb = \hsize
16265 \addtolength{\@tempdimb}{-#2}%
16266 \ifRTL\parshape \tw@ Opt \@tempdima Opt \@tempdimb\else\parshape \tw@ #1 \@tempdima
16267 }%
16268 \fi
16269 \par
16270 \parindent\@tempdimc\noindent
16271 \ftn@font\hbox to \z@{\hss\@makefnmark}##1%
16272 }%
16273 \def\@makefnmark{\hbox{\ftnm@font{#4}}}%
16274 }
16275 \deffootnote[1em]{1.5em}{1em}{\textsuperscript{\thefootnotemark}}
16276 \renewcommand*\left@footnoterule{%
16277 \normalsize\ftn@rule@test@values
16278 \kern-\dimexpr 2.6\p+ \ftn@rule@height\relax
16279 \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
16280 {\usekomafont{footnoterule}{%
16281 \hrule \@height\ftn@rule@height \@width\ftn@rule@width}}%
16282 \kern 2.6\p@}
16283 \renewcommand*\right@footnoterule{%
16284 \normalsize\ftn@rule@test@values
16285 \kern-\dimexpr 2.6\p+ \ftn@rule@height\relax
16286 \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
16287 {\usekomafont{footnoterule}{%
16288 \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\ftn@rule@width\relax \leavevmode\le
16289 \kern 2.6\p@}
16290 \renewcommand*\maketitle[1][1]{%
16291 \if@titlepage
16292 \begin{titlepage}
16293 \setcounter{page}{%
16294 #1%
16295 }%
16296 \let\footnotesize\small

```



```

16297 \let\right@footnoterule\relax
16298 \let\left@footnoterule\relax
16299 \let\textwidth@footnoterule\relax
16300 \let\footnote\thanks
16301 \let\LTRfootnote\LTRthanks
16302 \let\RTLfootnote\RTLthanks
16303 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
16304 \let\@oldmakefnmark\@makefnmark
16305 \renewcommand*\@makefnmark{\rlap\@oldmakefnmark}%
16306 \ifx\@extratitle\@empty \else
16307 \noindent\@extratitle\next@tpage\cleardoubleemptypage
16308 \thispagestyle{empty}%
16309 \fi
16310 \setparsizes{\z@}{\z@}{\z@\@plus 1fil}\par@updaterelative
16311 \ifx\@titlehead\@empty \else
16312 \begin{minipage}[t]{\textwidth}%
16313 \@titlehead
16314 \end{minipage}\par
16315 \fi
16316 \null\vfill
16317 \begin{center}
16318 \ifx\@subject\@empty \else
16319 {\subject@font \@subject \par}%
16320 \vskip 3em
16321 \fi
16322 {\titlefont\huge \@title\par}%
16323 \vskip 1em
16324 {\ifx\@subtitle\@empty\else\usekomafont{subtitle}\@subtitle\par\fi}%
16325 \vskip 2em
16326 {\Large \lineskip 0.75em
16327 \begin{tabular}[t]{c}
16328 \@author
16329 \end{tabular}\par
16330 }%
16331 \vskip 1.5em
16332 {\Large \@date \par}%
16333 \vskip \z@ \@plus3fill
16334 {\Large \@publishers \par}%
16335 \vskip 3em
16336 \end{center}\par
16337 \@thanks
16338 \vfill\null
16339 \if@twoside\next@tpage
16340 \begin{minipage}[t]{\textwidth}
16341 \@uppertitleback
16342 \end{minipage}\par
16343 \vfill
16344 \begin{minipage}[b]{\textwidth}
16345 \@lowertitleback
16346 \end{minipage}

```





```

16347     \fi
16348     \ifx\@dedication\@empty \else
16349         \next@tpage\null\vfill
16350         {\centering \Large \@dedication \par}%
16351         \vskip \z@ \@plus3fill
16352         \if@twoside \next@tpage\cleardoubleemptypage \fi
16353     \fi
16354     \end{titlepage}
16355 \else
16356     \par
16357     \@tempcnta=%
16358     #1%
16359     \relax\ifnum\@tempcnta=1\else
16360         \ClassWarning{\KOMAClassName}{%
16361             Optional argument of \string\maketitle\space ignored
16362             at\MessageBreak
16363             notitlepage-mode%
16364         }%
16365     \fi
16366     \begingroup
16367         \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
16368         \let\@oldmakefnmark\@makefnmark
16369         \renewcommand*{\@makefnmark}{\rlap\@oldmakefnmark}
16370         \if@twocolumn
16371             \ifnum \col@number=\@one
16372                 \@maketitle
16373             \else
16374                 \twocolumn[\@maketitle]%
16375             \fi
16376         \else
16377             \newpage
16378             \global\@topnum\z@
16379             \@maketitle
16380         \fi
16381         \thispagestyle{\titlepagestyle}\@thanks
16382     \endgroup
16383     \fi
16384     \setcounter{footnote}{0}%
16385     \let\thanks\relax
16386     \let\LTRthanks\relax
16387     \let\RTLthanks\relax
16388     \let\maketitle\relax
16389     \let\@maketitle\relax
16390     \global\let\@thanks\@empty
16391     \global\let\@author\@empty
16392     \global\let\@date\@empty
16393     \global\let\@title\@empty
16394     \global\let\@subtitle\@empty
16395     \global\let\@extratitle\@empty
16396     \global\let\@titlehead\@empty

```



```

16397 \global\let\@subject\@empty
16398 \global\let\@publishers\@empty
16399 \global\let\@uppertitleback\@empty
16400 \global\let\@lowertitleback\@empty
16401 \global\let\@dedication\@empty
16402 \global\let\author\relax
16403 \global\let\title\relax
16404 \global\let\extratitle\relax
16405 \global\let\titlehead\relax
16406 \global\let\subject\relax
16407 \global\let\publishers\relax
16408 \global\let\uppertitleback\relax
16409 \global\let\lowertitleback\relax
16410 \global\let\dedication\relax
16411 \global\let\date\relax
16412 \global\let\and\relax
16413 }%
16414 \renewcommand*{\@maketitle}{%
16415 \clearpage
16416 \let\footnote\thanks
16417 \let\LTRfootnote\LTRthanks
16418 \let\RTLfootnote\RTLthanks
16419 \ifx\@extratitle\@empty \else
16420 \noindent\@extratitle \next@tpage \if@twoside \null\next@tpage \fi
16421 \fi
16422 \setparsizes{\z@}{\z@}{\z@\@plus 1fil}\par@updaterelative
16423 \ifx\@titlehead\@empty \else
16424 \begin{minipage}[t]{\textwidth}
16425 \@titlehead
16426 \end{minipage}\par
16427 \fi
16428 \null
16429 \vskip 2em%
16430 \begin{center}%
16431 \ifx\@subject\@empty \else
16432 {\subject@font \@subject \par}
16433 \vskip 1.5em
16434 \fi
16435 {\titlefont\huge \@title \par}%
16436 \vskip .5em
16437 {\ifx\@subtitle\@empty\else\usekomafont{subtitle}\@subtitle\par\fi}%
16438 \vskip 1em
16439 {\Large
16440 \lineskip .5em%
16441 \begin{tabular}[t]{c}
16442 \@author
16443 \end{tabular}}\par
16444 }%
16445 \vskip 1em%
16446 {\Large \@date \par}%

```



```

16447 \vskip \z@ \@plus 1em
16448 {\Large \@publishers \par}
16449 \ifx\@dedication\@empty \else
16450 \vskip 2em
16451 {\Large \@dedication \par}
16452 \fi
16453 \end{center}%
16454 \par
16455 \vskip 2em
16456 }%
16457 \def\raggedsection{\ifRTL\raggedleft\else\raggedright\fi}
16458 \renewcommand*\autodot{\ifaltsecnumformat\@SepMark\fi}
16459 \renewcommand*\thesection{%
16460 \ifnum \scr@compatibility>\@nameuse{scr@v02.97d}\relax
16461 \if@mainmatter\thechapter\@SepMark\fi
16462 \else
16463 \thechapter\@SepMark%
16464 \fi
16465 \@arabic\c@section
16466 }
16467 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
16468 \renewcommand*\thesubsubsection{%
16469 \thesubsection\@SepMark\@arabic\c@subsubsection
16470 }
16471 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
16472 \renewcommand*\thesubparagraph{%
16473 \theparagraph\@SepMark\@arabic\c@subparagraph
16474 }
16475 \renewcommand*\thefigure{%
16476 \ifnum \scr@compatibility>\@nameuse{scr@v02.97d}\relax
16477 \if@mainmatter\thechapter\@SepMark\fi
16478 \else
16479 \thechapter\@SepMark%
16480 \fi
16481 \@arabic\c@figure
16482 }
16483 \renewcommand*\thetable{%
16484 \ifnum \scr@compatibility>\@nameuse{scr@v02.97d}\relax
16485 \if@mainmatter\thechapter\@SepMark\fi
16486 \else
16487 \thechapter\@SepMark%
16488 \fi
16489 \@arabic\c@table
16490 }
16491 \renewcommand*\theequation{%
16492 \ifnum \scr@compatibility>\@nameuse{scr@v02.97d}\relax
16493 \if@mainmatter\thechapter\@SepMark\fi
16494 \else
16495 \thechapter\@SepMark%
16496 \fi

```



```

16497 \@arabic\c@equation
16498 }
16499 \renewenvironment{thebibliography}[1]{%
16500 \if@bib@break@
16501 \bib@beginhook
16502 \else
16503 \ifx\bibpreamble\relax\else\ifx\bibpreamble\empty\else
16504 \setchapterpreamble{\bibpreamble}%
16505 \fi\fi
16506 \bib@heading
16507 \bib@beginhook
16508 \bib@before@hook
16509 \fi
16510 \renewcommand{\BreakBibliography}[1]{%
16511 \@bib@break
16512 \end{thebibliography}%
16513 \begingroup ##1\endgroup
16514 \begin{thebibliography}{#1}
16515 }%
16516 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
16517 \list{%
16518 \@biblabel{\@arabic\c@enumiv}%
16519 }{%
16520 \settowidth\labelwidth{\@biblabel{#1}}%
16521 \leftmargin\labelwidth
16522 \advance\leftmargin\labelsep
16523 \@openbib@code
16524 \if@bib@break@
16525 \edef\@tempa{%
16526 \noexpand\usecounter{enumiv}%
16527 \noexpand\setcounter{enumiv}{\the\c@enumiv}%
16528 }\@tempa
16529 \no@bib@break
16530 \else
16531 \usecounter{enumiv}%
16532 \fi
16533 \let\p@enumiv\empty
16534 \renewcommand*\theenumiv{\@arabic\c@enumiv}%
16535 }%
16536 \sloppy\clubpenalty4000 \widowpenalty4000
16537 \sfcode`\.=\@m
16538 }{%
16539 \if@bib@break@
16540 \def\@noitemerr{%
16541 \@latex@warning{%
16542 \string\BreakBibliography\space at begin of `thebibliography'
16543 environment\MessageBreak
16544 or following \string\BreakBibliography}%
16545 }%
16546 \else

```



```

16547 \def\@noitemerr{%
16548 \latexwarning{%
16549 Empty `thebibliography' environment or
16550 \string\BreakBibliography\MessageBreak
16551 before end of `thebibliography' environment}}%
16552 }%
16553 \fi
16554 \endlist
16555 \if@bib@break@
16556 \else
16557 \bib@after@hook
16558 \let\bib@before@hook\@empty
16559 \let\bib@after@hook\@empty
16560 \fi
16561 \bib@endhook
16562 }
16563 \renewcommand*\left@footnoterule{%
16564 \kern-3\p@
16565 \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
16566 \hrule\@width.4\columnwidth
16567 \kern 2.6\p@}
16568 \renewcommand*\right@footnoterule{%
16569 \kern-3\p@
16570 \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
16571 \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
16572 \kern2.6\p@}
16573 \renewcommand*{\raggeddictum}{\if@RTL\raggedright\else\raggedleft\fi}
16574 \renewcommand*{\raggeddictumtext}{\if@RTL\raggedleft\else\raggedright\fi}
16575 \renewcommand*{\raggeddictumauthor}{\if@RTL\raggedright\else\raggedleft\fi}
16576 \renewcommand\marginline[1]{%
16577 \marginpar[\if@RTL\raggedright\else\raggedleft\fi{#1}]{\if@RTL\raggedleft\else\raggedright\fi}
16578 }
16579 \renewcommand{\@makecaption}[3]{%
16580 \cap@margin
16581 \ifonelinecaptions
16582 \@tempcnta=\value{mpfootnote}\@tempcntb=\value{footnote}%
16583 \let\scr@tmp@footnotetext=\@footnotetext
16584 \let\@footnotetext=\@gobble
16585 \let\scr@tmp@LTRfootnotetext=\@LTRfootnotetext
16586 \let\@LTRfootnotetext=\@gobble
16587 \let\scr@tmp@RTLfootnotetext=\@RTLfootnotetext
16588 \let\@RTLfootnotetext=\@gobble
16589 \sbox\@tempboxa{%
16590 {\capfont{\strut\ignorespaces
16591 #1{\caplabelfont{#2\captionformat}}}%
16592 #3\unskip\strut}}%
16593 }%
16594 \let\@footnotetext=\scr@tmp@footnotetext
16595 \let\scr@tmp@footnotetext=\undefined
16596 \let\@LTRfootnotetext=\scr@tmp@LTRfootnotetext

```



```

16597 \let\scr@tmp@LTRfootnotetext=\undefined
16598 \let\@RTLfootnotetext=\scr@tmp@RTLfootnotetext
16599 \let\scr@tmp@RTLfootnotetext=\undefined
16600 \setcounter{footnote}{\@tempcntb}%
16601 \setcounter{mpfootnote}{\@tempcnta}%
16602 \else
16603 \sbox\@tempboxa{\hspace*{2\cap@width}}%
16604 \fi
16605 \begingroup%
16606 \setlength{\@tempdima}{\cap@width}%
16607 \ifdim \wd\@tempboxa >\@tempdima
16608 \hb@xt@\hsize{%
16609 \setbox\@tempboxa\vbox{\hsize=\cap@width
16610 \ifdoofullc@p
16611 {\capfont{\@hangfrom{\scr@smashdp{\strut\ignorespaces
16612 #1{\caplabelfont{#2\captionformat}}}}}%
16613 {\#3\unskip\strut\par}}}%
16614 \else%
16615 \ifdim\cap@indent<\z@
16616 {\capfont{\strut\ignorespaces
16617 #1{\caplabelfont{#2\captionformat\par}}}%
16618 \noindent\hspace*{-\cap@indent}\#3\unskip\strut\par}}%
16619 \else%
16620 \if@capbreak
16621 {\capfont{\strut\ignorespaces
16622 #1{\caplabelfont{#2\captionformat\par}}}%
16623 \noindent\@hangfrom{\hspace*{\cap@indent}}{\#3\par}}}%
16624 \else
16625 {\capfont{\@hangfrom{\scr@smashdp\strut\hspace*{\cap@indent}}%
16626 {\hspace*{-\cap@indent}\scr@smashdp{\ignorespaces#1%
16627 {\caplabelfont{#2\captionformat}}}\#3\unskip\strut\par}}}%
16628 \fi
16629 \fi
16630 \fi
16631 }%
16632 \setlength{\@tempdima}{\ht\@tempboxa}%
16633 \addtolength{\@tempdima}{\dp\@tempboxa}%
16634 \addtolength{\@tempdima}{-\ht\strutbox}%
16635 \ht\@tempboxa\ht\strutbox
16636 \dp\@tempboxa\@tempdima
16637 \strut\cap@left
16638 \box\@tempboxa
16639 \cap@right\strut
16640 }%
16641 \else
16642 \global \@minipagefalse
16643 \sbox\@tempboxa{%
16644 {\capfont{\scr@smashdp{\strut\ignorespaces
16645 #1{\caplabelfont{#2\captionformat}}}}}%
16646 #3}%

```



```

16647     }%
16648     {\capfont{\hb@xt@\hsize{\strut\cap@left\if@RTL\beginR\fi\box\@tempboxa\if@RTL\endR\fi\c
16649     \fi
16650   \endgroup
16651 }
16652 \renewcommand{\@makecaption}[2]{%
16653   \if@captionabove
16654     \vskip\belowcaptionskip
16655   \else
16656     \vskip\abovecaptionskip
16657   \fi
16658   \@makecaption\@firstofone{#1}{#2}%
16659   \if@captionabove
16660     \vskip\abovecaptionskip
16661   \else
16662     \vskip\belowcaptionskip
16663   \fi
16664 }
16665 \bidi@AfterFile{longtable-xetex-bidi.def}{%
16666   \@ifpackageloaded{caption2}{\@komalongtablefalse
16667     \scr@caption@before@longtable@warning{caption2}%
16668   }{}%
16669   \if@komalongtable
16670     \renewcommand{\LT@makecaption}[3]{%
16671       \noalign{%
16672         \if@captionabove
16673           \vskip\belowcaptionskip
16674         \else
16675           \vskip\abovecaptionskip
16676         \fi
16677       }%
16678       \LT@mcol\LT@cols c{%
16679         \hbox to\z@{\hss\parbox[t]{linewidth{%
16680           \@makecaption{#1}{#2}{#3}%
16681         \endgraf
16682         \if@captionabove
16683           \vskip\abovecaptionskip
16684         \else
16685           \vskip\belowcaptionskip
16686         \fi
16687       }%
16688       \hss
16689     }%
16690   }%
16691 }%
16692 \renewcommand*{\scr@LT@array}{}%
16693 \let\scr@LT@array=\LT@array
16694 \renewcommand*{\LT@array}{%
16695   \let\scr@caption=\LT@caption
16696   \def\captionabove{\noalign{\global\@captionabovetrue}%

```



```

16697         \scr@caption}%
16698     \def\captionbelow{\noalign{\global\@captionabovetofalse}%
16699         \scr@caption}%
16700     \if@tablecaptionabove
16701         \let\LT@caption=\captionabove
16702     \else
16703         \let\LT@caption=\captionbelow
16704     \fi
16705     \scr@LT@array
16706 }%
16707 \ClassInfo{\KOMAClassName}{%
16708     longtable captions redefined%
16709 }%
16710 \fi
16711 }
16712
16713 \CloneTOCEntryStyle{tocline}{part}
16714 \TOCEntryStyleStartInitCode{part}{%
16715     \expandafter\renewcommand%
16716     \csname scr@tso@#1@linefill\endcsname{\hfill}%
16717     \expandafter\renewcommand%
16718     \csname scr@tso@#1@entryformat\endcsname[1]{\usekomafont{partentry}{##1}}%
16719     \expandafter\renewcommand%
16720     \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
16721         \usekomafont{partentry}{\usekomafont{partentrypagenumber}{##1}}}%
16722     \expandafter\renewcommand\expandafter*%
16723     \csname scr@tso@#1@beforeskip\endcsname{2.25em \@plus\p}%
16724 }
16725
16726 \CloneTOCEntryStyle{tocline}{chapter}
16727 \TOCEntryStyleStartInitCode{chapter}{%
16728     \expandafter\renewcommand%
16729     \csname scr@tso@#1@linefill\endcsname{%
16730         \if@chapterentrywithdots
16731             \TOCLineLeaderFill\relax
16732         \else
16733             \hfill
16734         \fi
16735     }%
16736     \expandafter\renewcommand%
16737     \csname scr@tso@#1@entryformat\endcsname{\usekomafont{chapterentry}}%
16738     \expandafter\renewcommand%
16739     \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
16740         \usekomafont{chapterentry}{\usekomafont{chapterentrypagenumber}{##1}}}%
16741     \expandafter\renewcommand\expandafter*%
16742     \csname scr@tso@#1@beforeskip\endcsname{1.0em \@plus\p}%
16743 }
16744
16745 \CloneTOCEntryStyle{tocline}{section}
16746 \TOCEntryStyleStartInitCode{section}{%

```





```

16747 \expandafter\renewcommand%
16748 \csname scr@tso@#1@linefill\endcsname{\TOCLineLeaderFill\relax}%
16749 }
16750
16751 \CloneTOCEntryStyle{section}{default}
16752
16753 \DeclareSectionCommand[%
16754   style=part,%
16755   level=\m@ne,%
16756   pagestyle=plain,%
16757   tocstyle=part,%
16758   toplevel=\m@ne,%
16759   tocindent=\z@,%
16760   tocnumwidth=2em%
16761 ]{part}
16762 \DeclareSectionCommand[%
16763   style=chapter,%
16764   level=\z@,%
16765   pagestyle=plain,%
16766   tocstyle=chapter,%
16767   tocindent=\z@,%
16768   tocnumwidth=1.5em%
16769 ]{chapter}
16770 \DeclareSectionCommand[%
16771   style=section,%
16772   level=1,%
16773   indent=\z@,%
16774   beforekip=-3.5ex \@plus -1ex \@minus -.2ex,%
16775   afterskip=2.3ex \@plus .2ex,%
16776   tocstyle=section,%
16777   tocindent=1.5em,%
16778   tocnumwidth=2.3em%
16779 ]{section}
16780 \DeclareSectionCommand[%
16781   style=section,%
16782   level=2,%
16783   indent=\z@,%
16784   beforekip=-3.25ex \@plus -1ex \@minus -.2ex,%
16785   afterskip=1.5ex \@plus .2ex,%
16786   tocstyle=section,%
16787   tocindent=3.8em,%
16788   tocnumwidth=3.2em%
16789 ]{subsection}
16790 \DeclareSectionCommand[%
16791   style=section,%
16792   level=3,%
16793   indent=\z@,%
16794   beforekip=-3.25ex \@plus -1ex \@minus -.2ex,%
16795   afterskip=1.5ex \@plus .2ex,%
16796   tocstyle=section,%

```



```

16797   tocindent=7.0em,%
16798   tocnumwidth=4.1em%
16799 ]{subsubsection}
16800 \DeclareSectionCommand[%
16801   style=section,%
16802   level=4,%
16803   indent=\z@,%
16804   beforeskip=3.25ex \@plus1ex \@minus.2ex,%
16805   afterskip=-1em,%
16806   tocstyle=section,%
16807   tocindent=10em,%
16808   tocnumwidth=5em%
16809 ]{paragraph}
16810 \DeclareSectionCommand[%
16811   style=section,%
16812   level=5,%
16813   indent=\scr@parindent,%
16814   beforeskip=3.25ex \@plus1ex \@minus.2ex,%
16815   afterskip=-1em,%
16816   tocstyle=section,%
16817   tocindent=12em,%
16818   tocnumwidth=6em%
16819 ]{subparagraph}
16820
16821

```

## 7.102 scrlettr-xetex-bidi.def

```

16822 \ProvidesFile{scrlettr-xetex-bidi.def}[2015/11/14 v0.3 bidi adaptations for scrlettr class fo
16823 \renewcommand\deffootnote[4][]{%
16824   \long\def\@makefnmark##1{%
16825     \edef\@tempa{##1}\ifx\@tempa\@empty
16826       \setpar{\@par
16827         \@tempdima = \hsize
16828         \addtolength{\@tempdima}{-#2}
16829         \ifRTL\parshape \@ne Opt \@tempdima\else\parshape \@ne #2 \@tempdima\fi}%
16830     \else
16831       \setpar{\@par
16832         \@tempdima = \hsize
16833         \addtolength{\@tempdima}{-#1}
16834         \@tempdimb = \hsize
16835         \addtolength{\@tempdimb}{-#2}
16836         \ifRTL\parshape \tw@ Opt \@tempdima Opt \@tempdimb\else\parshape \tw@ #1 \@tempdima
16837         \fi
16838         \par
16839         \parindent #3\noindent
16840         \hbox to \z@{\hss\@makefnmark}##1}
16841     \def\@makefnmark{\hbox{##4}}
16842   }
16843 \deffootnote[1em]{1.5em}{1em}

```



