



# The bidi *Package*

Documentation for *version 3.1.0*

*to my Master, Ferdowsi The Great*

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<https://github.com/tex-xet/bidi/issues>

In doing so, please always explain your issue well enough, always include a minimal working example showing the issue, and always choose the appropriate label for your query (i.e. if you are reporting any bugs, choose 'Bug' label).

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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 31.0](#)

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## Introduction

bidi provides a convenient interface for typesetting bidirectional texts in plain TeX and L<sup>A</sup>T<sub>E</sub>X, using the XeTeX engine.

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

If you use bidi package to write any input 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
*
* 2017/08/15, v31.0
*
* 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

# L<sup>A</sup>T<sub>E</sub>X 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 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.

### 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  $\text{\LaTeX}$  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.

`\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.

### 1.11 RTL cases

```
\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 scenario 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}[2017/08/09 v1.1 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 \reset@font%
38 \bidi@footnotetext@font% \normalfont\footnotesize
39 \interlinepenalty\interfootnotelinepenalty
40 \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
41 \floatingpenalty\@MM \hsize\columnwidth
42 \@parboxrestore \parindent\normalparindent \sloppy
43 \protected@edef\@currentlabel{%
44 \csname p@footnote\endcsname\@thefnmark}%
45 \@makefnfntext{%
46 \rule{z@\footnotesep\ignorespaces#1\unskip\strut\par}}
47
48 \long\def\@RTLfootnotetext#1{%
49 \insert\footins{%
50 \@RTLtrue%
51 \reset@font%
52 \bidi@RTLfootnotetext@font% \normalfont\footnotesize
53 \interlinepenalty\interfootnotelinepenalty
54 \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
55 \floatingpenalty\@MM \hsize\columnwidth
56 \@parboxrestore \parindent\normalparindent \sloppy
57 \protected@edef\@currentlabel{%
58 \csname p@footnote\endcsname\@thefnmark}%
59 \@makefnfntext{%
60 \rule{z@\footnotesep\ignorespaces#1\unskip\strut\par}}}
61
62
63
64 \long\def\@LTRfootnotetext#1{%
65 \insert\footins{%
66 \@RTLfalse%
67 \reset@font%
68 \bidi@LTRfootnotetext@font% \normalfont\footnotesize
69 \interlinepenalty\interfootnotelinepenalty
70 \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
71 \floatingpenalty\@MM \hsize\columnwidth
72 \@parboxrestore \parindent\normalparindent \sloppy
73 \protected@edef\@currentlabel{%
74 \csname p@footnote\endcsname\@thefnmark}%
75 \@makefnfntext{%
76 \rule{z@\footnotesep\ignorespaces#1\unskip\strut\par}}}
77
78
79 \footdir@temp\footdir@ORG@bidi@amsart@footnotetext\@footnotetext{\bidi@footdir@footnote}%
80 \footdir@temp\footdir@ORG@bidi@amsart@RTLfootnotetext\@RTLfootnotetext{R}%
81 \footdir@temp\footdir@ORG@bidi@amsart@LTRfootnotetext\@LTRfootnotetext{L}%
82
83 \renewenvironment{thebibliography}[1]{%
84 \@bibtittlestyle
85 \normalfont\bibliofont\labelsep .5em\relax

```



```

86 \renewcommand\theenumiv{\arabic{enumiv}}\let\p@enumiv\@empty
87 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
88 \bidi@thebibliography@font@hook%
89 \list{\@biblabel{\theenumiv}}{\settowidth\labelwidth{\@biblabel{#1}}%
90 \leftmargin\labelwidth \advance\leftmargin\labelsep
91 \usecounter{enumiv}}%
92 \sloppy \clubpenalty\@M \widowpenalty\clubpenalty
93 \sfcode\.\@m
94 }{%
95 \def\@noitemerr{\@latex@warning{Empty `thebibliography' environment}}%
96 \endlist
97 }
98 \def\theindex{\@restonecoltrue\if@twocolumn\@restonecolfalse\fi
99 \columnseprule\z@ \columnsep 35\p@
100 \@indextitlestyle
101 \thispagestyle{plain}%
102 \let\item\@idxitem
103 \parindent\z@ \parskip\z@\@plus.3\p@\relax
104 \if@RTL\raggedleft\else\raggedright\fi
105 \hyphenpenalty\@M
106 \footnotesize}
107 \def\@idxitem{\par\hangindent \if@RTL-\fi2em}
108 \def\subitem{\par\hangindent \if@RTL-\fi2em\hspace*{1em}}
109 \def\subsubitem{\par\hangindent \if@RTL-\fi3em\hspace*{2em}}
110 \def\maketitle{\par
111 \topnum\z@ % this prevents figures from falling at the top of page 1
112 \setcopyright
113 \thispagestyle{firstpage}% this sets first page specifications
114 \uppercase\shorttitle
115 \ifx\@empty\shortauthors \let\shortauthors\shorttitle
116 \else \andify\shortauthors
117 \fi
118 \@maketitle@hook
119 \begingroup
120 \@maketitle
121 \toks@{\xp{\shortauthors}\@temptokena\xp{\shorttitle}}%
122 \toks4{\def\{\ \ignorespaces}}% defend against questionable usage
123 \edef\@tempa{%
124 \nx\markboth{\the\toks4
125 \nx\MakeUppercase{\the\toks@}}{\the\@temptokena}}%
126 \@tempa
127 \endgroup
128 \c@footnote\z@
129 \cleartopmattertags
130 }

```

## 7.2 adjmulticol-xetex-bidi.def

```

131 \ProvidesFile{adjmulticol-xetex-bidi.def}[2015/04/25 v0.1 bidi adaptations for adjmulticol pa
132 \def\adjmulticols#1#2#3{\col@number#1\relax

```



```

133 \def\@tempa{#2}%
134 \ifx\@tempa\@empty\adjmc@inner\z@\else\adjmc@inner#2\fi
135 \def\@tempa{#3}%
136 \ifx\@tempa\@empty\adjmc@outer\z@\else\adjmc@outer#3\fi
137 \ifnum\col@number<\@ne
138   \PackageWarning{adjmulticol}%
139     {Using ``\number\col@number'
140      columns doesn't seem a good idea.^^J
141      I therefore use one columns instead}%
142   \col@number\@ne\fi
143 \ifnum\col@number>10
144   \PackageError{adjmulticol}%
145     {Too many columns}%
146     {Current implementation doesn't
147      support more than 10 columns.%
148     \MessageBreak
149     I therefore use 10 columns instead}%
150   \col@number10 \fi
151 \ifx\@footnotetext\mult@footnotetext\else
152   \let\orig@footnotetext\@footnotetext
153   \let\@footnotetext\mult@footnotetext
154 \fi
155 \ifx\@LTRfootnotetext\mult@LTRfootnotetext\else
156   \let\orig@LTRfootnotetext\@LTRfootnotetext
157   \let\@LTRfootnotetext\mult@LTRfootnotetext
158 \fi
159 \ifx\@RTLfootnotetext\mult@RTLfootnotetext\else
160   \let\orig@RTLfootnotetext\@RTLfootnotetext
161   \let\@RTLfootnotetext\mult@RTLfootnotetext
162 \fi
163 \@ifnextchar[\adjmult@cols{\adjmult@cols[]}]{}
164 \let\adjmc@page@sofar@orig=\page@sofar

```

### 7.3 algorithm2e-xetex-bidi.def

```

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

```



```

180 \hbox to\algowidth\bgroup\hbox to \algomargin{\hfill}\vtop\bgroup%
181 \ifthenelse{\boolean{algocf@slide}}{\parskip 0.5ex\color{black}}{}%
182 % initialization
183 \addtolength{\hspace}{-1.5\algomargin}%
184 \let\@mathsemicolon=\;\def\;\{\ifmmode\@mathsemicolon\else\@endalgo\n\fi}%
185 \raggedright\AlFnt{}%
186 \ifthenelse{\boolean{algocf@slide}}{\IncMargin{\skipalgocfslide}}{}%
187 \@algoinsideskip%
188 % \let\@emathdisplay=\]\def\]\{\algocf@endline\@emathdisplay\nl}%
189 }%
190 \renewcommand{\@algocf@finish}{%
191 \@algoinsideskip%
192 \egroup%end of vtop which contain all the text
193 \hfill\egroup%end of hbox which contains [margin][vtop]
194 \ifthenelse{\boolean{algocf@slide}}{\DecMargin{\skipalgocfslide}}{}%
195 %
196 \egroup%end of main vbox
197 \end{bidi@lrbox}%
198 \algocf@makethealgo% print the algo
199 \@algoskip%
200 % restore dimension and macros
201 \setlength{\hspace}{\algowidth}%
202 \lineskip\normallineskip\setlength{\skiptotal}{\@defaultskiptotal}%
203 \let\;=\@mathsemicolon%
204 \let\]=\@emathdisplay%
205 }%

```

## 7.4 amsbook-xetex-bidi.def

```

206 \ProvidesFile{amsbook-xetex-bidi.def}[2017/08/09 v1.2 bidi adaptations for amsbook class for
207 \def\@tocline#1#2#3#4#5#6#7{\relax
208 \ifnum #1>\c@tocdepth % then omit
209 \else
210 \par \addpenalty\@secpenalty\addvspace{#2}%
211 \begingroup \hyphenpenalty\@M
212 \@ifempty{#4}{%
213 \@tempdima\csname r@tocindent\number#1\endcsname\relax
214 }{%
215 \@tempdima#4\relax
216 }%
217 \parindent\z@ \if@RTL\righskip\else\leftskip\fi#3\relax \advance\if@RTL\righskip\else\leftskip\fi#3\relax
218 \if@RTL\leftskip\else\righskip\fi\@pnumwidth plus4em \parfillskip-\@pnumwidth
219 #5\leavevmode\hskip-\@tempdima #6\nobreak\relax
220 \hfil\hbox to\@pnumwidth{\@tocpagenum{#7}}\par
221 \nobreak
222 \endgroup
223 \fi}
224 \renewcommand\thesubsection {\thesection\@SepMark\arabic{subsection}}
225 \renewcommand\thesubsubsection {\thesubsection \@SepMark\arabic{subsubsection}}
226 \renewcommand\theparagraph {\thesubsubsection\@SepMark\arabic{paragraph}}

```





```

227 \renewcommand\thesubparagraph {\theparagraph\@SepMark\arabic{subparagraph}}
228 \def\theindex{\@restonecoltrue\if@twocolumn\@restonecolfalse\fi
229 \columnseprule\z@ \columnsep 35\p@
230 \@indextitlestyle
231 \thispagestyle{plain}%
232 \let\item\@idxitem
233 \parindent\z@ \parskip\z@\@plus.3\p@\relax
234 \if@RTL\raggedleft\else\raggedright\fi
235 \hyphenpenalty\@M
236 \footnotesize}
237 \def\@idxitem{\par\hangindent \if@RTL-\fi2em}
238 \def\subitem{\par\hangindent \if@RTL-\fi2em\hspace*{1em}}
239 \def\subsubitem{\par\hangindent \if@RTL-\fi3em\hspace*{2em}}
240 \def\right@footnoterule{%
241 \kern-.4\p@
242 \hbox to \columnwidth{\hskip \dimexpr\columnwidth-5pc\relax \hrulefill }
243 \kern11\p@\kern-\footnotesep}
244 \def\left@footnoterule{\kern-.4\p@
245 \hrule\@width 5pc\kern11\p@\kern-\footnotesep}
246
247 \long\def\@footnotetext#1{%
248 \insert\footins{%
249 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
250 \reset@font%
251 \bidi@@footnotetext@font% \normalfont\footnotesize
252 \interlinepenalty\interfootnotelinepenalty
253 \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
254 \floatingpenalty\@MM \hsize\columnwidth
255 \@parboxrestore \parindent\normalparindent \sloppy
256 \protected@edef\@currentlabel{%
257 \csname p@footnote\endcsname\@thefnmark}%
258 \@makefnintext{%
259 \rule\z@\footnotesep\ignorespaces#1\unskip\strut\par}}}}
260
261 \long\def\@RTLfootnotetext#1{%
262 \insert\footins{%
263 \@RTLtrue%
264 \reset@font%
265 \bidi@@RTLfootnotetext@font% \normalfont\footnotesize
266 \interlinepenalty\interfootnotelinepenalty
267 \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
268 \floatingpenalty\@MM \hsize\columnwidth
269 \@parboxrestore \parindent\normalparindent \sloppy
270 \protected@edef\@currentlabel{%
271 \csname p@footnote\endcsname\@thefnmark}%
272 \@makefnintext{%
273 \rule\z@\footnotesep\ignorespaces#1\unskip\strut\par}}}}
274
275
276 \long\def\@LTRfootnotetext#1{%

```



```

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

```

```

327 \endgroup
328 \c@footnote\z@
329 \def\do##1{\let##1\relax}%
330 \do\maketitle \do\@maketitle \do\title \do\@xtitle \do\@title
331 \do\author \do\@xauthor \do\address \do\@xaddress
332 \do\email \do\@xemail \do\curraddr \do\@xcurraddr
333 \do\dedicatory \do\@dedicatory \do\thanks \do\thankses
334 \do\keywords \do\@keywords \do\subjclass \do\@subjclass
335 }

```

## 7.5 amsmath-xetex-bidi.def

```

336 \ProvidesFile{amsmath-xetex-bidi.def}[2016/09/12 v1.0 bidi adaptations for amsmath package for
337 \let\veqno=\eqno
338 \iftagsleft@ \let\veqno=\leqno \fi
339 \renewcommand{\numberwithin}[3][\arabic]{%
340   \@ifundefined{c@#2}{\@nocounterr{#2}}{%
341     \@ifundefined{c@#3}{\@nocnterr{#3}}{%
342       \@addtoreset{#2}{#3}%
343       \@xp\xdef\csname the#2\endcsname{%
344         \@xp\@nx\csname the#3\endcsname \@nx\@SepMark\@nx#1{#2}}}%
345 }
346 \def\tagform@#1{\maketag@@@{\if@nonlatin\beginR\fi(\ignorespaces#1\unskip\@@italiccorr)\ifno

```

## 7.6 amstext-xetex-bidi.def

```

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

```

## 7.7 amsthm-xetex-bidi.def

```

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

```

## 7.8 animate-xetex-bidi.def

```

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

```



```

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

```



```

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

```



```

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

```



```

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

```



```

568 % if last frame used as poster, write frame num to aux file
569 \ifnum\@anim@poster=\@anim@mone\relax%
570 \@anim@keytoaux{a\the\@anim@num.poster}\@anim@maxframe}%
571 \fi%
572 \fi%
573 \endL%
574 \endgroup%
575 \global\advance\@anim@num by \@ne%
576 }
577 \let\@anim@animateinline\animateinline
578 \def\animateinline{\@anim@sanitizeColon\@anim@animateinline}

```

## 7.9 array-xetex-bidi.def

```

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

```





```

615 \setbox \@arstrutbox \hbox{\vrule
616         \@height \arraystretch \@tempdima
617         \@depth \arraystretch \dp \strutbox
618         \@width \z@}%
619 \begingroup
620 \mkpream{#2}%
621 \xdef\@preamble{\noexpand \ialign \@halignto
622         \bgroup \@arstrut \@preamble
623         \tabskip \z@ \cr}%
624 \endgroup
625 \@arrayleft
626 \if #1t\vtop \else \if#1b\vbox \else \vcenter \fi \fi
627 \bgroup
628 \let \@sharp ##\let \protect \relax
629 \lineskip \z@
630 \baselineskip \z@
631 \m@th
632 \let\\\@arraycr \let\tabularnewline\\\let\par\@empty \if@RTLtab\hbox\bgroup\beginR\@hboxRco
633 \def\@tabarray{\@ifnextchar [{\@array}{\@array[c]}}
634 \def\endarray{\crrc \egroup\if@RTLtab\egroup\endR\egroup\fi \egroup \@arrayright \gdef\@pream
635 \def\array{col@sep\arraycolsep
636 \def\d@llarbegin{$}\let\d@llarend\d@llarbegin\gdef\@halignto{}}%
637 \@RTLtabfalse\@tabarray}

```

## 7.10 article-xetex-bidi.def

```

638 \ProvidesFile{article-xetex-bidi.def}[2017/06/09 v0.6 bidi adaptations for standard article c
639 \if@titlepage
640 \renewcommand\maketitle{\begin{titlepage}%
641 \let\footnotesize\small
642 \let\right@footnoterule\relax
643 \let\left@footnoterule\relax
644 \let\textwidth\footnoterule\relax
645 \let \footnote \thanks
646 \let \LTRfootnote \LTRthanks
647 \let \RTLfootnote \RTLthanks
648 \null\vfil
649 \vskip 60\p@
650 \begin{center}%
651 {\LARGE \@title \par}%
652 \vskip 3em%
653 {\large
654 \lineskip .75em%
655 \begin{tabular}[t]{c}%
656 \@author
657 \end{tabular}\par}%
658 \vskip 1.5em%
659 {\large \@date \par}% % Set date in \large size.
660 \end{center}\par
661 \@thanks

```



```

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

```



```

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

```



```

762     \hskip -\if@RTL\righskip\else\leftskip\fi
763     #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
764     \endgroup
765     \fi}
766 \renewcommand\left@footnoterule{%
767     \kern-3\p@
768     \hrule\@width.4\columnwidth
769     \kern2.6\p@}
770 \renewcommand\right@footnoterule{%
771     \kern-3\p@
772     \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
773     \kern2.6\p@}
774 \renewcommand\thesubsection {\thesection\@SepMark\@arabic\c@section}
775 \renewcommand\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
776 \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
777 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
778 \def\@part[#1]#2{%
779     \ifnum \c@secnumdepth >\m@ne
780         \refstepcounter{part}%
781         \addcontentsline{toc}{part}{\thepart\hspace{1em}#1}%
782     \else
783         \addcontentsline{toc}{part}{#1}%
784     \fi
785     {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
786     \interlinepenalty \@M
787     \normalfont
788     \ifnum \c@secnumdepth >\m@ne
789         \Large\bfseries \partname\nobreakspace\thepart
790         \par\nobreak
791     \fi
792     \huge \bfseries #2%
793     \markboth{}{}\par}%
794     \nobreak
795     \vskip 3ex
796     \@afterheading}
797 \renewenvironment{thebibliography}[1]
798     {\section*{\refname}%
799     \@mkboth{\MakeUppercase\refname}{\MakeUppercase\refname}%
800     \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
801     \bidi@thebibliography@font@hook%
802     \list{\@biblabel{\@arabic\c@enumiv}}%
803         {\settowidth\labelwidth{\@biblabel{#1}}%
804         \leftmargin\labelwidth
805         \advance\leftmargin\labelsep
806         \@openbib@code
807         \usecounter{enumiv}%
808         \let\p@enumiv\empty
809         \renewcommand\theenumiv{\@arabic\c@enumiv}}%
810     \sloppy
811     \clubpenalty4000

```



```

812 \clubpenalty \clubpenalty
813 \widowpenalty4000%
814 \sfcode\.\@m}
815 {\def\@noitemerr
816 {\@latex@warning{Empty `thebibliography' environment}}}%
817 \endlist}
818 \renewenvironment{theindex}
819 {\if@twocolumn
820 \@restonecolfalse
821 \else
822 \@restonecoltrue
823 \fi
824 \columnseprule \z@
825 \columnsep 35\p@
826 \twocolumn[\section*{\indexname}]}%
827 \@mkboth{\MakeUppercase\indexname}%
828 {\MakeUppercase\indexname}%
829 \thispagestyle{plain}\parindent\z@
830 \parskip\z@ \@plus .3\p@\relax
831 \let\item\@idxitem}
832 {\if@restonecol\onecolumn\else\clearpage\fi}

```

## 7.11 artikel1-xetex-bidi.def

```

833 \ProvidesFile{artikel1-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for artikel1 class fo
834 \renewenvironment{theindex}{%
835 \if@twocolumn
836 \@restonecolfalse
837 \else
838 \@restonecoltrue
839 \fi
840 \columnseprule \z@
841 \columnsep 35\p@
842 \twocolumn[\section*{\indexname}]}%
843 \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}}%
844 \thispagestyle{plain}\parindent\z@
845 \parskip\z@ \@plus .3\p@\relax
846 \let\item\@idxitem
847 }{%
848 \if@restonecol\onecolumn\else\clearpage\fi}
849 \renewcommand*{head@style}{%
850 \interlinepenalty \@M
851 \hyphenpenalty=\@M \exhyphenpenalty=\@M
852 \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
853 \if@titlepage
854 \renewenvironment{abstract}{%
855 \titlepage
856 \null\vfil
857 \section*{\SectFont\abstractname}
858 \noindent\ignorespaces}

```



```

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

```



```

909     \@regtocline{0}%
910     \fi}
911 \fi
912 \if@oldtoc
913 \renewcommand*\l@section[2]{%
914     \addpenalty\@secpenalty
915     \addvspace{1.0em \@plus\p@}%
916     \setlength\@tempdima{1.5em}%
917     \begingroup
918     \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
919     \parfillskip -\@pnumwidth
920     \leavevmode \bfseries
921     \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
922     \hskip -\if@RTL\rightskip\else\leftskip\fi
923     #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
924     \endgroup}
925 \else
926 \renewcommand*\l@section{\@regtocline{1}}
927 \fi
928 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@section}
929 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
930 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
931 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
932 \renewenvironment{thebibliography}[1]
933     {\section*\refname}%
934     \mkboth{\MakeUppercase\refname}{\MakeUppercase\refname}%
935     \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
936     \bidi@thebibliography@font@hook%
937     \list{\@biblabel{\@arabic\c@enumiv}}%
938         {\settowidth\labelwidth{\@biblabel{#1}}%
939         \leftmargin\labelwidth
940         \advance\leftmargin\labelsep
941         \@openbib@code
942         \usecounter{enumiv}%
943         \let\p@enumiv\empty
944         \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
945     \sloppy\clubpenalty4000\widowpenalty4000%
946     \sfcode\.\@m}
947     {\def\@noitemerr
948         {\@latex@warning{Empty `thebibliography' environment}}%
949     \endlist}
950 \renewcommand*\left@footnoterule{%
951     \kern-3\p@
952     \kern.5\baselineskip
953     \hrule\@width\unitindent
954     \kern.4\baselineskip
955 }
956 \renewcommand*\right@footnoterule{%
957     \kern-3\p@
958     \kern.5\baselineskip

```



```

959 \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
960 \kern.4\baselineskip}
961 \if@titlepage
962 \renewcommand*\TitleFont{\rmfamily}
963 \renewcommand*\maketitle{%
964 \begin{titlepage}%
965 \let\footnotesize\small
966 \let\right@footnoterule\relax
967 \let\left@footnoterule\relax
968 \let\textwidth@footnoterule\relax
969 \let \footnote \thanks
970 \long\def\@makefntext##1{\parindent\z@
971 \def\labelitemi{\textendash}\@revlabeltrue
972 \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
973 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
974 \if@compatibility\setcounter{page}{0}\fi
975 \null\vfil
976 \vskip 60\p@
977 \begin{center}%
978 \TitleFont
979 {\LARGE \def\{\penalty -\@M}
980 \if@allcaps
981 \expandafter\uc@nothanks\@title\thanks\relax
982 \else
983 \@title
984 \fi\par}%
985 \vskip 3em%
986 {\large
987 \lineskip .75em \parindent\z@
988 \begin{tabular}[t]{c}%
989 \if@allcaps
990 \expandafter\uc@authornothanks\@author\and\relax
991 \else
992 \@author
993 \fi
994 \end{tabular}\par}%
995 \vskip 1.5em%
996 {\large
997 \if@allcaps
998 \uppercase\expandafter{\@date}%
999 \else
1000 \@date
1001 \fi\par}%
1002 \end{center}\par
1003 \@thanks
1004 \vfil\null
1005 \end{titlepage}%
1006 \setcounter{footnote}{0}%
1007 \global\let\thanks\relax
1008 \global\let\maketitle\relax

```





```

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

```



```

1059 \global\let\author\relax
1060 \global\let\date\relax
1061 \global\let\and\relax
1062 }
1063 \def\@maketitle{%
1064 \newpage
1065 \null
1066 \vskip 2em%
1067 \begin{center}%
1068 \let \footnote \thanks
1069 {\LARGE \TitleFont \@title \par}%
1070 \vskip 1.5em%
1071 {\large \TitleFont
1072 \lineskip .5em%
1073 \begin{tabular}[t]{c}%
1074 \@author
1075 \end{tabular}\par}%
1076 \vskip 1em%
1077 {\large \TitleFont \@date}%
1078 \end{center}%
1079 \par
1080 \vskip 1.5em}
1081 \fi

```

## 7.12 artikel2-xetex-bidi.def

```

1082 \ProvidesFile{artikel2-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for artikel2 class fo
1083 \renewenvironment{theindex}{%
1084 \if@twocolumn
1085 \@restonecolfalse
1086 \else
1087 \@restonecoltrue
1088 \fi
1089 \columnseprule \z@
1090 \columnsep 35\p@
1091 \twocolumn[\section*{\indexname}]{%
1092 \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}}%
1093 \thispagestyle{plain}\parindent\z@
1094 \parskip\z@ \@plus .3\p@\relax
1095 \let\item\@idxitem
1096 }{%
1097 \if@restonecol\onecolumn\else\clearpage\fi}
1098 \renewcommand*\@regtocline[3]{%
1099 \ifnum #1>\c@tocdepth
1100 \else
1101 \vskip\z@ \@plus .2\p@
1102 {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
1103 \if@RTL\righskip\else\leftskip\fi\unitindent
1104 \if@RTL\leftskip\else\righskip\fi\unitindent\@plus 1fil
1105 \parfillskip\z@

```



```

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

```



```

1156 \renewcommand*\head@style{%
1157     \interlinepenalty \@M
1158     \hyphenpenalty=\@M \exhyphenpenalty=\@M
1159     \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
1160 \if@titlepage
1161     \renewenvironment{abstract}{%
1162         \titlepage
1163         \null\vfil
1164         \section*{\SectFont\abstractname}%
1165         \noindent\ignorespaces}
1166     {\par\vfil\null\endtitlepage}
1167 \else
1168     \renewenvironment{abstract}{%
1169         \if@twocolumn
1170             \section*{\abstractname}%
1171         \else
1172             \section*{\hskip\unitindent\small\SectFont\abstractname}%
1173             \list{}{\setlength\listparindent{\unitindent}%
1174                 \setlength\parindent {\z@}%
1175                 \setlength\leftmargin {\unitindent}%
1176                 \setlength\rightmargin {\unitindent}%
1177                 \setlength\parsep {\z@}}%
1178             \item[]%
1179         \fi}
1180     {\if@twocolumn\else\par\endlist\fi}
1181 \fi
1182 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
1183 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
1184 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
1185 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
1186 \renewcommand*\left@footnoterule{%
1187     \kern-3\p@
1188     \hrule\@width 3\unitindent
1189     \kern 2.6\p@
1190 }
1191 \renewcommand*\right@footnoterule{%
1192     \kern-3\p@
1193     \hbox to \columnwidth{\hskip \dimexpr\columnwidth-3\unitindent\relax \hrulefill }
1194     \kern 2.6\p@}
1195 \renewenvironment{thebibliography}[1]
1196     {\section*{\refname}%
1197         \@mkboth{\MakeUppercase\refname}{\MakeUppercase\refname}%
1198         \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
1199         \bidi@thebibliography@font@hook%
1200         \list{\@biblabel{\@arabic\c@enumiv}}%
1201             {\settowidth\labelwidth{\@biblabel{#1}}%
1202             \leftmargin\labelwidth
1203             \advance\leftmargin\labelsep
1204             \@openbib@code
1205             \usecounter{enumiv}}%

```



```

1206         \let\p@enumiv\@empty
1207         \renewcommand*\theenumiv{\@arabic\c@enumiv}}}%
1208     \sloppy\clubpenalty4000\widowpenalty4000%
1209     \sfcode`\.\@m}
1210     {\def\@noitemerr
1211      {\@latex@warning{Empty `thebibliography' environment}}}%
1212     \endlist}
1213 \if@titlepage
1214 \renewcommand*\TitleFont{\rmfamily}
1215 \renewcommand*\maketitle{%
1216   \begin{titlepage}%
1217     \let\footnotesize\small
1218     \let\right@footnoterule\relax
1219     \let\left@footnoterule\relax
1220     \let\textwidth\footnoterule\relax
1221     \let \footnote \thanks
1222     \long\def\@makefnmark##1{\parindent\z@
1223       \def\labelitemi{\textendash}\@revlabeltrue
1224       \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
1225     \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
1226     \if@compatibility\setcounter{page}{0}\fi
1227     \null\vfil
1228     \vskip 60\p@
1229     \begin{center}%
1230       \TitleFont
1231       {\LARGE \def\{\{\penalty -\@M}
1232         \if@allcaps
1233           \expandafter\uc@nothanks\@title\thanks\relax
1234         \else
1235           \@title
1236         \fi\par}%
1237       \vskip 3em%
1238       {\large
1239         \lineskip .75em \parindent\z@
1240         \begin{tabular}[t]{c}%
1241           \if@allcaps
1242             \expandafter\uc@author\@author\and\relax
1243           \else
1244             \@author
1245           \fi
1246         \end{tabular}\par}%
1247       \vskip 1.5em%
1248       {\large
1249         \if@allcaps
1250           \uppercase\expandafter{\@date}%
1251         \else
1252           \@date
1253         \fi\par}%
1254       \end{center}\par
1255     \@thanks

```



```

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

```



```

1306 \global\let\@thanks\@empty
1307 \global\let\@author\@empty
1308 \global\let\@title\@empty
1309 \global\let\@date\@empty
1310 \global\let\title\relax
1311 \global\let\author\relax
1312 \global\let\date\relax
1313 \global\let\and\relax
1314 }
1315 \def\@maketitle{%
1316 \newpage
1317 \null
1318 \vskip 2em%
1319 \begin{center}%
1320 \let \footnote \thanks
1321 {\LARGE \TitleFont \@title \par}%
1322 \vskip 1.5em%
1323 {\large \TitleFont
1324 \lineskip .5em%
1325 \begin{tabular}[t]{c}%
1326 \@author
1327 \end{tabular}\par}%
1328 \vskip 1em%
1329 {\large \TitleFont \@date}%
1330 \end{center}%
1331 \par
1332 \vskip 1.5em}
1333 \fi

```

## 7.13 artikel3-xetex-bidi.def

```

1334 \ProvidesFile{artikel3-xetex-bidi.def}[2017/06/09 v0.5 bidi adaptations for artikel3 class fo
1335 \renewenvironment{theindex}{%
1336 \if@twocolumn
1337 \@restonecolfalse
1338 \else
1339 \@restonecoltrue
1340 \fi
1341 \columnseprule \z@
1342 \columnsep 35\p@
1343 \twocolumn[\section*{\indexname}]{%
1344 \mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
1345 \thispagestyle{plain}\parindent\z@
1346 \parskip\z@ \@plus .3\p@\relax
1347 \let\item\@idxitem
1348 }{%
1349 \if@restonecol\onecolumn\else\clearpage\fi}
1350 \renewcommand*\head@style{%
1351 \interlinepenalty \@M
1352 \hyphenpenalty=\@M \exhyphenpenalty=\@M

```



```

1353 \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
1354 \renewcommand*\@regtocline[3]{%
1355 \ifnum #1>\c@tocdepth
1356 \else
1357 \vskip\z@\@plus.2\p@
1358 {\hangindent\z@ \afterindenttrue \interlinepenalty\@M
1359 \if@RTL\rightskip\else\leftskip\fi\unitindent
1360 \if@RTL\leftskip\else\rightskip\fi\unitindent\@plus 1fil
1361 \parfillskip\z@
1362 \@tempdima\unitindent
1363 \parindent\z@
1364 \leavevmode
1365 \hbox{}\hskip -\if@RTL\rightskip\else\leftskip\fi\relax#2\nobreak
1366 \hskip 1em \nobreak{\slshape #3}\par
1367 }%
1368 \fi}
1369 \if@oldtoc
1370 \renewcommand*\l@part[2]{%
1371 \ifnum \c@tocdepth >-2\relax
1372 \addpenalty\@secpenalty
1373 \addvspace{2.25em \@plus\p@}%
1374 \begingroup
1375 \setlength\@tempdima{3em}%
1376 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
1377 \parfillskip -\@pnumwidth
1378 {\leavevmode
1379 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
1380 \nobreak
1381 \if@compatibility
1382 \global\@nobreaktrue
1383 \everypar{\global\@nobreakfalse\everypar{}}%
1384 \fi
1385 \endgroup
1386 \fi}
1387 \else
1388 \renewcommand*\l@part{%
1389 \ifnum \c@tocdepth >-2\relax
1390 \addpenalty\@secpenalty
1391 \addvspace{2.25em \@plus \p@}%
1392 \@regtocline{0}%
1393 \fi}
1394 \fi
1395
1396 \if@oldtoc
1397 \renewcommand*\l@section[2]{%
1398 \addpenalty\@secpenalty
1399 \addvspace{1.0em \@plus\p@}%
1400 \setlength\@tempdima{1.5em}%
1401 \begingroup
1402 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth

```





```

1403 \parfillskip -\@pnumwidth
1404 \leavevmode \bfseries
1405 \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
1406 \hskip -\if@RTL\rightskip\else\leftskip\fi
1407 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
1408 \endgroup}
1409 \else
1410 \renewcommand*\l@section{\@regtocline{1}}
1411 \fi
1412 \if@titlepage
1413 \renewenvironment{abstract}{%
1414 \titlepage
1415 \null\vfil
1416 \section*{\SectFont\abstractname}%
1417 \noindent\ignorespaces}
1418 {\par\vfil\null\endtitlepage}
1419 \else
1420 \renewenvironment{abstract}{%
1421 \if@twocolumn
1422 \section*{\abstractname}%
1423 \else
1424 \bgroup\if@RTL\leftskip\else\rightskip\fi=\unitindent
1425 \section*{\small\SectFont\abstractname}%
1426 \noindent\ignorespaces
1427 \fi}
1428 {\if@twocolumn\else\par\egroup\fi}
1429 \fi
1430 \renewcommand*\left@footnoterule{%
1431 \kern-3\p@
1432 \kern.5\baselineskip
1433 \hrule\@width\unitindent
1434 \kern.4\baselineskip
1435 }
1436 \renewcommand*\right@footnoterule{%
1437 \kern-3\p@
1438 \kern.5\baselineskip
1439 \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
1440 \kern.4\baselineskip}
1441 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@section}
1442 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
1443 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
1444 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
1445 \renewenvironment{thebibliography}[1]
1446 {\section*{\refname}%
1447 \@mkboth{\MakeUppercase\refname}{\MakeUppercase\refname}%
1448 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
1449 \bidi@thebibliography@font@hook%
1450 \list{\@biblabel{\@arabic\c@enumiv}}%
1451 {\settowidth\labelwidth{\@biblabel{#1}}%
1452 \leftmargin\labelwidth

```



```

1453         \advance\leftmargin\labelsep
1454         \@openbib@code
1455         \usecounter{enumiv}%
1456         \let\p@enumiv\@empty
1457         \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
1458     \sloppy\clubpenalty4000\widowpenalty4000%
1459     \sfcode`\.\@m}
1460     {\def\@noitemerr
1461      {\@latex@warning{Empty `thebibliography' environment}}}%
1462     \endlist}
1463 \if@titlepage
1464 \renewcommand*\TitleFont{\rmfamily}
1465 \renewcommand*\maketitle{%
1466   \begin{titlepage}%
1467     \let\footnotesize\small
1468     \let\right@footnoterule\relax
1469     \let\left@footnoterule\relax
1470     \let\textwidth@footnoterule\relax
1471     \let \footnote \thanks
1472     \long\def\@makefntext##1{\parindent\z@
1473       \def\labelitemi{\textendash}\@revlabeltrue
1474       \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
1475     \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
1476     \if@compatibility\setcounter{page}{0}\fi
1477     \null\vfil
1478     \vskip 60\p@
1479     \begin{center}%
1480       \TitleFont
1481       {\LARGE \def\\{\penalty -\@M}
1482         \if@allcaps
1483           \expandafter\uc@nothanks\@title\thanks\relax
1484         \else
1485           \@title
1486         \fi\par}%
1487       \vskip 3em%
1488       {\large
1489         \lineskip .75em \parindent\z@
1490         \begin{tabular}[t]{c}%
1491           \if@allcaps
1492             \expandafter\uc@authornothanks\@author\and\relax
1493           \else
1494             \@author
1495           \fi
1496         \end{tabular}\par}%
1497       \vskip 1.5em%
1498       {\large
1499         \if@allcaps
1500           \uppercase\expandafter{\@date}%
1501         \else
1502           \@date

```



```

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

```



```

1553 \global\let\thanks\relax
1554 \global\let\maketitle\relax
1555 \global\let\@maketitle\relax
1556 \global\let\@thanks\@empty
1557 \global\let\@author\@empty
1558 \global\let\@title\@empty
1559 \global\let\@date\@empty
1560 \global\let\title\relax
1561 \global\let\author\relax
1562 \global\let\date\relax
1563 \global\let\and\relax
1564 }
1565 \def\@maketitle{%
1566   \newpage
1567   \null
1568   \vskip 2em%
1569   \if@titlecentered
1570     \begin{center}%
1571       \let \footnote \thanks
1572       {\LARGE \TitleFont \@title \par}%
1573       \vskip 1.5em%
1574       {\large \TitleFont
1575         \lineskip .5em%
1576         \begin{tabular}[t]{c}%
1577           \@author
1578         \end{tabular}\par}%
1579       \vskip 1em%
1580       {\large \TitleFont \@date}%
1581     \end{center}%
1582   \else
1583     {\LARGE \TitleFont \head@style \@title \par} \vskip 1.5em
1584     {\large \TitleFont \lineskip .5em \tabcolsep\z@
1585       \def\and{%% \begin{tabular} has already started
1586         \end{tabular}\hskip 1em plus .17fil
1587         \ifRTL\begin{tabular}[t]{r}\else\begin{tabular}[t]{l}\fi}% \end{tabular}
1588         \ifRTL\begin{tabular}[t]{r}\else\begin{tabular}[t]{l}\fi\@author\end{tabular}\p
1589       \vskip 1em {\large \TitleFont \@date}
1590     \fi
1591     \par
1592     \vskip 1.5em}
1593 \fi

```

## 7.14 arydshln-xetex-bidi.def

```

1594 \ProvidesFile{arydshln-xetex-bidi.def}[2010/08/01 v0.2 bidi adaptations for arydshln package
1595 \def\endarray{\adl@endarray \egroup \adl@arrayrestore \ifRTLtab\egroup\endR\egroup\fi\egroup}
1596 \def\endtabular{\endarray $\ifRTLtab\endR\fi\egroup}
1597 \expandafter\let\csname endtabular*\endcsname\endtabular
1598 \let\adl@array\@array
1599 \def\@array{\adl@everyvbox\everyvbox

```



```

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

```



```

1650 \def\@testpach#1{\@chclass \ifnum \@lastchclass=\tw@ 4\relax \else
1651     \ifnum \@lastchclass=\thr@@ 5\relax \else
1652         \z@ \if #1c\@chnum \z@ \else
1653             \if \if@RTLtab#1r\else#1l\fi\@chnum \@ne \else
1654             \if \if@RTLtab#1l\else#1r\fi\@chnum \tw@ \else
1655             \@chclass
1656             \if #1|\@ne \let\@arrayrule\adl@arrayrule \else
1657             \if #1:\@ne \let\@arrayrule\adl@arraydashrule \else
1658             \if #1;\@ne \let\@arrayrule\adl@argarraydashrule \else
1659             \if #1@\tw@ \else
1660             \if #1p\thr@@ \else \z@ \@preamerr 0\fi
1661         \fi \fi \fi \fi \fi \fi \fi \fi}
1662
1663 \def\@arrayclassz{\ifcase \@lastchclass \@acolampacol \or \@ampacol \or
1664     \or \or \@addamp \or
1665     \@acolampacol \or \@firststampfalse \@acol \fi
1666     \edef\@preamble{\@preamble
1667         \ifcase \@chnum
1668             \hfil\adl@putlrc{\$ \relax \@sharp$}\hfil
1669             \or \adl@putlrc{\$ \relax \@sharp$}\hfil
1670             \or \hfil\adl@putlrc{\$ \relax \@sharp$}\fi}}
1671 \def\@tabclassz{\ifcase \@lastchclass \@acolampacol \or \@ampacol \or
1672     \or \or \@addamp \or
1673     \@acolampacol \or \@firststampfalse \@acol \fi
1674     \edef\@preamble{\@preamble
1675         \ifcase \@chnum
1676             \hfil\adl@putlrc{\@sharp\unskip}\hfil
1677             \or \adl@putlrc{\@sharp\unskip}\hfil
1678             \or \hfil\hskip\z@ \adl@putlrc{\@sharp\unskip}\fi}}
1679 \def\adl@class@start{6}
1680 \def\adl@class@iiiorvii{3}
1681 \fi
1682 \@ifpackageloaded{colortbl}{%
1683 \def\adl@inactivate{\adl@org@inactivate \let\CT@setup\adl@CT@setup}
1684 \def\adl@activate{\adl@org@activate \let\CT@setup\adl@act@CT@setup
1685     \let\@endpbox\adl@org@endpbox}
1686 \let\adl@CT@setup\CT@setup
1687 \def\CT@setup{\adl@CT@setup
1688     \@tempdima\ht\z@ \advance\@tempdima\minrowclearance
1689     \ifdim\adl@height<\@tempdima \global\adl@height\@tempdima \fi
1690     \ifdim\adl@depth<\dp\z@ \global\adl@depth\dp\z@\fi}
1691 \let\adl@act@CT@setup\CT@setup
1692 \def\@classz{\@classx
1693     \@tempcnta\count@ \prepnext@tok
1694     \expandafter\CT@extract\the\toks\@tempcnta\columncolor!\@nil
1695     \expandafter\adl@extract\arc\the\toks\@tempcnta\arrayrulecolor!\@nil
1696     \expandafter\adl@extract\drsc
1697         \the\toks\@tempcnta\doublerulesepcolor!\@nil
1698     \expandafter\adl@extract@dgc\the\toks\@tempcnta\dashgapcolor!\@nil
1699     \@addtopreamble{\if@RTL\beginL\fi%

```



```

1700         \setbox\z@\hbox\bgroup\bgroup\if@RTL\beginR\fi
1701         \ifcase \@chnum
1702             \hskip\stretch{.5}\kern\z@
1703             \d@llarbegin
1704             \insert@column
1705             \d@llarend\hskip\stretch{.5}%
1706         \or \d@llarbegin \insert@column \d@llarend \hfill
1707         \or \hfill \kern\z@ \d@llarbegin \insert@column \d@llarend
1708         \or $\vcenter
1709             \@startpbox{\@nextchar}\insert@column \@endpbox $%
1710         \or \vtop \@startpbox{\@nextchar}\insert@column \@endpbox
1711         \or \vbox \@startpbox{\@nextchar}\insert@column \@endpbox
1712         \fi
1713         \if@RTL\endR\fi\egroup\egroup
1714         \begingroup
1715             \CT@setup
1716             \CT@column@color
1717             \CT@row@color
1718             \CT@cell@color
1719             \CT@do@color
1720         \endgroup
1721         \@tempdima\ht\z@
1722         \advance\@tempdima\minrowclearance
1723         \vrule\@height\@tempdima\@width\z@
1724         \unhbox\z@\if@RTL\endL\fi}%
1725     \prepnext@tok}
1726 \let\adl@act@classz\@classz
1727 \let\adl@org@classz\@classz
1728 }{}

```

## 7.15 bidi.sty

```

1729 \NeedsTeXFormat{LaTeX2e}
1730 \def\bididate{2017/08/15}
1731 \def\bidiversion{v31.0}
1732 \ProvidesPackage{bidi}[\bididate\space \bidiversion\space
1733 Bidirectional typesetting in plain TeX and LaTeX]
1734 \edef\@bidi@info{*****~J%
1735 * ~J%
1736 * bidi package (Bidirectional typesetting in~J%
1737 * plain TeX and LaTeX, using XeTeX engine)~J%
1738 * ~J%
1739 * Description: A convenient interface for~J%
1740 * typesetting bidirectional texts in plain TeX~J%
1741 * and LaTeX. The package includes adaptations~J%
1742 * for use with many other commonly-used packages.~J%
1743 * ~J%
1744 * Copyright (c) 2009--2017 Vafa Khalighi~J%
1745 * ~J%
1746 * \bididate, \bidiversion~J%

```



```

1747 * ^^J%
1748 * License: LaTeX Project Public License, version^^J%
1749 * 1.3c or higher (your choice)^^J%
1750 * ^^J%
1751 * Location on CTAN: /macros/xetex/latex/bidi^^J%
1752 * ^^J%
1753 * Issue tracker: https://github.com/tex-xet/bidi/issues^^J%
1754 * ^^J%
1755 * Support: persian-tex@tug.org^^J%
1756 * ^^J%
1757 *****}
1758 \typeout{\@bidi@info}
1759 \edef\bidi@everyjob{\the\everyjob}
1760 \everyjob{\bidi@everyjob\typeout{\@bidi@info}}
1761 \edef\@bidi@strip@v@bidi@version{\expandafter\@gobble\bidi@version}
1762 \newcommand*{\IfbidiPackageVersionLater}[1]{%
1763   \ifdim\@bidi@strip@v@bidi@version pt > #1 pt %
1764     \expandafter\@firstoftwo
1765   \else
1766     \expandafter\@secondoftwo
1767   \fi}
1768 \newcommand*{\IfbidiPackageVersionBefore}[1]{%
1769   \ifdim\@bidi@strip@v@bidi@version pt < #1 pt %
1770     \expandafter\@firstoftwo
1771   \else
1772     \expandafter\@secondoftwo
1773   \fi}
1774 \newcommand*{\IfbidiPackageVersion}[1]{%
1775   \ifdim\@bidi@strip@v@bidi@version pt = #1 pt %
1776     \expandafter\@firstoftwo
1777   \else
1778     \expandafter\@secondoftwo
1779   \fi}
1780 \RequirePackage{iftex}
1781 \RequireXeTeX
1782 \RequirePackage{bidiutils}
1783 \RequirePackage{zref-abspage}
1784 \RequirePackage{auxhook}
1785 \RequirePackage{ltxcmds}
1786 \RequirePackage{xkeyval}
1787 \eqnewif{\if@RTLmain}{\if@rlmain}
1788 \eqnewif{\if@RTL}{\if@rl}
1789 \newif\if@nonlatin
1790 \newcommand*{\setlatin}{\@nonlatinfalse}
1791 \newcommand*{\setnonlatin}{\@nonlatintrue}
1792 \eqnewif{\if@RTLtab}{\if@tab@rl}
1793 \newif\if@hboxRconstruct
1794 \newcommand*{\setRTLtable}{\@RTLtabtrue}
1795 \newcommand*{\setLTRtable}{\@RTLtabfalse}
1796 \newif\if@RTLmarginpar