```

16844 {\textsuperscript{\thefootnotemark}}
16845 \def\left@footnoterule{\kern-1\p@
16846 \hrule width 0.4\columnwidth
16847 \kern .6\p@}
16848 \def\right@footnoterule{%
16849 \kern-1\p@
16850 \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
16851 \kern .6\p@}
16852 \def\@datefield{\@reffalse
16853 \ifx\varyourref\@empty \else \@reftrue \fi
16854 \ifx\varyourmail\@empty \else \@reftrue \fi
16855 \ifx\varmyref\@empty \else \@reftrue \fi
16856 \ifx\varcustomer\@empty \else \@reftrue \fi
16857 \ifx\varinvoice\@empty \else \@reftrue \fi
16858 \ifx\varrefitemi\@empty \else \@reftrue \fi
16859 \ifx\varrefitemii\@empty \else \@reftrue \fi
16860 \ifx\varrefitemiii\@empty \else \@reftrue \fi
16861 \vskip -\parskip
16862 \vskip \refvskip
16863 \if@ref
16864 \ifx\varyourref\@empty \else
16865 \settowidth{\sc@temp}{\varyourref}
16866 \setbox0\hbox{\scriptsize \sf \yourrefname}
16867 \ifdim \sc@temp > \wd0 \sc@temp\sc@temp \else \sc@temp\wd0 \fi
16868 \parbox[t]{\sc@temp}{\noindent \box0\par \varyourref}\hfill
16869 \fi
16870 \ifx\varyourmail\@empty \else
16871 \settowidth{\sc@temp}{\varyourmail}
16872 \setbox0\hbox{\scriptsize \sf \yourmailname}
16873 \ifdim \sc@temp > \wd0 \sc@temp\sc@temp \else \sc@temp\wd0 \fi
16874 \parbox[t]{\sc@temp}{\noindent \box0\par \varyourmail}\hfill
16875 \fi
16876 \ifx\varmyref\@empty \else
16877 \settowidth{\sc@temp}{\varmyref}
16878 \setbox0\hbox{\scriptsize \sf \myrefname}
16879 \ifdim \sc@temp > \wd0 \sc@temp\sc@temp \else \sc@temp\wd0 \fi
16880 \parbox[t]{\sc@temp}{\noindent \box0\par \varmyref}\hfill
16881 \fi
16882 \ifx\varcustomer\@empty \else
16883 \settowidth{\sc@temp}{\varcustomer}
16884 \setbox0\hbox{\scriptsize \sf \customername}
16885 \ifdim \sc@temp > \wd0 \sc@temp\sc@temp \else \sc@temp\wd0 \fi
16886 \parbox[t]{\sc@temp}{\noindent \box0\par \varcustomer}\hfill
16887 \fi
16888 \ifx\varinvoice\@empty \else
16889 \settowidth{\sc@temp}{\varinvoice}
16890 \setbox0\hbox{\scriptsize \sf \invoicename}
16891 \ifdim \sc@temp > \wd0 \sc@temp\sc@temp \else \sc@temp\wd0 \fi
16892 \parbox[t]{\sc@temp}{\noindent \box0\par \varinvoice}\hfill
16893 \fi

```



```

16894 \ifx\varrefitemi\@empty \else
16895 \settowidth{\sc@temp}{\varrefitemi}
16896 \setbox0\hbox{\scriptsize \sf \varrefitemnamei}
16897 \ifdim \sc@temp > \wd0 \sc@temp\sc@temp \else \sc@temp\wd0 \fi
16898 \parbox[t]{\sc@temp}{\noindent \box0\par \varrefitemi}\hfill
16899 \fi
16900 \ifx\varrefitemii\@empty \else
16901 \settowidth{\sc@temp}{\varrefitemii}
16902 \setbox0\hbox{\scriptsize \sf \varrefitemnameii}
16903 \ifdim \sc@temp > \wd0 \sc@temp\sc@temp \else \sc@temp\wd0 \fi
16904 \parbox[t]{\sc@temp}{\noindent \box0\par \varrefitemii}\hfill
16905 \fi
16906 \ifx\varrefitemiii\@empty \else
16907 \settowidth{\sc@temp}{\varrefitemiii}
16908 \setbox0\hbox{\scriptsize \sf \varrefitemnameiii}
16909 \ifdim \sc@temp > \wd0 \sc@temp\sc@temp \else \sc@temp\wd0 \fi
16910 \parbox[t]{\sc@temp}{\noindent \box0\par \varrefitemiii}\hfill
16911 \fi
16912 \ifx\@date\@empty \else
16913 \settowidth{\sc@temp}{\@date}
16914 \setbox0\hbox{\scriptsize \sf \datename}
16915 \ifdim \sc@temp > \wd0 \sc@temp\sc@temp \else \sc@temp\wd0 \fi
16916 \parbox[t]{\sc@temp}{\noindent \box0\par \@date}
16917 \fi
16918 \par
16919 \vspace{2.5\baselineskip}
16920 \else
16921 {\ifx\@date\@empty \else \if@RTL\raggedright\else\raggedleft\fi\fromplace\ \@date\par \fi}
16922 \vspace{1.5\baselineskip}
16923 \fi}
16924 \long\def\closing#1{\par\nobreak\vspace{0.5\baselineskip}
16925 \stopbreaks \noindent \sc@temp\textwidth \advance\sc@temp by
16926 -\sigindent \hspace{\sigindent}%
16927 \parbox{\sc@temp}{\if@RTL\raggedleft\else\raggedright\fi\ignorespaces #1\mbox{}}\[\presig@sk
16928 \fromsig\strut}\par
16929 \vspace{1.5\baselineskip}}

```

## 7.103 scrreprt-xetex-bidi.def

```

16930 \ProvidesFile{scrreprt-xetex-bidi.def}[2016/09/14 v1.0 bidi adaptations for scrreprt class fo
16931 \newcommand{\scr@saved@LTRfootnotetext}{}
16932 \newcommand{\scr@saved@RTLfootnotetext}{}
16933 \let\scr@saved@footnotetext\@footnotetext
16934 \let\scr@saved@LTRfootnotetext\@LTRfootnotetext
16935 \let\scr@saved@RTLfootnotetext\@RTLfootnotetext
16936 \renewcommand{\@footnotetext}[1]{%
16937 \scr@saved@footnotetext{#1}%
16938 \csname FN@mfb@prepare\endcsname
16939 }
16940 \renewcommand{\@LTRfootnotetext}[1]{%

```



```

16941 \scr@saved@LTRfootnotetext{#1}%
16942 \csname FN@mfb@prepare\endcsname
16943 }
16944 \renewcommand{\@RTLfootnotetext}[1]{%
16945 \scr@saved@RTLfootnotetext{#1}%
16946 \csname FN@mfb@prepare\endcsname
16947 }
16948 \renewcommand\deffootnote[4][1]{%
16949 \long\def\@makefnmark##1{%
16950 \setlength{\@tempdimc}{#3}%
16951 \def\@tempa{#1}\ifx\@tempa\@empty
16952 \setpar{\@par
16953 \@tempdima = \hsize
16954 \addtolength{\@tempdima}{-#2}%
16955 \if@RTL\parshape \@ne Opt \@tempdima\else\parshape \@ne #2 \@tempdima\fi}%
16956 \else
16957 \addtolength{\@tempdimc}{#2}%
16958 \addtolength{\@tempdimc}{-#1}%
16959 \setpar{\@par
16960 \@tempdima = \hsize
16961 \addtolength{\@tempdima}{-#1}%
16962 \@tempdimb = \hsize
16963 \addtolength{\@tempdimb}{-#2}%
16964 \if@RTL\parshape \tw@ Opt \@tempdima Opt \@tempdimb\else\parshape \tw@ #1 \@tempdima
16965 }%
16966 \fi
16967 \par
16968 \parindent\@tempdimc\noindent
16969 \ftn@font\hbox to \z@{\hss\@makefnmark}##1%
16970 }%
16971 \def\@makefnmark{\hbox{\ftnm@font{#4}}}%
16972 }
16973 \deffootnote[1em]{1.5em}{1em}{\textsuperscript{\thefootnotemark}}
16974 \renewcommand*\left@footnoterule{%
16975 \normalsize\ftn@rule@test@values
16976 \kern-\dimexpr 2.6\p+ \ftn@rule@height\relax
16977 \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
16978 {\usekomafont{footnoterule}{%
16979 \hrule \@height\ftn@rule@height \@width\ftn@rule@width}}%
16980 \kern 2.6\p@}
16981 \renewcommand*\right@footnoterule{%
16982 \normalsize\ftn@rule@test@values
16983 \kern-\dimexpr 2.6\p+ \ftn@rule@height\relax
16984 \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
16985 {\usekomafont{footnoterule}{%
16986 \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\ftn@rule@width\relax \leavevmode\le
16987 \kern 2.6\p@}
16988 \renewcommand*\maketitle[1][1]{%
16989 \if@titlepage
16990 \begin{titlepage}

```



```

16991 \setcounter{page}{%
16992 #1%
16993 }%
16994 \let\footnotesize\small
16995 \let\right@footnoterule\relax
16996 \let\left@footnoterule\relax
16997 \let\textwidth@footnoterule\relax
16998 \let\footnote\thanks
16999 \let\LTRfootnote\LTRthanks
17000 \let\RTLfootnote\RTLthanks
17001 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
17002 \let\oldmakefnmark\makefnmark
17003 \renewcommand*\@makefnmark{\rlap\oldmakefnmark}%
17004 \ifx\extratitle\empty \else
17005 \noindent\extratitle\next@tpage\cleardoubleemptypage
17006 \thispagestyle{empty}%
17007 \fi
17008 \setparsizes{\z@}{\z@}{\z@\@plus 1fil}\par@updaterelative
17009 \ifx\@titlehead\empty \else
17010 \begin{minipage}[t]{\textwidth}%
17011 \@titlehead
17012 \end{minipage}\par
17013 \fi
17014 \null\vfill
17015 \begin{center}
17016 \ifx\@subject\empty \else
17017 {\subject@font \@subject \par}%
17018 \vskip 3em
17019 \fi
17020 {\titlefont\huge \@title\par}%
17021 \vskip 1em
17022 {\ifx\@subtitle\empty\else\usekomafont{subtitle}\@subtitle\par\fi}%
17023 \vskip 2em
17024 {\Large \lineskip 0.75em
17025 \begin{tabular}[t]{c}
17026 \@author
17027 \end{tabular}\par
17028 }%
17029 \vskip 1.5em
17030 {\Large \@date \par}%
17031 \vskip \z@ \@plus3fill
17032 {\Large \@publishers \par}%
17033 \vskip 3em
17034 \end{center}\par
17035 \@thanks
17036 \vfill\null
17037 \if@twoside\next@tpage
17038 \begin{minipage}[t]{\textwidth}
17039 \@uppertitleback
17040 \end{minipage}\par

```



```

17041         \vfill
17042         \begin{minipage}[b]{\textwidth}
17043             \@lowertitleback
17044         \end{minipage}
17045     \fi
17046     \ifx\@dedication\@empty \else
17047         \next@tpage\null\vfill
17048         {\centering \Large \@dedication \par}%
17049         \vskip \z@ \@plus3fill
17050         \if@twoside \next@tpage\cleardoubleemptypage \fi
17051     \fi
17052     \end{titlepage}
17053 \else
17054     \par
17055     \@tempcnta=%
17056     #1%
17057     \relax\ifnum\@tempcnta=1\else
17058         \ClassWarning{KOMAClassName}{%
17059             Optional argument of \string\maketitle\space ignored
17060             at\MessageBreak
17061             notitlepage-mode%
17062         }%
17063     \fi
17064     \begingroup
17065         \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
17066         \let\@oldmakefnmark\@makefnmark
17067         \renewcommand*\@makefnmark{\rlap\@oldmakefnmark}
17068         \if@twocolumn
17069             \ifnum \col@number=\@ne
17070                 \@maketitle
17071             \else
17072                 \twocolumn[\@maketitle]%
17073             \fi
17074         \else
17075             \newpage
17076             \global\@topnum\z@
17077             \@maketitle
17078         \fi
17079         \thispagestyle{\titlepagestyle}\@thanks
17080     \endgroup
17081 \fi
17082 \setcounter{footnote}{0}%
17083 \let\thanks\relax
17084 \let\LTRthanks\relax
17085 \let\RTLthanks\relax
17086 \let\maketitle\relax
17087 \let\@maketitle\relax
17088 \global\let\@thanks\@empty
17089 \global\let\@author\@empty
17090 \global\let\@date\@empty

```



```

17091 \global\let\@title\@empty
17092 \global\let\@subtitle\@empty
17093 \global\let\@extratitle\@empty
17094 \global\let\@titlehead\@empty
17095 \global\let\@subject\@empty
17096 \global\let\@publishers\@empty
17097 \global\let\@uppertitleback\@empty
17098 \global\let\@lowertitleback\@empty
17099 \global\let\@dedication\@empty
17100 \global\let\author\relax
17101 \global\let\title\relax
17102 \global\let\extratitle\relax
17103 \global\let\titlehead\relax
17104 \global\let\subject\relax
17105 \global\let\publishers\relax
17106 \global\let\uppertitleback\relax
17107 \global\let\lowertitleback\relax
17108 \global\let\dedication\relax
17109 \global\let\date\relax
17110 \global\let\and\relax
17111 }%
17112 \renewcommand*{\@maketitle}{%
17113 \clearpage
17114 \let\footnote\thanks
17115 \let\LTRfootnote\LTRthanks
17116 \let\RTLfootnote\RTLthanks
17117 \ifx\@extratitle\@empty \else
17118 \noindent\@extratitle \next@tpage \if@twoside \null\next@tpage \fi
17119 \fi
17120 \setparsizes{\z@}{\z@}{\z@\@plus 1fil}\par@updaterelative
17121 \ifx\@titlehead\@empty \else
17122 \begin{minipage}[t]{\textwidth}
17123 \@titlehead
17124 \end{minipage}\par
17125 \fi
17126 \null
17127 \vskip 2em%
17128 \begin{center}%
17129 \ifx\@subject\@empty \else
17130 {\subject@font \@subject \par}
17131 \vskip 1.5em
17132 \fi
17133 {\titlefont\huge \@title \par}%
17134 \vskip .5em
17135 {\ifx\@subtitle\@empty\else\usekomafont{subtitle}\@subtitle\par\fi}%
17136 \vskip 1em
17137 {\Large
17138 \lineskip .5em%
17139 \begin{tabular}[t]{c}
17140 \@author

```





```

17141     \end{tabular}\par
17142   }%
17143   \vskip 1em%
17144   {\Large \@date \par}%
17145   \vskip \z@ \@plus 1em
17146   {\Large \@publishers \par}
17147   \ifx\@dedication\@empty \else
17148     \vskip 2em
17149     {\Large \@dedication \par}
17150   \fi
17151 \end{center}%
17152 \par
17153 \vskip 2em
17154 }%
17155 \def\raggedsection{\ifRTL\raggedleft\else\raggedright\fi}
17156 \renewcommand*\autodot{\if@altsecnumformat\@SepMark\fi}
17157 \renewcommand*\thesection{%
17158   \thechapter\@SepMark%
17159   \@arabic\c@section
17160 }
17161 \renewcommand*{\thesubsection}{\thesection\@SepMark\@arabic\c@subsection}
17162 \renewcommand*{\thesubsubsection}{%
17163   \thesubsection\@SepMark\@arabic\c@subsubsection
17164 }
17165 \renewcommand*{\theparagraph}{\thesubsubsection\@SepMark\@arabic\c@paragraph}
17166 \renewcommand*{\thesubparagraph}{%
17167   \theparagraph\@SepMark\@arabic\c@subparagraph
17168 }
17169 \renewcommand*\thefigure{%
17170   \thechapter\@SepMark%
17171   \@arabic\c@figure
17172 }
17173 \renewcommand*\thetable{%
17174   \thechapter\@SepMark%
17175   \@arabic\c@table
17176 }
17177 \renewcommand*\theequation{%
17178   \thechapter\@SepMark%
17179   \@arabic\c@equation
17180 }
17181 \renewenvironment{thebibliography}[1]{%
17182   \if@bib@break@
17183     \bib@beginhook
17184   \else
17185     \ifx\bibpreamble\relax\else\ifx\bibpreamble\@empty\else
17186       \setchapterpreamble{\bibpreamble}%
17187     \fi\fi
17188     \bib@heading
17189     \bib@beginhook
17190     \bib@before@hook

```



```

17191 \fi
17192 \renewcommand{\BreakBibliography}[1]{%
17193   \@bib@break
17194   \end{thebibliography}%
17195   \begingroup ##1\endgroup
17196   \begin{thebibliography}{#1}
17197 }%
17198 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
17199 \list{%
17200   \@biblabel{\@arabic\c@enumiv}%
17201 }{%
17202   \settowidth\labelwidth{\@biblabel{#1}}%
17203   \leftmargin\labelwidth
17204   \advance\leftmargin\labelsep
17205   \@openbib@code
17206   \if@bib@break@
17207     \edef\@tempa{%
17208       \noexpand\usecounter{enumiv}%
17209       \noexpand\setcounter{enumiv}{\the\c@enumiv}%
17210     }\@tempa
17211     \no@bib@break
17212   \else
17213     \usecounter{enumiv}%
17214   \fi
17215   \let\p@enumiv\@empty
17216   \renewcommand*\theenumiv{\@arabic\c@enumiv}%
17217 }%
17218 \sloppy\clubpenalty4000 \widowpenalty4000
17219 \sfcode`\.\@m
17220 }{%
17221 \if@bib@break@
17222   \def\@noitemerr{%
17223     \@latex@warning{%
17224       \string\BreakBibliography\space at begin of `thebibliography'
17225       environment\MessageBreak
17226       or following \string\BreakBibliography}%
17227   }%
17228 \else
17229   \def\@noitemerr{%
17230     \@latex@warning{%
17231       Empty `thebibliography' environment or
17232       \string\BreakBibliography\MessageBreak
17233       before end of `thebibliography' environment}%
17234   }%
17235 \fi
17236 \endlist
17237 \if@bib@break@
17238 \else
17239   \bib@after@hook
17240   \let\bib@before@hook\@empty

```



```

17241 \let\bib@after@hook\@empty
17242 \fi
17243 \bib@endhook
17244 }
17245 \renewcommand*\left@footnoterule{%
17246 \kern-3\p@
17247 \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
17248 \hrule\@width.4\columnwidth
17249 \kern 2.6\p@}
17250 \renewcommand*\right@footnoterule{%
17251 \kern-3\p@
17252 \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
17253 \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
17254 \kern2.6\p@}
17255 \renewcommand*{\raggeddictum}{\if@RTL\raggedright\else\raggedleft\fi}
17256 \renewcommand*{\raggeddictumtext}{\if@RTL\raggedleft\else\raggedright\fi}
17257 \renewcommand*{\raggeddictumauthor}{\if@RTL\raggedright\else\raggedleft\fi}
17258 \renewcommand\marginline[1]{%
17259 \marginpar[\if@RTL\raggedright\else\raggedleft\fi{#1}]{\if@RTL\raggedleft\else\raggedright\fi}
17260 }
17261 \renewcommand{\@@makecaption}[3]{%
17262 \cap@margin
17263 \ifonelinecaptions
17264 \@tempcnta=\value{mpfootnote}\@tempcntb=\value{footnote}%
17265 \let\scr@tmp@footnotetext=\@footnotetext
17266 \let\@footnotetext=\@gobble
17267 \let\scr@tmp@LTRfootnotetext=\@LTRfootnotetext
17268 \let\@LTRfootnotetext=\@gobble
17269 \let\scr@tmp@RTLfootnotetext=\@RTLfootnotetext
17270 \let\@RTLfootnotetext=\@gobble
17271 \sbox\@tempboxa{%
17272 {\capfont{\strut\ignorespaces
17273 #1{\caplabelfont{#2\captionformat}}}%
17274 #3\unskip\strut}}%
17275 }%
17276 \let\@footnotetext=\scr@tmp@footnotetext
17277 \let\scr@tmp@footnotetext=\undefined
17278 \let\@LTRfootnotetext=\scr@tmp@LTRfootnotetext
17279 \let\scr@tmp@LTRfootnotetext=\undefined
17280 \let\@RTLfootnotetext=\scr@tmp@RTLfootnotetext
17281 \let\scr@tmp@RTLfootnotetext=\undefined
17282 \setcounter{footnote}{\@tempcntb}%
17283 \setcounter{mpfootnote}{\@tempcnta}%
17284 \else
17285 \sbox\@tempboxa{\hspace*{2\cap@width}}%
17286 \fi
17287 \begingroup%
17288 \setlength{\@tempdima}{\cap@width}%
17289 \ifdim \wd\@tempboxa >\@tempdima
17290 \hb@xt@\hsize{%

```



```

17291 \setbox\@tempboxa\vbox{\hsize=\cap@width
17292 \ifdofullc@p
17293 {\capfont{\@hangfrom{\scr@smashdp{\strut\ignorespaces
17294 #1{\caplabelfont{#2\captionformat}}}}}%
17295 {#3\unskip\strut\par}}}%
17296 \else%
17297 \ifdim\cap@indent<\z@
17298 {\capfont{\strut\ignorespaces
17299 #1{\caplabelfont{#2\captionformat\par}}}%
17300 \noindent\hspace*{-\cap@indent}#3\unskip\strut\par}}%
17301 \else%
17302 \if@capbreak
17303 {\capfont{\strut\ignorespaces
17304 #1{\caplabelfont{#2\captionformat\par}}}%
17305 \noindent\@hangfrom{\hspace*{\cap@indent}}{#3\par}}}%
17306 \else
17307 {\capfont{\@hangfrom{\scr@smashdp\strut\hspace*{\cap@indent}}%
17308 {\hspace{-\cap@indent}\scr@smashdp{\ignorespaces#1%
17309 {\caplabelfont{#2\captionformat}}}}#3\unskip\strut\par}}}%
17310 \fi
17311 \fi
17312 \fi
17313 }%
17314 \setlength{\@tempdima}{\ht\@tempboxa}%
17315 \addtolength{\@tempdima}{\dp\@tempboxa}%
17316 \addtolength{\@tempdima}{-\ht\strutbox}%
17317 \ht\@tempboxa\ht\strutbox
17318 \dp\@tempboxa\@tempdima
17319 \strut\cap@left
17320 \box\@tempboxa
17321 \cap@right\strut
17322 }%
17323 \else
17324 \global \@minipagefalse
17325 \sbox\@tempboxa{%
17326 {\capfont{\scr@smashdp{\strut\ignorespaces
17327 #1{\caplabelfont{#2\captionformat}}}}}%
17328 #3}%
17329 }%
17330 {\capfont{\hb@xt@\hsize{\strut\cap@left\if@RTL\beginR\fi\box\@tempboxa\if@RTL\endR\fi\c
17331 \fi
17332 \endgroup
17333 }
17334 \renewcommand{\@makecaption}[2]{%
17335 \if@captionabove
17336 \vskip\belowcaptionskip
17337 \else
17338 \vskip\abovecaptionskip
17339 \fi
17340 \@makecaption\@firstofone{#1}{#2}%

```



```

17341 \if@captionabove
17342 \vskip\abovecaptionskip
17343 \else
17344 \vskip\belowcaptionskip
17345 \fi
17346 }
17347 \bidi@AfterFile{longtable-xetex-bidi.def}{%
17348 \@ifpackageloaded{caption2}{\@komalongtablefalse
17349 \scr@caption@before@longtable@warning{caption2}%
17350 }{}%
17351 \if@komalongtable
17352 \renewcommand{\LT@makecaption}[3]{%
17353 \noalign{%
17354 \if@captionabove
17355 \vskip\belowcaptionskip
17356 \else
17357 \vskip\abovecaptionskip
17358 \fi
17359 }%
17360 \LT@mcol\LT@cols c{%
17361 \hbox to\z@{\hss\parbox[t]{\linewidth{%
17362 \@@makecaption{#1}{#2}{#3}%
17363 \endgraf
17364 \if@captionabove
17365 \vskip\abovecaptionskip
17366 \else
17367 \vskip\belowcaptionskip
17368 \fi
17369 }%
17370 \hss
17371 }%
17372 }%
17373 }%
17374 \renewcommand*{\scr@LT@array}{}%
17375 \let\scr@LT@array=\LT@array
17376 \renewcommand*{\LT@array}{%
17377 \let\scr@caption=\LT@caption
17378 \def\captionabove{\noalign{\global\@captionabovetrue}%
17379 \scr@caption}%
17380 \def\captionbelow{\noalign{\global\@captionabovefalse}%
17381 \scr@caption}%
17382 \if@tablecaptionabove
17383 \let\LT@caption=\captionabove
17384 \else
17385 \let\LT@caption=\captionbelow
17386 \fi
17387 \scr@LT@array
17388 }%
17389 \ClassInfo{\KOMAClassName}{%
17390 longtable captions redefined%

```



```

17391 }%
17392 \fi
17393 }
17394
17395 \CloneTOCEntryStyle{tocline}{part}
17396 \TOCEntryStyleStartInitCode{part}{%
17397 \expandafter\renewcommand%
17398 \csname scr@tso@#1@linefill\endcsname{\hfill}%
17399 \expandafter\renewcommand%
17400 \csname scr@tso@#1@entryformat\endcsname[1]{\usekomafont{partentry}{##1}}%
17401 \expandafter\renewcommand%
17402 \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
17403 \usekomafont{partentry}{\usekomafont{partentrypagenumber}{##1}}}%
17404 \expandafter\renewcommand\expandafter*%
17405 \csname scr@tso@#1@beforeskip\endcsname{2.25em \@plus\p@}%
17406 }
17407
17408 \CloneTOCEntryStyle{tocline}{chapter}
17409 \TOCEntryStyleStartInitCode{chapter}{%
17410 \expandafter\renewcommand%
17411 \csname scr@tso@#1@linefill\endcsname{%
17412 \if@chapterentrywithdots
17413 \TOCLineLeaderFill\relax
17414 \else
17415 \hfill
17416 \fi
17417 }%
17418 \expandafter\renewcommand%
17419 \csname scr@tso@#1@entryformat\endcsname{\usekomafont{chapterentry}}%
17420 \expandafter\renewcommand%
17421 \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
17422 \usekomafont{chapterentry}{\usekomafont{chapterentrypagenumber}{##1}}}%
17423 \expandafter\renewcommand\expandafter*%
17424 \csname scr@tso@#1@beforeskip\endcsname{1.0em \@plus\p@}%
17425 }
17426
17427 \CloneTOCEntryStyle{tocline}{section}
17428 \TOCEntryStyleStartInitCode{section}{%
17429 \expandafter\renewcommand%
17430 \csname scr@tso@#1@linefill\endcsname{\TOCLineLeaderFill\relax}%
17431 }
17432
17433 \CloneTOCEntryStyle{section}{default}
17434
17435 \DeclareSectionCommand[%
17436 style=part,%
17437 level=\m@ne,%
17438 pagestyle=plain,%
17439 tocstyle=part,%
17440 toplevel=\m@ne,%

```



```

17441 tocindent=\z@,%
17442 tocnumwidth=2em%
17443 ]{part}
17444 \DeclareSectionCommand[%
17445 style=chapter,%
17446 level=\z@,%
17447 pagestyle=plain,%
17448 tocstyle=chapter,%
17449 tocindent=\z@,%
17450 tocnumwidth=1.5em%
17451 ]{chapter}
17452 \DeclareSectionCommand[%
17453 style=section,%
17454 level=1,%
17455 indent=\z@,%
17456 beforeskip=-3.5ex \@plus -1ex \@minus -.2ex,%
17457 afterskip=2.3ex \@plus .2ex,%
17458 tocstyle=section,%
17459 tocindent=1.5em,%
17460 tocnumwidth=2.3em%
17461 ]{section}
17462 \DeclareSectionCommand[%
17463 style=section,%
17464 level=2,%
17465 indent=\z@,%
17466 beforeskip=-3.25ex \@plus -1ex \@minus -.2ex,%
17467 afterskip=1.5ex \@plus .2ex,%
17468 tocstyle=section,%
17469 tocindent=3.8em,%
17470 tocnumwidth=3.2em%
17471 ]{subsection}
17472 \DeclareSectionCommand[%
17473 style=section,%
17474 level=3,%
17475 indent=\z@,%
17476 beforeskip=-3.25ex \@plus -1ex \@minus -.2ex,%
17477 afterskip=1.5ex \@plus .2ex,%
17478 tocstyle=section,%
17479 tocindent=7.0em,%
17480 tocnumwidth=4.1em%
17481 ]{subsubsection}
17482 \DeclareSectionCommand[%
17483 style=section,%
17484 level=4,%
17485 indent=\z@,%
17486 beforeskip=3.25ex \@plus 1ex \@minus .2ex,%
17487 afterskip=-1em,%
17488 tocstyle=section,%
17489 tocindent=10em,%
17490 tocnumwidth=5em%

```



```

17491 ]{paragraph}
17492 \DeclareSectionCommand[%
17493   style=section,%
17494   level=5,%
17495   indent=\scr@parindent,%
17496   beforekip=3.25ex \@plus1ex \@minus .2ex,%
17497   afterskip=-1em,%
17498   tocstyle=section,%
17499   tocindent=12em,%
17500   tocnumwidth=6em%
17501 ]{subparagraph}
17502
17503

```

## 7.104 sidecap-xetex-bidi.def

```

17504 \ProvidesFile{sidecap-xetex-bidi.def}[2010/08/01 v0.1 bidi adaptations for sidecap package for
17505 \renewcommand*{\SC@FLOAT}[2]{\if@RTL%
17506   \isSC@ODD{#1}\hspace{\sidecaptionsep}{#2}} {\if@RTL%
17507 \isSC@ODD{#2}\hspace{\sidecaptionsep}{#1}} {\if@RTL%
17508   \renewcommand*{\SC@justify@caption}{\if@RTL%
17509 \isSC@ODD{\RaggedLeft}{\RaggedRight}}{\if@RTL%
17510   \isSC@ODD{\RaggedRight}{\RaggedLeft}}{\fi}

```

## 7.105 soul-xetex-bidi.def

```

17511 \ProvidesFile{soul-xetex-bidi.def}[2015/10/16 v0.1 bidi adaptations for soul package for XeTeX
17512 \long\def\SOUL@start#1{%
17513   \let\bid@RTL@everypar\empty
17514   \let\<\SOUL@lowerthan
17515   \let\>\empty
17516   \def\soulomit{\noexpand\soulomit}%
17517   \gdef\SOUL@eventuallyexhyphen##1{%
17518     \let\SOUL@soeventuallyskip\relax
17519     \SOUL@spaceskip=\fontdimen\tw@font\@plus\fontdimen\thr@@font
17520       \@minus\fontdimen4font
17521     \SOUL@ignorespacesfalse
17522     \leavevmode
17523     \SOUL@preamble
17524     \SOUL@lasttoken={}%
17525     \SOUL@word={}%
17526     \SOUL@minus\z@
17527     \SOUL@comma\z@
17528     \SOUL@apo\z@
17529     \SOUL@grave\z@
17530     \SOUL@do{#1}%
17531     \SOUL@postamble
17532 }%
17533 \def\SOUL@ulunderline#1{%
17534   \setbox\z@\hbox{#1}%
17535   \dimen@=\wd\z@

```





```

17536 \dimen@i=\SOUL@uloverlap
17537 \advance\dimen@2\dimen@i
17538 \if@RTL
17539 \unhcopy\z@
17540 \llap{%
17541     \null
17542     \kern-\dimen@i
17543     \SOUL@ulcolor{\SOUL@ulleaders\hskip\dimen@}%
17544 }%
17545 \else
17546 \rlap{%
17547     \null
17548     \kern-\dimen@i
17549     \SOUL@ulcolor{\SOUL@ulleaders\hskip\dimen@}%
17550 }%
17551 \unhcopy\z@
17552 \fi
17553 }}
17554 \def\bidi@SOUL@ulleaders{%
17555     \leaders\hb@xt@0.1pt{\hss\SOUL@ulcolor{\vrule\@depth\SOUL@uldp\@height\SOUL@ulht}\hss}\re
17556 }
17557 \def\SOUL@uleveryspace#1{%
17558     \if@RTL
17559     #1%
17560     \bidi@SOUL@ulleaders
17561     \hskip\spaceskip
17562     \else
17563     \SOUL@ulcolor{%
17564         #1%
17565         \SOUL@ulleaders
17566         \hskip\spaceskip
17567     }%
17568     \fi
17569     \null
17570 }

```

## 7.106 stabular-xetex-bidi.def

```

17571 \ProvidesFile{stabular-xetex-bidi.def}[2015/11/07 v0.3 bidi adaptations for stabular package]
17572 \def\@stabular{%
17573     \leavevmode \bgroup \if@RTLtab\beginR \fi
17574     \let\@acol\@tabacol
17575     \let\@classz\@tabclassz
17576     \let\@classiv\@tabclassiv \let\\\@tabularcr\@stabarray}
17577 \def\endstabular{\crr\egroup\if@RTLtab\egroup\endR\egroup\fi
17578     \egroup \if@RTLtab\endR\fi\egroup}
17579 \expandafter \let \csname endstabular*\endcsname = \endstabular
17580 \def\@sarray[#1]#2{%
17581     \bgroup
17582     \setbox\@arstrutbox\hbox{%

```



```

17583 \vrule \@height\arraystretch\ht\strutbox
17584 \@depth\arraystretch \dp\strutbox
17585 \@width\z@}%
17586 \@mkpream{#2}%
17587 \edef\@preamble{%
17588 \ialign \noexpand\@halignto
17589 \bgroup \@arstrut \@preamble \tabskip\z@skip \cr}%
17590 \let\@startpbox\@startpbox \let\@endpbox\@endpbox
17591 \let\tabularnewline\\%
17592 \let\@sharp##%
17593 \set@typeset@protect
17594 \lineskip\z@skip\baselineskip\z@skip
17595 \if@RTLtab\hbox\bgroup\beginR\@hboxRconstructtrue\if #1t\top \else \vbox \fi\bgroup\fi
17596 \@preamble}

```

## 7.107 subfigure-xetex-bidi.def

```

17597 \ProvidesFile{subfigure-xetex-bidi.def}[2010/03/01 v0.1 bidi adaptations for subfigure package]
17598 \AtBeginDocument{%
17599 \let\p@subfigure=\thefigure
17600 \let\p@subtable=\thetable%
17601 }

```

## 7.108 tabs-xetex-bidi.def

```

17602 \ProvidesFile{tabs-xetex-bidi.def}[2015/11/07 v0.3 bidi adaptations for tabs package for XeTeX]
17603 \def\endtabular{\endarray $\if@RTLtab\endR\fi\egroup}
17604
17605 \expandafter\let\csname endtabular*\endcsname=\endtabular
17606
17607 \def\endarray{\ifvmode\csname crcr\endcsname % just do \crr if \ given
17608 \else \[\z@ \global\advance\@arstdepth-\@otarlinesep]%
17609 \fi\egroup\if@RTLtab\egroup\endR\egroup\fi\unrecurse\egroup}
17610
17611 \def\@array[#1]#2{% remember global variables to allow recursion:
17612 \edef\@unrecurse{\global\@skip@bove\the\@skip@bove
17613 \global\@arstheight\the\@arstheight\global\@arstdepth\the\@arstdepth}%
17614 \let\@otarlinesep\@tarlinesep \global\@skip@bove-\@otarlinesep
17615 \ifx\@classz\@arrayclassz \let\@tarlinesep\arraylinesep
17616 \else \let\@tarlinesep\tablinesep \fi
17617 \divide\@tarlinesep\tw@ % half sep is applied to height & depth
17618 \let\@seesize\relax \let\@rememsize\relax \@mkpream{#2}%
17619 \@tempdima\arraystretch\ht\strutbox \@tempdimb\arraystretch\dp\strutbox
17620 \ifdim\@tarlinesep>\z@ % (need \protect for \multicolumn)
17621 \def\@rememsize{\protect\@r@m@msize}\let\@seesize\@s@size
17622 \advance\@tempdima-\@tarlinesep \advance\@tempdimb-\@tarlinesep
17623 \fi \setbox\@arstrutbox\hbox{% set up smaller strut
17624 \vrule \@height\@tempdima \@depth\@tempdimb \@width\z@}%
17625 \let\protect\noexpand
17626 \edef\@preamble{\ialign \noexpand\@halignto \bgroup
17627 \unhcopy\@arstrutbox \@preamble \tabskip\z@skip &\@sharp \cr}%

```



```

17628 \let\@startpbox\@startpbox \let\@endpbox\@endpbox
17629 \if#1t\vtop \else \if#1b\vbox \else \vcenter \fi\fi
17630 \bgroup \let\par\@empty
17631 \global\@arstheight\ht\@arstrutbox \global\@arstdepth\dp\@arstrutbox
17632 \advance\extrarulesep.5\arrayrulewidth
17633 \let\@sharp#\let\protect\relax \lineskip\z@skip \baselineskip\z@skip
17634 \if@RTLtab\hbox\bgroup\beginR\@hboxRconstructtrue\if#1t\vtop \else \vbox \fi\bgroup\fi
17635 \@preamble}

```

## 7.109 tabularx-xetex-bidi.def

```

17636 \ProvidesFile{tabularx-xetex-bidi.def}[2014/11/08 v0.1 bidi adaptations for tabularx package]
17637 \def\TX@endtabularx{%
17638   \expandafter\expandafter\expandafter
17639     \TX@find@endtabularxa\csname end\TX@\endcsname
17640     \endtabularx\TX@\endtabularx\TX@find@endtabularxa
17641   \expandafter\TX@newcol\expandafter{\tabularxcolumn{\TX@col@width}}%
17642   \let\verb\TX@verb
17643   \def\@elt##1{\global\value{##1}\the\value{##1}\relax}%
17644   \edef\TX@ckpt{\cl@ckpt}%
17645   \let\@elt\relax
17646   \TX@old@table\maxdimen
17647   \TX@col@width\TX@target
17648   \global\TX@cols\@ne
17649   \TX@typeout@
17650     {\@spaces Table Width\@spaces Column Width\@spaces X Columns}%
17651   \TX@trial{\def\NC@rewriteX{%
17652     \global\advance\TX@cols\@ne\NC@find p{\TX@col@width}}}%
17653   \loop
17654     \TX@arith
17655     \ifTX@
17656       \TX@trial{}%
17657   \repeat
17658   {\let\@footnotetext\TX@fnttext\let\@xfootnotenext\TX@xftntext
17659     \let\@LTRfootnotetext\TX@LTRfnttext\let\@xLTRfootnotenext\TX@xLTRfnttext
17660     \let\@RTLfootnotetext\TX@RTLfnttext\let\@xRTLfootnotenext\TX@xRTLfnttext
17661     \csname tabular*\expandafter\endcsname\expandafter\TX@target
17662       \the\toks@
17663     \csname endtabular*\endcsname}%
17664   \global\TX@ftn\expandafter{\expandafter}\the\TX@ftn
17665   \ifnum0=`{\fi}%
17666   \expandafter\expandafter\expandafter
17667     \TX@find@endtabularxbb
17668     \expandafter\end\expandafter{\TX@}%
17669   \endtabularx\TX@\endtabularx\TX@find@endtabularxb
17670 }
17671
17672 \def\TX@trial#1{%
17673   \setbox\@tempboxa\hbox{%
17674     #1\relax

```



```

17675 \let\@footnotetext\TX@trial@ftn
17676 \let\@LTRfootnotetext\TX@trial@ftn
17677 \let\@RTLfootnotetext\TX@trial@ftn
17678 \let\TX@vwarn\@empty
17679 \expandafter\let\expandafter\tabularx\csname tabular*\endcsname
17680 \expandafter\let\expandafter\endtabularx\csname endtabular*\endcsname
17681 \def\write{\begingroup
17682   \def\let{\afterassignment\endgroup\toks@}%
17683   \afterassignment\let\count@}%
17684   \hbadness\@M
17685   \hfuzz\maxdimen
17686   \let\hbadness\@tempcnta
17687   \let\hfuzz\@tempdima
17688   \expandafter\tabular\the\toks@
17689   \endtabular}%
17690 \TX@ckpt
17691 \TX@typeout@{\@spaces
17692   \expandafter\TX@align
17693   \the\wd\@tempboxa\space\space\space\space\space\@@
17694   \expandafter\TX@align
17695   \the\TX@col@width\space\space\space\space\space\@@
17696   \@spaces\the\TX@cols}}
17697
17698 \long\def\TX@LTRftntext#1{%
17699   \edef\@tempa{\the\TX@ftn\noexpand\LTRfootnotetext
17700     [\the\csname c@\@mpfn\endcsname]]}%
17701   \global\TX@ftn\expandafter{\@tempa{#1}}}%
17702 \long\def\TX@xLTRftntext[#1]#2{%
17703   \global\TX@ftn\expandafter{\the\TX@ftn\LTRfootnotetext[#1]{#2}}}
17704
17705 \long\def\TX@RTLftntext#1{%
17706   \edef\@tempa{\the\TX@ftn\noexpand\RTLfootnotetext
17707     [\the\csname c@\@mpfn\endcsname]]}%
17708   \global\TX@ftn\expandafter{\@tempa{#1}}}%
17709 \long\def\TX@xRTLftntext[#1]#2{%
17710   \global\TX@ftn\expandafter{\the\TX@ftn\RTLfootnotetext[#1]{#2}}}

```

## 7.110 tabulary-xetex-bidi.def

```

17711 \ProvidesFile{tabulary-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for tabulary package]
17712 \def\@testpach{\@chclass
17713   \ifnum \@lastchclass=6 \@ne \@chnum \@ne \else
17714     \ifnum \@lastchclass=7 5 \else
17715       \ifnum \@lastchclass=8 \tw@ \else
17716         \ifnum \@lastchclass=9 \thr@@
17717         \else \z@
17718         \ifnum \@lastchclass = 10 \else
17719           \edef\@nextchar{\expandafter\string\@nextchar}%
17720           \@chnum
17721           \if \@nextchar c\z@ \else

```



```

17722 \if \@nextchar \if@RTLtab r\else l\fi\@ne \else
17723 \if \@nextchar \if@RTLtab l\else r\fi\tw@ \else
17724 \if \@nextchar C7 \else
17725 \if \@nextchar L8 \else
17726 \if \@nextchar R9 \else
17727 \if \@nextchar J10 \else
17728 \z@ \@chclass
17729 \if \@nextchar |\@ne \else
17730 \if \@nextchar !6 \else
17731 \if \@nextchar @7 \else
17732 \if \@nextchar <8 \else
17733 \if \@nextchar >9 \else
17734 10
17735 \@chnum
17736 \if \@nextchar m\thr@@\else
17737 \if \@nextchar p4 \else
17738 \if \@nextchar b5 \else
17739 \z@ \@chclass \z@ \@preamerr \z@ \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi
17740 \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi

```

### 7.111 tc-xetex-bidi.def

```

17741 \ProvidesFile{tc-xetex-bidi.def}[2014/07/08 v0.1 bidi adaptations for Clipping driver for XeT
17742 \def\@cliptoboxdim#1{%
17743 \setbox#1=\hbox{%
17744 \Gin@defaultbp\WIDTH{\wd#1}%
17745 \Gin@defaultbp\DEPTH{\dp#1}%
17746 \@tempdima\ht#1%
17747 \advance\@tempdima\dp#1%
17748 \Gin@defaultbp\TOTALHEIGHT{\@tempdima}%
17749 \beginL\special{pdf:bcontent }%
17750 \special{%
17751 pdf:literal direct
17752 0 -\DEPTH\space \WIDTH\space \TOTALHEIGHT\space re
17753 }%
17754 \special{pdf:literal direct W }%
17755 \special{pdf:literal direct n }%
17756 \if@RTL\beginR\fi\box#1\if@RTL\endR\fi%
17757 \special{pdf:econtent }\endL%
17758 }%
17759 }

```

### 7.112 titlesec-xetex-bidi.def

```

17760 \ProvidesFile{titlesec-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for titlesec package
17761 \renewcommand\filright{%
17762 \gdef\ttl@filleft##1{\hskip##1}%
17763 \gdef\ttl@filright##1{\hfill}%
17764 \let\\\@centercr
17765 \advance\rightskip\z@ \@plus 1fil
17766 \parfillskip\z@}

```



```

17767 \def\ttlh@hang#1#2#3#4#5#6#7#8{%
17768   \gdef\ttl@makeline##1{\ttl@calc\hspace{#6}##1\ttl@calc\hspace{#7}}%
17769   \setlength\leftskip{#6}%
17770   \setlength\rightskip{#7}%
17771   \interlinepenalty\@M
17772   \ttl@changecentercr
17773   \ttl@beginlongest
17774   #1{\ifhmode\ttl@hmode@error\fi
17775     \ttl@glcmds
17776     \parindent\z@
17777     \leavevmode
17778     \begingroup
17779     \ifttl@label
17780       \sbox\z@{#2\strut\ttl@calc\hspace{#3}}%
17781       \ifRTL\advance\rightskip\wd\z@\else\advance\leftskip\wd\z@\fi
17782       \llap{\box\z@}%
17783     \fi
17784     #4{#8}%
17785     \kern\z@\strut\@par
17786   \endgroup
17787   \nobreak\ttl@midlongest#5\@par}%
17788 \ttl@endlongest}

```

### 7.113 titletoc-xetex-bidi.def

```

17789 \ProvidesFile{titletoc-xetex-bidi.def}[2013/04/10 v0.2 bidi adaptations for titletoc package]
17790 \renewcommand\filright{%
17791   \gdef\ttl@filleft##1{\hskip##1}%
17792   \gdef\ttl@filright##1{\hfill}%
17793   \let\\\@centercr
17794   \advance\rightskip\z@ \@plus 1fil
17795 \parfillskip\z@}
17796 \renewcommand\contentspush[1]{%
17797   \sbox\z@{#1}%
17798   \xdef\ttl@b{\advance\ifRTL\rightskip\else\leftskip\fi\the\wd\z@}%
17799   \aftergroup\ttl@b
17800   \leavevmode\llap{\box\z@}}
17801 \def\ttl@outnoblock#1#2#3{%
17802   \begingroup
17803   \ifnum\ttl@b>\ttl@a
17804     \nobreak
17805   \else\ifnum\ttl@b<\ttl@a
17806     \addpenalty{\@secpenalty}%
17807   \else
17808     \addpenalty{\z@}%
17809   \fi\fi
17810   \ttl@contentsstretch
17811   \nobreak
17812   \ifcase#1\relax\else\interlinepenalty\@M\fi
17813   \parindent\z@

```



```

17814 \ifx\@nil#2%
17815   \PackageError{titletoc}{Unimplemented}%
17816   {The optional argument is currently mandatory}%
17817 \else
17818   \if@RTL\setlength\rightskip{#2}\else
17819   \setlength\leftskip{#2}\fi%
17820 \fi
17821 \if@RTL\setlength\leftskip{\@pnumwidth}\else\setlength\rightskip{\@pnumwidth}\fi%
17822 \let\contentsmargin\ttl@margin
17823 \def\ttl@makeline##1{##1}%
17824 #3%
17825 \addtolength{\parfillskip}{-\ttl@corr}%
17826 \if@RTL\addtolength{\leftskip}{\ttl@corr}\else\addtolength{\rightskip}{\ttl@corr}\fi%
17827 \let\ttl@leaders\leaders}
17828 \renewcommand\ttl@margin[2][\z@]{%
17829 \def\ttl@corr{#1}%
17830 \advance\if@RTL\leftskip\else\rightskip\fi-\@pnumwidth\relax
17831 \advance\if@RTL\leftskip\else\rightskip\fi#2\relax
17832 \def\@pnumwidth{#2}}
17833 \let\ttl@savel@part\l@part
17834 \def\l@part{\ttl@lselect{part}}
17835
17836 \let\ttl@savel@chapter\l@chapter
17837 \def\l@chapter{\ttl@lselect{chapter}}

```

## 7.114 tocibind-xetex-bidi.def

```

17838 \ProvidesFile{tocibind-xetex-bidi.def}[2012/12/12 v0.3 bidi adaptations for tocibind package]
17839 \if@dotocbib
17840   \@ifpackageloaded{natbib}{\% natbib not loaded
17841     \renewcommand{\bibsection}{\tcb@bchapsec}
17842     \renewenvironment{thebibliography}[1]{%
17843       \bibsection
17844       \begin{thebibitemlist}{#1}}{\end{thebibitemlist}}}
17845 \renewenvironment{thebibitemlist}[1]{
17846   \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
17847   \list{\@biblabel{\@arabic{c@enumiv}}}%
17848     {\settowidth\labelwidth{\@biblabel{#1}}%
17849     \leftmargin\labelwidth
17850     \advance\leftmargin\labelsep
17851     \@openbib@code
17852     \usecounter{enumiv}%
17853     \let\p@enumiv\@empty
17854     \renewcommand\theenumiv{\@arabic{c@enumiv}}}%
17855   \sloppy
17856   \clubpenalty4000
17857   \@clubpenalty \clubpenalty
17858   \widowpenalty4000%
17859   \sfcode\.\@m}
17860 {\def\@noitemerr

```



```

17861     {\@latex@warning{Empty `thebibliography' environment}}%
17862     \endlist}
17863
17864     \@ifpackagewith{chapterbib}{sectionbib}%
17865     {\renewcommand{\sectionbib}[2]{}}%
17866     {}
17867
17868 \fi
17869 \if@inltxdoc\else
17870     \renewenvironment{theindex}%
17871     {\if@twocolumn
17872         \@restonecolfalse
17873     \else
17874         \@restonecoltrue
17875     \fi
17876     \if@bibchapter
17877         \if@donumindex
17878             \refstepcounter{chapter}
17879             \twocolumn[\vspace*{2\topskip}%
17880                 \@makechapterhead{\indexname}}%
17881             \addcontentsline{toc}{chapter}{\protect\numberline{\thechapter}\indexname}
17882             \chaptermark{\indexname}
17883         \else
17884             \if@dotocind
17885                 \twocolumn[\vspace*{2\topskip}%
17886                     \@makeschapterhead{\indexname}}%
17887                 \prw@mkboth{\indexname}
17888                 \addcontentsline{toc}{chapter}{\indexname}
17889             \else
17890                 \twocolumn[\vspace*{2\topskip}%
17891                     \@makeschapterhead{\indexname}}%
17892                 \prw@mkboth{\indexname}
17893             \fi
17894         \fi
17895     \else
17896         \if@donumindex
17897             \twocolumn[\vspace*{-1.5\topskip}%
17898                 \@nameuse{\@tocextra}{\indexname}}%
17899             \csname \@tocextra mark\endcsname{\indexname}
17900         \else
17901             \if@dotocind
17902                 \twocolumn[\vspace*{-1.5\topskip}%
17903                     \toc@headstar{\@tocextra}{\indexname}}%
17904                 \prw@mkboth{\indexname}
17905                 \addcontentsline{toc}{\@tocextra}{\indexname}
17906             \else
17907                 \twocolumn[\vspace*{-1.5\topskip}%
17908                     \toc@headstar{\@tocextra}{\indexname}}%
17909                 \prw@mkboth{\indexname}
17910             \fi

```





```

17911         \fi
17912     \fi
17913     \thispagestyle{plain}\parindent\z@
17914     \parskip\z@ \@plus .3\p@\relax
17915     \let\item\@idxitem}
17916     {\if@restonecol\onecolumn\else\clearpage\fi}
17917 \fi

```

## 7.115 tocloft-xetex-bidi.def