```





```

1797 \newif\if@LTRmarginpar
1798 \newif\if@LTRbibitems
1799 \newif\if@RTLbibitems
1800 \newif\if@extrafootnotefeatures
1801 \newif\if@parafootRTL
1802 \newif\if@RTLcolumnfootnotes
1803 \eqnewif{\if@RTL@footnote}{\if@rl@footnote}
1804 \newif\if@bidi@list@minipage@parbox
1805 \newif\if@bidi@list@minipage@parbox@not@nob
1806 \@RTLmainfalse
1807 \AtBeginDocument{%
1808   \if@RTLmain\else
1809     \if@RTL\@RTLmaintrue%
1810     \else\@RTLmainfalse%
1811     \fi%
1812   \fi%
1813 }
1814 \let\n@xt=\
1815 \bidi@newrobustcmd*{\LRE}{\protect\pLRE}%
1816 \def\pLRE{\protect\afterassignment\moreLRE \let\n@xt= }
1817 \bidi@newrobustcmd*{\RLE}{\protect\pRLE}
1818 \def\pRLE{\protect\afterassignment\moreRLE \let\n@xt= }
1819 \def\bracetext{\ifcat\n@xt{\else\ifcat\n@xt}\fi
1820   \errmessage{Missing left brace has been substituted}\fi \bgroup}
1821 \input{latex-xetex-bidi.def}
1822 \input{loadingorder-xetex-bidi.def}
1823 \define@choicekey{bidi.sty}{RTLdocument}[\bidi@tempa\bidi@tempb]{on,off}[on]{%
1824   \ifcase\bidi@tempb\relax
1825     \@RTLtrue
1826   \or
1827     \@RTLfalse
1828   \fi}
1829 \define@choicekey{bidi.sty}{documentdirection}[\bidi@tempa\bidi@tempb]{righttoleft,lefttorigh
1830   \ifcase\bidi@tempb\relax
1831     \@RTLtrue
1832   \or
1833     \@RTLfalse
1834   \fi}
1835 \define@choicekey{bidi.sty}{tabledirection}[\bidi@tempa\bidi@tempb]{righttoleft,lefttoright}{
1836   \ifcase\bidi@tempb\relax
1837     \@RTLtabtrue
1838   \or
1839     \@RTLtabfalse
1840   \fi}
1841 \define@choicekey{bidi.sty}{script}[\bidi@tempa\bidi@tempb]{latin,nonlatin}[latin]{%
1842   \ifcase\bidi@tempb\relax
1843     \@nonlatinfalse
1844   \or
1845     \@nonlatintrue
1846   \fi}

```



```

1847 \define@choicekey{bidi.sty}{rldocument}[\bidi@tempa\bidi@tempb]{on,off}[on]{%
1848   \ifcase\bidi@tempb\relax
1849     \RTLtrue
1850   \or
1851     \RTLfalse
1852   \fi}
1853 \define@choicekey{bidi.sty}{footnoterule}[\bidi@tempa\bidi@tempb]{automatic,left,right,split,
1854   \ifcase\bidi@tempb\relax
1855     \autofootnoterule
1856   \or
1857     \leftfootnoterule
1858   \or
1859     \rightfootnoterule
1860   \or
1861     \SplitFootnoteRule
1862   \or
1863     \textwidthfootnoterule
1864   \fi}
1865 \define@choicekey{bidi.sty}{footnotedirection}[\bidi@tempa\bidi@tempb]{righttoleft,lefttorigh
1866   \ifcase\bidi@tempb\relax
1867     \RTL@footnotetrue
1868   \or
1869     \RTL@footnotefalse
1870   \fi}
1871 \define@choicekey{bidi.sty}{debugfootnotedirection}[\bidi@tempa\bidi@tempb]{on,off}[on]{%
1872   \ifcase\bidi@tempb\relax
1873     \footdir@debugtrue
1874   \or
1875     \footdir@debugfalse
1876   \fi}
1877 \define@choicekey{bidi.sty}{extrafootnotefeatures}[\bidi@tempa\bidi@tempb]{on,off}[on]{%
1878   \ifcase\bidi@tempb\relax
1879     \@extrafootnotefeaturestrue
1880   \or
1881     \@extrafootnotefeaturesfalse
1882   \fi}
1883
1884 \define@choicekey{bidi.sty}{DetectColumn}[\bidi@tempa\bidi@tempb]{on,off}[on]{%
1885   \ifcase\bidi@tempb\relax
1886     \def\bidi@firstcolumn@status@write{%
1887       \protected@write\@auxout{%
1888         {\string\bidi@column@status
1889          {1}}}%
1890     \def\bidi@lastcolumn@status@write{%
1891       \protected@write\@auxout{%
1892         {\string\bidi@column@status{2}}}%
1893   \or
1894     \let\bidi@firstcolumn@status@write\relax
1895     \let\bidi@lastcolumn@status@write\relax
1896   \fi}

```



```

1897
1898 \ExecuteOptionsX{%
1899     DetectColumn=off
1900 }
1901
1902 \ProcessOptionsX
1903
1904 \if@extrafootnotefeatures
1905     \input{extrafootnotefeatures-xetex-bidi.def}
1906 \fi
1907 \newcount\bididigits
1908 \XeTeXinterchartokenstate=\@ne
1909 \newXeTeXintercharclass\bididigits@charclass
1910 \newXeTeXintercharclass\bididot@charclass
1911 \newXeTeXintercharclass\bididash@charclass
1912 \XeTeXcharclass`\.\bididot@charclass
1913 \XeTeXcharclass`\-\bididash@charclass
1914 \bididigits=\0 \loop \XeTeXcharclass \bididigits \bididigits@charclass \ifnum\bididigits
1915 \bididigits=\ \loop \XeTeXcharclass \bididigits \bididigits@charclass \ifnum\bididigits
1916 \XeTeXinterchartoks \bididigits@charclass \bididot@charclass = {\DigitsDotDashInterCharTok
1917 \XeTeXinterchartoks \bididot@charclass \bididigits@charclass = {\DigitsDotDashInterCharTok
1918 \XeTeXinterchartoks \bididigits@charclass \bididash@charclass = {\DigitsDotDashInterCharTok
1919 \XeTeXinterchartoks \bididash@charclass \bididigits@charclass = {\DigitsDotDashInterCharTok
1920 \newcommand*{\DigitsDotDashInterCharToks}{\if@nonlatin\char"200F \fi}

```

## 7.16 bidi.tex

```

1921 \def\bididate{2015/10/16}
1922 \def\bidiversion{v0.3}
1923 \catcode\@=11
1924 \let\protect\relax
1925 \newlinechar`\^^J
1926 \edef\@bidi@info{*****~J%
1927 * ~J%
1928 * bidi package (Bidirectional typesetting in~J%
1929 * plain TeX and LaTeX, using XeTeX engine)~J%
1930 * ~J%
1931 * Description: A convenient interface for~J%
1932 * typesetting bidirectional texts in plain TeX~J%
1933 * and LaTeX. The package includes adaptations~J%
1934 * for use with many other commonly-used packages.~J%
1935 * ~J%
1936 * Copyright (c) 2009--2015 Vafa Khalighi~J%
1937 * ~J%
1938 * \bididate, \bidiversion~J%
1939 * ~J%
1940 * License: LaTeX Project Public License, version~J%
1941 * 1.3c or higher (your choice)~J%
1942 * ~J%
1943 * Location on CTAN: /macros/xetex/latex/bidi~J%

```



```

1944 * ^^J%
1945 * Issue tracker: https://github.com/tex-xet/bidi/issues^^J%
1946 * ^^J%
1947 * Support: persian-tex@tug.org^^J%
1948 * ^^J%
1949 *****}
1950 \message{\@bidi@info}
1951 \edef\bidi@everyjob{\the\everyjob}
1952 \everyjob{\bidi@everyjob\message{\@bidi@info}}
1953 \input iftex.sty
1954 \RequireXeTeX
1955 \newif\if@RTLmain
1956 \newif\if@RTL
1957 \newif\if@hboxRconstruct
1958 \newif\if@sendif
1959 \newif\if@RTL@footnote
1960 \@RTLmainfalse
1961 \def\setRTLmain{%
1962   \if@RTLmain\else
1963     \if@RTL\@RTLmaintrue%
1964     \else\@RTLmainfalse%
1965     \fi%
1966   \fi%
1967 }
1968 \let\n@xt=\
1969 \protected\def\LRE{\protect\pLRE}%
1970 \def\pLRE{\protect\afterassignment\moreLRE \let\n@xt= }
1971 \protected\def\RLE{\protect\pRLE}
1972 \def\pRLE{\protect\afterassignment\moreRLE \let\n@xt= }
1973 \def\bracetext{\ifcat\n@xt{\else\ifcat\n@xt}\fi
1974   \errmessage{Missing left brace has been substituted}\fi \bgroup}
1975 \input plain-xetex-bidi.def
1976 \catcode`\@=12

```

## 7.17 bidi2in1.sty

```

1977 \NeedsTeXFormat{LaTeX2e}
1978 \ProvidesPackage{bidi2in1}
1979 \pagestyle{plain}
1980 \newcount\evenpage
1981 \newcount\oddpge
1982 \twocolumn
1983 \def\@oddfont{\evenpage=\thepage%
1984 \multiply\evenpage by 2%
1985 \oddpge=\the\evenpage%
1986 \advance\oddpge by -1%
1987 \hfil\the\evenpage\hfil\hfil\the\oddpge\hfil}%
1988 \def\@evenfont{\evenpage=\thepage%
1989 \multiply\evenpage by 2%
1990 \oddpge=\the\evenpage%

```



```

1991 \advance\oddpaper by -1%
1992 \hfil\the\oddpaper\hfil\hfil\the\evenpaper\hfil}%
1993 \textwidth 9.49in
1994 \textheight 6.7in
1995 \columnsep 0.9in
1996 \columnseprule 0.125pt
1997 \headheight 0cm
1998 \topmargin 0in
1999 \marginparwidth 0in
2000 \marginparsep 0in
2001 \hoffset 0.05in % Corrected
2002 \voffset -0.5in %top margin space is 1.0in by default
2003 \oddsidemargin 0in
2004 \evensidemargin 0in
2005 \headsep 0cm
2006 \topskip 0cm
2007 \parskip 0.15in %
2008 \headsep 0pt
2009 \special{papersize=11.69in,8.26in}
2010 \renewcommand\maketitle{\par
2011 \begingroup
2012 \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
2013 \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
2014 \long\def\@makefntext##1{\parindent 1em\noindent
2015 \hb@xt@1.8em{\%
2016 \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
2017 \@maketitle
2018 \@thanks
2019 \endgroup
2020 \setcounter{footnote}{0}%
2021 \global\let\thanks\relax
2022 \global\let\maketitle\relax
2023 \global\let\@maketitle\relax
2024 \global\let\@thanks\@empty
2025 \global\let\@author\@empty
2026 \global\let\@date\@empty
2027 \global\let\@title\@empty
2028 \global\let\title\relax
2029 \global\let\author\relax
2030 \global\let\date\relax
2031 \global\let\and\relax
2032 }

```

## 7.18 bidicode.sty

```

2033 \NeedsTeXFormat{LaTeX2e}
2034 \ProvidesPackage{bidicode}
2035 \RequirePackage{xcolor}
2036 \RequirePackage{showexpl}
2037 \definecolor{hellgelb}{rgb}{1,1,0.85}

```



```

2038 \definecolor{colKeys}{rgb}{0,0,1}
2039 \definecolor{colIdentifier}{rgb}{0,0,0}
2040 \definecolor{colComments}{rgb}{1,0,0}
2041 \definecolor{colString}{rgb}{0,0.5,0}
2042 \lstset{
2043     language=[LaTeX]TEX,
2044     float=hbp,
2045     basicstyle=\ttfamily\small,
2046     identifierstyle=\color{colIdentifier},
2047     keywordstyle=\color{colKeys},
2048     stringstyle=\color{colString},
2049     commentstyle=\color{colComments},
2050     columns=flexible,
2051     tabsize=4,
2052     gobble =1,
2053     extendedchars=true,
2054     showspaces=false,
2055     showstringspaces=false,
2056     numbers=left,
2057     numbersep=0.9em,
2058     numberstyle=\tiny, %
2059     frame=single,
2060     captionpos=b,
2061     xleftmargin=1em,
2062     breaklines=true,
2063     breakautoindent=false,
2064     breakindent=0pt,
2065     escapeinside=**,
2066     pos=r,
2067     explpreset={%
2068     xleftmargin=1em,columns=flexible,language=[LaTeX]TEX},
2069     morekeywords={setLTR,setLR,setRTL,setRL,LRE,LR,RLE,RL,lr,bidiversion,bididate}
2070 }
2071 \newcommand\HLON{%
2072 \gdef\lst@alloverstyle##1{%
2073 \fboxrule=0pt
2074 \fboxsep=0pt
2075 \fcolorbox{hellgelb}{hellgelb}{\bfseries\strut##1}%
2076 }}
2077 \newcommand\HLOFF{%
2078 \xdef\lst@alloverstyle##1{##1}%
2079 }
2080 \newcommand\Larg [1]{\normalfont\itshape#1\/\}}
2081 \newcommand\Larga[1]{\angle$\Larg{#1}$\rangle$}
2082 \newcommand\Largb[1]{\lcb\Larg{#1}\rcb}
2083 \newcommand\Largs[1]{\lsb\Larg{#1}\rsb}
2084 \newcommand\Largr[1]{\lrb\Larg{#1}\rrb}
2085 \newcommand\LBEG[1]{\normalfont\ttfamily\bs{ }begin\lcb#1\rcb}}
2086 \newcommand\LEND[1]{\normalfont\ttfamily\bs{ }end\lcb#1\rcb}}
2087

```



```

2088 \DeclareRobustCommand\bs{{\normalfont\ttfamily\symbol{92}}}
2089 \DeclareRobustCommand\lcb{{\normalfont\ttfamily\char`{}}
2090 \DeclareRobustCommand\rcb{{\normalfont\ttfamily\char`}}
2091 \DeclareRobustCommand\lsb{{\normalfont\ttfamily[]}}
2092 \DeclareRobustCommand\rsb{{\normalfont\ttfamily[]}}
2093 \DeclareRobustCommand\lrb{{\normalfont\ttfamily{}}}
2094 \DeclareRobustCommand\rrb{{\normalfont\ttfamily)}}
2095
2096 \def\Lcs#1{\nxLcs{#1}}
2097 \def\LcsStar#1{\nxLcs{#1}\OptArg*{}}
2098 \def\nxLcs#1{\texttt{\symbol{92}#1}}
2099
2100 \def\Coordx#1{$x_{#1}$}
2101 \def\Coordy#1{$y_{#1}$}
2102 \def\Coordz#1{$z_{#1}$}
2103 \def\Coord#1{\Coordx{#1},\kern 1pt\Coordy{#1}}
2104 \def\Coordn{\Coordx{n},\kern 1pt\Coordy{n}}
2105 \def\CoordIII#1{\Coordx{#1},\kern 1pt\Coordy{#1},\kern 1pt\Coordz{#1}}
2106 \def\CAny{\Coordx{}}\kern 1pt\Coordy{}
2107 \def\CIIIAny{\Coordx{}}\kern 1pt\Coordy{}}\kern 1pt\Coordz{}
2108 \def\coord#1{(\Coordx{#1},\kern 1pt\Coordy{#1})}
2109 \def\coordn{(\Coordx{n},\kern 1pt\Coordy{n})}
2110 \def\coordiii#1{(\Coordx{#1},\kern 1pt\Coordy{#1},\kern 1pt\Coordz{#1})}
2111 \def\coordx#1{($x_{#1}$)}
2112 \def\coordy#1{($y_{#1}$)}
2113 \def\coordz#1{($z_{#1}$)}
2114 \def\cAny{(\Coordx{}}\kern 1pt\Coordy{}}
2115 \def\ciiiiAny{(\Coordx{}}\kern 1pt\Coordy{}}\kern 1pt\Coordz{}}
2116
2117 \newsavebox{\boxdef}
2118 \newenvironment{BDef}
2119   {\begin{lrbox}\boxdef
2120     \def\arraystretch{1.0}
2121     \begin{tabular}{@{}l@{}l@{}l@{}}
2122   }
2123   {\end{tabular}\end{lrbox}}
2124
2125   {\BCmd\fbbox{\usebox\boxdef}\endBCmd}
2126   \aftergroup\@afterindentfalse\aftergroup\@afterheading
2127 }
2128
2129 \newenvironment{BDef*}
2130   {\begin{lrbox}\boxdef
2131     \def\arraystretch{1.0}
2132     \begin{tabular}{@{}l@{}l@{}l@{}}
2133   }
2134   {\end{tabular}\end{lrbox}}
2135   {\begin{BCmd*}\fbbox{\usebox\boxdef}\endBCmd*}}
2136   \aftergroup\@afterindentfalse\aftergroup\@afterheading
2137 }

```



```

2138 \newenvironment{BCmd}{
2139   \@beginparpenalty-\@lowpenalty
2140   \topsep\BDefaboveskip
2141   \fbboxsep3pt
2142   \flushleft}
2143 {\@endparpenalty\@M
2144  \@topsepadd\BDefbelowskip
2145  \endflushleft}
2146
2147 \newenvironment{BCmd*}{
2148   \@beginparpenalty\@M
2149   \topsep\BDefinlineskip
2150   \fbboxsep3pt
2151   \flushleft}
2152 {\@endparpenalty5000
2153  \endflushleft}
2154
2155 \newskip\BDefaboveskip
2156 \newskip\BDefbelowskip
2157 \newskip\BDefinlineskip
2158 \setlength\BDefaboveskip{10pt plus 4pt}
2159 \setlength\BDefbelowskip{6pt}
2160 \setlength\BDefinlineskip{6pt}
2161
2162 \def\OptArgs{\colorbox{black!20}{\texttt{[Options]}}\kern1pt}
2163 \def\OptArg{\@ifnextchar*\OptArgi{\OptArgii*}}
2164 \def\OptArgi*#1{\colorbox{black!20}{\texttt{#1}}\kern1pt}
2165 \def\OptArgii*#1{\colorbox{black!20}{\texttt{[#1]}}\kern1pt}

```

## 7.19 bidiftnxtra.sty

```

2166 \NeedsTeXFormat{LaTeX2e}
2167 \ProvidesPackage{bidiftnxtra}
2168 \newtoks\bidip@ftn
2169 \let\FN@sffootnote\footnote
2170 \let\FN@sff@LTRfootnote\LTRfootnote
2171 \let\FN@sff@RTLfootnote\RTLfootnote
2172 \def\footnote{\ifx\protect\@typeset@protect
2173   \expandafter\FN@sffootnote
2174   \else
2175   \expandafter\FN@sff@gobble@opt
2176   \fi
2177 }
2178 \def\LTRfootnote{\ifx\protect\@typeset@protect
2179   \expandafter\FN@sff@LTRfootnote
2180   \else
2181   \expandafter\FN@sff@gobble@opt
2182   \fi
2183 }
2184 \def\RTLfootnote{\ifx\protect\@typeset@protect

```





```

2185 \expandafter\FN@sf@RTLfootnote
2186 \else
2187 \expandafter\FN@sf@gobble@opt
2188 \fi
2189 }
2190 \edef\FN@sf@gobble@opt{\noexpand\protect
2191 \expandafter\noexpand\csname FN@sf@gobble@opt \endcsname}
2192 \expandafter\def\csname FN@sf@gobble@opt \endcsname{%
2193 \@ifnextchar[%]
2194 \FN@sf@gobble@twobrace
2195 \@gobble
2196 }
2197 \def\FN@sf@gobble@twobrace[#1]#2{
2198 \let\FN@sf@footnotemark\footnotemark
2199 \def\footnotemark{\ifx\protect\@typeset@protect
2200 \expandafter\FN@sf@footnotemark
2201 \else
2202 \expandafter\FN@sf@gobble@optonly
2203 \fi
2204 }
2205 \edef\FN@sf@gobble@optonly{\noexpand\protect
2206 \expandafter\noexpand\csname FN@sf@gobble@optonly \endcsname}
2207 \expandafter\def\csname FN@sf@gobble@optonly \endcsname{%
2208 \@ifnextchar[%]
2209 \FN@sf@gobble@brace
2210 {}%
2211 }
2212 \def\FN@sf@gobble@brace[#1]{%
2213 \def\@tabular{%
2214 \leavevmode \hbox \bgroup
2215 \let\@footnotetext\@bidi@p@ftntext
2216 \let\@LTRfootnotetext\@bidi@p@LTRftntext
2217 \let\@RTLfootnotetext\@bidi@p@RTLftntext
2218 \let\@xfootnotenext\@bidi@p@xftntext
2219 \let\@xfootnote\@bidi@p@xfootnote
2220 \let\@xLTRfootnotenext\@bidi@p@xLTRftntext
2221 \let\@xLTRfootnote\@bidi@p@xLTRfootnote
2222 \let\@xRTLfootnotenext\@bidi@p@xRTLftntext
2223 \let\@xRTLfootnote\@bidi@p@xRTLfootnote
2224 \if@RTLtab\beginR \fi
2225 $\let\@acol\@tabacol
2226 \let\@classz\@tabclassz
2227 \let\@classiv\@tabclassiv \let\\\@tabularcr\@tabarray}
2228 \def\endtabular{\crr\egroup\if@RTLtab\egroup\endR\egroup\fi
2229 \egroup $\if@RTLtab\endR\fi\egroup
2230 \ifx\@capttype\@undefined
2231 \global\@bidi@p@ftn\expandafter{\expandafter}\the\@bidi@p@ftn\fi}
2232 \long\def\@bidi@p@ftntext#1{%
2233 \edef\@tempy{\the\@bidi@p@ftn\noexpand\footnotetext[\the\csname c@ \@mpfn\endcsname]}}%
2234 \global\@bidi@p@ftn\expandafter{\@tempy{#1}}}%

```



```

2235 \long\def\bidip@LTRfnttext#1{%
2236   \edef\@tempyi{\the\bidip@ftn\noexpand\LTRfootnotetext[\the\csname c@\mpfn\endcsname]}}%
2237   \global\bidip@ftn\expandafter{\@tempyi{#1}}}%
2238 \long\def\bidip@RTLfnttext#1{%
2239   \edef\@tempyii{\the\bidip@ftn\noexpand\RTLfootnotetext[\the\csname c@\mpfn\endcsname]}}%
2240   \global\bidip@ftn\expandafter{\@tempyii{#1}}}%
2241
2242
2243 \long\def\bidip@xftntext[#1]#2{%
2244   \global\bidip@ftn\expandafter{\the\bidip@ftn\footnotetext[#1]{#2}}}
2245
2246 \long\def\bidip@xLTRfnttext[#1]#2{%
2247   \global\bidip@ftn\expandafter{\the\bidip@ftn\LTRfootnotetext[#1]{#2}}}
2248
2249 \long\def\bidip@xRTLfnttext[#1]#2{%
2250   \global\bidip@ftn\expandafter{\the\bidip@ftn\RTLfootnotetext[#1]{#2}}}
2251
2252
2253 \def\bidip@xfootnote[#1]{%
2254   \begingroup
2255     \csname c@\mpfn\endcsname #1\relax
2256     \unrestored@protected@xdef\@thefnmark{\thempfn}%
2257   \endgroup
2258   \@footnotemark\bidip@xftntext[#1]}
2259
2260
2261 \def\bidip@xLTRfootnote[#1]{%
2262   \begingroup
2263     \csname c@\mpfn\endcsname #1\relax
2264     \unrestored@protected@xdef\@thefnmark{\thempfn}%
2265   \endgroup
2266   \@footnotemark\bidip@xLTRfnttext[#1]}
2267
2268
2269 \def\bidip@xRTLfootnote[#1]{%
2270   \begingroup
2271     \csname c@\mpfn\endcsname #1\relax
2272     \unrestored@protected@xdef\@thefnmark{\thempfn}%
2273   \endgroup
2274   \@footnotemark\bidip@xRTLfnttext[#1]}
2275
2276 \def\@xfloat #1[#2]{%
2277   \@nodocument
2278   \def \@capttype {#1}%
2279   \def \@fps {#2}%
2280   \@onelevel@sanitize \@fps
2281   \def \reserved@b {!}%
2282   \ifx \reserved@b \@fps
2283     \@fpsadddefault
2284   \else

```



```

2285     \ifx \@fps \@empty
2286         \fpsaddddefault
2287     \fi
2288 \fi
2289 \ifhmode
2290     \@bsphack
2291     \@floatpenalty -\@Mii
2292 \else
2293     \@floatpenalty-\@Miii
2294 \fi
2295 \ifinner
2296     \@parmoderr\@floatpenalty\z@
2297 \else
2298     \@next\@currbox\@freelist
2299     {%
2300         \@tempcnta \sixt@@n
2301         \expandafter \@tfor \expandafter \reserved@a
2302             \expandafter :\expandafter =\@fps
2303         \do
2304             {%
2305                 \if \reserved@a h%
2306                     \ifodd \@tempcnta
2307                     \else
2308                         \advance \@tempcnta \@ne
2309                     \fi
2310                 \if \reserved@a t%
2311                     \@setfpsbit \tw@
2312                 \fi
2313                 \if \reserved@a b%
2314                     \@setfpsbit 4%
2315                 \fi
2316                 \if \reserved@a p%
2317                     \@setfpsbit 8%
2318                 \fi
2319                 \if \reserved@a !%
2320                     \ifnum \@tempcnta>15
2321                         \advance\@tempcnta -\sixt@@n\relax
2322                     \fi
2323                 \fi
2324             }%
2325         \@tempcntb \csname ftype@\@capytype \endcsname
2326         \multiply \@tempcntb \@xxxii
2327         \advance \@tempcnta \@tempcntb
2328         \global \count\@currbox \@tempcnta
2329     }%
2330     \@fltovf
2331 \fi
2332 \global \setbox\@currbox
2333     \color@vbox
2334

```



```

2335 \normalcolor
2336 \vbox \bgroup
2337 \let\@footnotetext\bidip@ftntext
2338 \let\@LTRfootnotetext\bidip@LTRftntext
2339 \let\@RTLfootnotetext\bidip@RTLftntext
2340 \let\@xfootnotenext\bidip@xftntext
2341 \let\@xfootnote\bidip@xfootnote
2342 \let\@xLTRfootnotenext\bidip@xLTRftntext
2343 \let\@xLTRfootnote\bidip@xLTRfootnote
2344 \let\@xRTLfootnotenext\bidip@xRTLftntext
2345 \let\@xRTLfootnote\bidip@xRTLfootnote
2346 \hsize\columnwidth
2347 \@parboxrestore
2348 \@floatboxreset
2349 }
2350 \def \@endfloatbox{%
2351 \par\vskip\z@skip %% \par\vskip\z@ added 15 Dec 87
2352 \@minipagefalse
2353 \outer@nobreak
2354 \egroup %% end of vbox
2355 \global\bidip@ftn\expandafter{\expandafter}\the\bidip@ftn
2356 \color@endbox
2357 }

```

## 7.20 bidimoderncv.cls

```

2358 \NeedsTeXFormat{LaTeX2e}
2359 \ProvidesClass{bidimoderncv}
2360 \newif\if@DEBUG\@DEBUGfalse
2361 \DeclareOption{a4paper}{
2362 \setlength\paperheight{297mm}
2363 \setlength\paperwidth{210mm}}
2364 \DeclareOption{a5paper}{
2365 \setlength\paperheight{210mm}
2366 \setlength\paperwidth{148mm}}
2367 \DeclareOption{b5paper}{
2368 \setlength\paperheight{250mm}
2369 \setlength\paperwidth{176mm}}
2370 \DeclareOption{letterpaper}{
2371 \setlength\paperheight{11in}
2372 \setlength\paperwidth{8.5in}}
2373 \DeclareOption{legalpaper}{
2374 \setlength\paperheight{14in}
2375 \setlength\paperwidth{8.5in}}
2376 \DeclareOption{executivepaper}{
2377 \setlength\paperheight{10.5in}
2378 \setlength\paperwidth{7.25in}}
2379 \DeclareOption{landscape}{
2380 \setlength\@tempdima{\paperheight}
2381 \setlength\paperheight{\paperwidth}

```



```

2382 \setlength\paperwidth{\@tempdima}
2383 \newcommand\@ptsize{}
2384 \DeclareOption{10pt}{\renewcommand\@ptsize{0}}
2385 \DeclareOption{11pt}{\renewcommand\@ptsize{1}}
2386 \DeclareOption{12pt}{\renewcommand\@ptsize{2}}
2387 \DeclareOption{draft}{\setlength\overfullrule{5pt}}
2388 \DeclareOption{final}{\setlength\overfullrule{0pt}}
2389 \newif\if@colour\@colourtrue
2390 \DeclareOption{nocolour}{\@colourfalse}
2391 \ExecuteOptions{a4paper,11pt,colour,final}
2392 \ProcessOptions\relax
2393 \input{size1\@ptsize.clo}
2394 \RequirePackage{color}
2395 \RequirePackage{graphicx}
2396 \RequirePackage{ifthen}
2397 \RequirePackage{marvosym}
2398 \addtolength{\oddsidemargin}{-54pt}
2399 \addtolength{\textwidth}{109pt}
2400 \addtolength{\topmargin}{-70pt}
2401 \addtolength{\textheight}{122pt}
2402 \addtolength{\marginparsep}{-5pt}
2403 \addtolength{\marginparwidth}{-10pt}
2404 \RequirePackage{url}
2405 \RequirePackage{hyperref}
2406 \hypersetup{%
2407   breaklinks,
2408   baseurl      = http://,%
2409   pdfborder     = 0 0 0,%
2410   pdfpagemode   = UseNone,%
2411   pdfstartpage  = 1}
2412 \AtEndOfClass{%
2413   \AtBeginDocument{%
2414     \hypersetup{%
2415       pdfauthor    = \@firstname~\@familyname,%
2416       pdftitle     = \@title,%
2417       pdfsubject   = \@firstname~\@familyname,%
2418       pdfkeywords  = \@resumename~\@firstname~\@familyname}}}
2419 \urlstyle{tt}
2420 \RequirePackage{fancyhdr}
2421 \fancypagestyle{plain}{%
2422   \renewcommand{\headrulewidth}{0pt}
2423   \renewcommand{\footrulewidth}{0pt}
2424   \fancyhf{}}
2425 \pagestyle{plain}
2426 \setlength\lineskip{1\p@}
2427 \setlength\normallineskip{1\p@}
2428 \renewcommand\baselinestretch{}
2429 \setlength{\parindent}{0pt}
2430 \setlength{\parskip}{0pt}
2431 \setlength\columnsep{10\p@}

```



```

2432 \setlength\columnseprule{0\p@}
2433 \pagestyle{empty}
2434 \pagenumbering{arabic}
2435 \raggedbottom
2436 \onecolumn
2437 \providecommand*\listitemsymbol{\textbullet}
2438 \providecommand*\addresssymbol{}
2439 \providecommand*\mobilesymbol{\Mobilefone}
2440 \providecommand*\phonesymbol{\Telefon}
2441 \providecommand*\faxsymbol{\FAX}
2442 \providecommand*\emailsymbol{\Letter}
2443 \definecolor{firstnamecolour}{rgb}{0,0,0}
2444 \def\firstnamecolour#1{\gdef\@firstnamecolour{\addfontfeature{Color=#1}}}
2445 \def\familynamecolour#1{\gdef\@familynamecolour{\addfontfeature{Color=#1}}}
2446 \def\titlecolour#1{\gdef\@titlecolour{\addfontfeature{Color=#1}}}
2447 \def\addresscolour#1{\gdef\@addresscolour{\addfontfeature{Color=#1}}}
2448 \def\quotecolour#1{\gdef\@quotecolour{\addfontfeature{Color=#1}}}
2449 \def\sectiontitlecolour#1{\gdef\@sectiontitlecolour{\addfontfeature{Color=#1}}}
2450 \definecolor{sectionrectanglecolor}{rgb}{0,0,0}
2451 \def\subsectioncolour#1{\gdef\@subsectioncolour{\addfontfeature{Color=#1}}}
2452 \def\hintcolour#1{\gdef\@hintcolour{\addfontfeature{Color=#1}}}
2453 \providecommand*\firstnamefont{}
2454 \providecommand*\familynamefont{}
2455 \providecommand*\titlefont{}
2456 \providecommand*\addressfont{}
2457 \providecommand*\quoteftfont{}
2458 \providecommand*\sectionfont{}
2459 \providecommand*\subsectionfont{}
2460 \providecommand*\hintfont{\small}
2461 \providecommand*\firstnamestyle[1]{\{\@firstnamefont\@firstnamecolour#1}}
2462 \providecommand*\familynamestyle[1]{\{\@familynamefont\@familynamecolour#1}}
2463 \providecommand*\titlestyle[1]{\{\@titlefont\@titlecolour#1}}
2464 \providecommand*\addresstyle[1]{\{\@addressfont\@addresscolour#1}}
2465 \providecommand*\quotestyle[1]{\{\@quoteftfont\@quotecolour#1}}
2466 \providecommand*\sectionstyle[1]{\{\@sectionfont\@sectiontitlecolour#1}}
2467 \providecommand*\subsectionstyle[1]{\{\@subsectionfont\@subsectioncolour#1}}
2468 \providecommand*\hintstyle[1]{\{\@hintfont\@hintcolour#1}}
2469 \newcommand*\cvtheme[2]{}
2470 \def\@cvtheme#2{}
2471 \def\@cvthemeoptions#1{}
2472 \cvtheme{bidi-casual}
2473 \AtBeginDocument{\RequirePackage[\@cvthemeoptions]{cvtheme\cvtheme}}
2474 \newcommand*\resumename[1]{\def\@resumename{#1}}
2475 \newcommand*\firstname[1]{\def\@firstname{#1}}
2476 \newcommand*\familyname[1]{\def\@familyname{#1}}
2477 \renewcommand*\title[1]{\def\@title{#1}}
2478 \newcommand*\address[1]{\def\@address{#1}}
2479 \newcommand*\mobile[1]{\def\@mobile{#1}}
2480 \newcommand*\phone[1]{\def\@phone{#1}}
2481 \renewcommand*\fax[1]{\def\@fax{#1}}

```



```

2482 \newcommand*{\email}[1]{\def\@email{#1}}
2483 \newcommand*{\extrainfo}[1]{\def\@extrainfo{#1}}
2484 \def\@photowidth{0pt}
2485 \newcommand*{\photo}[2][64pt]{\def\@photowidth{#1}\def\@photo{#2}}
2486 \newcommand*{\quote}[1]{\def\@quote{#1}}
2487 \newlength{\quotewidth}
2488 \newlength{\hintscolumnwidth}
2489 \newlength{\separatorcolumnwidth}
2490 \setlength{\separatorcolumnwidth}{0.025\textwidth}
2491 \newlength{\maincolumnwidth}
2492 \newlength{\doubleitemmaincolumnwidth}
2493 \newlength{\listitemsymbolwidth}
2494 \settowidth{\listitemsymbolwidth}{\listitemsymbol{~}}
2495 \newlength{\listitemmaincolumnwidth}
2496 \newlength{\listdoubleitemmaincolumnwidth}
2497 \newcommand*{\recomputethemelengths}{%
2498 \newcommand*{\recomputelengths}{%
2499 \setlength{\quotewidth}{0.65\textwidth}%
2500 \setlength{\maincolumnwidth}{\textwidth}%
2501 \addtolength{\maincolumnwidth}{-\separatorcolumnwidth}%
2502 \addtolength{\maincolumnwidth}{-\hintscolumnwidth}%
2503 \setlength{\listitemmaincolumnwidth}{\maincolumnwidth}%
2504 \addtolength{\listitemmaincolumnwidth}{-\listitemsymbolwidth}%
2505 \setlength{\doubleitemmaincolumnwidth}{\maincolumnwidth}%
2506 \addtolength{\doubleitemmaincolumnwidth}{-\hintscolumnwidth}%
2507 \addtolength{\doubleitemmaincolumnwidth}{-\separatorcolumnwidth}%
2508 \setlength{\doubleitemmaincolumnwidth}{0.5\doubleitemmaincolumnwidth}%
2509 \setlength{\listdoubleitemmaincolumnwidth}{\maincolumnwidth}%
2510 \addtolength{\listdoubleitemmaincolumnwidth}{-\listitemsymbolwidth}%
2511 \setlength{\listdoubleitemmaincolumnwidth}{0.475\listdoubleitemmaincolumnwidth}%
2512 \renewcommand{\headwidth}{\textwidth}%
2513 \recomputethemelengths}
2514 \setlength{\hintscolumnwidth}{0.15\textwidth}
2515 \recomputelengths
2516 \title{}
2517 \renewcommand*{\maketitle}{%
2518 \newcommand*{\section}[1]{%
2519 \vspace*{2.5ex \@plus 1ex \@minus .2ex}%
2520 \phantomsection}%
2521 \addcontentsline{toc}{part}{#1}%
2522 \parbox[m]{\hintscolumnwidth}{\bidi@raggedleft\hintfont{\leavevmode\color{sectionrectangle}
2523 \hspace{\separatorcolumnwidth}%
2524 \parbox[m]{\maincolumnwidth}{\sectionstyle{#1}}\@{1ex}}
2525 \newcommand*{\subsection}[1]{%
2526 \cvline[0.45em]{\subsectionstyle{#1}}
2527 \newcommand*{\cvline}[3][.25em]{%
2528 \begin{tabular}{@{}p{\hintscolumnwidth}@{\hspace{\separatorcolumnwidth}}p{\maincolumnwidth}}
2529 \bidi@raggedleft\hintfont{#2} &{#3}%
2530 \end{tabular}}\@{#1}}
2531 \newcommand*{\cvdoubleitem}[4]{%

```



```

2532 \cvline{#1}{\begin{minipage}[t]{\doubleitemmaincolumnwidth}#2\end{minipage}}%
2533 \hfill%
2534 \begin{minipage}[t]{\hintscolumnwidth}\bidi@raggedleft\hintfont{#3}\end{minipage}\hspace*{\s
2535 \newcommand*{\cvlistitem}[2][\listitemsymbol]{}%
2536 \cvline[0pt]{#1~\begin{minipage}[t]{\listitemmaincolumnwidth}#2\end{minipage}}%
2537 \newcommand*{\cvlistdoubleitem}[3][\listitemsymbol]{}%
2538 \cvline[0pt]{#1~\begin{minipage}[t]{\listdoubleitemmaincolumnwidth}#2\end{minipage}}%
2539 \hfill%
2540 \ifthenelse{\equal{#3}{}}{%
2541 {}%
2542 {#1~\begin{minipage}[t]{\listdoubleitemmaincolumnwidth}#3\end{minipage}}}%
2543 \newcommand*{\cventry}[6]{%
2544 \cvline{#1}{%
2545 {\bfseries#2}%
2546 \ifx#3\else{, \slshape#3}\fi%
2547 \ifx#4\else{, #4}\fi%
2548 \ifx#5\else{, #5}\fi%
2549 .%
2550 \ifx#6\else{\newline}\begin{minipage}[t]{\linewidth}\small#6\end{minipage}}\fi
2551 }%
2552 \newcommand*{\cvlanguage}[3]{%
2553 \cvline{#1}{\begin{minipage}[t]{.225\maincolumnwidth}\textbf{#2}\end{minipage}\hfill\begin{
2554 \newcommand*{\cvcomputer}[4]{%
2555 \cdoubleitem{#1}{\small#2}{#3}{\small#4}}
2556 \newcommand*{\link}[2][{}]{%
2557 \ifthenelse{\equal{#1}{}}{%
2558 {\href{#2}{#2}}%
2559 {\href{#2}{#1}}}%
2560 \newcommand*{\httplink}[2][{}]{%
2561 \ifthenelse{\equal{#1}{}}{%
2562 {\href{http://#2}{#2}}%
2563 {\href{http://#2}{#1}}}%
2564 \newcommand*{\emailink}[2][{}]{%
2565 \ifthenelse{\equal{#1}{}}{%
2566 {\href{mailto:#2}{#2}}%
2567 {\href{mailto:#2}{#1}}}%
2568 \newif\if@displaypagenumbers\@displaypagenumberstrue
2569 \newcommand*{\nopagenumbers}{\@displaypagenumbersfalse}
2570 \AtBeginDocument{%
2571 \if@displaypagenumbers%
2572 \@ifundefined{r@lastpage}{\fi%
2573 \ifthenelse{\pageref{lastpage} > 1}{%
2574 \fancypagestyle{plain}{%
2575 \fancyfoot[r]{\beginL\addressfont\@quotecolour\footnotesize\thepage\beginL/\endL\page
2576 \pagestyle{plain}}}%
2577 \AtEndDocument{\label{lastpage}}%
2578 \fi}
2579 \newlength{\bibindent}
2580 \setlength{\bibindent}{1.5em}
2581 \newcommand*{\bibliographyitemlabel}{\includegraphics{bibitem.pdf}}

```





```

2582 \newenvironment{thebibliography}[1]%
2583   {%
2584     \section{\refname}%
2585     \small%
2586     \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
2587     \bidi@thebibliography@font@hook%
2588     \begin{list}{\bibliographyitemlabel}%
2589       {%
2590         \setlength{\topsep}{0pt}%
2591         \setlength{\labelwidth}{\hintscolumnwidth}%
2592         \setlength{\labelsep}{\separatorcolumnwidth}%
2593         \leftmargin\labelwidth%
2594         \advance\leftmargin\labelsep%
2595         \@openbib@code%
2596         \usecounter{enumiv}%
2597         \let\p@enumiv\@empty%
2598         \renewcommand\theenumiv{\@arabic\c@enumiv}}%
2599         \sloppy\clubpenalty4000\widowpenalty4000%
2600       }%
2601     {%
2602       \def\@noitemerr{\@latex@warning{Empty `thebibliography' environment}}%
2603       \end{list}%
2604     }
2605 \newcommand\newblock{\hskip .11em\@plus.33em\@minus.07em}
2606 \let\@openbib@code\@empty

```

## 7.21 biditools.sty

```

2607 \NeedsTeXFormat{LaTeX2e}
2608 \ProvidesPackage{biditools}[2016/11/30 v0.9 Programming tools for bidi package]
2609 \providecommand{\@bidi@saveprimitive}[2]{\begingroup\escapechar`\relax
2610   \edef\@tempa{\string#1}\edef\@tempb{\meaning#1}%
2611   \ifx\@tempa\@tempb \global\let#2#1%
2612   \else
2613     \edef\@tempb{\meaning#2}%
2614     \ifx\@tempa\@tempb
2615     \else
2616       \@latex@error{Unable to properly define \string#2; primitive
2617         \noexpand#1no longer primitive}\@eha
2618     \fi
2619   \fi
2620   \endgroup}
2621 \newtoks\@bidi@envbody
2622 \newtoks\@bidi@emptytoks
2623 \def\bidi@addto@envbody#1{\global\@bidi@envbody\expandafter{\the\@bidi@envbody#1}}
2624 \def\bidi@collect@body#1{%
2625   \@bidi@envbody{\expandafter#1\expandafter{\the\@bidi@envbody}}%
2626   \edef\bidi@process@envbody{\the\@bidi@envbody\noexpand\end{\@currenvir}}%
2627   \@bidi@envbody\@bidi@emptytoks \def\begin@bidi@stack{b}%
2628   \begingroup

```



```

2629 \expandafter\let\curname\@currentvir\endcurname\bidicollect@@body
2630 \edef\bidiprocess@envbody{\expandafter\noexpand\curname\@currentvir\endcurname}%
2631 \bidiprocess@envbody
2632 }
2633 \def\bidipush@begins#1\begin#2{%
2634 \ifx\end#2\else b\expandafter\bidipush@begins\fi
2635 }
2636 \def\bidicollect@@body#1\end#2{%
2637 \edef\begin@bidi@stack{\bidipush@begins#1\begin\end \expandafter\@gobble\begin@bidi@stack}
2638 \ifx\@empty\begin@bidi@stack
2639 \endgroup
2640 \@checkend{#2}%
2641 \bidicollect@@body#1\end#2}%
2642 \else
2643 \bidicollect@@body#1\end{#2}%
2644 \fi
2645 \bidiprocess@envbody % A little tricky! Note the grouping
2646 }
2647 \long\def\bidicollect@long@body#1\end#2{%
2648 \long\def\bidicollect@long@body#1{%
2649 \@bidicollect@@body#1\end#2}%
2650 \edef\bidiprocess@envbody{\the\@bidicollect@@body\noexpand\end{\@currentvir}}%
2651 \@bidicollect@@body#1\end#2\def\begin@bidi@stack{b}%
2652 \begin@bidi@stack
2653 \expandafter\let\curname\@currentvir\endcurname\bidicollect@long@@body
2654 \edef\bidiprocess@envbody{\expandafter\noexpand\curname\@currentvir\endcurname}%
2655 \bidiprocess@envbody
2656 }
2657 \long\def\bidipush@long@begins#1\begin#2{%
2658 \ifx\end#2\else b\expandafter\bidipush@long@begins\fi
2659 }
2660 \long\def\bidicollect@long@@body#1\end#2{%
2661 \edef\begin@bidi@stack{\bidipush@long@begins#1\begin\end \expandafter\@gobble\begin@bidi@stack}
2662 \ifx\@empty\begin@bidi@stack
2663 \endgroup
2664 \@checkend{#2}%
2665 \bidicollect@long@@body#1\end#2}%
2666 \else
2667 \bidicollect@long@@body#1\end{#2}%
2668 \fi
2669 \bidiprocess@envbody % A little tricky! Note the grouping
2670 }
2671 \long\def\bidinew@ifnextchar#1#2#3{%
2672 \let\reserved@d= #1%
2673 \def\reserved@a{#2}\def\reserved@b{#3}%
2674 \futurelet\@let@token\bidinew@ifnch
2675 }
2676 \def\bidinew@ifnch{%
2677 \ifx\@let@token\reserved@d \let\reserved@b\reserved@a \fi
2678 \reserved@b