```

17918 \ProvidesFile{tocloft-xetex-bidi.def}[2010/07/25 v0.2 bidi adaptations for tocloft package fo
17919 \let\cftdot\@SepMark
17920 \if@cfthaspart
17921 \renewcommand*{\l@part}[2]{
17922     \@cftdopartfalse
17923     \ifnum \c@tocdepth >-2\relax
17924         \if@cfthaschapter
17925             \@cftdoparttrue
17926         \fi
17927         \ifnum \c@tocdepth >\m@ne
17928             \if@cfthaschapter\else
17929                 \@cftdoparttrue
17930             \fi
17931         \fi
17932     \fi
17933     \if@cftdopart
17934         \if@cfthaschapter
17935             \addpenalty{-\@highpenalty}
17936         \else
17937             \addpenalty\@secpenalty
17938         \fi
17939         \addvspace{\cftbeforepartskip}
17940         \begingroup
17941             {\if@RTL\rightskip\else\leftskip\fi \cftpartindent\relax
17942             \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
17943             \parfillskip -\if@RTL\leftskip\else\rightskip\fi
17944             \parindent \cftpartindent\relax\@afterindenttrue
17945             \interlinepenalty\@M
17946             \leavevmode
17947             \@tempdima \cftpartnumwidth\relax
17948             \let\@cftbsnum \cftpartpresnum
17949             \let\@cftasnum \cftpartaftersnum
17950             \let\@cftasnumb \cftpartaftersnumb
17951             \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\rig
17952             {\cftpartfont \cftpartpresnum #1}
17953             \cftpartfillnum{#2}}
17954         \nobreak
17955         \if@cfthaschapter
17956             \global\@nobreaktrue
17957             \everypar{\global\@nobreakfalse\everypar{}}

```



```

17958     \else
17959         \if@compatibility
17960             \global\@nbreaktrue
17961             \everypar{\global\@nbreakfalse\everypar{}}
17962         \fi
17963     \fi
17964 \endgroup
17965 \fi}
17966 \fi
17967 \if@cftaschapter
17968 \renewcommand*{\l@chapter}[2]{
17969     \ifnum \c@tocdepth >\m@ne
17970         \addpenalty{-\@highpenalty}
17971         \vskip \cftbeforechapskip
17972         {\if@RTL\righskip\else\leftskip\fi \cftchapindent\relax
17973         \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
17974         \parfillskip -\if@RTL\leftskip\else\rightskip\fi
17975         \parindent \cftchapindent\relax\@afterindenttrue
17976         \interlinepenalty\@M
17977         \leavevmode
17978         \@tempdima \cftchapnumwidth\relax
17979         \let\@cftbsnum \cftchappresnum
17980         \let\@cftasnum \cftchapaftersnum
17981         \let\@cftasnumb \cftchapaftersnumb
17982         \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
17983         {\cftchapfont #1}\nobreak
17984         \cftchapfillnum{#2}}
17985 \fi}
17986 \fi
17987 \renewcommand*{\l@section}[2]{%
17988     \ifnum \c@tocdepth >\z@
17989         \if@cftaschapter
17990             \vskip \cftbeforesecskip
17991         \else
17992             \addpenalty\@secpenalty
17993             \addvspace{\cftbeforesecskip}
17994         \fi
17995         {\if@RTL\righskip\else\leftskip\fi \cftsecindent\relax
17996         \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
17997         \parfillskip -\if@RTL\leftskip\else\rightskip\fi
17998         \parindent \cftsecindent\relax\@afterindenttrue
17999         \interlinepenalty\@M
18000         \leavevmode
18001         \@tempdima \cftsecnumwidth\relax
18002         \let\@cftbsnum \cftsecpresnum
18003         \let\@cftasnum \cftsecaftersnum
18004         \let\@cftasnumb \cftsecaftersnumb
18005         \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
18006         {\cftsecfont #1}\nobreak
18007         \cftsecfillnum{#2}}

```



```

18008 \fi}
18009 \renewcommand*{\l@section}[2]{%
18010 \ifnum \c@tocdepth >\@ne
18011 \vskip \cftbeforesubsecskip
18012 {\if@RTL\righskip\else\leftskip\fi \cftsubsecindent\relax
18013 \if@RTL\leftskip\else\righskip\fi \@tocrmarg
18014 \parfillskip -\if@RTL\leftskip\else\righskip\fi
18015 \parindent \cftsubsecindent\relax\@afterindenttrue
18016 \interlinepenalty\@M
18017 \leavevmode
18018 \@tempdima \cftsubsecnumwidth\relax
18019 \let\@cftbsnum \cftsubsecpresnum
18020 \let\@cftasnum \cftsubsecaftersnum
18021 \let\@cftasnumb \cftsubsecaftersnumb
18022 \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
18023 {\cftsubsecfont #1}\nobreak
18024 \cftsubsecfillnum{#2}}
18025 \fi}
18026 \renewcommand*{\l@subsubsection}[2]{%
18027 \ifnum \c@tocdepth >\tw@
18028 \vskip \cftbeforesubsubsecskip
18029 {\if@RTL\righskip\else\leftskip\fi \cftsubsubsecindent\relax
18030 \if@RTL\leftskip\else\righskip\fi \@tocrmarg
18031 \parfillskip -\if@RTL\leftskip\else\righskip\fi
18032 \parindent \cftsubsubsecindent\relax\@afterindenttrue
18033 \interlinepenalty\@M
18034 \leavevmode
18035 \@tempdima \cftsubsubsecnumwidth\relax
18036 \let\@cftbsnum \cftsubsubsecpresnum
18037 \let\@cftasnum \cftsubsubsecaftersnum
18038 \let\@cftasnumb \cftsubsubsecaftersnumb
18039 \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
18040 {\cftsubsubsecfont #1}\nobreak
18041 \cftsubsubsecfillnum{#2}}
18042 \fi}
18043 \renewcommand*{\l@paragraph}[2]{%
18044 \ifnum \c@tocdepth >3\relax
18045 \vskip \cftbeforeparaskip
18046 {\if@RTL\righskip\else\leftskip\fi \cftparaindent\relax
18047 \if@RTL\leftskip\else\righskip\fi \@tocrmarg
18048 \parfillskip -\if@RTL\leftskip\else\righskip\fi
18049 \parindent \cftparaindent\relax\@afterindenttrue
18050 \interlinepenalty\@M
18051 \leavevmode
18052 \@tempdima \cftparanumwidth\relax
18053 \let\@cftbsnum \cftparapresnum
18054 \let\@cftasnum \cftparaaftersnum
18055 \let\@cftasnumb \cftparaaftersnumb
18056 \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
18057 {\cftparafont #1}\nobreak

```



```

18058     \cftparafillnum{#2}}
18059   \fi}
18060 \renewcommand*{\l@subparagraph}[2]{%
18061   \ifnum \c@tocdepth >4\relax
18062     \vskip \cftbeforesubparaskip
18063     {\if@RTL\rightskip\else\leftskip\fi \cftsubparaindent\relax
18064     \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
18065     \parfillskip -\if@RTL\leftskip\else\rightskip\fi
18066     \parindent \cftsubparaindent\relax\@afterindenttrue
18067     \interlinepenalty\@M
18068     \leavevmode
18069     \@tempdima \cftsubparanumwidth\relax
18070     \let\@cftbsnum \cftsubparapresnum
18071     \let\@cftasnum \cftsubparaaftersnum
18072     \let\@cftasnumb \cftsubparaaftersnumb
18073     \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
18074     {\cftsubparafont #1}\nobreak
18075     \cftsubparafillnum{#2}}
18076   \fi}
18077 \renewcommand*{\l@figure}[2]{%
18078   \ifnum \c@lofdepth >\z@
18079     \vskip \cftbeforefigskip
18080     {\if@RTL\rightskip\else\leftskip\fi \cftfigindent\relax
18081     \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
18082     \parfillskip -\if@RTL\leftskip\else\rightskip\fi
18083     \parindent \cftfigindent\relax\@afterindenttrue
18084     \interlinepenalty\@M
18085     \leavevmode
18086     \@tempdima \cftfignumwidth\relax
18087     \let\@cftbsnum \cftfigpresnum
18088     \let\@cftasnum \cftfigaftersnum
18089     \let\@cftasnumb \cftfigaftersnumb
18090     \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
18091     {\cftfigfont #1}\nobreak
18092     \cftfigfillnum{#2}}
18093   \fi
18094 }
18095 \renewcommand*{\l@table}[2]{%
18096   \ifnum\c@lotdepth >\z@
18097     \vskip \cftbeforetabskip
18098     {\if@RTL\rightskip\else\leftskip\fi \cfttabindent\relax
18099     \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
18100     \parfillskip -\if@RTL\leftskip\else\rightskip\fi
18101     \parindent \cfttabindent\relax\@afterindenttrue
18102     \interlinepenalty\@M
18103     \leavevmode
18104     \@tempdima \cfttabnumwidth\relax
18105     \let\@cftbsnum \cfttabpresnum
18106     \let\@cftasnum \cfttabaftersnum
18107     \let\@cftasnumb \cfttabaftersnumb

```



```

18108     \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
18109     {\cfttabfont #1}\nobreak
18110     \cfttabfillnum{#2}}
18111   \fi
18112 }
18113 \renewcommand{\@cftl@subfig}{
18114 \renewcommand*{\l@subfigure}[2]{%
18115   \ifnum \c@lofdepth > \toclevel@subfigure
18116     \vskip \cftbeforesubfigskip
18117     {\if@RTL\rightskip\else\leftskip\fi \cftsubfigindent\relax
18118     \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
18119     \parfillskip -\if@RTL\leftskip\else\rightskip\fi
18120     \parindent \cftsubfigindent\relax\@afterindenttrue
18121     \interlinepenalty\@M
18122     \leavevmode
18123     \@tempdima \cftsubfignumwidth\relax
18124     \let\@cftbsnum \cftsubfigpresnum
18125     \let\@cftasnum \cftsubfigaftersnum
18126     \let\@cftasnumb \cftsubfigaftersnumb
18127     \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
18128     {\cftsubfigfont ##1}\nobreak
18129     \cftsubfigfillnum{##2}}
18130   \fi
18131 }
18132 }
18133 \renewcommand{\@cftl@subtab}{
18134 \renewcommand*{\l@subtable}[2]{%
18135   \ifnum \c@lotdepth > \toclevel@subtable
18136     \vskip \cftbeforesubtabskip
18137     {\if@RTL\rightskip\else\leftskip\fi \cftsubtabindent\relax
18138     \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
18139     \parfillskip -\if@RTL\leftskip\else\rightskip\fi
18140     \parindent \cftsubtabindent\relax\@afterindenttrue
18141     \interlinepenalty\@M
18142     \leavevmode
18143     \@tempdima \cftsubtabnumwidth\relax
18144     \let\@cftbsnum \cftsubtabpresnum
18145     \let\@cftasnum \cftsubtabaftersnum
18146     \let\@cftasnumb \cftsubtabaftersnumb
18147     \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
18148     {\cftsubtabfont ##1}\nobreak
18149     \cftsubtabfillnum{##2}}
18150   \fi
18151 }
18152 }
18153 \renewcommand{\newlistentry}[4][\@empty]{%
18154   \ifundefined{c@#2}{%      check & set the counter
18155     \ifx \@empty#1\relax
18156       \newcounter{#2}
18157     \else

```



```

18158     \ifundefined{c@#1}{\PackageWarning{tocloft}%
18159         {#1 has no counter for use as a `within'}
18160         \newcounter{#2}}%
18161     {\newcounter{#2}[#1]%
18162     \expandafter\edef\csname the#2\endcsname{%
18163     \expandafter\noexpand\csname the#1\endcsname\@SepMark\noexpand\arabic{#2}}}
18164     \fi
18165     \setcounter{#2}{0}
18166 }
18167 {\PackageError{tocloft}{#2 has been previously defined}{\@eha}}
18168
18169 \@namedef{l@#2}##1##2{%
18170     \ifnum \@nameuse{c@#3depth} > #4\relax
18171     \vskip \@nameuse{cftbefore#2skip}
18172     {\if@RTL\rightskip\else\leftskip\fi \@nameuse{cft#2indent}\relax
18173     \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
18174     \parfillskip -\if@RTL\leftskip\else\rightskip\fi
18175     \parindent \@nameuse{cft#2indent}\relax\@afterindenttrue
18176     \interlinepenalty\@M
18177     \leavevmode
18178     \@tempdima \@nameuse{cft#2numwidth}\relax
18179     \expandafter\let\expandafter\@cftbsnum\csname cft#2presnum\endcsname
18180     \expandafter\let\expandafter\@cftasnum\csname cft#2aftersnum\endcsname
18181     \expandafter\let\expandafter\@cftasnumb\csname cft#2aftersnumb\endcsname
18182     \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima \null\nobreak\hskip -\if@RTL\right
18183     {\@nameuse{cft#2font}##1}\nobreak
18184     \@nameuse{cft#2fillnum}{##2}}
18185     \fi
18186 } % end of \l@#2
18187
18188 \expandafter\newlength\csname cftbefore#2skip\endcsname
18189 \setlength{\@nameuse{cftbefore#2skip}}{\z@ \@plus .2\p@}
18190 \expandafter\newlength\csname cft#2indent\endcsname
18191 \expandafter\newlength\csname cft#2numwidth\endcsname
18192 \ifcase #4\relax % 0
18193     \setlength{\@nameuse{cft#2indent}}{0em}
18194     \setlength{\@nameuse{cft#2numwidth}}{1.5em}
18195 \or % 1
18196     \setlength{\@nameuse{cft#2indent}}{1.5em}
18197     \setlength{\@nameuse{cft#2numwidth}}{2.3em}
18198 \or % 2
18199     \setlength{\@nameuse{cft#2indent}}{3.8em}
18200     \setlength{\@nameuse{cft#2numwidth}}{3.2em}
18201 \or % 3
18202     \setlength{\@nameuse{cft#2indent}}{7.0em}
18203     \setlength{\@nameuse{cft#2numwidth}}{4.1em}
18204 \else % anything else
18205     \setlength{\@nameuse{cft#2indent}}{10.0em}
18206     \setlength{\@nameuse{cft#2numwidth}}{5.0em}
18207 \fi

```



```

18208 \@namedef{cft#2font}{\normalfont}
18209 \@namedef{cft#2presnum}{ }
18210 \@namedef{cft#2aftersnum}{ }
18211 \@namedef{cft#2aftersnumb}{ }
18212 \@namedef{cft#2dotsep}{\cftdotsep}
18213 \@namedef{cft#2leader}{\normalfont\cftdotfill{\@nameuse{cft#2dotsep}}}
18214 \@namedef{cft#2pagefont}{\normalfont}
18215 \@namedef{cft#2afterpnum}{ }
18216 \@namedef{toclevel@#2}{#4}
18217 \@namedef{cft#2fillnum}##1{%
18218   {\@nameuse{cft#2leader}}\nobreak
18219   \hb@xt@{\@pnumwidth}{\hfil\@nameuse{cft#2pagefont}##1}\@nameuse{cft#2afterpnum}\par}
18220 } % end \newlistentry
18221 \renewcommand{\cftchapterprecistoc}[1]{\addtocontents{toc}{%
18222   {\if@RTL\righskip\else\leftskip\fi \cftchapindent\relax
18223   \advance\if@RTL\righskip\else\leftskip\fi \cftchapnumwidth\relax
18224   \if@RTL\leftskip\else\righskip\fi \@tocrmarg\relax
18225   \textit{#1}\protect\par}}}

```

## 7.116 tocbasic-xetex-bidi.def

```

18226 \ProvidesFile{tocbasic-xetex-bidi.def}[2016/09/14 v0.2 bidi adaptations for tocbasic package]
18227 \bidi@undef\scr@dte@def@l@undottedtocline
18228 \bidi@undef\scr@dte@undottedtocline@init
18229 \DeclareTOCEntryStyle{undottedtocline}[{%
18230   \DefineTOCEntryLengthOption{indent}%
18231   {\scr@tso@}{@indent}{entry indent}%
18232   \DefineTOCEntryLengthOption{numwidth}%
18233   {\scr@tso@}{@numwidth}{entry number width}%
18234   \ifundefined{#1tocdepth}{%
18235     \ifstr{#1}{part}{\@namedef{#1tocdepth}{-1}}{%
18236       \ifstr{#1}{chapter}{\@namedef{#1tocdepth}{0}}{%
18237         \ifstr{#1}{section}{\@namedef{#1tocdepth}{1}}{%
18238           \ifstr{#1}{subsection}{\@namedef{#1tocdepth}{2}}{%
18239             \ifstr{#1}{subsubsection}{\@namedef{#1tocdepth}{3}}{%
18240               \ifstr{#1}{paragraph}{\@namedef{#1tocdepth}{4}}{%
18241                 \ifstr{#1}{subparagraph}{\@namedef{#1tocdepth}{5}}{%
18242                   \ifstr{#1}{figure}{\@namedef{#1tocdepth}{1}}{%
18243                     \ifstr{#1}{table}{\@namedef{#1tocdepth}{1}}{%
18244                       \expandafter\let\csname #1tocdepth\expandafter\endcsname
18245                         \csname #1numdepth\endcsname
18246                     }%
18247                   }%
18248                 }%
18249               }%
18250             }%
18251           }%
18252         }%
18253       }%
18254     }%

```



```

18255 }{%
18256 \@ifundefined{scr@tso@#1@indent}{%
18257   \@ifundefined{scr@#1@tocindent}{%
18258     \ifstr{#1}{figure}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
18259       \ifstr{#1}{table}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
18260         \ifstr{#1}{part}{\@namedef{scr@tso@#1@indent}{0em}}{%
18261           \ifstr{#1}{chapter}{\@namedef{scr@tso@#1@indent}{0em}}{%
18262             \scr@ifundefinedorrelax{1@chapter}{%
18263               \ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{0pt}}{%
18264                 \ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
18265                   \ifstr{#1}{subsubsection}{%
18266                     \@namedef{scr@tso@#1@indent}{3.8em}%
18267                   }{%
18268                     \ifstr{#1}{paragraph}{%
18269                       \@namedef{scr@tso@#1@indent}{7em}%
18270                     }{%
18271                       \ifstr{#1}{subparagraph}{%
18272                         \@namedef{scr@tso@#1@indent}{10em}%
18273                       }{%
18274                         }%
18275                       }%
18276                     }%
18277                   }%
18278                 }%
18279               }{%
18280                 \ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
18281                   \ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{3.8em}}{%
18282                     \ifstr{#1}{subsubsection}{%
18283                       \@namedef{scr@tso@#1@indent}{7.0em}%
18284                     }{%
18285                       \ifstr{#1}{paragraph}{%
18286                         \@namedef{scr@tso@#1@indent}{10em}%
18287                       }{%
18288                         \ifstr{#1}{subparagraph}{%
18289                           \@namedef{scr@tso@#1@indent}{12em}%
18290                         }{%
18291                           }%
18292                         }%
18293                       }%
18294                     }%
18295                   }%
18296                 }%
18297               }%
18298             }%
18299           }%
18300         }%
18301       }{%
18302         \@namedef{scr@tso@#1@indent}{\@nameuse{scr@#1@tocindent}}%
18303       }%
18304     }{%

```





```

18305 \ifundefined{scr@tso@#1@numwidth}{%
18306 \ifundefined{scr@#1@tocnumwidth}{%
18307 \ifstr{#1}{figure}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
18308 \ifstr{#1}{table}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
18309 \ifstr{#1}{chapter}{\@namedef{scr@tso@#1@numwidth}{1.5em}}{%
18310 \scr@ifundefinedorrelax{chapter}{%
18311 \ifstr{#1}{section}{\@namedef{scr@tso@#1@numwidth}{1.5em}}{%
18312 \ifstr{#1}{subsection}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
18313 \ifstr{#1}{subsubsection}{%
18314 \@namedef{scr@tso@#1@numwidth}{3.2em}%
18315 }{%
18316 \ifstr{#1}{paragraph}{%
18317 \@namedef{scr@tso@#1@numwidth}{4.1em}%
18318 }{%
18319 \ifstr{#1}{subparagraph}{%
18320 \@namedef{scr@tso@#1@numwidth}{5em}%
18321 }{%
18322 }%
18323 }%
18324 }%
18325 }%
18326 }%
18327 }{%
18328 \ifstr{#1}{section}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
18329 \ifstr{#1}{subsection}{\@namedef{scr@tso@#1@numwidth}{3.2em}}{%
18330 \ifstr{#1}{subsubsection}{%
18331 \@namedef{scr@tso@#1@numwidth}{3.1em}%
18332 }{%
18333 \ifstr{#1}{paragraph}{%
18334 \@namedef{scr@tso@#1@numwidth}{5em}%
18335 }{%
18336 \ifstr{#1}{subparagraph}{%
18337 \@namedef{scr@tso@#1@numwidth}{6em}%
18338 }{%
18339 }%
18340 }%
18341 }%
18342 }%
18343 }%
18344 }%
18345 }%
18346 }%
18347 }%
18348 }{%
18349 \@namedef{scr@tso@#1@numwidth}{\@nameuse{scr@#1@tocnumwidth}}%
18350 }%
18351 }{%
18352 }}{%
18353 \ifnum \c@tocdepth > \numexpr \@nameuse{#1tocdepth} - \@ne \relax
18354 \ifnum \@nameuse{#1tocdepth} < \@ne

```



```

18355     \scr@ifundefinedorrelax{chapter}{%
18356         \addpenalty\@secpenalty
18357         \addvspace{1.0em \@plus\p@}%
18358     }{%
18359         \addpenalty{-\@highpenalty}%
18360         \vskip 1.0em \@plus\p@
18361     }%
18362 \else
18363     \addpenalty\@secpenalty
18364     \addvspace{1.0em \@plus\p@}%
18365 \fi
18366 \setlength\@tempdima{\@nameuse{scr@tso@#1@numwidth}}%
18367 \begingroup
18368     \parindent \z@ \bidi@rightskip \@pnumwidth
18369     \parfillskip -\@pnumwidth
18370     \leavevmode
18371     \bfseries
18372     \advance\bidi@leftskip\@tempdima
18373     \advance\bidi@leftskip\@nameuse{scr@tso@#1@indent}%
18374     \hskip -\dimexpr \bidi@leftskip-\@nameuse{scr@tso@#1@indent}\relax
18375     ##1%
18376     \nobreak
18377     \hfil \nobreak\hb@xt@\@pnumwidth{\hss ##2}%
18378     \par
18379     \penalty\@highpenalty
18380 \endgroup
18381 \fi
18382 }
18383
18384 \bidi@undef\scr@dte@def@l@largetocline
18385 \bidi@undef\scr@dte@largetocline@init
18386 \DeclareTOCEntryStyle{largetocline}[%
18387     \DefineTOCEntryLengthOption{indent}%
18388     {scr@tso@}{\@indent}{entry indent}%
18389     \ifundefined{#1tocdepth}{%
18390         \ifstr{#1}{part}{\@namedef{#1tocdepth}{-1}}{%
18391             \ifstr{#1}{chapter}{\@namedef{#1tocdepth}{0}}{%
18392                 \ifstr{#1}{section}{\@namedef{#1tocdepth}{1}}{%
18393                     \ifstr{#1}{subsection}{\@namedef{#1tocdepth}{2}}{%
18394                         \ifstr{#1}{subsubsection}{\@namedef{#1tocdepth}{3}}{%
18395                             \ifstr{#1}{paragraph}{\@namedef{#1tocdepth}{4}}{%
18396                                 \ifstr{#1}{subparagraph}{\@namedef{#1tocdepth}{5}}{%
18397                                     \ifstr{#1}{figure}{\@namedef{#1tocdepth}{1}}{%
18398                                         \ifstr{#1}{table}{\@namedef{#1tocdepth}{1}}{%
18399                                             \expandafter\let\csname #1tocdepth\expandafter\endcsname
18400                                             \csname #1numdepth\endcsname
18401                                         }%
18402                                     }%
18403                                 }%
18404                             }%

```



```

18405         }%
18406     }%
18407 }%
18408 }%
18409 }%
18410 }{}%
18411 \@ifundefined{scr@tso@#1@indent}{%
18412     \@ifundefined{scr@#1@tocindent}{%
18413         \ifstr{#1}{figure}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
18414             \ifstr{#1}{table}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
18415                 \ifstr{#1}{part}{\@namedef{scr@tso@#1@indent}{0em}}{%
18416                     \ifstr{#1}{chapter}{\@namedef{scr@tso@#1@indent}{0em}}{%
18417                         \scr@ifundefinedorrelax{1@chapter}{%
18418                             \ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{0pt}}{%
18419                                 \ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
18420                                     \ifstr{#1}{subsubsection}{%
18421                                         \@namedef{scr@tso@#1@indent}{3.8em}%
18422                                     }{%
18423                                         \ifstr{#1}{paragraph}{%
18424                                             \@namedef{scr@tso@#1@indent}{7em}%
18425                                         }{%
18426                                             \ifstr{#1}{subparagraph}{%
18427                                                 \@namedef{scr@tso@#1@indent}{10em}%
18428                                             }{%
18429                                                 }%
18430                                             }%
18431                                         }%
18432                                     }%
18433                                 }%
18434                             }{}%
18435                             \ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
18436                                 \ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{3.8em}}{%
18437                                     \ifstr{#1}{subsubsection}{%
18438                                         \@namedef{scr@tso@#1@indent}{7.0em}%
18439                                     }{%
18440                                         \ifstr{#1}{paragraph}{%
18441                                             \@namedef{scr@tso@#1@indent}{10em}%
18442                                         }{%
18443                                             \ifstr{#1}{subparagraph}{%
18444                                                 \@namedef{scr@tso@#1@indent}{12em}%
18445                                             }{%
18446                                                 }%
18447                                             }%
18448                                         }%
18449                                     }%
18450                                 }%
18451                             }%
18452                         }%
18453                     }%
18454                 }%

```