```



```

2679 }
2680 \def\bidi@matrix@check#1{%
2681   \expandafter\ifx\csname\@currentvir\endcsname#1%
2682   \else\bidi@matrix@error#1%
2683   \expandafter\@gobble
2684   \fi
2685 }
2686 \def\bidi@matrix@error#1{%
2687   \PackageError{biditools}{%
2688 Old form ``\string#1' should be \string\begin{\expandafter\@gobble\string#1}%
2689   }{%
2690 ``\string#1{...}' is old bidi package syntax whose use is
2691 ill-advised in the old versions of bidi package.%
2692   }%
2693 }
2694 \def\@tagsextension{clo}
2695 \def\@definitionfileextension{def}
2696 \def\@texfileextension{tex}
2697 \def\@iftagsloaded{\@ifl@aded\@tagsextension}
2698 \def\@ifdefinitionfileloaded{\@ifl@aded\@definitionfileextension}
2699 \def\@iftexfileloaded{\@ifl@aded\@texfileextension}
2700 \def\eqnewif#1#2{%
2701   \count@\escapechar \escapechar\m@ne
2702   \let#1\iffalse
2703   \let#2\iffalse
2704   \eq@if#1#2\iftrue
2705   \eq@if#1#2\iffalse
2706   \escapechar\count@}
2707 \def\eq@if#1#2#3{%
2708   \expandafter\def\csname\expandafter\@gobbletwo\string#1%
2709   \expandafter\@gobbletwo\string#3\endcsname
2710   {\let#1#3%
2711   \let#2#3}%
2712   \expandafter\def\csname\expandafter\@gobbletwo\string#2%
2713   \expandafter\@gobbletwo\string#3\endcsname
2714   {\let#2#3%
2715   \let#1#3}}
2716 \newcommand*\@SetBoolean}[2]{%
2717   \lowercase{\def\@tempa{#2}}%
2718   \@ifundefined{\@tempswa\@tempa}%
2719   {\PackageError{biditools}%
2720    {You can only set a boolean to `true' or `false'}\@ehc}%
2721   {\@ifundefined{#1\@tempa}%
2722    {\PackageError{biditools}{Boolean #1 undefined}\@ehc}%
2723    {\csname#1\@tempa\endcsname}}}
2724 \newcommand*\@GlobalSetBoolean}[2]{%
2725   \lowercase{\def\@tempa{#2}}%
2726   \@ifundefined{\@tempswa\@tempa}%
2727   {\PackageError{biditools}%
2728    {You can only set a boolean to `true' or `false'}\@ehc}%

```



```

2729 {\@ifundefined{#1\@tempa}%
2730 {\PackageError{biditools}{Boolean #1 undefined}\@ehc}%
2731 {\global\csname#1\@tempa\endcsname}}}
2732 \newcommand*{\SetatBoolean}[2]{%
2733 \lowercase{\def\@tempa{#2}}%
2734 \@ifundefined{@tempwa\@tempa}%
2735 {\PackageError{biditools}%
2736 {You can only set a boolean to `true' or `false'}\@ehc}%
2737 {\@ifundefined{@#1\@tempa}%
2738 {\PackageError{biditools}{Boolean @#1 undefined}\@ehc}%
2739 {\csname @#1\@tempa\endcsname}}}
2740 \newcommand*{\GlobalSetatBoolean}[2]{%
2741 \lowercase{\def\@tempa{#2}}%
2742 \@ifundefined{@tempwa\@tempa}%
2743 {\PackageError{biditools}%
2744 {You can only set a boolean to `true' or `false'}\@ehc}%
2745 {\@ifundefined{@#1\@tempa}%
2746 {\PackageError{biditools}{Boolean @#1 undefined}\@ehc}%
2747 {\global\csname @#1\@tempa\endcsname}}}
2748 \def\@bidi@removefromreset#1#2{%
2749 \expandafter\let\csname c@#1\endcsname\@bidi@removefromreset
2750 \def\@elt##1{%
2751 \expandafter\ifx\csname c@##1\endcsname\@bidi@removefromreset
2752 \else
2753 \noexpand\@elt{##1}%
2754 \fi}%
2755 \expandafter\xdef\csname cl@#2\endcsname{%
2756 \csname cl@#2\endcsname}}}
2757 \newcommand*{\ifRtoL}{%
2758 \if@RTL
2759 \expandafter\@firstoftwo
2760 \else
2761 \expandafter\@secondoftwo
2762 \fi}
2763 \newcommand*{\ifLtoR}{%
2764 \if@RTL
2765 \expandafter\@secondoftwo
2766 \else
2767 \expandafter\@firstoftwo
2768 \fi}
2769 \newcommand*{\ifRtoLtable}{%
2770 \if@RTLtab
2771 \expandafter\@firstoftwo
2772 \else
2773 \expandafter\@secondoftwo
2774 \fi}
2775 \newcommand*{\ifLtoRtable}{%
2776 \if@RTLtab
2777 \expandafter\@secondoftwo
2778 \else

```



```

2779 \expandafter\@firstoftwo
2780 \fi}
2781 \newcommand*\ifRtoLhboxconstruct}{%
2782 \if@hboxRconstruct
2783 \expandafter\@firstoftwo
2784 \else
2785 \expandafter\@secondoftwo
2786 \fi}
2787 \newcommand*\ifLtoRhboxconstruct}{%
2788 \if@hboxRconstruct
2789 \expandafter\@secondoftwo
2790 \else
2791 \expandafter\@firstoftwo
2792 \fi}
2793 \newcommand*\iflatin}{%
2794 \if@nonlatin
2795 \expandafter\@secondoftwo
2796 \else
2797 \expandafter\@firstoftwo
2798 \fi}
2799 \newcommand*\ifnonlatin}{%
2800 \if@nonlatin
2801 \expandafter\@firstoftwo
2802 \else
2803 \expandafter\@secondoftwo
2804 \fi}
2805
2806 \newcommand*\bidi@@convert@dimen@t@unit}[2]{%
2807 \strip@pt\dimexpr #1*65536/\dimexpr 1#2\relax #2}
2808
2809 \newcommand*\bidi@@convert@dimen@t@pt}[1]{%
2810 \dimexpr #1*65536/\dimexpr 1pt\relax}
2811
2812 \newcommand*\if@bidi@csdef}[1]{%
2813 \ifcsname#1\endcsname
2814 \expandafter\@firstoftwo
2815 \else
2816 \expandafter\@secondoftwo
2817 \fi}
2818 \newcommand*\if@bidi@csundef}[1]{%
2819 \ifcsname#1\endcsname
2820 \expandafter\ifx\csname#1\endcsname\relax
2821 \expandafter\expandafter
2822 \expandafter\@firstoftwo
2823 \else
2824 \expandafter\expandafter
2825 \expandafter\@secondoftwo
2826 \fi
2827 \else
2828 \expandafter\@firstoftwo

```



```

2829 \fi}
2830 \newcommand{\if@bidi@def}[1]{%
2831   \ifdefined#1%
2832     \expandafter\@firstoftwo
2833   \else
2834     \expandafter\@secondoftwo
2835   \fi}
2836 \newcommand{\if@bidi@undef}[1]{%
2837   \ifdefined#1%
2838     \ifx#1\relax
2839       \expandafter\expandafter
2840       \expandafter\@firstoftwo
2841     \else
2842       \expandafter\expandafter
2843       \expandafter\@secondoftwo
2844     \fi
2845   \else
2846     \expandafter\@firstoftwo
2847   \fi}
2848 \newcommand{\if@bidi@blank}[1]{% from url.sty
2849   \bidi@ifblank@i#1&&\@secondoftwo\@firstoftwo:}
2850 \long\def\bidi@ifblank@i#1#2&#3#4#5:{#4}
2851 \newcommand{\bidi@notblank}[1]{%
2852   \bidi@ifblank@i#1&&\@firstoftwo\@secondoftwo:}
2853 \newcommand{\if@bidi@defmacro}{%
2854   \long\edef\if@bidi@defmacro#1{%
2855     \noexpand\expandafter\noexpand\bidi@ifdefmacro
2856     \noexpand\meaning#1\detokenize{macro}:&}
2857   \edef\bidi@ifdefmacro{%
2858     \def\noexpand\bidi@ifdefmacro##1\detokenize{macro}:##2&
2859     \bidi@ifdefmacro{\bidi@notblank{#2}}
2860   \newcommand*\if@bidi@csmacro}[1]{%
2861     \if@bidi@csdef{#1}
2862       {\expandafter\if@bidi@defmacro\csname#1\endcsname}
2863       {\@secondoftwo}}
2864 \newcommand{\if@bidi@defprimitive}[1]{%
2865   \ifprimitive#1%
2866     \expandafter\@firstoftwo
2867   \else
2868     \expandafter\@secondoftwo
2869   \fi}
2870 \newcommand{\if@bidi@csprimitive}[1]{%
2871   \begingroup\expandafter\expandafter\expandafter\endgroup%
2872   \expandafter\ifprimitive\csname#1\endcsname%
2873   \expandafter\@firstoftwo
2874   \else
2875     \expandafter\@secondoftwo
2876   \fi}
2877 \newcommand*\bidi@csdefcs}[2]{%
2878   \expandafter\ifdefinable \csname#1\endcsname{%

```



```

2879 \expandafter\def\csname#1\expandafter\endcsname{\csname#2\endcsname}}
2880 \newcommand*{\bidi@csletcs}[2]{%
2881 \expandafter\@ifdefinable \csname#1\endcsname{%
2882 \expandafter\let\csname#1\expandafter\endcsname\csname#2\endcsname}}
2883 \newcommand*{\bidi@cslet}[2]{%
2884 \expandafter\@ifdefinable \csname#1\endcsname{%
2885 \expandafter\let\csname#1\endcsname#2}}
2886 \newcommand{\bidi@namelongdef}[1]{%
2887 \long\expandafter\def\csname #1\endcsname{
2888 \def\bidi@ensure@newcommand{\@star@or@long\bidi@ensure@new@command}
2889 \def\bidi@ensure@new@command#1{%
2890 \begingroup \escapechar\m@ne\xdef\@gtempa{\string#1}\endgroup
2891 \expandafter\if@bidi@csundef\@gtempa
2892 {\new@command#1}{\relax%
2893 \let\@ifdefinable\@rc@ifdefinable%
2894 \new@command#1}}
2895 \def\bidi@ensure@newlength#1{\if@bidi@undef#1{\newskip#1}{}}
2896
2897 \protected\def\bidi@error{\PackageError{bidi}}
2898 \protected\def\bidi@warning{\PackageWarning{bidi}}
2899 \protected\def\bidi@info{\PackageInfo{bidi}}
2900
2901
2902 \newcommand*{\setbaselineskip}[1]{%
2903 \linespread{\strip@pt\dimexpr\numexpr\dimexpr#1\relax*65536/\dimexpr\baselineskip\relax\n
2904 \selectfont
2905 }
2906
2907
2908 \newcommand*{\bidi@newrobustcmd}{}
2909 \protected\def\bidi@newrobustcmd{\@star@or@long\bidi@new@command}
2910
2911 \def\bidi@new@command#1{\@testopt{\bidi@newcommand#1}0}
2912
2913 \def\bidi@newcommand#1[#2]{%
2914 \@ifnextchar [%]
2915 {\bidi@xargdef#1[#2]}
2916 {\ifx\l@ngrel@x\relax
2917 \let\l@ngrel@x\protected
2918 \else
2919 \protected\def\l@ngrel@x{\protected\long}%
2920 \fi
2921 \@argdef#1[#2]}}
2922
2923 \long\def\bidi@xargdef#1[#2][#3]#4{%
2924 \@ifdefinable#1{%
2925 \expandafter\protected
2926 \expandafter\def
2927 \expandafter#1%
2928 \expandafter{%

```



```

2929     \expandafter\@testopt
2930     \csname\string#1\endcsname{#3}}%
2931     \expandafter\@yargdef\csname\string#1\endcsname\tw@{#2}{#4}}
2932
2933 \bidi@newrobustcmd*{\bidi@renewrobustcmd}{\@star@or@long\bidi@renew@command}
2934
2935 \def\bidi@renew@command#1{%
2936   \if@bidi@undef{#1}
2937     {\bidi@error{\string#1 undefined}\@ehc}
2938   }%
2939   \let\@ifdefinable\@rc@ifdefinable
2940   \bidi@new@command#1}
2941
2942
2943
2944 \bidi@newrobustcmd*{\bidi@providerobustcmd}{\@star@or@long\bidi@provide@command}
2945
2946 \def\bidi@provide@command#1{%
2947   \if@bidi@undef{#1}
2948     {\def\reserved@a{\bidi@new@command#1}}
2949     {\def\reserved@a{\bidi@renew@command\reserved@a}}%
2950   \reserved@a}
2951
2952 \newcommand*{\bidi@csuse}[1]{%
2953   \ifcsname#1\endcsname
2954     \csname#1\expandafter\endcsname
2955   \fi}
2956
2957 \newcommand{\bidi@expandonce}[1]{%
2958   \unexpanded\expandafter{#1}}
2959
2960 \def\bidi@protected{%
2961   \let\@protect\protect
2962   \let\protect\@unexpandable@protect
2963   \afterassignment\restore@protect}
2964
2965 \bidi@newrobustcmd{\bidi@appto}[2]{%
2966   \if@bidi@undef{#1}
2967     {\edef#1{\unexpanded{#2}}}
2968     {\edef#1{\bidi@expandonce#1\unexpanded{#2}}}}
2969 \bidi@newrobustcmd{\bidi@eappto}[2]{%
2970   \if@bidi@undef{#1}
2971     {\edef#1{#2}}
2972     {\edef#1{\bidi@expandonce#1#2}}}
2973 \bidi@newrobustcmd{\bidi@gappto}[2]{%
2974   \if@bidi@undef{#1}
2975     {\xdef#1{\unexpanded{#2}}}
2976     {\xdef#1{\bidi@expandonce#1\unexpanded{#2}}}}
2977 \bidi@newrobustcmd{\bidi@xappto}[2]{%
2978   \if@bidi@undef{#1}

```





```

2979     {\xdef#1{#2}}
2980     {\xdef#1{\bidi@expandonce#1#2}}
2981
2982 \bidi@newrobustcmd*{\bidi@protected@eappto}{\bidi@protected\bidi@eappto}
2983 \bidi@newrobustcmd*{\bidi@protected@xappto}{\bidi@protected\bidi@xappto}
2984
2985
2986
2987 \bidi@newrobustcmd{\bidi@preto}[2]{%
2988     \if@bidi@undef{#1}
2989     {\edef#1{\unexpanded{#2}}}
2990     {\edef#1{\unexpanded{#2}\bidi@expandonce#1}}
2991 \bidi@newrobustcmd{\bidi@epreto}[2]{%
2992     \if@bidi@undef{#1}
2993     {\edef#1{#2}}
2994     {\edef#1{#2\bidi@expandonce#1}}
2995 \bidi@newrobustcmd{\bidi@gpreto}[2]{%
2996     \if@bidi@undef{#1}
2997     {\xdef#1{\unexpanded{#2}}}
2998     {\xdef#1{\unexpanded{#2}\bidi@expandonce#1}}
2999 \bidi@newrobustcmd{\bidi@xpreto}[2]{%
3000     \if@bidi@undef{#1}
3001     {\xdef#1{#2}}
3002     {\xdef#1{#2\bidi@expandonce#1}}
3003
3004 \bidi@newrobustcmd*{\bidi@protected@epreto}{\bidi@protected\bidi@epreto}
3005 \bidi@newrobustcmd*{\bidi@protected@xpreto}{\bidi@protected\bidi@xpreto}
3006
3007
3008
3009 \bidi@newrobustcmd*{\bidi@cseappto}[1]{\expandafter\bidi@appto\csname#1\endcsname}
3010 \bidi@newrobustcmd*{\bidi@cseappto}[1]{\expandafter\bidi@eappto\csname#1\endcsname}
3011 \bidi@newrobustcmd*{\bidi@csgappto}[1]{\expandafter\bidi@gappto\csname#1\endcsname}
3012 \bidi@newrobustcmd*{\bidi@csxappto}[1]{\expandafter\bidi@xappto\csname#1\endcsname}
3013 \bidi@newrobustcmd*{\bidi@protected@cseappto}{\bidi@protected\bidi@cseappto}
3014 \bidi@newrobustcmd*{\bidi@protected@csxappto}{\bidi@protected\bidi@csxappto}
3015
3016
3017
3018 \bidi@newrobustcmd*{\bidi@cspreto}[1]{\expandafter\bidi@preto\csname#1\endcsname}
3019 \bidi@newrobustcmd*{\bidi@csepreto}[1]{\expandafter\bidi@epreto\csname#1\endcsname}
3020 \bidi@newrobustcmd*{\bidi@csgpreto}[1]{\expandafter\bidi@gpreto\csname#1\endcsname}
3021 \bidi@newrobustcmd*{\bidi@csxpreto}[1]{\expandafter\bidi@xpreto\csname#1\endcsname}
3022 \bidi@newrobustcmd*{\bidi@protected@csepreto}{\bidi@protected\bidi@csepreto}
3023 \bidi@newrobustcmd*{\bidi@protected@csxpreto}{\bidi@protected\bidi@csxpreto}
3024
3025
3026
3027 \bidi@newrobustcmd{\if@bidi@patchable}{%
3028     \bidi@dbg@trce\if@bidi@patchable

```



```

3029 \begingroup
3030 \@makeother\#%
3031 \@ifstar\bidiffpatchable@i\bidiffpatchable}
3032
3033 \long\def\bidiffpatchable#1#2{%
3034 \endgroup
3035 \bidiffpatch@init#1%
3036 \if@bidiffpatch@undef{#1}
3037   {\bidiffpatch@fail{def}\@secondoftwo}
3038   {\bidiffpatch@info{def}%
3039     \if@bidiffpatch@defmacro{#1}
3040     {\bidiffpatch@info{mac}%
3041       \bidiffpatch@ifscanable{#1}
3042       {\bidiffpatch@ifhashcheck{#2}
3043         {\bidiffpatch@info{tok}%
3044           \bidiffpatch@pattern#1{#2}
3045           {\bidiffpatch@info{pat}%
3046             \bidiffpatch@info{pos}\@firstoftwo}
3047             {\bidiffpatch@fail{pat}\@secondoftwo}}
3048             {\bidiffpatch@fail{hsh}\@secondoftwo}}
3049             {\bidiffpatch@fail{tok}\@secondoftwo}}
3050             {\bidiffpatch@fail{mac}\@secondoftwo}}}
3051
3052 \long\def\bidiffpatchable@i#1{%
3053 \endgroup
3054 \bidiffpatch@init#1%
3055 \if@bidiffpatch@undef{#1}
3056   {\bidiffpatch@fail{def}\@secondoftwo}
3057   {\bidiffpatch@info{def}%
3058     \if@bidiffpatch@defmacro{#1}
3059     {\bidiffpatch@info{mac}%
3060       \if@bidiffpatch@defparam{#1}
3061       {\bidiffpatch@info{prm}%
3062         \bidiffpatch@ifscanable{#1}
3063         {\bidiffpatch@info{tok}%
3064           \bidiffpatch@info{pos}\@firstoftwo}
3065           {\bidiffpatch@fail{tok}\@secondoftwo}}
3066           {\bidiffpatch@info{prl}%
3067             \if@bidiffpatch@defprotected{#1}
3068             {\bidiffpatch@info{pro}}
3069             {}%
3070             \bidiffpatch@info{pos}\@firstoftwo}}
3071             {\bidiffpatch@fail{mac}\@secondoftwo}}}
3072
3073 \bidiffpatch@newrobustcmd*{\bidiffpatchcmd}{%
3074 \bidiffpatch@trce\bidiffpatchcmd
3075 \begingroup
3076 \@makeother\#%
3077 \bidiffpatch@patchcmd}
3078

```



```

3079 \newcommand{\bidi@patchcmd}[4][#####1]{%
3080   \bidi@ifpatchable#2{#3}
3081   {\bidi@dbg@succ{ret}}%
3082   \begingroup
3083   \edef\bidi@resrvda{%
3084     \def\noexpand\bidi@resrvda####1\detokenize{macro:}####2->####3&{%
3085       #1\def\string\bidi@resrvda\space####2{\noexpand\bidi@resrvdb####3&}}%
3086     \def\noexpand\bidi@resrvdb####1\detokenize{#3}####2&{%
3087       ####1\detokenize{#4}####2}%
3088     \edef\noexpand\bidi@resrvda{%
3089       \noexpand\bidi@resrvda\meaning#2&}}%
3090   \bidi@resrvda
3091   \bidi@patchcmd@scantoks\bidi@resrvda
3092   \let#2\bidi@resrvda
3093   \bidi@undef\bidi@resrvda
3094   \@firstoftwo}
3095   {\@secondoftwo}}
3096
3097 \def\bidi@patchcmd@scantoks#1{%
3098   \edef\bidi@resrvda{\endgroup
3099     \unexpanded{\makeatletter\scantokens}{#1}%
3100     \catcode\number`\@=\the\catcode`\@relax}%
3101   \bidi@resrvda}
3102
3103 \newcommand\bidi@isloaded[2][]{
3104   \expandafter\ifx\csname if@bidi@#2loaded@endcsname\relax
3105     \expandafter\newif\csname if@bidi@#2loaded@endcsname
3106     \fi
3107     \@ifpackageloaded{#2}
3108     {\csname @bidi@#2loaded@trueendcsname #1}
3109     {\csname @bidi@#2loaded@falseendcsname}}
3110
3111 \protected\def\bidi@ifscanable#1{%
3112   \begingroup
3113   \edef\bidi@resrvda{%
3114     \def\noexpand\bidi@resrvda####1\detokenize{macro:}####2->####3&{%
3115       ####1\def\string\bidi@resrvda####2{####3}}%
3116     \edef\noexpand\bidi@resrvda{\noexpand\bidi@resrvda\meaning#1&}}%
3117   \bidi@resrvda
3118   \makeatletter
3119   \scantokens\expandafter{\bidi@resrvda}%
3120   \expandafter\endgroup\ifx#1\bidi@resrvda
3121     \expandafter\@firstoftwo
3122   \else
3123     \expandafter\@secondoftwo
3124   \fi}
3125
3126
3127 \protected\long\def\bidi@ifhashcheck#1{%
3128   \begingroup

```



```

3129 \edef\bidiresrvda{\detokenize{#1}}%
3130 \expandafter\endgroup
3131 \expandafter\bidiiifhashcheck@i\meaning\bidiresrvda&}
3132
3133 \edef\bidiiifhashcheck@i#1{%
3134 \noexpand\expandafter
3135 \noexpand\bidiiifhashcheck@ii
3136 \noexpand\strip@prefix#1\string#\string#&}
3137
3138 \edef\bidiiifhashcheck@ii{%
3139 \def\noexpand\bidiiifhashcheck@ii##1\string#\string##2&}
3140 \bidiiifhashcheck@ii{\if@bidi@blank{#2}}
3141
3142
3143 \protected\long\def\bidiiifpattern#1#2{%
3144 \begingroup
3145 \edef\bidiresrvda{%
3146 \def\noexpand\bidiresrvda####1\detokenize{#2}####2&{%
3147 \endgroup\noexpand\noexpand\noexpand\if@bidi@blank{####2}}}%
3148 \edef\noexpand\bidiresrvda{\noexpand\bidiresrvda
3149 \expandafter\strip@prefix\meaning#1\detokenize{#2}&}%
3150 \noexpand\bidiresrvda}
3151 \bidiresrvda\@secondoftwo\@firstoftwo}
3152
3153
3154 \newcommand{\if@bidi@defparam}{%
3155 \long\edef\if@bidi@defparam#1{%
3156 \noexpand\expandafter\noexpand\bidiiifdefparam
3157 \noexpand\meaning#1\detokenize{macro}:->&}
3158 \edef\bidiiifdefparam{%
3159 \def\noexpand\bidiiifdefparam##1\detokenize{macro}:##2->##3&}
3160 \bidiiifdefparam{\bidiiifnotblank{#2}}
3161
3162
3163 \newcommand{\if@bidi@defprotected}{%
3164 \long\edef\if@bidi@defprotected#1{%
3165 \noexpand\expandafter\noexpand\bidiiifdefprotected
3166 \noexpand\meaning#1\string\protected&}
3167 \edef\bidiiifdefprotected{%
3168 \def\noexpand\bidiiifdefprotected##1\string\protected##2&}
3169 \bidiiifdefprotected{\bidiiifnotblank{#2}}
3170
3171
3172 \bidi@newrobustcmd{\bidi@undef}[1]{\let#1\bidi@undefined}
3173
3174 \let\bidi@dbg@trce\@gobble
3175 \let\bidi@dbg@init\@gobble
3176 \let\bidi@dbg@info\@gobble
3177 \let\bidi@dbg@succ\@gobble
3178 \let\bidi@dbg@fail\@gobble

```



```

3179
3180
3181
3182 \bidi@newrobustcmd*{\bidi@apptocmd}{%
3183   \bidi@dbg@trce\bidi@apptocmd
3184   \begingroup
3185   \@makeother\#%
3186   \bidi@hooktocmd\bidi@append}
3187
3188
3189
3190 \bidi@newrobustcmd*{\bidi@pretocmd}{%
3191   \bidi@dbg@trce\bidi@pretocmd
3192   \begingroup
3193   \@makeother\#%
3194   \bidi@hooktocmd\bidi@prepend}
3195
3196 \long\def\bidi@hooktocmd#1#2#3{%
3197   \endgroup
3198   \bidi@dbg@init#2%
3199   \if\bidi@undef{#2}
3200     {\bidi@dbg@fail{def}}\@secondoftwo}
3201     {\bidi@dbg@info{def}%
3202     \if\bidi@defmacro{#2}
3203       {\bidi@dbg@info{mac}%
3204       \if\bidi@defparam{#2}
3205         {\bidi@dbg@info{prm}%
3206         \bidi@ifscanable{#2}
3207           {\bidi@ifhashcheck{#3}
3208             {\bidi@dbg@info{tok}%
3209             \bidi@dbg@succ{ret}%
3210             \bidi@hooktocmd@i#1#2{#3}%
3211             \@firstoftwo}
3212             {\bidi@dbg@fail{hsh}}\@secondoftwo}}
3213             {\bidi@dbg@fail{tok}}\@secondoftwo}}
3214             {\bidi@dbg@info{prl}%
3215             \if\bidi@defprotected{#2}
3216               {\bidi@dbg@info{pro}%
3217               \bidi@dbg@succ{red}%
3218               \protected}
3219               {\bidi@dbg@succ{red}}}%
3220             \edef#2{#1{\bidi@expandonce#2}{\unexpanded{#3}}}%
3221             \@firstoftwo}}
3222             {\bidi@dbg@fail{mac}}\@secondoftwo}}}}
3223
3224 \long\def\bidi@hooktocmd@i#1#2#3{%
3225   \begingroup
3226   \edef\bidi@resrvda{%
3227     \def\noexpand\bidi@resrvda####1\detokenize{macro}:####2->####3&{%
3228       ####1\def\string\bidi@resrvda\space####2{#1{####3}{\detokenize{#3}}}}}%

```



```

3229 \edef\noexpand\bidi@resrvda{%
3230 \noexpand\bidi@resrvda\meaning#2&}}%
3231 \bidi@resrvda
3232 \bidi@patchcmd@scantoks\bidi@resrvda
3233 \let#2\bidi@resrvda
3234 \bidi@undef\bidi@resrvda}
3235
3236 \long\def\bidi@append#1#2{#1#2}
3237 \long\def\bidi@prepend#1#2{#2#1}
3238
3239 \bidi@newrobustcmd*{\bidi@AtEndPreamble}{\bidi@gappto\bidi@endpreamblehook}
3240 \newcommand*{\bidi@endpreamblehook}{\}
3241
3242 \bidi@preto\document{%
3243 \endgroup
3244 \let\bidi@AtEndPreamble\@firstofone
3245 \bidi@endpreamblehook
3246 \protected\def\bidi@AtEndPreamble{\@notprerr\@gobble}%
3247 \bidi@undef\bidi@endpreamblehook
3248 \begingroup}
3249
3250 \bidi@newrobustcmd*{\bidi@AfterPreamble}{\AtBeginDocument}
3251 \bidi@AtEndPreamble{\let\bidi@AfterPreamble\@firstofone}
3252
3253 \bidi@newrobustcmd*{\bidi@AfterEndPreamble}{\bidi@gappto\bidi@afterendpreamblehook}
3254 \newcommand*{\bidi@afterendpreamblehook}{\}
3255
3256 \bidi@appto\document{%
3257 \let\bidi@AfterEndPreamble\@firstofone
3258 \bidi@afterendpreamblehook
3259 \protected\def\bidi@AfterEndPreamble{\@notprerr\@gobble}%
3260 \bidi@undef\bidi@afterendpreamblehook
3261 \ignorespaces}
3262
3263 \AtEndDocument{\let\bidi@AfterEndPreamble\@gobble}
3264
3265 \bidi@newrobustcmd*{\bidi@AfterEndDocument}{\bidi@gappto\bidi@afterenddocumenthook}
3266 \newcommand*{\bidi@afterenddocumenthook}{\}
3267
3268 \bidi@patchcmd\enddocument
3269 {\deadcycles}
3270 {\let\bidi@AfterEndDocument\@firstofone
3271 \bidi@afterenddocumenthook
3272 \deadcycles}
3273 {}
3274 {\let\bidi@@end\@end
3275 \def\@end{%
3276 \let\bidi@AfterEndDocument\@firstofone
3277 \bidi@afterenddocumenthook
3278 \bidi@@end}}

```



```

3279
3280 \bidi@newrobustcmd{\bidi@AtBeginEnvironment}[1]{%
3281   \bidi@csgappto{@bidi@begin@#1@hook}}
3282
3283 \bidi@patchcmd\begin
3284   {\csname #1\endcsname}
3285   {\bidi@csuse{@bidi@begin@#1@hook}%
3286    \csname #1\endcsname}
3287   {}
3288   {\bidi@warning{%
3289     Patching '\string\begin' failed!\MessageBreak
3290     '\string\bidi@AtBeginEnvironment' will not work@gobble}}
3291
3292
3293
3294 \bidi@newrobustcmd{\bidi@AtEndEnvironment}[1]{%
3295   \bidi@csgappto{@bidi@end@#1@hook}}
3296
3297 \bidi@patchcmd\end
3298   {\csname end#1\endcsname}
3299   {\bidi@csuse{@bidi@end@#1@hook}%
3300    \csname end#1\endcsname}
3301   {}
3302   {\bidi@warning{%
3303     Patching '\string\end' failed!\MessageBreak
3304     '\string\bidi@AtEndEnvironment' will not work@gobble}}
3305
3306
3307
3308 \bidi@newrobustcmd{\bidi@BeforeBeginEnvironment}[1]{%
3309   \bidi@csgappto{@bidi@beforebegin@#1@hook}}
3310
3311 \bidi@pretocmd\begin
3312   {\bidi@csuse{@bidi@beforebegin@#1@hook}}
3313   {}
3314   {\bidi@warning{%
3315     Patching '\string\begin' failed!\MessageBreak
3316     '\string\bidi@BeforeBeginEnvironment' will not work@gobble}}
3317
3318
3319
3320 \bidi@newrobustcmd{\bidi@AfterEndEnvironment}[1]{%
3321   \bidi@csgappto{@bidi@afterend@#1@hook}}
3322
3323 \bidi@patchcmd\end
3324   {\if@ignore}
3325   {\bidi@csuse{@bidi@afterend@#1@hook}%
3326    \if@ignore}
3327   {}
3328   {\bidi@warning{%

```



```

3329     Patching '\string\end' failed!\MessageBreak
3330     '\string\bid@AfterEndEnvironment' will not work\@gobble}}
3331
3332 \CheckCommand{\InputIfFileExists}[2]{%
3333   \IfFileExists{#1}%
3334     {#2\@addtofilelist{#1}\@input \@filef@und}}
3335
3336 \renewcommand{\InputIfFileExists}[2]{%
3337   \begingroup\expandafter\expandafter\expandafter\endgroup
3338   \expandafter\ifx\csname #1-@bid@alias\endcsname\relax
3339     \expandafter\@secondoftwo
3340   \else
3341     \bid@replacefile@msg{\csname #1-@bid@alias\endcsname}{#1}%
3342     \expandafter\@firstoftwo
3343   \fi
3344   {%
3345     \expandafter\InputIfFileExists\expandafter{\csname
3346       #1-@bid@alias\endcsname}{#2}%
3347   }%
3348   {\IfFileExists{#1}{%
3349     \bid@load@hook{before}{#1}%
3350     #2\@addtofilelist{#1}%
3351     \@input \@filef@und
3352     \bid@load@hook{after}{#1}%
3353   }}%
3354 }
3355
3356 \newcommand*{\bid@@loadwithoptions}{%
3357 \newcommand*{\bid@loadwithoptions}{%
3358 \let\bid@loadwithoptions\loadwithoptions
3359
3360 \renewcommand*{\@loadwithoptions}[3]{%
3361   \begingroup\expandafter\expandafter\expandafter\endgroup
3362   \expandafter\ifx\csname #3.#1-@bid@aliasname\endcsname\relax
3363     \def\bid@@loadwithoptions{\bid@loadwithoptions{#1}{#2}{#3}}%
3364   \else
3365     \bid@replacefile@msg{\csname #3.#1-@bid@aliasname\endcsname.#1}{#3.#1}%
3366     \def\bid@@loadwithoptions{%
3367       \@loadwithoptions{#1}{#2}{\csname #3.#1-@bid@aliasname\endcsname}%
3368     }%
3369   \fi
3370   \bid@@loadwithoptions
3371 }
3372
3373 \newcommand*{\bid@onefilewithoptions}{%
3374 \let\bid@onefilewithoptions\@onefilewithoptions
3375 \def\@onefilewithoptions#1[#2][#3]#4{%
3376   \begingroup\expandafter\expandafter\expandafter\endgroup
3377   \expandafter\ifx\csname #1.#4-@bid@aliasname\endcsname\relax
3378     \def\bid@@onefilewithoptions{\bid@onefilewithoptions{#1}}%

```





```

3379 \else
3380 \bidi@replacefile@msg{\csname #1.#4-@bidi@aliasname\endcsname.#4}{#1.#4}%
3381 \edef\bidi@@onefilewithoptions{%
3382 \noexpand\@onefilewithoptions{\csname #1.#4-@bidi@aliasname\endcsname}}%
3383 \fi
3384 \bidi@@onefilewithoptions[#2][#3]{#4}%
3385 \bidi@load@hook{lateafter}{#1.#4}%
3386 }
3387
3388 \newcommand*\bidi@ReplaceInput}[2]{%
3389 \expandafter\edef\csname #1-@bidi@alias\endcsname{#2}%
3390 }
3391
3392 \newcommand*\bidi@UnReplaceInput}[1]{%
3393 \ifcsname #1-@bidi@alias\endcsname
3394 \expandafter\let\csname #1-@bidi@alias\endcsname\relax
3395 \fi
3396 }
3397
3398 \newcommand*\bidi@replacefilewithext}[3]{%
3399 \expandafter\edef\csname #1.#3-@bidi@aliasname\endcsname{#2}%
3400 }
3401 \newcommand*\bidi@ReplacePackage}[2]{%
3402 \bidi@replacefilewithext{#1}{#2}\@pkgextension
3403 }
3404 \newcommand*\bidi@ReplaceClass}[2]{%
3405 \bidi@replacefilewithext{#1}{#2}\@clsextension
3406 }
3407 \newcommand*\bidi@unreplacefilewithext}[2]{%
3408 \ifcsname #1.#2-@bidi@aliasname\endcsname
3409 \expandafter\let\csname #1.#2-@bidi@aliasname\endcsname\relax
3410 \fi
3411 }
3412 \newcommand*\bidi@UnReplacePackage}[1]{%
3413 \bidi@unreplacefilewithext{#1}\@pkgextension
3414 }
3415 \newcommand*\bidi@UnReplaceClass}[1]{%
3416 \bidi@unreplacefilewithext{#1}\@clsextension
3417 }
3418 \newcommand*\bidi@replacefile@msg}[2]{%
3419 \PackageInfo{biditools}{inputing `#1' instead of `#2'}%
3420 }
3421
3422 \newcommand*\bidi@load@hook}[2]{%
3423 \ifundefined{#2-@#1}{}%
3424 \@nameuse{#2-@#1}%
3425 \expandafter\let\csname #2-@#1\endcsname=\relax}}
3426 \newcommand*\bidi@set@load@hook}[2]{%
3427 \ifundefined{#2-@#1}{\@namedef{#2-@#1}{}}{}}%
3428 \expandafter\g@addto@macro\csname #2-@#1\endcsname}

```



```

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

```



```

3479 \ifstar {\@s@bidi@AfterPackage}{%
3480 \ifnextchar +\@bidi@AfterPackage{%
3481 \ifnextchar !\@@@bidi@AfterPackage\@bidi@AfterPackage
3482 }%
3483 }%
3484 }
3485 \newcommand*{\@@@bidi@AfterPackage}[2]{%
3486 \begingroup\ifx\csname #2.\@pkgextension-h@k\endcsname\relax
3487 \aftergroup\@s@bidi@AfterPackage
3488 \else
3489 \aftergroup\@bidi@AfterAtEndOfPackage
3490 \fi
3491 \endgroup{#2}%
3492 }
3493 \newcommand*{\@bidi@AfterAtEndOfPackage}[1]{%
3494 \bidi@set@load@hook{lateafter}{#1.\@pkgextension}}
3495 \newcommand*{\@@bidi@AfterPackage}[2]{%
3496 \begingroup
3497 \expandafter\ifx\csname #2.\@pkgextension-h@k\endcsname\relax
3498 \aftergroup\@s@bidi@AfterPackage
3499 \else
3500 \aftergroup\@bidi@AfterPackage
3501 \fi
3502 \endgroup{#2}%
3503 }
3504 \newcommand*{\@bidi@AfterPackage}[1]{%
3505 \bidi@set@load@hook{after}{#1.\@pkgextension}}
3506 \newcommand*{\@s@bidi@AfterPackage}[1]{%
3507 \begingroup
3508 \@ifpackageloaded{#1}{%
3509 \aftergroup\@secondoftwo
3510 }{%
3511 \aftergroup\@bidi@AfterPackage
3512 }%
3513 \endgroup
3514 {#1}%
3515 }
3516
3517 \newcommand*{\@bidi@excludedpackages}{}
3518 \let\@bidi@excludedpackages\@empty
3519 \newcommand*{\@bidi@saved@RequirePackage}{}
3520 \newcommand*{\@bidi@PreventPackageFromLoading}{%
3521 \@ifstar{\@bidi@PreventPackageFromLoading\PackageInfo}%
3522 {\@bidi@PreventPackageFromLoading\PackageWarning}%
3523 }
3524 \newcommand*{\@bidi@PreventPackageFromLoading}[1]{%
3525 \@ifnextchar [%]
3526 {\@bidi@PreventPackageFromLoading#1}{\@bidi@PreventPackageFromLoading#1 []}%
3527 }
3528 \newcommand*{\@@@bidi@PreventPackageFromLoading}{}

```



```

3529
3530 \def\@bidi@PreventPackageFromLoading#1[#2]#3{%
3531   \edef\reserved@b{\zap@space#3 \@empty}%
3532   \ifx \reserved@b\@empty
3533     #1{biditools}{%
3534       \string\bidi@PreventPackageFromLoading\space with empty packages\MessageBreak
3535       argument ignored%
3536     }%
3537   \else
3538     \ifx\bidi@excludedpackages\@empty
3539       \let\bidi@saved@RequirePackage\RequirePackage
3540       \let\RequirePackage\bidi@RequirePackage
3541       \def\reserved@a##1##{%
3542         \@latex@error
3543         {\noexpand \usepackage before \string\documentclass}%
3544         {\noexpand \usepackage may only appear in the document
3545          preamble, i.e.,\MessageBreak
3546          between \noexpand\documentclass and
3547          \string\begin{document}.}%
3548         \@gobble}%
3549       \ifx\reserved@a\usepackage\else
3550       \ifx\usepackage\bidi@saved@RequirePackage\else
3551         \PackageWarning{biditools}{%
3552           Maybe serious problem: unexpected definition of\MessageBreak
3553           \string\usepackage
3554         }%
3555       \fi
3556       \let\usepackage\RequirePackage
3557     \fi
3558   \fi
3559   \expandafter\@for \expandafter\reserved@a\expandafter:\expandafter=%
3560   \reserved@b\do {%
3561     \ifx\reserved@a\@empty
3562       #1{biditools}{%
3563         empty package argument for
3564         \string\bidi@PreventPackageFromLoading\MessageBreak
3565         ignored%
3566       }%
3567     \else
3568       \expandafter\@ifpackageloaded\expandafter{\reserved@a}{%
3569         #1{biditools}{%
3570           package '\reserved@a' already loaded.\MessageBreak
3571           Cannot prevent it from being loaded%
3572         }%
3573       }{%
3574         \edef\bidi@excludedpackages{\bidi@excludedpackages,%
3575           \reserved@a}%
3576       \if\relax\detokenize{#2}\relax\else
3577         \@ifundefined{bidi@exclude@package@\reserved@a @do}{%
3578           \@namedef{bidi@exclude@package@\reserved@a @do}{}%

```



```

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

```



```

3629 \fi
3630 \ifcsname bidi@excludedpackages\endcsname
3631 \let\reserved@a\bidi@excludedpackages
3632 \let\bidi@excludedpackages\@empty
3633 \expandafter\@for\expandafter\reserved@c
3634 \expandafter:\expandafter=\reserved@a
3635 \do{%
3636 \ifx\reserved@c\@empty\else
3637 \@expandtwoargs\in@{\reserved@c,}{\reserved@b,}%
3638 \ifin@
3639 \else
3640 \edef\bidi@excludedpackages{%
3641 \bidi@excludedpackages,\reserved@c
3642 }%
3643 \fi
3644 \fi
3645 }%
3646 \ifx\bidi@excludedpackages\@empty\bidi@ResetPreventPackageFromLoading\fi
3647 \fi
3648 }
3649
3650
3651 \newcommand*{\bidi@RequirePackage}[2][{}]{%
3652 \let\reserved@c\@empty
3653 \let\reserved@d\@empty
3654 \edef\reserved@b{\zap@space#2 \@empty}%
3655 \expandafter\@for\expandafter\reserved@b\expandafter:\expandafter=\reserved@b
3656 \do {%
3657 \begingroup
3658 \@tempswatrue
3659 \@for\reserved@a:=\bidi@excludedpackages\do {%
3660 \ifx\reserved@a\reserved@b
3661 \@tempswafalse
3662 \fi
3663 }%
3664 \if@tempswa
3665 \xdef\reserved@c{\reserved@c,\reserved@b}%
3666 \else
3667 \ifx\reserved@b\@empty\else
3668 \PackageInfo{bidiutils}{Excluding package `'\reserved@b'\MessageBreak
3669 from loading}%
3670 \@ifundefined{bidi@exclude@package@\reserved@b @do}{%
3671 }{%
3672 \expandafter\g@addto@macro\expandafter\reserved@d
3673 \csname bidi@exclude@package@\reserved@b @do\endcsname
3674 }%
3675 \fi
3676 \fi
3677 \endgroup
3678 }%

```



```

3679 \ifx\reserved@c\@empty
3680 \let\reserved@a\@gobbleopt
3681 \else
3682 \edef\reserved@a{\noexpand\@gobble\reserved@c\@empty}}%
3683 \expandafter\@gobble\reserved@c\@empty}}%
3684 \fi
3685 \expandafter\reserved@d
3686 \reserved@a
3687 }
3688
3689 \newcommand{\@gobbleopt}[1]{}{}
3690 \AtEndDocument{%
3691 \let\@gobble@checkend=\@checkend
3692 \renewcommand*\@checkend}[1]{%
3693 \def\reserved@a{#1}\def\reserved@b{document}}%
3694 \@gobble@checkend{#1}%
3695 \ifx\reserved@a\reserved@b
3696 \let\@gobble@clearpage=\clearpage
3697 \renewcommand*\@clearpage{\@gobble@clearpage
3698 \@hook@bcma
3699 \@restore@newpage
3700 \let\clearpage=\@gobble@clearpage}%
3701 \fi%
3702 \let\@gobble@dofilelist\@dofilelist
3703 \def\@dofilelist{%
3704 \@hook@acma
3705 \let\@dofilelist\@gobble@dofilelist
3706 \@gobble@dofilelist
3707 }%
3708 }%
3709 }
3710
3711
3712 \newcommand*\@gobble@checkend{}{}
3713 \newcommand*\@gobble@dofilelist{}{}
3714 \newcommand*\@gobble@redefine@newpage{}%
3715 \let\@gobble@newpage\newpage
3716 \def\@gobble@restore@newpage{%
3717 \renewcommand*\@newpage{}%
3718 \PackageWarningNoLine{%
3719 biditools%
3720 }{%
3721 \string\newpage\space at main aux file!\MessageBreak
3722 You have output material at the main aux file.\MessageBreak
3723 Note, that the \string\@gobble@BeforeClosingMainAux\space commands\MessageBreak
3724 are processed before the output from aux file%
3725 }%
3726 \let\newpage\@gobble@newpage
3727 \newpage
3728 }%