```

18455     }%
18456   }{%
18457     \namedef{scr@tso@#1@indent}{\@nameuse{scr@#1@tocindent}}%
18458   }%
18459 }{%
18460 }}{%
18461   \ifnum \c@tocdepth >\numexpr \@nameuse{#1tocdepth}-\@ne\relax
18462     \ifnum \@nameuse{#1tocdepth}<\@ne
18463       \scr@ifundefinedorrelax{chapter}{%
18464         \addpenalty\@secpenalty
18465         \addvspace{2.25em \@plus\p}%
18466       }{%
18467         \addpenalty{-\@highpenalty}%
18468         \addvspace{2.25em \@plus\p}%
18469       }%
18470     \else
18471       \addpenalty\@secpenalty
18472       \addvspace{2.25em \@plus\p}%
18473     \fi
18474     \setlength\@tempdima{3em}%
18475     \begingroup
18476       \parindent \z@ \bidi@rightskip \@pnumwidth
18477       \parfillskip -\@pnumwidth
18478       \leavevmode
18479       \large
18480       \bfseries
18481       \advance\bidi@leftskip\@nameuse{scr@tso@#1@indent}%
18482       ##1%
18483       \hfil \nobreak\hb@xt@\@pnumwidth{\hss ##2}%
18484       \par
18485       \nobreak
18486       \ifnum 0=
18487         \scr@ifundefinedorrelax{chapter}{\if@compatibility 1\else 0\fi}{1}\relax
18488         \global\@nobreaktrue
18489         \everypar{\global\@nobreakfalse\everypar{}}%
18490       \fi
18491     \endgroup
18492   \fi
18493 }
18494
18495 \renewcommand*{\scr@dte@tocline}[3]{%
18496   \ifnum \@nameuse{#1tocdepth}>\c@tocdepth
18497   \else
18498     \tocbasic@DependOnPenaltyAndTOCLevel{#1}%
18499     \addvspace{\@nameuse{scr@tso@#1@beforeskip}}\relax
18500   {%
18501     \bidi@leftskip \@nameuse{scr@tso@#1@indent}\relax
18502     \bidi@rightskip \@tocrmarg
18503     \parfillskip -\bidi@rightskip
18504     \@nameuse{Ifscr@tso@#1@raggedpage}{%

```



```

18505     \addtolength{\parfillskip}{\z@ \@plus 1fil}%
18506   }{}%
18507   \parindent \@nameuse{scr@tso@#1@indent}\relax
18508   \@afterindenttrue
18509   \interlinepenalty\@M
18510   \expandafter\ifx\csname ragged#1entry\endcsname\raggedright
18511     \addtolength\@bidi@rightskip\@flushglue
18512   \else
18513     \def\reserved@a{\raggedright}%
18514     \expandafter\ifx\csname ragged#1entry\endcsname\reserved@a
18515       \addtolength\@bidi@rightskip\@flushglue
18516     \else
18517       \renewcommand\reserved@a{\raggedright}%
18518       \expandafter\ifx\csname ragged#1entry\endcsname\reserved@a
18519         \addtolength\@bidi@rightskip\@flushglue
18520       \fi
18521     \fi
18522   \fi
18523   \leavevmode
18524   \@tempdima \@nameuse{scr@tso@#1@numwidth}\relax
18525   \@nameuse{Ifscr@tso@#1@dynnumwidth}{%
18526     \scr@ifundefinedorrelax{scr@dte@#1@lastmaxnumwidth}{}{%
18527       \ifdim \@nameuse{scr@dte@#1@lastmaxnumwidth}>\@tempdima
18528         \@tempdima\@nameuse{scr@dte@#1@lastmaxnumwidth}\relax
18529       \fi
18530     }%
18531   }{}%
18532   \advance\@bidi@leftskip \@tempdima
18533   \null\nobreak\hskip -\@bidi@leftskip
18534   {%
18535     \usetocbasicnumberline
18536     \let\scr@dte@numberline@box\numberline@box
18537     \def\numberline@box##1{%
18538       \sbox\scr@dte@tocline@numbox{\@nameuse{scr@tso@#1@numberformat}{##1}}%
18539       \global\scr@dte@tocline@numberwidth
18540       \dimexpr\wd\scr@dte@tocline@numbox+\@nameuse{scr@tso@#1@numsep}\relax
18541       \ifdim \scr@dte@tocline@numberwidth
18542         >\@nameuse{scr@dte@#1@maxnumwidth}\relax
18543       \global\@nameuse{scr@dte@#1@maxnumwidth}\scr@dte@tocline@numberwidth
18544     \fi
18545     \@nameuse{Ifscr@tso@#1@dynnumwidth}{}{%
18546       \ifdim \scr@dte@tocline@numberwidth
18547         >\dimexpr \@nameuse{scr@tso@#1@numwidth}%
18548           +\@nameuse{scr@tso@#1@numsep}\relax
18549       \PackageWarning{tocbasic}%
18550     }{%
18551       number width of #1 toc entries should be
18552       increased!\MessageBreak
18553       Currently used number width =
18554       \the\wd\scr@dte@tocline@numbox,\MessageBreak

```



```

18555             Wanted number separation
18556             \space\space\space =
18557             \the\dimexpr\@nameuse{scr@tso@#1@numsep}\relax,\MessageBreak
18558             Reserved number width \space\space\space\space\space\space =
18559             \the\dimexpr\@nameuse{scr@tso@#1@numwidth}\relax%
18560         }%
18561     \fi
18562 }%
18563 \scr@dte@numberline@box{\@nameuse{scr@tso@#1@numberformat}{##1}}%
18564 \@nameuse{Ifscr@tso@#1@breakafternumber}{%
18565     {\parfillskip\@flushglue\par}\nobreak\hskip-\bidi@leftskip
18566 }{ }%
18567 }%
18568 \@nameuse{scr@tso@#1@entryformat}{%
18569     #2%
18570     \nobreak
18571     {%
18572         \normalfont\normalsize\@nameuse{scr@tso@#1@linefill}%
18573         \nobreak
18574         \@nameuse{scr@tso@#1@pagenumberbox}{%
18575             \@nameuse{scr@tso@#1@pagenumberformat}{#3}%
18576         }%
18577     }%
18578     \@par
18579 }%
18580 }%
18581 }%
18582 \tocbasic@SetPenaltyByTOCLevel{#1}%
18583 \fi
18584 }
18585
18586 \bidi@undef\scr@dte@def@l@tocline
18587 \bidi@undef\scr@dte@tocline@init
18588 \DeclareTOCEntryStyle{tocline}[%
18589     \DefineTOCEntryLengthOption{beforeskip}%
18590     {scr@tso@}{@beforeskip}{vertical skip before the entry}%
18591     \DefineTOCEntryIfOption{breakafternumber}%
18592     {scr@tso@}{@breakafternumber}{line break after number flag}%
18593     \DefineTOCEntryIfOption{dynnumwidth}%
18594     {scr@tso@}{@dynnumwidth}{dynamic number width flag}%
18595     \DefineTOCEntryCommandOption{entryformat}%
18596     {scr@tso@}{@entryformat}[1]{entry format}%
18597     \DefineTOCEntryCommandOption{entrynumberformat}%
18598     {scr@tso@}{@numberformat}[1]{entry number format}%
18599     \DefineTOCEntryCommandOption{linefill}[\TOCLineLeaderFill]%
18600     {scr@tso@}{@linefill}{filling between text and page number}%
18601     \DefineTOCEntryLengthOption{numsep}%
18602     {scr@tso@}{@numsep}{entry number separation}%
18603     \DefineTOCEntryCommandOption{onstarthigherlevel}%
18604     {scr@tso@}{@LastTOCLevelWasLower}{start higher level entry hook}%

```



```

18605 \DefineTOCEntryCommandOption{onstartlowerlevel}%
18606   {scr@tso@}{@LastTOCLevelWasHigher}{start lower level entry hook}%
18607 \DefineTOCEntryCommandOption{onstartsamelevel}%
18608   {scr@tso@}{@LastTOCLevelWasSame}{start same level entry hook}%
18609 \DefineTOCEntryCommandOption{pagenumberbox}%
18610   {scr@tso@}{@pagenumberbox}[1]{page number box}%
18611 \DefineTOCEntryCommandOption{pagenumberformat}%
18612   {scr@tso@}{@pagenumberformat}[1]{page number format}%
18613 \DefineTOCEntryOption{raggedentrytext}[true]{%
18614   \FamilySetBool{KOMAAarg}{raggedentrytext}{@tempswa}{##1}%
18615   \ifx\FamilyKeyState\FamilyKeyStateProcessed
18616     \if@tempswa
18617       \expandafter\let\csname ragged\scr@dte@current entry\endcsname
18618       \raggedright
18619     \else
18620       \expandafter\let\csname ragged\scr@dte@current entry\endcsname
18621       \relax
18622     \fi
18623   \fi
18624 }%
18625 \DefineTOCEntryIfOption{raggedpagenumber}%
18626   {scr@tso@}{@raggedpage}{page number ragged flag}%
18627 \DefineTOCEntryLengthOption{indent}%
18628   {scr@tso@}{@indent}{entry indent}%
18629 \DefineTOCEntryLengthOption{numwidth}%
18630   {scr@tso@}{@numwidth}{entry number width}%
18631 \scr@ifundefinedorrelax{#1tocdepth}{%
18632   \ifstrstart{#1}{sub}{%
18633     \scr@ifundefinedorrelax{\scr@dte@nosub{#1}tocdepth}{%
18634       \expandafter\edef\csname #1tocdepth\endcsname{%
18635         \the\numexpr \noexpand\@nameuse{\scr@dte@nosub{#1}tocdepth}+\@one\relax
18636       }%
18637     }%
18638   }{}%
18639 }{}%
18640 \@ifundefined{#1tocdepth}{%
18641   \ifstr{#1}{part}{\@namedef{#1tocdepth}{-1}}{%
18642     \ifstr{#1}{chapter}{\@namedef{#1tocdepth}{0}}{%
18643       \ifstr{#1}{section}{\@namedef{#1tocdepth}{1}}{%
18644         \ifstr{#1}{subsection}{\@namedef{#1tocdepth}{2}}{%
18645           \ifstr{#1}{subsubsection}{\@namedef{#1tocdepth}{3}}{%
18646             \ifstr{#1}{paragraph}{\@namedef{#1tocdepth}{4}}{%
18647               \ifstr{#1}{subparagraph}{\@namedef{#1tocdepth}{5}}{%
18648                 \ifstr{#1}{figure}{\@namedef{#1tocdepth}{1}}{%
18649                   \ifstr{#1}{table}{\@namedef{#1tocdepth}{1}}{%
18650                     \expandafter\let\csname #1tocdepth\expandafter\endcsname
18651                     \csname #1numdepth\endcsname
18652                   }%
18653                 }%
18654               }%

```



```

18655         }%
18656     }%
18657 }%
18658 }%
18659 }%
18660 }%
18661 }{}%
18662 \scr@ifundefinedorrelax{scr@tso@#1@indent}{%
18663     \@ifundefined{scr@#1@tocindent}{%
18664         \ifstrstart{#1}{sub}{%
18665             \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@indent}{%
18666                 \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@numwidth}{}{%
18667                     \expandafter\edef\csname scr@tso@#1@indent\endcsname{%
18668                         \glueexpr \noexpand\@nameuse{scr@tso@\scr@dte@nosub{#1}@numwidth}%
18669                         \relax
18670                     }%
18671                 }%
18672             }{}%
18673             \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@numwidth}{%
18674                 \expandafter\edef\csname scr@tso@#1@indent\endcsname{%
18675                     \glueexpr \noexpand\@nameuse{scr@tso@\scr@dte@nosub{#1}@indent}%
18676                     \relax
18677                 }%
18678             }{}%
18679             \expandafter\edef\csname scr@tso@#1@indent\endcsname{%
18680                 \glueexpr \noexpand\@nameuse{scr@tso@\scr@dte@nosub{#1}@indent}%
18681                 +\noexpand\@nameuse{scr@tso@\scr@dte@nosub{#1}@numwidth}%
18682                 \relax
18683             }%
18684         }%
18685     }%
18686 }{}%
18687 }{}%
18688 \@namedef{scr@tso@#1@indent}{\@nameuse{scr@#1@tocindent}}%
18689 }%
18690 }{}%
18691 \@ifundefined{scr@tso@#1@indent}{%
18692     \ifstr{#1}{figure}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
18693     \ifstr{#1}{table}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
18694     \ifstr{#1}{part}{\@namedef{scr@tso@#1@indent}{0em}}{%
18695     \ifstr{#1}{chapter}{\@namedef{scr@tso@#1@indent}{0em}}{%
18696     \scr@ifundefinedorrelax{1@chapter}{%
18697     \ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{0pt}}{%
18698     \ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
18699     \ifstr{#1}{subsubsection}{%
18700         \@namedef{scr@tso@#1@indent}{3.8em}%
18701     }{}%
18702     \ifstr{#1}{paragraph}{%
18703         \@namedef{scr@tso@#1@indent}{7em}%
18704     }{}%

```





```

18705         \ifstr{#1}{subparagraph}{%
18706             \@namedef{scr@tso@#1@indent}{10em}%
18707         }{%
18708             }%
18709         }%
18710     }%
18711 }%
18712 }%
18713 }{%
18714     \ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
18715         \ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{3.8em}}{%
18716             \ifstr{#1}{subsubsection}{%
18717                 \@namedef{scr@tso@#1@indent}{7.0em}%
18718             }{%
18719                 \ifstr{#1}{paragraph}{%
18720                     \@namedef{scr@tso@#1@indent}{10em}%
18721                 }{%
18722                     \ifstr{#1}{subparagraph}{%
18723                         \@namedef{scr@tso@#1@indent}{12em}%
18724                     }{%
18725                         }%
18726                     }%
18727                 }%
18728             }%
18729         }%
18730     }%
18731 }%
18732 }%
18733 }%
18734 }%
18735 }{}%
18736 \scr@ifundefinedorrelax{scr@tso@#1@numwidth}{%
18737     \scr@ifundefinedorrelax{scr@#1@tocnumwidth}{%
18738         \ifstrstart{#1}{sub}{%
18739             \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@numwidth}{}%
18740             \expandafter\edef\csname scr@tso@#1@numwidth\endcsname{%
18741                 \glueexpr \noexpand\@nameuse{scr@tso@\scr@dte@nosub{#1}@numwidth}%
18742                 +.9em%
18743             }%
18744         }%
18745     }%
18746 }{}%
18747 }{%
18748     \@namedef{scr@tso@#1@numwidth}{\@nameuse{scr@#1@tocnumwidth}}%
18749 }%
18750 }{}%
18751 \@ifundefined{scr@tso@#1@numwidth}{%
18752     \ifstr{#1}{figure}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
18753         \ifstr{#1}{table}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
18754             \ifstr{#1}{chapter}{\@namedef{scr@tso@#1@numwidth}{1.5em}}{%

```



```

18755 \scr@ifundefinedorrelax{chapter}{%
18756 \ifstr{#1}{section}{\@namedef{scr@tso@#1@numwidth}{1.5em}}{%
18757 \ifstr{#1}{subsection}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
18758 \ifstr{#1}{subsubsection}{%
18759 \@namedef{scr@tso@#1@numwidth}{3.2em}%
18760 }{%
18761 \ifstr{#1}{paragraph}{%
18762 \@namedef{scr@tso@#1@numwidth}{4.1em}%
18763 }{%
18764 \ifstr{#1}{subparagraph}{%
18765 \@namedef{scr@tso@#1@numwidth}{5em}%
18766 }{%
18767 }%
18768 }%
18769 }%
18770 }%
18771 }%
18772 }{%
18773 \ifstr{#1}{section}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
18774 \ifstr{#1}{subsection}{\@namedef{scr@tso@#1@numwidth}{3.2em}}{%
18775 \ifstr{#1}{subsubsection}{%
18776 \@namedef{scr@tso@#1@numwidth}{3.1em}%
18777 }{%
18778 \ifstr{#1}{paragraph}{%
18779 \@namedef{scr@tso@#1@numwidth}{5em}%
18780 }{%
18781 \ifstr{#1}{subparagraph}{%
18782 \@namedef{scr@tso@#1@numwidth}{6em}%
18783 }{%
18784 }%
18785 }%
18786 }%
18787 }%
18788 }%
18789 }%
18790 }%
18791 }%
18792 }%
18793 }{%
18794 \expandafter\renewcommand%
18795 \csname scr@tso@#1@LastTOCLevelWasLower\endcsname{\LastTOCLevelWasLower}%
18796 \expandafter\renewcommand%
18797 \csname scr@tso@#1@LastTOCLevelWasSame\endcsname{\LastTOCLevelWasSame}%
18798 \expandafter\renewcommand%
18799 \csname scr@tso@#1@LastTOCLevelWasHigher\endcsname{\LastTOCLevelWasHigher}%
18800 \@ifundefined{scr@tso@#1@beforeskip}{%
18801 \ifstr{#1}{part}{%
18802 \@namedef{scr@tso@#1@beforeskip}{\glueexpr 2.25em \@plus\p\@relax}%
18803 }{%
18804 \ifstr{#1}{chapter}{%

```



```

18805         \@namedef{scr@tso@#1@beforeskip}{\glueexpr 1.0em \@plus\p@\relax}%
18806     }{%
18807         \ifstr{#1}{section}{%
18808             \scr@ifundefinedorrelax{1@chapter}{%
18809                 \@namedef{scr@tso@#1@beforeskip}{\glueexpr 1.0em \@plus\p@\relax}%
18810             }{%
18811                 }{%
18812             }%
18813         }%
18814         \expandafter\renewcommand\expandafter*%
18815         \csname scr@tso@#1@beforeskip\endcsname{\glueexpr \z@ plus .2\p@\relax}%
18816     }{%
18817         \@ifundefined{scr@dte@#1@maxnumwidth}{%
18818             \expandafter\newlength\csname scr@dte@#1@maxnumwidth\endcsname
18819             \setlength{\@nameuse{scr@dte@#1@maxnumwidth}}{\z@}%
18820         }{%
18821             \renewcommand*{\scr@dte@donumwidth}{}%
18822             \g@addto@macro{\scr@dte@donumwidth}{\do{#1}}%
18823             \expandafter\renewcommand\expandafter*%
18824             \csname scr@tso@#1@numsep\endcsname{.4em}%
18825             \expandafter\renewcommand%
18826             \csname scr@tso@#1@numberformat\endcsname[1]{##1}%
18827             \ifstr{#1}{part}{%
18828                 \expandafter\renewcommand%
18829                 \csname scr@tso@#1@entryformat\endcsname[1]{\large\bfseries ##1}%
18830             }{%
18831                 \ifstr{#1}{chapter}{%
18832                     \expandafter\renewcommand%
18833                     \csname scr@tso@#1@entryformat\endcsname[1]{\bfseries ##1}%
18834                 }{%
18835                     \scr@ifundefinedorrelax{1@chapter}{%
18836                         \ifstr{#1}{section}{%
18837                             \expandafter\renewcommand%
18838                             \csname scr@tso@#1@entryformat\endcsname[1]{\bfseries ##1}%
18839                         }{%
18840                             }{%
18841                                 \expandafter\renewcommand%
18842                                 \csname scr@tso@#1@entryformat\endcsname[1]{##1}%
18843                             }%
18844                         }%
18845                     \expandafter\renewcommand
18846                     \csname Ifscr@tso@#1@breakafternumber\endcsname[2]{##2}%
18847                     \@ifundefined{scr@tso@#1@linefill}{%
18848                         \ifstr{#1}{part}{%
18849                             \@namedef{scr@tso@#1@linefill}{\hfill}%
18850                         }{%
18851                             \ifstr{#1}{chapter}{%
18852                                 \@namedef{scr@tso@#1@linefill}{\hfill}%
18853                             }{%
18854                                 \scr@ifundefinedorrelax{1@chapter}{%

```



```

18855         \ifstr{#1}{section}{%
18856             \@namedef{scr@tso@#1@linefill}{\hfill}%
18857         }{}
18858     }{}
18859     \expandafter\renewcommand%
18860     \csname scr@tso@#1@linefill\endcsname{\TOCLineLeaderFill\relax}%
18861 }%
18862 }%
18863 }{}%
18864 \expandafter\renewcommand\csname Ifscr@tso@#1@raggedpage\endcsname[2]{##2}%
18865 \ifstr{#1}{part}{%
18866     \expandafter\renewcommand%
18867     \csname scr@tso@#1@pagenumberformat\endcsname[1]{\large\bfseries ##1}%
18868 }{%
18869     \expandafter\renewcommand%
18870     \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
18871         {\normalfont\normalcolor ##1}}%
18872 }%
18873 \expandafter\renewcommand%
18874 \csname scr@tso@#1@pagenumberbox\endcsname[1]{%
18875     \hb@xt@{\pnumwidth}{\hfil ##1}}%
18876 \expandafter\renewcommand\csname Ifscr@tso@#1@dynnumwidth\endcsname[2]{##2}%
18877 }{}%
18878 \scr@dte@tocline{#1}{##1}{##2}%
18879 }
18880

```

## 7.117 tocstyle-xetex-bidi.def

```

18881 \ProvidesFile{tocstyle-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for tocstyle package]
18882 \renewcommand*{\tocstyle@dottedtocline}[5]{%
18883     \let\numberline\tocstyle@numberline
18884     \ifnum #1>\c@tocdepth \else
18885         \if@tocstyle@penalties
18886             \begingroup
18887                 \@tempcnta 20010
18888                 \advance \@tempcnta by -#1
18889                 \ifnum \@tempcnta>\lastpenalty
18890                     \aftergroup\penalty\aftergroup\@lowpenalty
18891                 \fi
18892             \endgroup
18893         \fi
18894         \edef\tocstyledepth{#1}%
18895         \tocstyle@activate@features
18896         \ifx\tocstyle@feature@entryvskip\relax
18897             \vskip \z@ \@plus.2\p@
18898         \else
18899             \addvspace{\tocstyle@feature@entryvskip}%
18900         \fi
18901     }%

```



```

18902 \parskip \z@ \parindent \z@ \if@RTL\rightskip\else\leftskip\fi \z@ \if@RTL\leftskip\els
18903 \tocstyle@feature@raggedhook
18904 \@tempdima #3\relax
18905 \@tempdimb #2\relax
18906 \typeout{m (\tocstyleTOC, \tocstyledepth): \the\@tempdima}%
18907 \ifnum #1>\z@\relax
18908 \@tempcnta #1\relax \advance\@tempcnta \m@ne
18909 \ifcsname tocstyle@skipwidth@\tocstyleTOC @\the\@tempcnta\endcsname
18910 \ifcsname tocstyle@numwidth@\tocstyleTOC @\the\@tempcnta\endcsname
18911 \@tempdimb
18912 \csname tocstyle@skipwidth@\tocstyleTOC @\the\@tempcnta\endcsname
18913 \advance\@tempdimb
18914 \csname tocstyle@numwidth@\tocstyleTOC @\the\@tempcnta\endcsname
18915 \fi
18916 \fi
18917 \fi
18918 \typeout{C (\tocstyleTOC, \tocstyledepth): \the\@tempdimb}%
18919 \ifcsname tocstyle@skipwidth@\tocstyleTOC @#1\endcsname
18920 \ifdim \@tempdimb>
18921 \csname tocstyle@skipwidth@\tocstyleTOC @#1\endcsname\relax
18922 \expandafter\xdef\csname tocstyle@skipwidth@\tocstyleTOC
18923 @#1\endcsname{\the\@tempdimb}%
18924 \fi
18925 \else
18926 \expandafter\xdef\csname tocstyle@skipwidth@\tocstyleTOC
18927 @#1\endcsname{\the\@tempdimb}%
18928 \fi
18929 \iftocstyle@autolength
18930 \ifcsname tocstyle@maxskipwidth@\tocstyleTOC @#1\endcsname
18931 \@tempdimb \csname tocstyle@maxskipwidth@\tocstyleTOC @#1\endcsname
18932 \relax
18933 \fi
18934 \ifcsname tocstyle@maxnumwidth@\tocstyleTOC @#1\endcsname
18935 \@tempdima \csname tocstyle@maxnumwidth@\tocstyleTOC @#1\endcsname
18936 \relax
18937 \fi
18938 \typeout{a (\tocstyleTOC, \tocstyledepth): \the\@tempdima}%
18939 \typeout{A (\tocstyleTOC, \tocstyledepth): \the\@tempdimb}%
18940 \else
18941 \@tempdimb #2\relax
18942 \typeout{M (\tocstyleTOC, \tocstyledepth): \the\@tempdimb}%
18943 \fi
18944 \ifcsname tocstyle@unumwidth@\tocstyleTOC @\endcsname
18945 \ifdim \@tempdima>
18946 \csname tocstyle@unumwidth@\tocstyleTOC @\endcsname\relax
18947 \expandafter\xdef\csname tocstyle@unumwidth@\tocstyleTOC
18948 @\endcsname{\the\@tempdima}%
18949 \fi
18950 \else
18951 \expandafter\xdef\csname tocstyle@unumwidth@\tocstyleTOC

```



```

18952         @\endcsname{\the\@tempdima}%
18953     \fi
18954     \ifcase\tocstyle@indentstyle\relax\else
18955         \@tempdimb \z@
18956         \ifcsname tocstyle@maxunumwidth@\tocstyleTOC @\endcsname
18957             \@tempdima \csname tocstyle@maxunumwidth@\tocstyleTOC @\endcsname
18958             \relax
18959         \fi
18960         \typeout{s (\tocstyleTOC, \tocstyledepth): \the\@tempdima}%
18961         \typeout{S (\tocstyleTOC, \tocstyledepth): \the\@tempdimb}%
18962     \fi
18963     \advance\parindent \@tempdimb\@afterindenttrue
18964     \advance\if@RTL\rightskip\else\leftskip\fi \parindent
18965     \advance\if@RTL\leftskip\else\rightskip\fi \tocrmarg
18966     \parfillskip -\if@RTL\leftskip\else\rightskip\fi
18967     \ifx\tocstyle@feature@parfillskip\relax\else
18968         \advance\parfillskip \tocstyle@feature@parfillskip\relax
18969     \fi
18970     \interlinepenalty\@M
18971     \leavevmode
18972     \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima
18973     \null\nobreak
18974     \iftocstyle@indentnotnumbered\else
18975         \hskip -\if@RTL\rightskip\else\leftskip\fi
18976     \fi
18977     \tocstyle@feature@entryhook
18978     {#4}\nobreak
18979     \ifx\tocstyle@feature@leaders\relax
18980         \leaders\hbox{$\m@th
18981             \mkern \@dotsep mu\hbox{\tocstyle@feature@dotohook .}%
18982             \mkern \@dotsep mu$}\hfill
18983     \else
18984         \tocstyle@feature@leaders
18985     \fi
18986     \nobreak
18987     \ifx\tocstyle@feature@pagenumberbox\relax
18988         \hb@xt@\@pnumwidth{\hfil\tocstyle@feature@pagenumberhook #5}%
18989     \else
18990         \tocstyle@feature@pagenumberbox{\tocstyle@feature@pagenumberhook #5}%
18991     \fi
18992     \par
18993 }%
18994 \iftocstyle@penalties
18995     \bgroup
18996     \@tempcnta 20009
18997     \advance\@tempcnta by -#1
18998     \edef\reserved@a{\egroup\penalty\the\@tempcnta\relax}%
18999     \reserved@a
19000 \fi
19001 \fi}

```



```

19002 \renewcommand*{\tocstyle@numberline}[1]{%
19003   \begingroup
19004     \ifx\tocstyle@feature@spaceafternumber\relax
19005       \settowidth\@tempdima{\tocstyle@numberline{#1}\enskip}%
19006     \else
19007       \settowidth\@tempdima{\tocstyle@numberline{#1}}%
19008       \advance \@tempdima \tocstyle@feature@spaceafternumber\relax
19009     \fi
19010     \ifcsname tocstyle@numwidth@\tocstyleTOC @\tocstyledepth\endcsname
19011       \ifdim \@tempdima >
19012         \csname tocstyle@numwidth@\tocstyleTOC @\tocstyledepth\endcsname\relax
19013         \expandafter\xdef\csname tocstyle@numwidth@\tocstyleTOC
19014           @\tocstyledepth\endcsname{\the\@tempdima}%
19015       \fi
19016     \else
19017       \expandafter\xdef\csname tocstyle@numwidth@\tocstyleTOC
19018         @\tocstyledepth\endcsname{\the\@tempdima}%
19019     \fi
19020   \endgroup
19021   \iftocstyle@indentnotnumbered
19022     \hskip -\if@RTL\rightskip\else\leftskip\fi
19023   \fi
19024   \ifcase \tocstyle@indentstyle
19025     \hb@xt@\@tempdima{\tocstyle@numberline{#1}\hfil}%
19026   \or
19027     \hb@xt@\@tempdima{\tocstyle@numberline{#1}\hfil}%
19028   \else
19029     \ifx\tocstyle@feature@spaceafternumber\relax
19030       \hbox{\tocstyle@numberline{#1}\enskip}%
19031     \else
19032       \hbox{\tocstyle@numberline{#1}\hskip
19033         \tocstyle@feature@spaceafternumber\relax}%
19034     \fi
19035   \fi
19036 }
19037 \AtBeginDocument{%
19038   \ifcsname l@part\endcsname
19039     \ifcsname l@chapter\endcsname
19040       \setbox\@tempboxa\vbox{\hsize\maxdimen
19041         \l@part{\tocstyle@l@define{part}{-1}}{}}%
19042     \else
19043       \setbox\@tempboxa\vbox{\hsize\maxdimen
19044         \l@part{\tocstyle@l@define{part}{0}}{}}%
19045     \fi
19046   \fi
19047   \ifcsname l@chapter\endcsname
19048     \setbox\@tempboxa\vbox{\hsize\maxdimen
19049       \l@chapter{\tocstyle@l@define{chapter}{0}}{}}%
19050   \fi
19051   \ifcsname l@section\endcsname

```



```

19052     \setbox\@tempboxa\vbox{\hsize\maxdimen
19053       \l@section{\tocstyle@l@define{section}{1}}{}}%
19054   \fi
19055   \ifcsname l@subsection\endcsname
19056     \setbox\@tempboxa\vbox{\hsize\maxdimen
19057       \l@subsection{\tocstyle@l@define{subsection}{2}}{}}%
19058   \fi
19059   \ifcsname l@subsubsection\endcsname
19060     \setbox\@tempboxa\vbox{\hsize\maxdimen
19061       \l@subsubsection{\tocstyle@l@define{subsubsection}{3}}{}}%
19062   \fi
19063   \ifcsname l@paragraph\endcsname
19064     \setbox\@tempboxa\vbox{\hsize\maxdimen
19065       \l@paragraph{\tocstyle@l@define{paragraph}{4}}{}}%
19066   \fi
19067   \ifcsname l@subparagraph\endcsname
19068     \setbox\@tempboxa\vbox{\hsize\maxdimen
19069       \l@subparagraph{\tocstyle@l@define{subparagraph}{5}}{}}%
19070   \fi
19071   \ifcsname l@table\endcsname
19072     \setbox\@tempboxa\vbox{\hsize\maxdimen
19073       \l@table{\tocstyle@l@define{table}{1}}{}}%
19074   \fi
19075   \ifcsname l@figure\endcsname
19076     \setbox\@tempboxa\vbox{\hsize\maxdimen
19077       \l@figure{\tocstyle@l@define{figure}{1}}{}}%
19078   \fi
19079   \def\@tempa#1#2#3#4#5{%
19080     \ifnum #1>\c@tocdepth \else
19081       \vskip \z@ \@plus.2\p@
19082       {\if@RTL\righskip\else\leftskip\fi #2\relax \if@RTL\leftskip\else\righskip\fi \@tocrm
19083       \parindent #2\relax\@afterindenttrue
19084       \interlinepenalty\@M
19085       \leavevmode
19086       \@tempdima #3\relax
19087       \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\rig
19088       {#4}\nobreak
19089       \leaders\hbox{$\m@th
19090         \mkern \@dotsep mu\hbox{.}\mkern \@dotsep
19091         mu$}\hfill
19092       \nobreak
19093       \hb@xt@\@pnumwidth{\hfil \normalfont \normalcolor #5}}%
19094     \par}%
19095   \fi}%
19096   \ifx\@dottedtocline\@tempa\else
19097     \tocstyle@macrochangewarning\@dottedtocline
19098   \fi
19099   \let\tocstyle@saved@dottedtocline\@dottedtocline
19100   \def\@tempa#1{\hb@xt@\@tempdima{#1\autodot\hfil}}%
19101   \ifx\numberline\@tempa\else

```





```

19102 \def\@tempa#1{\hb@xt@\@tempdima{#1\hfil}}%
19103 \ifx\numberline@tempa\else
19104 \tocstyle@macrochangewarning\numberline
19105 \fi
19106 \fi
19107 \let\tocstyle@saved@numberline\numberline
19108 }
19109 \renewcommand*{\tocstyle@l@define}[2]{%
19110 \advance\if@RTL\rightskip\else\leftskip\fi-\@tempdima
19111 \edef\@tempa{%
19112 \noexpand\global\noexpand\let
19113 \expandafter\noexpand\csname tocstyle@saved@l@#1\endcsname
19114 \expandafter\noexpand\csname l@#1\endcsname
19115 \noexpand\gdef
19116 \expandafter\noexpand\csname tocstyle@l@#1\endcsname{%
19117 \noexpand\@dottedtocline{#2}{\the\if@RTL\rightskip\else\leftskip\fi}{\the\@tempdima}}%
19118 \noexpand\g@addto@macro\noexpand\tocstyle@activate@all@l{%
19119 \noexpand\let\expandafter\noexpand\csname l@#1\endcsname
19120 \expandafter\noexpand\csname tocstyle@l@#1\endcsname
19121 }%
19122 }%
19123 \PackageInfo{tocstyle}{prepare \expandafter\string
19124 \csname l@#1\endcsname\space for redefinition}%
19125 \@tempa
19126 }

```

## 7.118 todonotes-xetex-bidi.def

```

19127 \ProvidesFile{todonotes-xetex-bidi.def}[2016/11/08 v0.4 bidi adaptations for todonotes package]
19128 \newif\if@bidi@todonotes@textdirection@RTL
19129 \newif\if@bidi@todonotes@figposition@right
19130 \newcommand{\@bidi@todonotes@align}{}%
19131 \define@key{todonotes}{align}{\renewcommand{\@bidi@todonotes@align}{#1}}%
19132 \newcommand{\@bidi@todonotes@textdirection}{}%
19133 \define@choicekey{todonotes}{textdirection}[\@bidi@todonotes@tempa\@bidi@todonotes@tempb]{right,1}
19134 \ifcase\@bidi@todonotes@tempb\relax
19135 \@bidi@todonotes@textdirection@RTLtrue
19136 \let\@bidi@todonotes@textdirection\RL
19137 \or
19138 \@bidi@todonotes@textdirection@RTLfalse
19139 \let\@bidi@todonotes@textdirection\LRL
19140 \fi
19141 \define@choicekey{todonotes}{figposition}[\@bidi@todonotes@tempa\@bidi@todonotes@tempb]{right,1}
19142 \ifcase\@bidi@todonotes@tempb\relax
19143 \@bidi@todonotes@figposition@righttrue
19144 \or
19145 \@bidi@todonotes@figposition@rightfalse
19146 \fi
19147 \if@todonotes@disabled%
19148 \else % \if@todonotes@disabled

```



```

19149 \renewcommand{\@todonotes@drawInlineNote}{%
19150     \if@todonotes@dviStyle%
19151         {\par\noindent\begin{tikzpicture}[remember picture]%
19152             \draw node[inlinenotestyle] {};\end{tikzpicture}\par}%
19153         \if@todonotes@authorgiven%
19154             {\noindent \@todonotes@sizecommand \@todonotes@author:\,\@todonotes@text}%
19155         \else%
19156             {\noindent \@todonotes@sizecommand \@todonotes@text}%
19157         \fi
19158         {\par\noindent\begin{tikzpicture}[remember picture]%
19159             \draw node[inlinenotestyle] {};\end{tikzpicture}\par}%
19160     \else%
19161         {\par\noindent\begin{tikzpicture}[remember picture]%
19162             \if@bidi@todonotes@textdirection@RTL\setRTL\fi%
19163             \draw node[inlinenotestyle,font=\@todonotes@sizecommand,align=\@bidi@todonotes@al
19164                 \if@todonotes@authorgiven%
19165                     {\noindent \@todonotes@sizecommand \@todonotes@author:\,\@todonotes@text}%
19166                 \else%
19167                     {\noindent \@todonotes@sizecommand \@todonotes@text}%
19168                 \fi};%
19169             \end{tikzpicture}\par}%
19170     \fi}%
19171 \renewcommand{\@todonotes@drawMarginNoteWithLine}{%
19172 \begin{tikzpicture}[remember picture, overlay, baseline=-0.75ex]%
19173     \node [coordinate] (inText) {};%
19174 \end{tikzpicture}%
19175 \marginpar[{} Draw note in left margin
19176     \@todonotes@drawMarginNote%
19177     \if@RTL\@todonotes@drawLineToRightMargin\else\@todonotes@drawLineToLeftMargin\fi%
19178 }]{% Draw note in right margin
19179     \@todonotes@drawMarginNote%
19180     \if@RTL\@todonotes@drawLineToLeftMargin\else\@todonotes@drawLineToRightMargin\fi%
19181 }%
19182 }%
19183 \renewcommand{\@todonotes@drawMarginNote}{%
19184 \if@todonotes@dviStyle%
19185     \begin{tikzpicture}[remember picture]%
19186         \draw node[notestyle] {};%
19187     \end{tikzpicture}\\%
19188     \begin{minipage}{\@todonotes@textwidth}%
19189         \if@todonotes@authorgiven%
19190             \@todonotes@sizecommand \@todonotes@author \@todonotes@text%
19191         \else%
19192             \@todonotes@sizecommand \@todonotes@text%
19193         \fi%
19194     \end{minipage}\\%
19195     \begin{tikzpicture}[remember picture]%
19196         \draw node[notestyle] (inNote) {};%
19197     \end{tikzpicture}%
19198 \else%

```



```

19199 \let\originalHbadness\hbadness%
19200 \hbadness 100000%
19201 \begin{tikzpicture}[remember picture,baseline=(X.base)]%
19202 \if@bidi@todonotes@textdirection@RTL\setRTL\fi%
19203 \node(X){\vphantom{X}};%
19204 \draw node[notestyle,font=\@todonotes@sizecommand,anchor=north,align=\@bidi@todonotes
19205 {\@todonotes@text};%
19206 \if@todonotes@authorgiven%
19207 \draw node[notestyle,font=\@todonotes@sizecommand,anchor=north,align=\@bidi@todon
19208 {\@todonotes@sizecommand\@todonotes@author};%
19209 \node(Y)[below=of X]{};%
19210 \draw node[notestyle,font=\@todonotes@sizecommand,anchor=north,align=\@bidi@todon
19211 {\@todonotes@text};%
19212 \else%
19213 \draw node[notestyle,font=\@todonotes@sizecommand,anchor=north,align=\@bidi@todon
19214 {\@todonotes@text};%
19215 \fi%
19216 \end{tikzpicture}%
19217 \hbadness \originalHbadness%
19218 \fi}%
19219 \renewcommand{\missingfigure}[2][]{%
19220 \setkeys{todonotes}{#1}%
19221 \addcontentsline{tdo}{todo}{\@todonotes@MissingFigureText: #2}%
19222 \par
19223 \noindent
19224 \begin{tikzpicture}
19225 \draw[fill=\@todonotes@currentfigcolor, draw = black!40, line width=2pt]
19226 (-2, -2.5) rectangle +(\@todonotes@currentfigwidth, \@todonotes@currentfigheight);
19227 \if@bidi@todonotes@figposition@right%
19228 \begin{scope}[xshift=\@todonotes@currentfigwidth-4cm]
19229 \fi%
19230 \draw[red, fill=white, rounded corners = 5pt, line width=10pt]
19231 (30:2cm) -- (150:2cm) -- (270:2cm) -- cycle;
19232 \if@bidi@todonotes@figposition@right%
19233 \end{scope}
19234 \begin{scope}[xshift=-3.8cm]
19235 \fi%
19236 \if@bidi@todonotes@textdirection@RTL\setRTL\fi%
19237 \draw (2, -0.3) node[right, text
19238 width=\@todonotes@currentfigwidth-4.5cm,align=\@bidi@todonotes@align] {#2};
19239 \if@bidi@todonotes@figposition@right%
19240 \end{scope}
19241 \begin{scope}[xshift=\@todonotes@currentfigwidth-4cm]
19242 \fi%
19243 \draw (0, 0.3) node[align=\@bidi@todonotes@align] {\@bidi@todonotes@textdirection{\@todonotes
19244 \draw (0, -0.3) node[align=\@bidi@todonotes@align] {\@bidi@todonotes@textdirection{\@todonotes
19245 \if@bidi@todonotes@figposition@right%
19246 \end{scope}
19247 \fi%
19248 \end{tikzpicture}\hfill

```



```

19249 }% Ending \missingfigure command
19250 \fi % Ending \@todonotes@ifdisabled
19251 \presetkeys%
19252     {todonotes}%
19253     {align=left,%
19254     textdirection=lefttoright,%
19255     figposition=left}{}%

```

## 7.119 wrapfig-xetex-bidi.def

```

19256 \ProvidesFile{wrapfig-xetex-bidi.def}[2014/04/23 v0.3 bidi adaptations for wrapfig package fo
19257 \let\WF@everypar\ bidi@n@everypar
19258 \def\WF@putfigmaybe{%
19259 \ifinner
19260 \vskip-\parskip \global\WF@floatfalse
19261 \let\pagetotal\maxdimen % kludge flag for "not top of page"
19262 \else % outer page
19263 \@tempdima\pagedepth % save page depth
19264 {\advance\parskip\@tempdima\ifRTL\advance\parskip\baselineskip\fi\vskip-\parskip}% back u
19265 \penalty\interlinepenalty % update pg. parameters
19266 \@tempdimb\pagegoal \advance\@tempdimb-\pagetotal % room left on page
19267 \ifdim\@tempdimb<\z@ % \WF@info{Page overfull already;}%
19268 \global\WF@floatfalse
19269 \ifdim-\@tempdimb>\pageshrink \else \pagebreak \fi
19270 \else
19271 \ifdim\WF@size>\@tempdimb
19272 \ifWF@float \dimen@.5\baselineskip \else \dimen@ 2\baselineskip\fi
19273 \ifdim\pagestretch>\dimen@ \dimen@\pagestretch \fi
19274 \ifdim\pagefilstretch>\z@ \dimen@\@tempdimb \fi
19275 \ifdim\pagefillstretch>\z@ \dimen@\@tempdimb \fi
19276 \advance\dimen@.5\baselineskip
19277 \ifdim\dimen@>\@tempdimb % \WF@info{Page nearly full; can stretch}%
19278 \global\WF@floatfalse \pagebreak
19279 \fi
19280 \else % \WF@info{Fits in \the\@tempdimb;}%
19281 \global\WF@floatfalse
19282 \fi\fi
19283 \vskip\@tempdima\relax % (return erased page depth)
19284 \fi
19285 \noindent
19286 \ifWF@float
19287 \WF@fltmes
19288 \else % putting here;
19289 \WF@info{Put \WF@wfname here;}%
19290 {\ifodd\if@twoside\c@page\else\@ne\fi % assign l/r to i/o placement
19291 \lccode`i`l\lccode`o`r\else \lccode`i`r\lccode`o`l\fi
19292 \xdef\WF@place{\the\lccode\lccode\WF@place}}% twice to get only l or r
19293 \hbox to\z@{% llap or rlap depending on {l} or {r}; calc effective width
19294 \@tempdima\wd\WF@box \@tempdimb\WF@ovh
19295 \advance\@tempdima-\@tempdimb \advance\@tempdima\columnsep

```



```

19296 \@tempdimb\hsize \advance\@tempdimb-\@tempdima
19297 \xdef\WF@adjlw{\the\@tempdima}%
19298 \ifnum `l=\WF@place % fig on left
19299 \if@RTL%
19300 \kern\@tempdimb \kern\columnsep
19301 \def\@tempa{\hss}% position to left of the gap
19302 \else%
19303 \hss % figure overlaps space to the left
19304 \def\@tempa{\kern\columnsep}% position to left of the gap
19305 \fi%
19306 \else % fig on right
19307 \if@RTL%
19308 \hss
19309 \@tempdima\z@
19310 \def\@tempa{\kern\columnsep}
19311 \else%
19312 \@tempdima\z@ % no left indentation
19313 \kern\@tempdimb \kern\columnsep
19314 \def\@tempa{\hss}% figure overlaps space to the right
19315 \fi%
19316 \fi
19317 \ifdim\@tempdimb<\hsize
19318 \xdef\WF@wrapil{\the\@tempdima \the\@tempdimb}% indentation and length
19319 \xdef\WF@adjtlm{\the\@tempdima}%
19320 \else
19321 \xdef\WF@wrapil{\z@ \the\hsize}%
19322 \xdef\WF@adjlw{\z@}\xdef\WF@adjtlm{\z@}%
19323 \fi
19324 \ifdim\pagetotal=\z@ % \WF@info{Put \WF@wfname at top of p.\thepage}%
19325 \global\advance\WF@size-\intextsep
19326 \else % \WF@info{Putting \WF@wfname in middle of page}%
19327 \setbox\WF@box\hbox{\lower\intextsep\box\WF@box}%
19328 \fi \dp\WF@box\z@ \box\WF@box \@tempa
19329 }% end \hbox to Opt
19330 \aftergroup\WF@startwrapping % after the \endgroup which immediately follows
19331 \fi}

```

## 7.120 xcolor-xetex-bidi.def

```

19332 \ProvidesFile{xcolor-xetex-bidi.def}[2013/04/08 v0.2 bidi adaptations for xcolor package for
19333 \long\def\color@b@x#1#2#3%
19334 {\leavevmode\ifmmode\else\if@RTL\beginL\fi\fi
19335 \setbox\z@\hbox{\kern\fbboxsep\set@color\if@RTL\beginR\fi#3\if@RTL\endR\fi}\kern\fbboxsep}%
19336 \dimen@ht\z@\advance\dimen@\fbboxsep\ht\z@\dimen@
19337 \dimen@dp\z@\advance\dimen@\fbboxsep\dp\z@\dimen@
19338 {\#1{\#2\color@block{\wd\z@}{\ht\z@}{\dp\z@}\box\z@}}\ifmmode\else\if@RTL\endL\fi\fi}
19339 \def\normalcolor{\let\current@color\default@color\ifhmode\if@RTL\beginL\aftergroup\endR\fi\fi
19340 \DeclareRobustCommand\color
19341 {\ifhmode\if@RTL\beginL\aftergroup\endR\fi\fi\ifnextchar[\@undeclaredcolor\@declaredcolor]}
19342 \def\@undeclaredcolor[#1]#2%

```



```

19343 {\begingroup
19344   \let\@cls\@empty
19345   \XC@getmodclr12{#1}{#2}{}%
19346   {\ifblendcolors
19347     \ifx\colorblend\@empty\else
19348       \edef\@mix{\expandafter\@gobble\colorblend}\@tempwafalse
19349       \XC@coremodel\@mod\@clr\@xcolor@{}{}\@mod\@clr
19350     \fi
19351   \fi
19352   \ifconvertcolorsU
19353     \edef\@tmp{\XC@tgtmod{\@mod}}%
19354     \convertcolorspec\@mod\@clr\@tmp\@clr \let\@mod\@tmp
19355   \fi
19356   \ifmaskcolors
19357     \convertcolorspec\@mod\@clr\XC@mmod\@clr
19358     \let\@mod\XC@mmod
19359     \XC@inflate\@mod\XC@mclr\@clr\@tmp
19360     \expandafter\XC@mul\@tmp,\@clr
19361   \fi
19362   \edef\@tmp{\noexpand\XC@undeclaredcolor{\@mod}{\@clr}}%
19363   \expandafter\endgroup\@tmp}}
19364 \def\@declaredcolor#1%
19365 {\XC@edef\XC@tmp{#1}\XC@tstfalse
19366  \ifcase\XC@type\XC@tmp\relax \XC@tsttrue\or \relax\else
19367    \ifblendcolors\XC@tsttrue\fi \ifmaskcolors\XC@tsttrue\fi
19368    \ifconvertcolorsU\XC@tsttrue\fi
19369  \fi
19370  \ifXC@tst
19371    \expandafter\XC@declaredcolor\else
19372    \expandafter\XC@declaredcolor\fi}
19373 \def\XC@undeclaredcolor#1#2%
19374 {\ifundefinedmodel{#1}%
19375  {\c@lor@error{model `#1'}}%
19376  {\@nameuse{color@#1}\current@color{#2}%
19377   \edef\XC@current@color{\noexpand\xcolor@{}{\current@color}{#1}{#2}}%
19378   \XC@display}\ifhmode\ifRTL\beginR\aftergroup\endL\fi\fi\ignorespaces}
19379 \def\XC@declaredcolor
19380 {\XC@let\Nc\XC@current@color{\string\color\XC@tmp}%
19381  \edef\current@color{\XC@current@color}%
19382  \XC@display\ifhmode\ifRTL\beginR\aftergroup\endL\fi\fi\ignorespaces}
19383 \DeclareRobustCommand\bidicolor
19384 {\ifnextchar[\@bidiundeclaredcolor\@bideclaredcolor}
19385 \def\@bidiundeclaredcolor[#1]#2%
19386 {\begingroup
19387  \let\@cls\@empty
19388  \XC@getmodclr12{#1}{#2}{}%
19389  {\ifblendcolors
19390    \ifx\colorblend\@empty\else
19391      \edef\@mix{\expandafter\@gobble\colorblend}\@tempwafalse
19392      \XC@coremodel\@mod\@clr\@xcolor@{}{}\@mod\@clr

```