```



```

3729 }%
3730 \renewcommand*{\newpage}{%
3731   \PackageError{%
3732     biditools%
3733   }{%
3734     \string\newpage\space at \string\bid@BeforeClosingMainAux
3735   }{%
3736     You should never use \string\newpage\space or
3737     \string\clear(double)page or other output material at the\MessageBreak
3738     argument of \string\bid@BeforeClosingMainAux!\MessageBreak
3739     If you'll continue, the \string\newpage\space will be ignored to
3740     avoid corruption of\MessageBreak
3741     every prior use of \string\bid@BeforeClosingMainAux.
3742   }%
3743 }%
3744 }
3745
3746 \newcommand*{\bid@restore@newpage}{}
3747 \newcommand*{\bid@hook@bcma}{}
3748 \newcommand*{\bid@hook@acma}{}
3749 \newcommand*{\bid@BeforeClosingMainAux}{%
3750   \ifx\bid@hook@bcma\@empty
3751     \gdef\bid@hook@bcma{%
3752       \renewcommand*{\bid@BeforeClosingMainAux}[1]{###1}%
3753       \let\protected@write\bid@protected@immediate@write
3754       \bid@redefine@newpage
3755     }%
3756   \fi
3757   \g@addto@macro\bid@hook@bcma%
3758 }
3759
3760 \newcommand*{\bid@AfterReadingMainAux}{%
3761   \ifx\bid@hook@acma\@empty
3762     \gdef\bid@hook@acma{%
3763       \renewcommand*{\bid@AfterReadingMainAux}[1]{###1}%
3764       \let\protected@write\bid@protected@immediate@write
3765     }%
3766   \fi
3767   \g@addto@macro\bid@hook@acma%
3768 }
3769
3770 \long\def\bid@protected@immediate@write#1#2#3{%
3771   \begingroup
3772     #2%
3773     \let\protect\@unexpandable@protect
3774     \edef\reserved@a{\immediate\write#1{#3}}%
3775     \reserved@a
3776   \endgroup
3777   \if@nobreak\ifvmode\nobreak\fi\fi
3778 }

```





```

3779
3780 \def\bidipatch@counter{0}%
3781 \if@bidi@csundef{numexpr}{%
3782   \def\bidipatch@stepcounter{%
3783     \begingroup
3784       \count@\bidipatch@counter\relax
3785       \advance\count@\@ne\relax
3786     \edef\x{\endgroup
3787       \noexpand\def\noexpand\bidipatch@counter{\the\count@}%
3788     }%
3789     \x
3790   }%
3791 }{%
3792   \def\bidipatch@stepcounter{%
3793     \edef\bidipatch@counter{%
3794       \the\numexpr\bidipatch@counter+\@ne\relax
3795     }%
3796   }%
3797 }
3798 \def\bidipatch@list{}
3799 \def\bidipatch@Add{%
3800   \bidi@appto\bidipatch@list
3801 }
3802 \def\bidipatch@AfterPackage#1{%
3803   \@ifpackageloaded{#1}{%
3804     \@firstofone
3805   }{%
3806     \bidipatch@AfterPackage{#1}%
3807   }%
3808 }
3809 \def\bidipatch@AfterPackage#1{%
3810   \edef\bidipatch@temp{#1}%
3811   \bidipatch@stepcounter
3812   \expandafter\bidipatch@@AfterPackage
3813   \csname bidipatch@\bidipatch@counter\expandafter\endcsname{%
3814     \bidipatch@temp
3815   }%
3816 }
3817 \def\bidipatch@@AfterPackage#1#2#3{%
3818   \begingroup
3819     \toks@{#3}%
3820     \xdef\bidipatch@gtemp{%
3821       \noexpand\@ifpackageloaded{#2}{%
3822         \noexpand\let\noexpand#1\noexpand\relax
3823         \the\toks@
3824       }{%
3825         }%
3826     }
3827     \let#1\bidipatch@gtemp
3828     \bidipatch@Add#1%

```



```

3829 \bidi@patch@try{bidi@AfterPackage}{#2}#1%
3830 }
3831
3832 \def\bidi@patch@try#1#2#3{%
3833 \if@bidi@csundef{#1}{}%
3834 \csname #1\endcsname{#2}{#3}%
3835 }%
3836 }
3837
3838 \AtBeginDocument{\bidi@patch@list}
3839
3840 \bidi@AtEndPreamble{\bidi@patch@list}%
3841
3842 \bidi@AfterEndPreamble{%
3843 \let\bidi@patch@OrgIfPackageLoaded\@ifpackageloaded
3844 \let\bidi@patch@OrgIfPackageLater\@ifpackagelater
3845 \let\bidi@patch@OrgIfClassLoaded\@ifclassloaded
3846 \let\bidi@patch@OrgIfClassLater\@ifclasslater
3847 \bidi@patch@list
3848 \let\@ifpackageloaded\bidi@patch@OrgIfPackageLoaded
3849 \let\@ifpackagelater\bidi@patch@OrgIfPackageLater
3850 \let\@ifclassloaded\bidi@patch@OrgIfClassLoaded
3851 \let\@ifclasslater\bidi@patch@OrgIfClassLater
3852 }%

```

## 7.22 bidiutfefloat.sty

```

3853 \NeedsTeXFormat{LaTeX2e}
3854 \ProvidesPackage{bidiutfefloat}[2017/05/19 v0.2
3855 bidi implementation of tufte float]
3856 \RequirePackage{xifthen}
3857 \newcommand{\@bidiutfefloat@pkgname}{bidiutfefloat}
3858 \newcommand{\bidiutfefloatError}[2]{\PackageError{\@bidiutfefloat@pkgname}{#1}{#2}}
3859 \newcommand{\bidiutfefloatDebugInfoNL}[1]{\ifthenelse{\boolean{\@bidiutfefloat@debug}}{\bidi
3860 \newcommand{\bidiutfefloatInfoNL}[1]{\PackageInfo{\@bidiutfefloat@pkgname}{#1\@gobble}}
3861 \newboolean{\@bidiutfefloat@reversegeometry}
3862 \setboolean{\@bidiutfefloat@reversegeometry}{false}
3863 \DeclareOption{reversegeometry}{\setboolean{\@bidiutfefloat@reversegeometry}{true}}
3864 \newboolean{\@bidiutfefloat@afourpaper}
3865 \DeclareOption{a4paper}{\setboolean{\@bidiutfefloat@afourpaper}{true}}
3866 \newboolean{\@bidiutfefloat@bfivepaper}
3867 \DeclareOption{b5paper}{\setboolean{\@bidiutfefloat@bfivepaper}{true}}
3868 \newboolean{\@bidiutfefloat@symmetric}
3869 \newboolean{\@bidiutfefloat@twoside}
3870 \DeclareOption{twoside}{%
3871 \@twosidettrue \@mparswitchtrue%
3872 \setboolean{\@bidiutfefloat@twoside}{true}%
3873 \setboolean{\@bidiutfefloat@symmetric}{true}%
3874 }
3875 \DeclareOption{oneside}{%

```



```

3876 \@twosidefalse \@mparswitchfalse%
3877 \setboolean{@biditytfloat@twoside}{false}%
3878 \setboolean{@biditytfloat@symmetric}{false}%
3879 }
3880 \ifclassloaded{book}{\ExecuteOptions{twoside}}{}
3881 \newboolean{@biditytfloat@debug}
3882 \newcommand*{\@biditytfloat@caption@justification}{\@biditytfloat@justification@autodetect}
3883 \ProcessOptions
3884 %% Globally sets the length
3885 \newcommand*{\gsetlength}[2]{%
3886   \setlength{#1}{#2}%
3887   \global#1=#1\relax%
3888 }
3889
3890 %% Set the font sizes and baselines to match biditytfloat's books
3891 \renewcommand\normalsize{%
3892   \@setfontsize\normalsize\@xpt{14}%
3893   \abovedisplayskip 10\p@ \@plus2\p@ \@minus5\p@
3894   \abovedisplayshortskip \z@ \@plus3\p@
3895   \belowdisplayshortskip 6\p@ \@plus3\p@ \@minus3\p@
3896   \belowdisplayskip \abovedisplayskip
3897   \let\@listi\@listI}
3898 \normalbaselineskip=14pt
3899 \normalsize
3900 \renewcommand\footnotesize{%
3901   \@setfontsize\footnotesize\@viipt{10}%
3902   \abovedisplayskip 6\p@ \@plus2\p@ \@minus4\p@
3903   \abovedisplayshortskip \z@ \@plus\p@
3904   \belowdisplayshortskip 3\p@ \@plus\p@ \@minus2\p@
3905   \def\@listi{\leftmargin\leftmarginI
3906             \topsep 3\p@ \@plus\p@ \@minus\p@
3907             \parsep 2\p@ \@plus\p@ \@minus\p@
3908             \itemsep \parsep}%
3909   \belowdisplayskip \abovedisplayskip
3910 }
3911 %% Paragraph indentation and separation for marginal text
3912 \newcommand{\@biditytfloat@margin@par}{%
3913   \setlength{\RaggedRightParindent}{0.5pc}%
3914   \setlength{\JustifyingParindent}{0.5pc}%
3915   \setlength{\parindent}{0.5pc}%
3916   \setlength{\parskip}{0pt}%
3917 }
3918 \RequirePackage{ragged2e}
3919 \ifthenelse{\boolean{@biditytfloat@reversegeometry}}{%
3920 \RequirePackage[letterpaper,right=1in,top=1in,headsep=2\baselineskip,textwidth=26pc,marginpar]{ragged2e}
3921 \ifthenelse{\boolean{@biditytfloat@afourpaper}}{
3922   {\geometry{a4paper,right=24.8mm,top=27.4mm,headsep=2\baselineskip,textwidth=107mm,marginpar}{}}
3923   {}
3924 \ifthenelse{\boolean{@biditytfloat@bfivepaper}}{
3925   {\geometry{paperwidth=176mm,paperheight=250mm,right=14.66mm,top=13.88mm,textwidth=102.66mm,

```



```

3926 {}{}%
3927 \RequirePackage[letterpaper,left=1in,top=1in,headsep=2\baselineskip,textwidth=26pc,marginpars
3928 \ifthenelse{\boolean{@biditytffloat@a4paper}}{
3929   {\geometry{a4paper,left=24.8mm,top=27.4mm,headsep=2\baselineskip,textwidth=107mm,marginpars
3930   {}
3931 \ifthenelse{\boolean{@biditytffloat@b5paper}}{
3932   {\geometry{paperwidth=176mm,paperheight=250mm,left=14.66mm,top=13.88mm,textwidth=102.66mm,m
3933   {}
3934 \ifthenelse{\boolean{@biditytffloat@symmetric}}{
3935   {}
3936   {\geometry{asymmetric}}}% forces internal LaTeX `twoside'
3937 \setlength\marginparpush{10pt}
3938 %% Font for margin items
3939 \newcommand{\@biditytffloat@marginfont}{\normalfont\footnotesize}
3940 \newcommand*{\@biditytffloat@captionfont}{\@biditytffloat@marginfont}
3941 \newcommand*{\setcaptionfont}[1]{\renewcommand*{\@biditytffloat@captionfont}{#1}}
3942 \newcommand{\@biditytffloat@justification}{\justifying}%
3943 \setlength\abovedisplayskip{6pt plus 2pt minus 4pt}
3944 \setlength\belowdisplayskip{6pt plus 2pt minus 4pt}
3945 \newboolean{@biditytffloat@changepage}
3946 \IfFileExists{changepage.sty}{%
3947   \biditytffloatDebugInfoNL{Found changepage.sty}
3948   \RequirePackage[strict]{changepage}
3949   \setboolean{@biditytffloat@changepage}{true}
3950 }{%
3951   \biditytffloatDebugInfoNL{Found chngpage.sty}
3952   \RequirePackage[strict]{chngpage}
3953   \setboolean{@biditytffloat@changepage}{false}
3954 }
3955 \newboolean{@biditytffloat@odd@page}
3956 \setboolean{@biditytffloat@odd@page}{true}
3957 \newcommand*{\@biditytffloat@checkoddpager}{%
3958   \checkoddpager%
3959   \ifthenelse{\boolean{@biditytffloat@changepage}}{%
3960     \ifoddpager%
3961       \setboolean{@biditytffloat@odd@page}{true}%
3962     \else%
3963       \setboolean{@biditytffloat@odd@page}{false}%
3964     \fi%
3965   }{%
3966     \ifcpoddpager%
3967       \setboolean{@biditytffloat@odd@page}{true}%
3968     \else%
3969       \setboolean{@biditytffloat@odd@page}{false}%
3970     \fi%
3971   }%
3972 }
3973 \newlength{\@biditytffloat@overhang}% used by the fullwidth environment and the running head
3974 \newlength{\@biditytffloat@fullwidth}
3975 \newlength{\@biditytffloat@caption@fill}

```



```

3976 \newcommand{\biditytfloatRecalculate}{%
3977   \setlength{\@biditytfloat@overhang}{\marginparwidth}
3978   \addtolength{\@biditytfloat@overhang}{\marginparsep}
3979
3980   \setlength{\@biditytfloat@fullwidth}{\textwidth}
3981   \addtolength{\@biditytfloat@fullwidth}{\marginparsep}
3982   \addtolength{\@biditytfloat@fullwidth}{\marginparwidth}
3983
3984   \setlength{\@biditytfloat@caption@fill}{\textwidth}
3985   \addtolength{\@biditytfloat@caption@fill}{\marginparsep}
3986 }
3987 \AtBeginDocument{\biditytfloatRecalculate}
3988 \RequirePackage{optparams}% provides multiple optional arguments for commands
3989 \RequirePackage{placeins}
3990 \newsavebox{\@biditytfloat@margin@floatbox}
3991 \newenvironment{@biditytfloat@margin@float}[2][1.2ex]%
3992   {\FloatBarrier% process all floats before this point so the figure/table numbers stay in or
3993   \begin{lrbox}{\@biditytfloat@margin@floatbox}%
3994   \begin{minipage}{\marginparwidth}%
3995     \@biditytfloat@caption@font%
3996     \def\@capttype{#2}%
3997     \hbox{} \vspace*{#1}%
3998     \@biditytfloat@caption@justification%
3999     \@biditytfloat@margin@par%
4000     \noindent%
4001   }
4002   {\end{minipage}%
4003   \end{lrbox}%
4004   \marginpar{\usebox{\@biditytfloat@margin@floatbox}}%
4005 }
4006 \newenvironment{marginfigure}[1][1.2ex]%
4007   {\begin{@biditytfloat@margin@float}[#1]{figure}}
4008   {\end{@biditytfloat@margin@float}}
4009 \newenvironment{margintable}[1][1.2ex]%
4010   {\begin{@biditytfloat@margin@float}[#1]{table}}
4011   {\end{@biditytfloat@margin@float}}
4012 \newcommand*{\@biditytfloat@justification@autodetect}{\justifying}%
4013
4014 \newcommand{\@biditytfloat@float@debug@info}{}% contains debug info generated as the float
4015 \newcommand{\@biditytfloat@float@debug}[1]{% adds debug info to the queue for output
4016   \ifthenelse{\equal{\@biditytfloat@float@debug@info}{}}%
4017     {\def\@biditytfloat@float@debug@info{#1}}%
4018     {\g@addto@macro\@biditytfloat@float@debug@info{MessageBreak#1}}%
4019 }
4020 \newcommand{\floatalignment}{x}% holds the current float alignment (t, b, h, p)
4021 \newcommand{\setfloatalignment}[1]{\global\def\floatalignment{#1}\@biditytfloat@float@debug
4022 \newboolean{@biditytfloat@float@recto}
4023 \newcommand{\forcerectofloat}{\GlobalSetBoolean{@biditytfloat@float@recto}{true}\@bidityt
4024 \newcommand{\forceversofloat}{\GlobalSetBoolean{@biditytfloat@float@recto}{false}\@bidityt
4025 \newsavebox{\@biditytfloat@figure@box}

```



```

4026 \newsavebox{\@biditytfloat@caption@box}
4027 \let\@biditytfloat@orig@float\@float
4028 \let\@biditytfloat@orig@endfloat\endfloat
4029 \newlength{\@biditytfloat@caption@vertical@offset}
4030 \setlength{\@biditytfloat@caption@vertical@offset}{0pt}
4031 \newcommand{\@biditytfloat@stored@shortcaption}{}
4032 \newcommand{\@biditytfloat@stored@caption}{}
4033 \newcommand{\@biditytfloat@stored@label}{}
4034 \long\def\@biditytfloat@caption[#1][#2]#3{%
4035   \ifthenelse{\isempty{#1}}%
4036     {\gdef\@biditytfloat@stored@shortcaption{#3}}%
4037     {\gdef\@biditytfloat@stored@shortcaption{#1}}%
4038   \gsetlength{\@biditytfloat@caption@vertical@offset}{-#2}% we want a positive offset to lo
4039   \gdef\@biditytfloat@stored@caption{#3}%
4040 }
4041 \newcommand{\@biditytfloat@label}[1]{%
4042   \gdef\@biditytfloat@stored@label{#1}%
4043 }
4044 \newcommand{\@biditytfloat@fps}{}
4045 \newboolean{\@biditytfloat@float@star}
4046 \newlength{\@biditytfloat@float@contents@width}
4047 \newenvironment{\@biditytfloat@float}[3][htbp]%
4048   {% begin \@biditytfloat@float
4049     % Should this float be full-width or just text-width?
4050     \ifthenelse{\equal{#3}{star}}%
4051       {\GlobalSetBoolean{\@biditytfloat@float@star}{true}}%
4052       {\GlobalSetBoolean{\@biditytfloat@float@star}{false}}%
4053     % Check page side (recto/verso) and store detected value -- can be overridden in environme
4054     \@biditytfloat@checkoddpagew%
4055     \ifthenelse{\boolean{\@biditytfloat@odd@page}}%
4056       {\GlobalSetBoolean{\@biditytfloat@float@recto}{true}\@biditytfloat@float@debug{Dete
4057       {\GlobalSetBoolean{\@biditytfloat@float@recto}{false}\@biditytfloat@float@debug{Dete
4058     % If the float placement specifier is 'b' and only 'b', then bottom-align the mini-pages,
4059     \renewcommand{\@biditytfloat@fps}{#1}%
4060     \@biditytfloat@float@debug{Allowed positions: [1]}%
4061     \ifthenelse{\equal{#1}{b}\OR\equal{#1}{B}}%
4062       {\renewcommand{\floatalignment}{b}\@biditytfloat@float@debug{Presumed position: [bott
4063       {\renewcommand{\floatalignment}{t}\@biditytfloat@float@debug{Presumed position: [top]
4064     % Capture the contents of the \caption and \label commands to use later
4065     \global\let\@biditytfloat@orig@caption\caption%
4066     \global\let\@biditytfloat@orig@label\label%
4067     \renewcommand{\caption}{\optparams{\@biditytfloat@caption}{[1][Opt]}}%
4068     \renewcommand{\label}[1]{\@biditytfloat@label{##1}}%
4069     % Handle subfigure package compatibility
4070     \ifthenelse{\boolean{\@biditytfloat@packages@subfigure}}{%
4071       \bidi@patchcmd{\subfigure}{}%
4072       \let\subfig@oldlabel=\label
4073     }{%
4074       \let\subfig@oldlabel=\@biditytfloat@orig@label
4075     }

```



```

4076     {}
4077     {}
4078     \let\subtable=\subfigure
4079     }{}% subfigure package is not loaded
4080     \@biditytfloat@orig@float{#2}[#1]%
4081     \ifthenelse{\boolean{@biditytfloat@float@star}}%
4082         {\setlength{\@biditytfloat@float@contents@width}{\@biditytfloat@fullwidth}}%
4083         {\setlength{\@biditytfloat@float@contents@width}{\textwidth}}%
4084     \begin{lrbox}{\@biditytfloat@figure@box}%
4085     \begin{minipage}{\floatalignment}{\@biditytfloat@float@contents@width}\hbox{}%
4086 }{% end @biditytfloat@float
4087     \par\hbox{}\vspace{-\baselineskip}\ifthenelse{\prevdepth>0}{\vspace{-\prevdepth}}{}% al
4088     \end{minipage}%
4089     \end{lrbox}%
4090     % build the caption box
4091     \begin{lrbox}{\@biditytfloat@caption@box}%
4092     \begin{minipage}{\floatalignment}{\marginparwidth}\hbox{}%
4093         \ifthenelse{\NOT\equal{\@biditytfloat@stored@caption}{}}{\@biditytfloat@orig@capt
4094         \ifthenelse{\NOT\equal{\@biditytfloat@stored@label}{}}{\@biditytfloat@orig@label{
4095         \par\vspace{-\prevdepth}}% TODO: DOUBLE-CHECK FOR SAFETY
4096     \end{minipage}%
4097     \end{lrbox}%
4098     % now typeset the stored boxes
4099     \begin{fullwidth}%
4100     \begin{minipage}{\floatalignment}{\linewidth}%
4101         \ifthenelse{\boolean{@biditytfloat@float@star}}%
4102             {\@biditytfloat@float@fullwidth[\@biditytfloat@caption@vertical@offset]{\@bidity
4103             {\@biditytfloat@float@textwidth[\@biditytfloat@caption@vertical@offset]{\@bidity
4104     \end{minipage}%
4105     \end{fullwidth}%
4106     \@biditytfloat@orig@endfloat% end original LaTeX float environment
4107     % output debug info
4108     \ifthenelse{\boolean{@biditytfloat@debug}}{%
4109         \typeout{^^J^^J----- biditytfloat package float information -----}%
4110         \ifthenelse{\equal{\@biditytfloat@stored@label}{}}%
4111             {\typeout{Warning: Float unlabeled!}}%
4112             {\typeout{Float label: [\@biditytfloat@stored@label]}}%
4113         \typeout{Page number: [\thepage]}%
4114         \def\MessageBreak{^^J}%
4115         \typeout{\@biditytfloat@float@debug@info}%
4116         \ifthenelse{\boolean{@biditytfloat@symmetric}}%
4117             {\typeout{Symmetric: [true]}}%
4118             {\typeout{Symmetric: [false]}}%
4119         \typeout{-----^^J^^J}%
4120     }{}%
4121     % reset commands and temp boxes and captions
4122     \gdef\@biditytfloat@float@debug@info{}%
4123     \let\caption\@biditytfloat@orig@caption%
4124     \let\label\@biditytfloat@orig@label%
4125     \begin{lrbox}{\@biditytfloat@figure@box}\hbox{}\end{lrbox}%

```



```

4126 \begin{lrbox}{\@biditytfloat@caption@box}\hbox{}\end{lrbox}%
4127 \gdef\@biditytfloat@stored@shortcaption{}%
4128 \gdef\@biditytfloat@stored@caption{}%
4129 \gdef\@biditytfloat@stored@label{}%
4130 \gsetlength{\@biditytfloat@caption@vertical@offset}{0pt}% reset caption offset
4131 }
4132 \newcommand{\@biditytfloat@float@textwidth}[3][Opt]{%
4133 \ifthenelse{\NOT\boolean{@biditytfloat@symmetric}}\OR\boolean{@biditytfloat@float@recto}%
4134 % asymmetric or page is odd, so caption is on the right
4135 \hbox{%
4136 \usebox{#2}%
4137 \hspace{\marginparsep}%
4138 \smash{\raisebox{#1}{\usebox{#3}}}%
4139 }
4140 \@biditytfloat@float@debug{Caption position: [right]}%
4141 }{% symmetric pages and page is even, so caption is on the left
4142 \hbox{%
4143 \smash{\raisebox{#1}{\usebox{#3}}}%
4144 \hspace{\marginparsep}%
4145 \usebox{#2}%
4146 }
4147 \@biditytfloat@float@debug{Caption position: [left]}%
4148 }%
4149 }
4150 \newcommand{\@biditytfloat@float@fullwidth}[3][Opt]{%
4151 \ifthenelse{\equal{\floatalignment}{b}}%
4152 {% place caption above figure
4153 \ifthenelse{\NOT\boolean{@biditytfloat@symmetric}}\OR\boolean{@biditytfloat@float@recto}%
4154 {\hfill\smash{\raisebox{#1}{\usebox{#3}}}\par\usebox{#2}\@biditytfloat@float@debug{
4155 {\smash{\raisebox{#1}{\usebox{#3}}}\hfill}\par\usebox{#2}\@biditytfloat@float@debug{
4156 }{% place caption below figure
4157 \ifthenelse{\NOT\boolean{@biditytfloat@symmetric}}\OR\boolean{@biditytfloat@float@recto}%
4158 {\usebox{#2}\par\hfill\smash{\raisebox{#1}{\usebox{#3}}}\@biditytfloat@float@debug{
4159 {\usebox{#2}\par\smash{\raisebox{#1}{\usebox{#3}}}\hfill}\@biditytfloat@float@debug{
4160 }%
4161 }
4162 \renewenvironment{figure}[1][htbp]%
4163 {\ifvmode\else\unskip\fi\begin{@biditytfloat@float}[#1]{figure}{}}
4164 {\end{@biditytfloat@float}}
4165 \renewenvironment{table}[1][htbp]
4166 {\ifvmode\else\unskip\fi\begin{@biditytfloat@float}[#1]{table}{}}
4167 {\end{@biditytfloat@float}}
4168 \renewenvironment{figure*}[1][htbp]%
4169 {\ifvmode\else\unskip\fi\begin{@biditytfloat@float}[#1]{figure}{star}}
4170 {\end{@biditytfloat@float}}
4171 \renewenvironment{table*}[1][htbp]%
4172 {\ifvmode\else\unskip\fi\begin{@biditytfloat@float}[#1]{table}{star}}
4173 {\end{@biditytfloat@float}}
4174 \newenvironment{fullwidth}
4175 {\ifthenelse{\boolean{@biditytfloat@symmetric}}%