```

19393     \fi
19394 \fi
19395 \ifconvertcolorsU
19396   \edef\@tmp{\XC@tgt@mod{\@mod}}%
19397   \convertcolorspec\@mod\@clr\@tmp\@clr \let\@mod\@tmp
19398 \fi
19399 \ifmaskcolors
19400   \convertcolorspec\@mod\@clr\XC@mmod\@clr
19401   \let\@mod\XC@mmod
19402   \XC@inflate\@mod\XC@mclr\@clr\@tmp
19403   \expandafter\XC@mul\@tmp,\@clr
19404 \fi
19405 \edef\@tmp{\noexpand\XC@bidiundeclaredcolor{\@mod}{\@clr}}%
19406 \expandafter\endgroup\@tmp}
19407 \def\XC@bidiundeclaredcolor#1#2%
19408 {\@ifundefinedmodel{#1}%
19409  {\c@lor@error{model `#1'}}%
19410  {\@nameuse{color#1}\current@color{#2}%
19411   \edef\XC@current@color{\noexpand\xcolor@{\current@color}{#1}{#2}}%
19412   \XC@display}}
19413 \def\@bidideclaredcolor#1%
19414 {\XC@edef\XC@tmp{#1}\XC@tstfalse
19415  \ifcase\XC@type\XC@tmp\relax \XC@tsttrue\or \relax\else
19416   \ifblendcolors\XC@tsttrue\fi \ifmaskcolors\XC@tsttrue\fi
19417   \ifconvertcolorsU\XC@tsttrue\fi
19418  \fi
19419  \ifXC@tst
19420   \expandafter\XC@bidideclaredcolor\else
19421   \expandafter\XC@bidideclaredc@lor\fi}
19422 \def\XC@bidideclaredcolor
19423 {\XC@split\XC@tmp
19424  \edef\@tmp{\noexpand\@bidiundeclaredcolor[\@mod]{\@clr}}%
19425  \expandafter\endgroup\@tmp}
19426 \def\XC@bidideclaredc@lor
19427 {\XC@let\Nc\XC@current@color{\string\color@\XC@tmp}%
19428  \edef\current@color{\XC@current@color}%
19429  \XC@display}
19430 \def\color@box#1#2{\color@b@x\relax{\bidicolor#1{#2}}}
19431 \def\color@fbbox#1#2#3{\protect\color@fb@x{#1}{#2}{#3}}
19432 \def\color@fb@x#1#2#3#4%
19433 {\color@b@x{\fbboxsep\z@\bidicolor#1{#2}\XC@fbbox}%
19434  {\@ifxempty{#3}{\bidicolor#1}{\bidicolor#3}{#4}}}
19435 \def\color@setgroup{\begingroup\ifhmode\if@RTL\beginL\aftergroup\endR\fi\fi\set@color\ifhmode

```

## 7.121 latex-xetex-bidi.def

```

19436 \ProvidesFile{latex-xetex-bidi.def}[2016/09/11 v1.2.8 bidi adaptations for `latex.ltx' for X
19437 \newcommand{\TeXXeTOn}{\TeXXeTstate=1 }
19438 \newcommand{\TeXXeTOff}{\TeXXeTstate=0 }
19439 \TeXXeTOn

```



```

19440 \def\ bidi@RTL@everypar{{\setbox\z@\lastbox\if@RTL\beginR\else\beginL\fi\ifvoid\z@\else\usebox
19441 \let\ bidi@o@everypar=\everypar
19442 \newtoks\ bidi@n@everypar
19443 \ bidi@n@everypar\expandafter{\the\ bidi@o@everypar}
19444 \ bidi@o@everypar{\ bidi@RTL@everypar\the\ bidi@n@everypar}
19445 \let\everypar=\ bidi@n@everypar
19446 \def\moreLRE{\bracetext \aftergroup\endL \beginL\@RTLfalse}
19447 \def\moreRLE{\bracetext \aftergroup\endR \beginR\@RTLtrue}
19448 \protected\def\ hboxR{\ hbox\ bgroup
19449 \everyhbox{%
19450 \aftergroup\egroup
19451 \everyhbox{}}%
19452 \beginR
19453 \@ hboxRconstructtrue
19454 \bgroup
19455 \aftergroup\endR
19456 \aftergroup\egroup
19457 }\ hbox}
19458 \protected\def\ hboxL{\ hbox\ bgroup
19459 \everyhbox{%
19460 \aftergroup\egroup
19461 \everyhbox{}}%
19462 \beginL
19463 \@ hboxRconstructfalse
19464 \bgroup
19465 \aftergroup\endL
19466 \aftergroup\egroup
19467 }\ hbox}
19468 \protected\def\ vboxR{\ vbox\ bgroup
19469 \everyvbox{%
19470 \aftergroup\egroup
19471 \everyvbox{}}%
19472 \@RTLtrue
19473 \@RTLtabtrue
19474 \bgroup
19475 \aftergroup\egroup
19476 }\ vbox}
19477 \protected\def\ vboxL{\ vbox\ bgroup
19478 \everyvbox{%
19479 \aftergroup\egroup
19480 \everyvbox{}}%
19481 \@RTLfalse
19482 \@RTLtabfalse
19483 \bgroup
19484 \aftergroup\egroup
19485 }\ vbox}
19486 \newcommand*{\ bidi@leftskip}{\if@RTL\righskip\else\leftskip\fi}
19487 \newcommand*{\ bidi@rightskip}{\if@RTL\leftskip\else\righskip\fi}
19488 \def\LTR{\par\@RTLfalse\@RTL@footnotefalse\@RTLtabfalse\hsize\linewidth\parshape\z@}
19489 \def\endLTR{\par}

```





```

19490 \def\RTL{\par\@RTLtrue\@RTL@footnotetrue\@RTL@tabtrue\hsize\linewidth\parshape\z@}
19491 \def\endRTL{\par}
19492 \def\setRTL{\@RTLtrue\@RTL@footnotetrue\@RTL@tabtrue}
19493 \def\setLTR{\@RTLfalse\@RTL@footnotefalse\@RTL@tabfalse}
19494 \let\unsetRTL=\setLTR
19495 \let\unsetLTR=\setRTL
19496 \let\LR=\LRE
19497 \let\RL=\RLE
19498 \def\@ensureRTL#1{\ifRTL#1\else\RLE{#1}\fi}
19499 \def\@ensureLTR#1{\ifRTL\LRE{#1}\else#1\fi}
19500 \let\@ensureRL=\@ensureRTL
19501 \let\@ensureLR=\@ensureLTR
19502 \def\@ensure@dir#1{\ifRTL\RLE{#1}\else{#1}\fi}
19503 \let\@ensure@maindir=\@ensure@dir
19504 \def\@RTL{RTL}
19505 \def\@LTR{LTR}
19506 \def\save@dir{\ifRTL\gdef\saved@dir{RTL}\else\gdef\saved@dir{LTR}\fi}
19507 \def\reset@dir{\ifx\saved@dir\@RTL\setRTL\else\ifx\saved@dir\@LTR\setLTR\else\relax\fi\fi}
19508 \let\@TeX\TeX
19509 \def\TeX{\@ensureLTR{\@TeX}}
19510 \let\@LaTeX\LaTeX
19511 \def\LaTeX{\@ensureLTR{\@LaTeX}}
19512 \let\@LaTeXe\LaTeXe
19513 \def\LaTeXe{\@ensureLTR{\@LaTeXe}}
19514 \long\def\@bidi@reflect@box#1{%
19515   \leavevmode
19516   \setbox\z@\hbox{#1}%
19517   \setbox\tw@\hbox{\special{x:gsave}\special{x:scale -1 1}\rlap{\copy\z@}\special{x:grestore}}
19518   \hb@xt@\wd\z@{\kern\wd\z@\box\tw@\hss}%
19519 }
19520 \bidi@newrobustcmd*{\XeTeX}{\LR{\leavevmode$\smash{\hbox{X\lower.5ex
19521   \hbox{\kern-.125em\@bidi@reflect@box{E}}\kern-.1667em \TeX}}$}}
19522 \bidi@newrobustcmd*{\XeLaTeX}{\LR{\leavevmode$\smash{\hbox{X\lower.5ex
19523   \hbox{\kern-.125em\@bidi@reflect@box{E}}\kern-.1667em \LaTeX}}$}}
19524 \let\setRL=\setRTL
19525 \let\setLR=\setLTR
19526 \let\unsetRL=\setLTR
19527 \def\@bidi@tabular@RTLcases{\let\@halignto\@empty\@bidi@tabular@RTLcases}
19528 \ifpackageloaded{array}{%
19529 \def\@bidi@tabular@RTLcases{\@RTL@tabtrue%
19530   \leavevmode
19531   \hbox \bgroup $\left.\col@sep\tabcolsep \let\dollarbegin\begin\group
19532   \let\dollarend\endgroup
19533   \@tabarray}
19534 \def\endbidi@tabular@RTLcases{\endarray \right\rbrace$\egroup}
19535 }{%
19536 \def\@bidi@tabular@RTLcases{\@RTL@tabtrue%
19537   \leavevmode \hbox \bgroup
19538   $\left.\let\@acol\@tabacol
19539   \let\@classz\@tabclassz

```



```

19540 \let\@classiv\@tabclassiv \let\\\@tabularcr\@tabarray}
19541
19542 \def\endbidi@tabular@RTLcases{\crrcr\egroup\if@RTLtab\egroup\endR\egroup\fi
19543 \egroup\right\rbrace $\egroup}}
19544 \def\RTLcases#1{\left.\vcenter{\normalbaselines\m@th
19545 \ialign{##\hfil$&\quad{##}\hfil\crrcr#1\crrcr}}\,,\right\}}
19546 \renewenvironment{RTLcases}{%
19547 \bidi@matrix@check\RTLcases\env@RTLcases
19548 }{%
19549 \endbidi@tabular@RTLcases%
19550 }
19551 \def\env@RTLcases{%
19552 \let\@ifnextchar\bidi@new@ifnextchar
19553 \def\arraystretch{1.2}%
19554 \bidi@tabular@RTLcases{\@{}r@{\quad}r@{}}%
19555 }
19556 \def\SepMark#1{\gdef\@SepMark{#1}}
19557 \SepMark{.}
19558 \def\@thmcountersep{\@SepMark}
19559 \def\setRTLbibitems{\@RTLbibitemstrue\@LTRbibitemsfalse}
19560 \def\setLTRbibitems{\@LTRbibitemstrue\@RTLbibitemsfalse}
19561 \def\setdefaultbibitems{\@RTLbibitemsfalse\@LTRbibitemsfalse}
19562 \def\list#1#2{%
19563 \ifnum \@listdepth >5\relax
19564 \toodeep
19565 \else
19566 \global\advance\@listdepth\@ne
19567 \fi
19568 \rightmargin\z@
19569 \listparindent\z@
19570 \itemindent\z@
19571 \csname @list\romannumeral\the\@listdepth\endcsname
19572 \def\@itemlabel{#1}%
19573 \let\makelabel\@mklab
19574 \@nmbrrlistfalse
19575 #2\relax
19576 \@trivlist
19577 \parskip\parsep
19578 \parindent\listparindent
19579 \advance\linewidth -\rightmargin
19580 \advance\linewidth -\leftmargin
19581 \if@bidi@list@minipage@parbox
19582 \if@RTL
19583 \advance\@totalleftmargin \leftmargin
19584 \else
19585 \advance\@totalleftmargin \rightmargin
19586 \fi
19587 \else
19588 \if@hboxRconstruct
19589 \if@bidi@list@minipage@parbox@not@nob

```



```

19590 \if@RTL
19591 \advance\@totalleftmargin \rightmargin
19592 \else
19593 \advance\@totalleftmargin \leftmargin
19594 \fi
19595 \else
19596 \if@RTL
19597 \advance\@totalleftmargin \leftmargin
19598 \else
19599 \advance\@totalleftmargin \rightmargin
19600 \fi\fi
19601 \else
19602 \if@RTL
19603 \advance\@totalleftmargin \rightmargin
19604 \else
19605 \advance\@totalleftmargin \leftmargin
19606 \fi\fi\fi
19607 \parshape \@ne \@totalleftmargin \linewidth
19608 \ignorespaces}
19609 \long\def\@iiparbox#1#2[#3]#4#5{%
19610 \leavevmode
19611 \@pboxswfalse
19612 \if@hboxRconstruct\@bidi@list@minipage@parbox@not@nobtrue\fi
19613 \if@RTL\if#1t\@bidi@list@minipage@parboxtrue\else\if#1b\@bidi@list@minipage@parboxtrue\fi\fi
19614 \setlength\@tempdima{#4}%
19615 \@begin@tempboxa\vbox{\hsize\@tempdima\@parboxrestore#5\@par}%
19616 \ifx\relax#2\else
19617 \setlength\@tempdimb{#2}%
19618 \edef\@parboxto{to\the\@tempdimb}%
19619 \fi
19620 \if#1b\vbox
19621 \else\if #1t\vtop
19622 \else\ifmmode\vcenter
19623 \else\@pboxswtrue $\vcenter
19624 \fi\fi\fi
19625 \@parboxto{\let\hss\vss\let\unhbox\unvbox
19626 \csname bm@#3\endcsname}%
19627 \if@pboxsw \m@th$\fi
19628 \@end@tempboxa}
19629 \def\bidi@lrbox#1{%
19630 \edef\reserved@a{%
19631 \endgroup
19632 \setbox#1\hbox{%
19633 \begingroup\aftergroup}%
19634 \def\noexpand\@currentvir{\@currentvir}%
19635 \def\noexpand\@currentvline{\on@line}}%
19636 \reserved@a
19637 \@endpefalse
19638 \color@begingroup
19639 \ignorespaces}

```



```

19640 \def\endbidi@lrbox{\unskip\color@endgroup}
19641 \newenvironment{LTRitems}
19642     {\par\@RTLfalse\@RTLtabfalse
19643     \if@bidi@list@minipage@parbox
19644     \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth
19645     \else \if@hboxRconstruct\if@bidi@list@minipage@parbox@not@nob
19646     \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\else
19647     \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\fi
19648     \else \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\fi}
19649     \ignorespaces}{\vskip\z@}
19650 \newenvironment{RTLitems}
19651     {\par\@RTLtrue\@RTLtabtrue
19652     \if@bidi@list@minipage@parbox
19653     \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth
19654     \else \if@hboxRconstruct\if@bidi@list@minipage@parbox@not@nob
19655     \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\else
19656     \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\fi
19657     \else \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\fi}
19658     \ignorespaces}{\vskip\z@}
19659 \newenvironment{LTRbibitems}
19660     {\par\@RTLfalse\@RTLtabfalse
19661     \if@bidi@list@minipage@parbox
19662     \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth
19663     \else \if@hboxRconstruct\if@bidi@list@minipage@parbox@not@nob
19664     \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\else
19665     \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\fi
19666     \else \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\fi}
19667     \ignorespaces}{\vskip\z@}
19668 \newenvironment{RTLbibitems}
19669     {\par\@RTLtrue\@RTLtabtrue
19670     \if@bidi@list@minipage@parbox
19671     \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth
19672     \else \if@hboxRconstruct\if@bidi@list@minipage@parbox@not@nob
19673     \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\else
19674     \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\fi
19675     \else \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\fi}
19676     \ignorespaces}{\vskip\z@}
19677 \def\raggedright{%
19678     \let\\\@centercr\@rightskip\@flushglue \rightskip\@rightskip
19679     \leftskip\z@skip
19680     \parindent\z@\parfillskip\z@skip}
19681 \let\bidi@orig@raggedleft\raggedleft
19682 \let\bidi@orig@raggedright\raggedright
19683 \renewcommand\raggedleft{\if@bidi@list@minipage@parbox\bidi@orig@raggedright\else\if@hboxRcon
19684 \renewcommand\raggedright{\if@bidi@list@minipage@parbox\bidi@orig@raggedleft\else\if@hboxRcon
19685 \newcommand{\bidi@raggedright}{\if@RTL\raggedleft\else\raggedright\fi}
19686 \newcommand{\bidi@raggedleft}{\if@RTL\raggedright\else\raggedleft\fi}
19687 \def\centerline#1{%
19688 \if@RTL\@@line{\hss\beginR#1\endR\hss}
19689 \else\@@line{\hss#1\hss}\fi}

```



```

19690 \def\leftline#1{%
19691 \if@RTL\@line{\beginR#1\endR\hss}
19692 \else\@line{#1\hss}\fi}
19693 \def\rightline#1{%
19694 \if@RTL\@line{\hss\beginR#1\endR}
19695 \else\@line{\hss#1}\fi}
19696 \let\bidiorig@leftline\leftline
19697 \let\bidiorig@rightline\rightline
19698 \def\leftline#1{\ifhmode\if@RTL\bidiorig@rightline{#1}\else\bidiorig@leftline{#1}\fi\else\i
19699 \def\rightline#1{\ifhmode\if@RTL\bidiorig@leftline{#1}\else\bidiorig@rightline{#1}\fi\else\i
19700 \def\bidirlap#1{\hb@xt@{z@}\if@RTL\hss\fi#1\if@RTL\else\hss\fi}}
19701 \def\bidillap#1{\hb@xt@{z@}\if@RTL\else\hss\fi#1\if@RTL\hss\fi}}
19702 \def\hangfrom#1\setbox\@tempboxa\hbox{#1}%
19703 \hangindent \if@RTL-\else\fi\wd\@tempboxa\noindent\box\@tempboxa}
19704 \def\narrower{%
19705 \advance\if@RTL\rightskip\else\leftskip\fi\parindent
19706 \advance\if@RTL\leftskip\else\rightskip\fi\parindent}
19707 \def\underline#1{%
19708 \relax
19709 \ifmmode\@underline{#1}%
19710 \else
19711 \if@RTL $\@underline{\hbox{\beginR#1\endR}}\m@th$\relax
19712 \else
19713 $\@underline{\hbox{#1}}\m@th$\relax\fi\fi}
19714 \if@compatibility
19715 \let\underline=\underline
19716 \fi
19717 \def\@tabular{%
19718 \leavevmode \hbox \bgroup \if@RTLtab\beginR \fi
19719 $\let\@acol\@tabacol
19720 \let\@classz\@tabclassz
19721 \let\@classiv\@tabclassiv \let\\\@tabularcr\@tabarray}
19722 \def\endtabular{\crrc\egroup\if@RTLtab\egroup\endR\egroup\fi
19723 \egroup $\if@RTLtab\endR\fi\egroup}
19724 \expandafter \let \csname endtabular*\endcsname = \endtabular
19725 \def\@array[#1]#2{%
19726 \if #1t\top \else \if#1b\vbox \else \vcenter \fi\fi
19727 \bgroup
19728 \setbox\@arstrutbox\hbox{%
19729 \vrule \@height\arraystretch\ht\strutbox
19730 \@depth\arraystretch \dp\strutbox
19731 \@width\z@}%
19732 \mkpream{#2}%
19733 \edef\@preamble{%
19734 \ialign \noexpand\@halignto
19735 \bgroup \@arstrut \@preamble \tabskip\z@skip \cr}%
19736 \let\@startpbox\@startpbox \let\@endpbox\@endpbox
19737 \let\tabularnewline\\%
19738 \let\par\empty
19739 \let\@sharp##%

```



```

19740 \set@typeset@protect
19741 \lineskip\z@skip\baselineskip\z@skip
19742 \ifhmode \@preamerr\z@ \@@par\fi
19743 \if@RTLtab\hbox\bgroup\beginR\@hboxRconstructtrue\if #1\vtop \else \vbox \fi\bgroup\fi
19744 \@preamble}
19745 \def\array{\let\@acol\@arrayacol \let\@classz\@arrayclassz
19746 \let\@classiv\@arrayclassiv
19747 \let\\\@arraycr\let\@halignto\@empty\@RTLtabfalse\@tabarray}
19748 \def\@testpach#1{\@chclass \ifnum \@lastchclass=\tw@ 4 \else
19749 \ifnum \@lastchclass=3 5 \else
19750 \z@ \if #1c\@chnum \z@ \else
19751 \if \if@RTLtab#1r\else#1l\fi\@chnum \@ne \else
19752 \if \if@RTLtab#1l\else#1r\fi\@chnum \tw@ \else
19753 \@chclass \if #1|\@ne \else
19754 \if #1@\tw@ \else
19755 \if #1p3 \else \z@ \@preamerr 0\fi
19756 \fi \fi \fi \fi \fi \fi
19757 \fi}
19758 \def\bm@l{\if@RTL\hss\unhbox\@tempboxa\else\unhbox\@tempboxa\hss\fi}
19759 \def\bm@r{\if@RTL\unhbox\@tempboxa\hss\else\hss\unhbox\@tempboxa\fi}
19760 \def\bm@t{\unhbox\@tempboxa\hss}
19761 \def\bm@b{\hss\unhbox\@tempboxa}
19762 \def\@dottedtocline#1#2#3#4#5{%
19763 \ifnum #1>\c@tocdepth \else
19764 \vskip \z@ \@plus.2\p@
19765 {\if@RTL\righskip\else\leftskip\fi #2\relax \if@RTL\leftskip\else\righskip\fi \@tocrmarg
19766 \parindent #2\relax\@afterindenttrue
19767 \interlinepenalty\@M
19768 \leavevmode
19769 \@tempdima #3\relax
19770 \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
19771 {#4}\nobreak
19772 \leaders\hbox{$\m@th
19773 \mkern \@dotsep mu\hbox{.}\mkern \@dotsep
19774 mu$}\hfill
19775 \nobreak
19776 \hb@xt@\@pnumwidth{\hfil\normalfont \normalcolor #5}}%
19777 \par}%
19778 \fi}
19779
19780
19781 \def\RTL@outputdblcol{%
19782 \if@firstcolumn
19783 \global\@firstcolumnfalse
19784 \global\setbox\@leftcolumn\copy\@outputbox
19785 \splitmaxdepth\maxdimen
19786 \vbadness\maxdimen
19787 \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
19788 \setbox\@outputbox\vsplit\@outputbox to\maxdimen
19789 \toks@\expandafter{\topmark}%

```



```

19790 \xdef\@firstcoltopmark{\the\toks@}%
19791 \toks@\expandafter{\splitfirstmark}%
19792 \xdef\@firstcolfirstmark{\the\toks@}%
19793 \ifx\@firstcolfirstmark\@empty
19794 \global\let\@setmarks\relax
19795 \else
19796 \gdef\@setmarks{%
19797 \let\firstmark\@firstcolfirstmark
19798 \let\topmark\@firstcoltopmark}%
19799 \fi
19800 \else
19801 \global\@firstcolumntrue
19802 \setbox\@outputbox\vbox{%
19803 \hb@xt@\textwidth{%
19804 \hskip \columnwidth
19805 \hfil
19806 {\normalcolor\vrule \@width\columnseprule}%
19807 \hfil
19808 \hb@xt@\columnwidth{\box\@leftcolumn \hss}%
19809 \hskip -\textwidth
19810 \hb@xt@\columnwidth{\box\@outputbox \hss}%
19811 \hskip \columnsep
19812 \hskip \columnwidth }}%
19813 \@combinedblfloats
19814 \@setmarks
19815 \@outputpage
19816 \begingroup
19817 \@dblfloatplacement
19818 \startdblcolumn
19819 \@whilesw\if@colmade \fi{\@outputpage
19820 \startdblcolumn}%
19821 \endgroup
19822 \fi}%
19823
19824 \def\LTR@outputdblcol{%
19825 \if@firstcolumn
19826 \global\@firstcolumnfalse
19827 \global\setbox\@leftcolumn\copy\@outputbox
19828 \splitmaxdepth\maxdimen
19829 \vbadness\maxdimen
19830 \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
19831 \setbox\@outputbox\vsplit\@outputbox to\maxdimen
19832 \toks@\expandafter{\topmark}%
19833 \xdef\@firstcoltopmark{\the\toks@}%
19834 \toks@\expandafter{\splitfirstmark}%
19835 \xdef\@firstcolfirstmark{\the\toks@}%
19836 \ifx\@firstcolfirstmark\@empty
19837 \global\let\@setmarks\relax
19838 \else
19839 \gdef\@setmarks{%

```



```

19840         \let\firstmark\@firstcolfirstmark
19841         \let\topmark\@firstcoltopmark}%
19842     \fi
19843 \else
19844     \global\@firstcolumntrue
19845     \setbox\@outputbox\vbox{%
19846         \hb@xt@\textwidth{%
19847             \hb@xt@\columnwidth{\box\@leftcolumn \hss}%
19848             \hfil
19849             {\normalcolor\vrule \@width\columnseprule}%
19850             \hfil
19851             \hb@xt@\columnwidth{\box\@outputbox \hss}}}%
19852 \@combinedblfloats
19853 \setmarks
19854 \outputpage
19855 \beginngroup
19856     \@dblfloatplacement
19857     \startdblcolumn
19858     \@whiles\if@fcolmade \fi{\@outputpage
19859         \startdblcolumn}%
19860 \endgroup
19861 \fi}%
19862
19863
19864 \renewcommand{\@outputdblcol}{\if@RTLmain\RTL@outputdblcol\else\LTR@outputdblcol\fi}
19865 \newcommand{\RTLdblcol}{\renewcommand{\@outputdblcol}{\RTL@outputdblcol}}
19866 \newcommand{\LTRdblcol}{\renewcommand{\@outputdblcol}{\LTR@outputdblcol}}
19867 \def\LTRmarginpar{%
19868     \ifhmode
19869         \bsphack
19870         \@floatpenalty -\@Mii
19871     \else
19872         \@floatpenalty-\@Miii
19873     \fi
19874     \ifinner
19875         \@parmoderr
19876         \@floatpenalty\z@
19877     \else
19878         \@next\@currbox\@freelist{}{}%
19879         \@next\@marbox\@freelist{\global\count\@marbox\m@ne}%
19880         {\@floatpenalty\z@
19881             \fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}}%
19882 \fi
19883 \ifnextchar [\@LTRxmpar\@LTRympar}
19884 \long\def\@LTRxmpar[#1]#2{%
19885     \@LTRsavemarbox\@marbox{#1}%
19886     \@LTRsavemarbox\@currbox{#2}%
19887     \@xympar}
19888 \long\def\@LTRympar#1{%
19889     \@LTRsavemarbox\@marbox{#1}%

```





```

19890 \global\setbox\@currbox\copy\@marbox
19891 \@xympar}
19892 \long\def \LTRsavemarbox #1#2{%
19893 \global\setbox #1%
19894 \color@vbox
19895 \vtop{%
19896 \hsize\marginparwidth
19897 \@parboxrestore
19898 \LTRmarginparreset
19899 #2%
19900 \@minipagefalse
19901 \outer@nobreak
19902 }%
19903 \color@endbox
19904 }
19905 \def \LTRmarginparreset {%
19906 \reset@font
19907 \normalsize
19908 \@minipagetrue
19909 \everypar{\@minipagefalse\everypar{}\beginL}%
19910 }
19911 \def \RTLmarginpar{%
19912 \ifhmode
19913 \@bsphack
19914 \@floatpenalty -\@Mii
19915 \else
19916 \@floatpenalty -\@Miii
19917 \fi
19918 \ifinner
19919 \@parmoderr
19920 \@floatpenalty\z@
19921 \else
19922 \@next\@currbox\@freelist{}\}%
19923 \@next\@marbox\@freelist{\global\count\@marbox\m@ne}%
19924 {\@floatpenalty\z@
19925 \@fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}%
19926 \fi
19927 \@ifnextchar [\@RTLxmpar\@RTLympar}
19928 \long\def\@RTLxmpar[#1]#2{%
19929 \RTLsavemarbox\@marbox{#1}%
19930 \RTLsavemarbox\@currbox{#2}%
19931 \@xympar}
19932 \long\def\@RTLympar#1{%
19933 \RTLsavemarbox\@marbox{#1}%
19934 \global\setbox\@currbox\copy\@marbox
19935 \@xympar}
19936 \long\def \RTLsavemarbox #1#2{%
19937 \global\setbox #1%
19938 \color@vbox
19939 \vtop{%

```



```

19940         \hsize\marginparwidth
19941         \@parboxrestore
19942         \@RTLmarginparreset
19943         #2%
19944         \@minipagefalse
19945         \outer@nobreak
19946     }%
19947     \color@endbox
19948 }
19949 \def \@RTLmarginparreset {%
19950     \reset@font
19951     \normalsize
19952     \@minipagetrue
19953     \everypar{\@minipagefalse\everypar{}\beginR}%
19954 }
19955 \def \@addmarginpar{\@next\@marbox\@currlist{\@cons\@freelist\@marbox
19956     \@cons\@freelist\@currbox}\@latexbug\@tempcnta\@ne
19957     \if@twocolumn
19958         \if@firstcolumn \@tempcnta\m@ne \fi
19959     \else
19960         \if@mparswitch
19961             \ifodd\c@page \else\@tempcnta\m@ne \fi
19962         \fi
19963         \if@reversemargin \@tempcnta -\@tempcnta \fi
19964     \fi
19965     \ifnum\@tempcnta <\z@ \global\setbox\@marbox\box\@currbox \fi
19966     \@tempdima\@mparbottom
19967     \advance\@tempdima -\@pageht
19968     \advance\@tempdima\ht\@marbox
19969     \ifdim\@tempdima >\z@
19970         \@latex@warning@no@line {Marginpar on page \thepage\space moved}%
19971     \else
19972         \@tempdima\z@
19973     \fi
19974     \global\@mparbottom\@pageht
19975     \global\advance\@mparbottom\@tempdima
19976     \global\advance\@mparbottom\dp\@marbox
19977     \global\advance\@mparbottom\marginparpush
19978     \advance\@tempdima -\ht\@marbox
19979     \global\setbox \@marbox
19980         \vbox {\vskip \@tempdima
19981             \box \@marbox}%
19982     \global \ht\@marbox \z@
19983     \global \dp\@marbox \z@
19984     \kern -\@pagedp
19985     \nointerlineskip
19986     \hb@xt@\columnwidth
19987         {\if@RTL\if@LTRmarginpar\beginL\else\beginR\fi\else\if@RTLmarginpar\beginR\else\beginL\fi
19988         \hskip\columnwidth \hskip\marginparsep
19989         \else

```



```

19990         \hskip -\marginparsep \hskip -\marginparwidth
19991     \fi
19992     \box\@marbox \hss\if@RTL\if@LTRmarginpar\endL\else\endR\fi\else\if@RTLmarginpar\endR\else\endL\fi
19993     \nointerlineskip
19994     \hbox{\vrule \@height\z@ \@width\z@ \@depth\@pagedp}}
19995 \long\def\@ympar#1{%
19996     \@savemarbox\@marbox{\if@RTL\if@LTRmarginpar\@RTLfalse\else\@RTLtrue\fi\else\if@RTLmarginpar\@RTLfalse\else\@RTLtrue\fi}
19997     \global\setbox\@currbox\copy\@marbox
19998     \@xympar}
19999 \def\setRTLmarginpar{\@RTLmarginpartrue\@LTRmarginparfalse}
20000 \def\setLTRmarginpar{\@LTRmarginpartrue\@RTLmarginparfalse}
20001 \def\setdefaultmarginpar{\@RTLmarginparfalse\@LTRmarginparfalse}
20002 \def\@stopline{\unskip\@stopfield\if@rjfield \global\@rjfieldfalse
20003     \@tempdima\@totalleftmargin \advance\@tempdima\linewidth
20004     \hbox to\@tempdima{\if@RTL\beginR\fi\@itemfudge\hskip\dimen\@curtabmar
20005         \box\@curline\hfil\box\@curfield\if@RTL\endR\fi}\else\@addfield
20006         \hbox to\linewidth{\if@RTL\beginR\fi\@itemfudge
20007         \hskip\dimen\@curtabmar\box\@curline\hfil\if@RTL\endR\fi}}%
20008 \fi}
20009
20010 \newcommand*{\bidi@font@@outputpage}{}
20011
20012 \def\@outputpage{%
20013     \begingroup           % the \endgroup is put in by \aftergroup
20014     \let \protect \noexpand
20015     \@resetactivechars
20016     \global\let\@if@newlist\if@newlist
20017     \global\@newlistfalse
20018     \@parboxrestore
20019     \shipout \vbox{%
20020         \set@typeset@protect
20021         \aftergroup \endgroup
20022         \aftergroup \set@typeset@protect
20023         % correct? or just restore by ending
20024         % the group?
20025     \if@specialpage
20026         \global\@specialpagefalse\@nameuse{ps@\@specialstyle}%
20027     \fi
20028     \if@twoside
20029         \ifodd\count\z@ \let\@thehead\@oddhead \let\@thefoot\@oddfoot
20030         \if@RTLmain
20031             \let\@themargin\evensidemargin
20032         \else
20033             \let\@themargin\oddsidemargin
20034         \fi
20035     \else \let\@thehead\@evenhead \let\@thefoot\@evenfoot
20036     \if@RTLmain
20037         \let\@themargin\oddsidemargin
20038     \else
20039         \let\@themargin\evensidemargin

```



```

20040     \fi
20041   \fi
20042   \ifx\@thehead\@empty \let\@thehead\hfil \fi
20043   \ifx\@thefoot\@empty \let\@thefoot\hfil \fi
20044   \else %% not @twoside
20045   \ifx\@oddhead\@empty \let\@thehead\hfil \fi
20046   \ifx\@oddfoot\@empty \let\@thefoot\hfil \fi
20047 \fi
20048 \reset@font
20049 \normalsize
20050 \bidi@font@@outputpage
20051 \normalsfcodes
20052 \let\label\@gobble
20053 \let\index\@gobble
20054 \let\glossary\@gobble
20055 \baselineskip\z@skip \lineskip\z@skip \lineskiplimit\z@
20056 \@begindvi
20057 \vskip \topmargin
20058 \moveright\@themargin \vbox {%
20059   \setbox\@tempboxa \vbox to\headheight{%
20060     \vfil
20061     \color@hbox
20062     \normalcolor
20063     \hb@xt@\textwidth{\if@RTLmain\@RTLtrue\beginR\else\@RTLfalse\beginL\fi\@thehead\if@
20064     \color@endbox
20065     }%
20066     \dp\@tempboxa \z@
20067     \box\@tempboxa
20068     \vskip \headsep
20069     \box\@outputbox
20070     \baselineskip \footskip
20071     \color@hbox
20072     \normalcolor
20073     \hb@xt@\textwidth{\if@RTLmain\@RTLtrue\beginR\else\@RTLfalse\beginL\fi\@thefoot\if@
20074     \color@endbox
20075     }%
20076   }%
20077 \global\let\if@newlist\@if@newlist
20078 \global \colht \textheight
20079 \stepcounter{page}%
20080 \let\firstmark\botmark
20081 }
20082 \long\def\@makecaption#1#2{%
20083   \vskip\abovecaptionskip
20084   \sbox\@tempboxa{#1: #2}%
20085   \ifdim \wd\@tempboxa >\hsize
20086     \if@RTL\beginR\fi#1: #2\if@RTL\endR\fi\par
20087   \else
20088     \global \minipagefalse
20089     \hb@xt@\hsize{\if@RTL\beginR\fi\hfil\box\@tempboxa\hfil\if@RTL\endR\fi}%

```



```

20090 \fi
20091 \vskip\belowcaptionskip}
20092 \let\bidisaved@eqno=\eqno
20093 \let\bidisaved@leqno=\leqno
20094 \def\eqno{\ifnum\predisplaydirection<\z@ \bidisaved@leqno \else \bidisaved@eqno \fi}
20095 \def\leqno{\ifnum\predisplaydirection<\z@ \bidisaved@eqno \else \bidisaved@leqno \fi}
20096 \ifpackageloaded{amsmath}{}{}
20097 \def\@eqnnum{\normalfont \normalcolor \if@RTL\beginR\fi(\theequation)\if@RTL\endR\fi}
20098 }
20099 \input{footnote-xetex-bidi.def}
20100 \if@twocolumn
20101 \let\autofooterule\relax
20102 \let\leftfootnoterule\relax
20103 \let\rightfootnoterule\relax
20104 \textwidthfootnoterule
20105 \fi
20106 \if@bidi@csundef{@idxitem}{}{}%
20107 \renewcommand\@idxitem{\par\hangindent \if@RTL-\fi40\p@}%
20108 }
20109 \ifpackageloaded{tocbasic}{\input{tocbasic-xetex-bidi.def}}{}
20110 \ifclassloaded{article}{\ifclassloaded{svmult}}{\input{article-xetex-bidi.def}}{}
20111 \ifclassloaded{extarticle}{\input{extarticle-xetex-bidi.def}}{}
20112 \ifclassloaded{artikel1}{\input{artikel1-xetex-bidi.def}}{}
20113 \ifclassloaded{artikel2}{\input{artikel2-xetex-bidi.def}}{}
20114 \ifclassloaded{artikel3}{\input{artikel3-xetex-bidi.def}}{}
20115 \ifclassloaded{amsart}{\input{amsart-xetex-bidi.def}}{}
20116 \ifclassloaded{letter}{\input{letter-xetex-bidi.def}}{}
20117 \ifclassloaded{scrlettr}{\input{scrlettr-xetex-bidi.def}}{}
20118 \ifclassloaded{extletter}{\input{extletter-xetex-bidi.def}}{}
20119 \ifclassloaded{memoir}{\input{memoir-xetex-bidi.def}}{}
20120 \ifclassloaded{refrep}{\input{refrep-xetex-bidi.def}}{}
20121 \ifclassloaded{extreport}{\input{extreport-xetex-bidi.def}}{}
20122 \ifclassloaded{report}{\ifpackageloaded{flowfram}}{\input{report-xetex-bidi.def}}{}
20123 \ifclassloaded{rapport1}{\input{rapport1-xetex-bidi.def}}{}
20124 \ifclassloaded{rapport3}{\input{rapport3-xetex-bidi.def}}{}
20125 \ifclassloaded{scrartcl}{\input{scrartcl-xetex-bidi.def}}{}
20126 \ifclassloaded{scrbook}{\input{scrbook-xetex-bidi.def}}{}
20127 \ifclassloaded{scrreprt}{\input{scrreprt-xetex-bidi.def}}{}
20128 \ifclassloaded{amsbook}{\input{amsbook-xetex-bidi.def}}{}
20129 \ifclassloaded{extbook}{\input{extbook-xetex-bidi.def}}{}
20130 \ifclassloaded{boek}{\input{boek-xetex-bidi.def}}{}
20131 \ifclassloaded{boek3}{\input{boek3-xetex-bidi.def}}{}
20132 \ifclassloaded{book}{\ifpackageloaded{flowfram}}{\input{book-xetex-bidi.def}}{}
20133 \ifclassloaded{bookest}{\input{bookest-xetex-bidi.def}}{}
20134 \ifclassloaded{combine}{\input{combine-xetex-bidi.def}}{}
20135 \ifpackageloaded{amsmath}{}{}%
20136 \iftagsloaded{leqno}{\input{leqno-xetex-bidi.def}}{}
20137 \iftagsloaded{fleqn}{\input{fleqn-xetex-bidi.def}}{}
20138 }
20139 \ifpackageloaded{mathtools}{\RequirePackage{graphicx}}{}

```



```

20140 \@ifpackageloaded{crop}{\RequirePackage{graphicx}}{}
20141 \@ifpackageloaded{sidecap}{\RequirePackage{ragged2e}}{}
20142 \@ifpackageloaded{floatrow}{\RequirePackage{color}}{}
20143 \@ifpackageloaded{algorithm2e}{\input{algorithm2e-xetex-bidi.def}}{}
20144 \@ifpackagewith{algorithm2e}{algonl}{%
20145 \renewcommand{\theAlgoLine}{\expandafter\csname the\algocf@float\endcsname\@SepMark\arabic{Al
20146 }}{}
20147 \@ifpackagewith{algorithm2e}{algotpart}{\renewcommand{\algocf@within}{part}}{}
20148 \@ifpackagewith{algorithm2e}{algotchapter}{\renewcommand{\algocf@within}{chapter}}{}
20149 \@ifpackagewith{algorithm2e}{algotsection}{\renewcommand{\algocf@within}{section}}{}
20150 \@ifpackageloaded{amsmath}{\input{amsmath-xetex-bidi.def}}{}
20151 \@ifpackageloaded{amstext}{\input{amstext-xetex-bidi.def}}{}
20152 \@ifpackageloaded{amsthm}{\input{amsthm-xetex-bidi.def}}{}
20153 \@ifpackageloaded{animate}{\input{animate-xetex-bidi.def}}{}
20154 \@ifpackageloaded{breqn}{\input{breqn-xetex-bidi.def}}{}
20155 \@ifpackageloaded{cals}{\input{cals-xetex-bidi.def}}{}
20156 \@ifpackageloaded{caption}{\input{caption-xetex-bidi.def}}{}
20157 \@ifpackageloaded{caption3}{\input{caption3-xetex-bidi.def}}{}
20158 \@ifpackageloaded{floatrow}{\input{floatrow-xetex-bidi.def}}{}
20159 \@ifpackageloaded{crop}{\@ifclassloaded{memoir}{\input{crop-xetex-bidi.def}}{}}
20160 \@ifpackageloaded{color}{\input{color-xetex-bidi.def}}{}
20161 \@ifpackageloaded{cutwin}{\input{cutwin-xetex-bidi.def}}{}
20162 \@ifpackageloaded{cuted}{\input{cuted-xetex-bidi.def}}{}
20163 \@ifpackageloaded{xcolor}{\input{xcolor-xetex-bidi.def}}{}
20164 \@ifpackageloaded{colortbl}{\input{colortbl-xetex-bidi.def}}{}
20165 \@ifpackageloaded{float}{\@ifpackageloaded{floatrow}{\input{float-xetex-bidi.def}}{}}
20166 \@ifpackageloaded{flowfram}{\input{flowfram-xetex-bidi.def}}{}
20167 \@ifpackageloaded{xltextra}{\input{xltextra-xetex-bidi.def}}{}
20168 \@ifpackageloaded{wrapfig}{\input{wrapfig-xetex-bidi.def}}{}
20169 \@ifpackageloaded{graphicx}{\input{graphicx-xetex-bidi.def}}{}
20170 \@ifpackageloaded{geometry}{\input{geometry-xetex-bidi.def}}{}
20171 \@ifpackageloaded{hvfloater}{\input{hvfloater-xetex-bidi.def}}{}
20172 \@ifpackageloaded{ntheorem}{\input{ntheorem-xetex-bidi.def}}{}
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20174 \@ifpackageloaded{longtable}{\input{longtable-xetex-bidi.def}}{}
20175 \@ifpackageloaded{hyperref}{\input{hyperref-xetex-bidi.def}}{}
20176 \@ifpackageloaded{ntheorem-hyper}{\input{ntheorem-hyper-xetex-bidi.def}}{}
20177 \@ifpackageloaded{fancybox}{\input{fancybox-xetex-bidi.def}}{}
20178 \@ifpackageloaded{fancyhdr}{\input{fancyhdr-xetex-bidi.def}}{}
20179 \@ifpackageloaded{fix2col}{\input{fix2col-xetex-bidi.def}}{}
20180 \@ifpackageloaded{ftnright}{\input{ftnright-xetex-bidi.def}}{}
20181 \@ifpackageloaded{midfloat}{\input{midfloat-xetex-bidi.def}}{}
20182 \@ifpackageloaded{draftwatermark}{\input{draftwatermark-xetex-bidi.def}}{}
20183 \@ifpackageloaded{dblfnote}{\input{dblfnote-xetex-bidi.def}}{}
20184 \@ifpackageloaded{eso-pic}{\input{eso-pic-xetex-bidi.def}}{}
20185 \@ifpackageloaded{empheq}{\input{empheq-xetex-bidi.def}}{}
20186 \@ifpackageloaded{framed}{\input{framed-xetex-bidi.def}}{}
20187 \@ifpackageloaded{overpic}{\input{overpic-xetex-bidi.def}}{}
20188 \@ifpackageloaded{pdfpages}{\input{pdfpages-xetex-bidi.def}}{}
20189 \@ifpackageloaded{lettrine}{\input{lettrine-xetex-bidi.def}}{}

```



```

20190 \ifpackageloaded{listings}{\input{listings-xetex-bidi.def}}{}
20191 \ifpackageloaded{media9}{\RequirePackage{bidi-media9}}{}
20192 \iftexfileloaded{pstricks}{\input{pstricks-xetex-bidi.def}}{}
20193 \iftexfileloaded{pgfcorescopes.code}{\input{pgfcorescopes.code-xetex-bidi.def}}{}
20194 \ifpackageloaded{titlesec}{\input{titlesec-xetex-bidi.def}}{}
20195 \ifpackageloaded{titletoc}{\input{titletoc-xetex-bidi.def}}{}
20196 \ifpackageloaded{array}{\input{array-xetex-bidi.def}}{}
20197 \ifpackageloaded{sidecap}{\input{sidecap-xetex-bidi.def}}{}
20198 \ifpackagewith{sidecap}{innercaption}{%
20199 \if@RTL \renewcommand*{\SC@FLOAT}[2]{%
20200 \isSC@ODD{#2}\hspace{\sidecaptionsep}{#1}} {{#1}\hspace{\sidecaptionsep}{#2}}
20201 \renewcommand*{\SC@justify@caption{%
20202 \isSC@ODD{\RaggedRight}{\RaggedLeft}}\else
20203 \renewcommand*{\SC@FLOAT}[2]{%
20204 \isSC@ODD{#1}\hspace{\sidecaptionsep}{#2}} {{#2}\hspace{\sidecaptionsep}{#1}}
20205 \renewcommand*{\SC@justify@caption{%
20206 \isSC@ODD{\RaggedLeft}{\RaggedRight}}\fi
20207 }{}
20208 \ifpackagewith{sidecap}{rightcaption}{%
20209 \if@RTL\renewcommand*{\SC@FLOAT}[2]{{#1}\hspace{\sidecaptionsep}{#2}}
20210 \def\SC@justify@caption{\RaggedLeft}\else%
20211 \renewcommand*{\SC@FLOAT}[2]{{#2}\hspace{\sidecaptionsep}{#1}}
20212 \def\SC@justify@caption{\RaggedRight}\fi%
20213 }{}
20214 \ifpackagewith{sidecap}{leftcaption}{%
20215 \if@RTL \renewcommand*{\SC@FLOAT}[2]{{#2}\hspace{\sidecaptionsep}{#1}}
20216 \def\SC@justify@caption{\RaggedRight}\else%
20217 \renewcommand*{\SC@FLOAT}[2]{{#1}\hspace{\sidecaptionsep}{#2}}
20218 \def\SC@justify@caption{\RaggedLeft}\fi%
20219 }{}
20220 \ifpackageloaded{soul}{\input{soul-xetex-bidi.def}}{}
20221 \ifpackageloaded{stabular}{\input{stabular-xetex-bidi.def}}{}
20222 \ifpackageloaded{subfigure}{\input{subfigure-xetex-bidi.def}}{}
20223 \ifpackageloaded{arydshln}{\input{arydshln-xetex-bidi.def}}{}
20224 \ifpackageloaded{mdframed}{\input{mdframed-xetex-bidi.def}}{}
20225 \ifpackageloaded{multicol}{\input{multicol-xetex-bidi.def}}{}
20226 \ifpackageloaded{adjmulticol}{\input{adjmulticol-xetex-bidi.def}}{}
20227 \ifpackageloaded{multienum}{\input{multienum-xetex-bidi.def}}{}
20228 \ifpackageloaded{natbib}{\input{natbib-xetex-bidi.def}}{}
20229 \ifpackageloaded{newfloat}{\input{newfloat-xetex-bidi.def}}{}
20230 \ifpackageloaded{minitoc}{\input{minitoc-xetex-bidi.def}}{}
20231 \ifpackageloaded{picinpar}{\input{picinpar-xetex-bidi.def}}{}
20232 \ifpackageloaded{quotchap}{\input{quotchap-xetex-bidi.def}}{}
20233 \ifpackageloaded{ragged2e}{\input{ragged2e-xetex-bidi.def}}{}
20234 \ifpackageloaded{rotating}{\input{rotating-xetex-bidi.def}}{}
20235 \ifpackageloaded{tabls}{\input{tabls-xetex-bidi.def}}{}
20236 \ifpackageloaded{tabulary}{\input{tabulary-xetex-bidi.def}}{}
20237 \ifpackageloaded{tocstyle}{\input{tocstyle-xetex-bidi.def}}{}
20238 \ifpackageloaded{tocbibind}{\ifclassloaded{memoir}}{\input{tocbibind-xetex-bidi.def}}{}
20239 \ifpackageloaded{tocloft}{\ifclassloaded{memoir}}{\input{tocloft-xetex-bidi.def}}{}

```



```

20240 \ifdefinitionfileloaded{tc-xetex}{\input{tc-xetex-bidi.def}}{}
20241 \ifpackageloaded{todonotes}{\input{todonotes-xetex-bidi.def}}{}

```

## 7.122 xltextra-xetex-bidi.def

```

20242 \ProvidesFile{xltextra-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for xltextra package fo
20243 \let\@XeTeX\XeTeX
20244 \def\XeTeX{\@ensure@LTR{\@XeTeX}}
20245 \let\@XeLaTeX\XeLaTeX
20246 \def\XeLaTeX{\@ensure@LTR{\@XeLaTeX}}

```

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