```





```

4176     {\ifthenelse{\boolean{@bidiutfefloat@changepage}}{\begin{adjustwidth*}{- \@bidiutfefl
4177     {\begin{adjustwidth}{- \@bidiutfefloat@overhang}}}%
4178   }%
4179   {\ifthenelse{\boolean{@bidiutfefloat@symmetric}}}%
4180   {\ifthenelse{\boolean{@bidiutfefloat@changepage}}{\end{adjustwidth*}}{\end{adjustwidth}}}%
4181   {\end{adjustwidth}}}%
4182 }
4183 \long\def\@caption#1[#2]#3{%
4184   \par%
4185   \addcontentsline{\csname ext@#1\endcsname}{#1}%
4186   {\protect\numberline{\csname the#1\endcsname}{\ignorespaces #2}}%
4187   \begingroup%
4188     \@parboxrestore%
4189     \if@minipage%
4190       \@setminipage%
4191     \fi%
4192     \@bidiutfefloat@caption@font\@bidiutfefloat@caption@justification%
4193     \noindent\csname fnum@#1\endcsname: \ignorespaces#3\par%
4194     \%@makecaption{\csname fnum@#1\endcsname}{\ignorespaces #3}\par
4195   \endgroup}
4196 %%
4197 % Turns newlines into spaces. Based on code from the `titlesec' package.
4198 \DeclareRobustCommand{\@bidiufteheading@newlinetospace}{%
4199   \@ifstar{\@bidiufteheading@newlinetospace@i}{\@bidiufteheading@newlinetospace@i}%
4200 }
4201 \def\@bidiufteheading@newlinetospace@i{%
4202   \ifdim\lastskip>\z@ \else \space \fi
4203   \ignorespaces%
4204 }
4205 \DeclareRobustCommand{\newlinetospace}[1]{%
4206   \let\@bidiufteheading@orig@cr\% save the original meaning of \
4207   \def\{\@bidiufteheading@newlinetospace}% turn \ and \* into \space
4208   \let\newline\% turn \newline into \space
4209   #1%
4210   \let\{\@bidiufteheading@orig@cr% revert to original meaning of \
4211 }
4212 \RequirePackage{fancyhdr}
4213 \pagestyle{fancy}
4214 \AtBeginDocument{%
4215   \ifthenelse{\boolean{@bidiutfefloat@symmetric}}
4216     {\fancyhfoffset[LE,RO]{\@bidiutfefloat@overhang}}
4217     {\fancyhfoffset[RE,RO]{\@bidiutfefloat@overhang}}
4218 }
4219 % The running heads/feet don't have rules
4220 \renewcommand{\headrulewidth}{Opt}
4221 \renewcommand{\footrulewidth}{Opt}
4222 % The 'fancy' page style is the default style for all pages.
4223 \fancyhf{} % clear header and footer fields
4224   \ifthenelse{\boolean{@bidiutfefloat@symmetric}}
4225     {\fancyhead[LE]{\thepage\quad\textsl{\newlinetospace{\plainauthor}}}%

```



```

4226 \fancyhead[RO]{\textsl{\newlinetospace{\plaintitle}}\quad\thepage}}%
4227 {\fancyhead[RE,RO]{\textsl{\newlinetospace{\plaintitle}}\quad\thepage}}%
4228 % The 'plain' page style is used on chapter opening pages.
4229 % In Tufte's /Beautiful Evidence/ he never puts page numbers at the
4230 % bottom of pages -- the folios are unexpressed.
4231 \fancypagestyle{plain}{
4232 \fancyhf{} % clear header and footer fields
4233 % Uncomment the following five lines of code if you want the opening page
4234 % of the chapter to express the folio in the lower outside corner.
4235 % \ifthenelse{\boolean{@biditytuftefloat@symmetric}}{
4236 % {\fancyfoot[LE,RO]{\thepage}}
4237 % {\fancyfoot[RE,RO]{\thepage}}
4238 }
4239 % The 'empty' page style suppresses all headers and footers.
4240 % It's used on title pages and 'intentionally blank' pages.
4241 \fancypagestyle{empty}{
4242 \fancyhf{} % clear header and footer fields
4243 }
4244 \def\morefloats{% provides a total of 52 floats
4245 \ifthenelse{\isundefined{\bx@S}}{%
4246 \biditytuftefloatDebugInfoNL{Adding 34 more float slots.}
4247 \newinsert\bx@S
4248 \newinsert\bx@T
4249 \newinsert\bx@U
4250 \newinsert\bx@V
4251 \newinsert\bx@W
4252 \newinsert\bx@X
4253 \newinsert\bx@Y
4254 \newinsert\bx@Z
4255 \newinsert\bx@a
4256 \newinsert\bx@b
4257 \newinsert\bx@c
4258 \newinsert\bx@d
4259 \newinsert\bx@e
4260 \newinsert\bx@f
4261 \newinsert\bx@g
4262 \newinsert\bx@h
4263 \newinsert\bx@i
4264 \newinsert\bx@j
4265 \newinsert\bx@k
4266 \newinsert\bx@l
4267 \newinsert\bx@m
4268 \newinsert\bx@n
4269 \newinsert\bx@o
4270 \newinsert\bx@p
4271 \newinsert\bx@q
4272 \newinsert\bx@r
4273 \newinsert\bx@s
4274 \newinsert\bx@t
4275 \newinsert\bx@u

```



```

4276 \newinsert\bx@v
4277 \newinsert\bx@w
4278 \newinsert\bx@x
4279 \newinsert\bx@y
4280 \newinsert\bx@z
4281 \gdef\@freelist{\@elt\bx@A\@elt\bx@B\@elt\bx@C\@elt\bx@D\@elt\bx@E
4282 \@elt\bx@F\@elt\bx@G\@elt\bx@H\@elt\bx@I\@elt\bx@J
4283 \@elt\bx@K\@elt\bx@L\@elt\bx@M\@elt\bx@N
4284 \@elt\bx@O\@elt\bx@P\@elt\bx@Q\@elt\bx@R
4285 \@elt\bx@S\@elt\bx@T\@elt\bx@U\@elt\bx@V
4286 \@elt\bx@W\@elt\bx@X\@elt\bx@Y\@elt\bx@Z
4287 \@elt\bx@a\@elt\bx@b\@elt\bx@c\@elt\bx@d\@elt\bx@e
4288 \@elt\bx@f\@elt\bx@g\@elt\bx@h\@elt\bx@i\@elt\bx@j
4289 \@elt\bx@k\@elt\bx@l\@elt\bx@m\@elt\bx@n
4290 \@elt\bx@o\@elt\bx@p\@elt\bx@q\@elt\bx@r
4291 \@elt\bx@s\@elt\bx@t\@elt\bx@u\@elt\bx@v
4292 \@elt\bx@w\@elt\bx@x\@elt\bx@y\@elt\bx@z}%
4293 }{% we've already added another 34 floats, so we'll add 26 more, but that's it!
4294 \ifthenelse{isundefined{\bx@AA}}{%
4295 \bidituftefloatDebugInfoNL{Adding 26 more float slots.}
4296 \newinsert\bx@AA
4297 \newinsert\bx@BB
4298 \newinsert\bx@CC
4299 \newinsert\bx@DD
4300 \newinsert\bx@EE
4301 \newinsert\bx@FF
4302 \newinsert\bx@GG
4303 \newinsert\bx@HH
4304 \newinsert\bx@II
4305 \newinsert\bx@JJ
4306 \newinsert\bx@KK
4307 \newinsert\bx@LL
4308 \newinsert\bx@MM
4309 \newinsert\bx@NN
4310 \newinsert\bx@OO
4311 \newinsert\bx@PP
4312 \newinsert\bx@QQ
4313 \newinsert\bx@RR
4314 \newinsert\bx@SS
4315 \newinsert\bx@TT
4316 \newinsert\bx@UU
4317 \newinsert\bx@VV
4318 \newinsert\bx@WW
4319 \newinsert\bx@XX
4320 \newinsert\bx@YY
4321 \newinsert\bx@ZZ
4322 \gdef\@freelist{\@elt\bx@A\@elt\bx@B\@elt\bx@C\@elt\bx@D\@elt\bx@E
4323 \@elt\bx@F\@elt\bx@G\@elt\bx@H\@elt\bx@I\@elt\bx@J
4324 \@elt\bx@K\@elt\bx@L\@elt\bx@M\@elt\bx@N
4325 \@elt\bx@O\@elt\bx@P\@elt\bx@Q\@elt\bx@R

```



```

4326 \elt\bx@S\elt\bx@T\elt\bx@U\elt\bx@V
4327 \elt\bx@W\elt\bx@X\elt\bx@Y\elt\bx@Z
4328 \elt\bx@a\elt\bx@b\elt\bx@c\elt\bx@d\elt\bx@e
4329 \elt\bx@f\elt\bx@g\elt\bx@h\elt\bx@i\elt\bx@j
4330 \elt\bx@k\elt\bx@l\elt\bx@m\elt\bx@n
4331 \elt\bx@o\elt\bx@p\elt\bx@q\elt\bx@r
4332 \elt\bx@s\elt\bx@t\elt\bx@u\elt\bx@v
4333 \elt\bx@w\elt\bx@x\elt\bx@y\elt\bx@z
4334 \elt\bx@AA\elt\bx@BB\elt\bx@CC\elt\bx@DD\elt\bx@EE
4335 \elt\bx@FF\elt\bx@GG\elt\bx@HH\elt\bx@II\elt\bx@JJ
4336 \elt\bx@KK\elt\bx@LL\elt\bx@MM\elt\bx@NN
4337 \elt\bx@OO\elt\bx@PP\elt\bx@QQ\elt\bx@RR
4338 \elt\bx@SS\elt\bx@TT\elt\bx@UU\elt\bx@VV
4339 \elt\bx@WW\elt\bx@XX\elt\bx@YY\elt\bx@ZZ}%
4340 }{%
4341 \biditytfloatError{You may only call \string\morefloats\space twice. See the\MessageB
4342 {There are already 78 float slots allocated. Try using \string\FloatBarrier\space or\
4343 }%
4344 }%
4345 }
4346 \newboolean{@biditytfloat@packages@subfigure}
4347 \setboolean{@biditytfloat@packages@subfigure}{false}
4348 \AtBeginDocument{%
4349 \ifpackageloaded{subfigure}
4350 {\GlobalSetBoolean{@biditytfloat@packages@subfigure}{true}}
4351 {\GlobalSetBoolean{@biditytfloat@packages@subfigure}{false}}}%
4352 }
4353 \AtBeginDocument{%
4354 \ifpackageloaded{float}{%
4355 % Save the redefined float environment (instead of the LaTeX float environment)
4356 \let\@biditytfloat@orig@float\float
4357 \let\@biditytfloat@orig@endfloat\endfloat
4358
4359 % Define Tuftian float styles (with the caption in the margin)
4360 \newcommand{\floatc@biditytfloatplain}[2]{%
4361 \begin{lrbox}{\@biditytfloat@caption@box}%
4362 \begin{minipage}[\floatalignment]{\marginparwidth}\hbox{%
4363 \@biditytfloat@caption@font{\@fs@cfont #1:} #2\par%
4364 \end{minipage}%
4365 \end{lrbox}%
4366 \smash{\hspace{\@biditytfloat@caption@fill}}\usebox{\@biditytfloat@caption@box}}%
4367 }
4368 \newcommand{\fs@biditytfloatplain}{%
4369 \def\@fs@cfont{\@biditytfloat@caption@font}%
4370 \let\@fs@capt\floatc@biditytfloatplain%
4371 \def\@fs@pre{}%
4372 \def\@fs@post{}%
4373 \def\@fs@mid{}%
4374 \let\@fs@iftopcapt\iftrue%
4375 }

```



```

4376 \let\fs@bidituftefloatplaintop=\fs@bidituftefloatplain
4377 \let\floatc@bidituftefloatplaintop=\floatc@bidituftefloatplain
4378 \newcommand\floatc@bidituftefloatruled[2]{%
4379   {\@fs@cfont #1} #2\par%
4380 }
4381 \newcommand\fs@bidituftefloatruled{%
4382   \def\@fs@cfont{\@bidituftefloat@caption@font}%
4383   \let\@fs@capt\floatc@bidituftefloatplain%
4384   \def\@fs@pre{\hrule height.8pt depth0pt width\textwidth \kern2pt}%
4385   \def\@fs@post{\kern2pt\hrule width\textwidth\relax}%
4386   \def\@fs@mid{%
4387     \let\@fs@iftopcapt\iftrue%
4388   }
4389   \newcommand\fs@bidituftefloatboxed{%
4390     \def\@fs@cfont{}%
4391     \let\@fs@capt\floatc@bidituftefloatplain%
4392     \def\@fs@pre{
4393       \setbox\@currbox\vbox{\hbadness10000
4394         \moveleft3.4pt\vbox{\advance\hsize by6.8pt
4395           \hrule \hbox to\hsize{\vrule\kern3pt
4396             \vbox{\kern3pt\box\@currbox\kern3pt}\kern3pt\vrule}\hrule}}
4397     }%
4398     \def\@fs@mid{\kern2pt}%
4399     \def\@fs@post{}%
4400     \let\@fs@iftopcapt\iftrue%
4401   }
4402 }{%
4403   % Nothing to do
4404 }
4405 }
4406 \AtBeginDocument{%
4407   \@ifpackageloaded{algorithm}{%
4408     % Set the float style to the TufTian version
4409     \ifthenelse{\equal{\ALG@floatstyle}{plain}\OR\equal{\ALG@floatstyle}{ruled}\OR\equal{\ALG@floatstyle}{boxed}}{
4410       \bidituftefloatInfoNL{Switching algorithm float style from \ALG@floatstyle\MessageBreak
4411         \floatstyle{\bidituftefloat\ALG@floatstyle}%
4412         \restylefloat{algorithm}%
4413       }{%
4414       }{%
4415         % Nothing to do
4416       }
4417     }
4418   \PassOptionsToPackage{caption=false}{subfig}

```

```

4419 \NeedsTeXFormat{LaTeX2e}
4420 \ProvidesPackage{bidiuftesidenote}[2017/08/09 v0.4
4421 bidi implementation of tufte sidenote]
4422 \RequirePackage{xifthen}

```



```

4423 \RequirePackage{ragged2e}
4424 \RequirePackage{setspace}
4425 \RequirePackage{biditools}
4426 \def\bidituftesidenotemarginpar{%
4427   \ifhmode
4428     \@bsphack
4429     \@floatpenalty -\@Mii
4430   \else
4431     \@floatpenalty-\@Miii
4432   \fi
4433   \ifinner
4434     \@parmoderr
4435     \@floatpenalty\z@
4436   \else
4437     \@next\@currbox\@freelist{}\{}%
4438     \@next\@marbox\@freelist{\global\count\@marbox\m@ne}%
4439     {\@floatpenalty\z@
4440      \@fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}%
4441   \fi
4442   \@ifnextchar [\@bidituftesidenotexmpar\@bidituftesidenoteypar}
4443 \long\def\@bidituftesidenotexmpar[#1]#2{%
4444   \@bidituftesidenotesavemarbox\@marbox{#1}%
4445   \@bidituftesidenotesavemarbox\@currbox{#2}%
4446   \@xympar}
4447 \long\def\@bidituftesidenoteypar#1{%
4448   \@bidituftesidenotesavemarbox\@marbox{#1}%
4449   \global\setbox\@currbox\copy\@marbox
4450   \@xympar}
4451 \long\def \@bidituftesidenotesavemarbox #1#2{%
4452   \global\setbox #1%
4453     \color@vbox
4454     \vtop{%
4455       \hsize\marginparwidth
4456       \@parboxrestore
4457       \@bidituftesidenotemarginparreset
4458       #2%
4459       \@minipagefalse
4460       \outer@nobreak
4461     }%
4462   \color@endbox
4463 }
4464 \def \@bidituftesidenotemarginparreset {%
4465   \reset@font
4466   \normalsize
4467   \@minipagetrue
4468   \everypar{\@minipagefalse\everypar{}\if@RTL@footnote\beginR\else\beginL\fi}%
4469 }
4470 \def\LTRbidituftesidenotemarginpar{%
4471   \ifhmode
4472     \@bsphack

```



```

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

```



```

4523 \floatpenalty\z@
4524 \else
4525 \@next\@currbox\@freelist{}\{}%
4526 \@next\@marbox\@freelist{\global\count\@marbox\m@ne}%
4527 {\floatpenalty\z@
4528 \fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}%
4529 \fi
4530 \@ifnextchar [\@RTLbidityftesidenotexmpar\@RTLbidityftesidenoteympar}
4531 \long\def\@RTLbidityftesidenotexmpar[#1]#2{%
4532 \@RTLbidityftesidenotesavemarbox\@marbox{#1}%
4533 \@RTLbidityftesidenotesavemarbox\@currbox{#2}%
4534 \@xympar}
4535 \long\def\@RTLbidityftesidenoteympar#1{%
4536 \@RTLbidityftesidenotesavemarbox\@marbox{#1}%
4537 \global\setbox\@currbox\copy\@marbox
4538 \@xympar}
4539 \long\def \@RTLbidityftesidenotesavemarbox #1#2{%
4540 \global\setbox #1%
4541 \color@vbox
4542 \vtop{%
4543 \hsize\marginparwidth
4544 \@parboxrestore
4545 \@RTLbidityftesidenotemarginparreset
4546 #2%
4547 \@minipagefalse
4548 \outer@nobreak
4549 }%
4550 \color@endbox
4551 }
4552 \def \@RTLbidityftesidenotemarginparreset {%
4553 \reset@font
4554 \normalsize
4555 \@minipagetrue
4556 \everypar{\@minipagefalse\everypar{}\beginR}%
4557 }
4558 \newcommand*\@bidityftesidenote@marginfont{\normalfont\footnotesize}
4559 \newcommand*\@bidityftesidenote@LTRmarginfont{\normalfont\footnotesize}
4560 \newcommand*\@bidityftesidenote@RTLmarginfont{\normalfont\footnotesize}
4561 \newcommand*\@bidityftesidenote@sidenote@font{\@bidityftesidenote@marginfont}
4562 \newcommand*\@bidityftesidenote@LTRsidenote@font{\@bidityftesidenote@LTRmarginfont}
4563 \newcommand*\@bidityftesidenote@RTLSidenote@font{\@bidityftesidenote@RTLmarginfont}
4564 \newcommand*\@bidityftesidenote@marginnote@font{\@bidityftesidenote@marginfont}
4565 \newcommand*\@bidityftesidenote@LTRmarginnote@font{\@bidityftesidenote@LTRmarginfont}
4566 \newcommand*\@bidityftesidenote@RTLmarginnote@font{\@bidityftesidenote@RTLmarginfont}
4567 \newcommand*\@bidityftesidenote@citation@font{\@bidityftesidenote@marginfont}
4568 \newcommand*\@bidityftesidenote@LTRcitation@font{\@bidityftesidenote@LTRmarginfont}
4569 \newcommand*\@bidityftesidenote@RTLCitation@font{\@bidityftesidenote@RTLmarginfont}
4570 \newcommand*\@setsidenote@font[1]{\renewcommand*\@bidityftesidenote@sidenote@font{#1}}
4571 \newcommand*\@setLTRsidenote@font[1]{\renewcommand*\@bidityftesidenote@LTRsidenote@font{#1}}
4572 \newcommand*\@setRTLSidenote@font[1]{\renewcommand*\@bidityftesidenote@RTLSidenote@font{#1}}

```





```

4573 \newcommand*{\setmarginnote@font}[1]{\renewcommand*{\@bidiuftesidenote@marginnote@font}{#1}}
4574 \newcommand*{\setLTRmarginnote@font}[1]{\renewcommand*{\@bidiuftesidenote@LTRmarginnote@font}{#1}}
4575 \newcommand*{\setRTLmarginnote@font}[1]{\renewcommand*{\@bidiuftesidenote@RTLmarginnote@font}{#1}}
4576 \newcommand*{\setcitation@font}[1]{\renewcommand*{\@bidiuftesidenote@citation@font}{#1}}
4577 \newcommand*{\setLTRcitation@font}[1]{\renewcommand*{\@bidiuftesidenote@LTRcitation@font}{#1}}
4578 \newcommand*{\setRTLcitation@font}[1]{\renewcommand*{\@bidiuftesidenote@RTLcitation@font}{#1}}
4579 \newcommand*{\@bidiuftesidenote@sidenote@justification}{\@bidiuftesidenote@justification@au}
4580 \newcommand*{\@bidiuftesidenote@marginnote@justification}{\@bidiuftesidenote@justification@au}
4581 \newcommand*{\@bidiuftesidenote@citation@justification}{\@bidiuftesidenote@justification@au}
4582 \newcommand*{\@bidiuftesidenote@justification@autodetect}{\justifying}%
4583 \newcommand*{\@bidiuftesidenote@margin@par}{%
4584   \setlength{\RaggedRightParindent}{0.5pc}%
4585   \setlength{\JustifyingParindent}{0.5pc}%
4586   \setlength{\parindent}{0.5pc}%
4587   \setlength{\parskip}{0pt}%
4588 }
4589 %%
4590 % Globally sets the length
4591 \ifundefined{gsetlength}{%
4592 \newcommand*{\gsetlength}[2]{%
4593   \setlength{#1}{#2}%
4594   \global#1=#1\relax%
4595 }%
4596 }{}
4597
4598 %%
4599 % A function that removes leading and trailing spaces from the supplied macro.
4600 % Based on code written by Michael Downes (See ``Around the Bend'', #15.)
4601 % Executing \@bidiuftesidenote@trim@spaces\xyzzy will result in the contents of \xyzzy
4602 % being trimmed of leading and trailing white space.
4603 \catcode\Q=3
4604 \def\@bidiuftesidenote@trim@spaces#1{%
4605   % Use grouping to emulate a multi-token afterassignment queue
4606   \begingroup%
4607   % Put \toks 0 {} into the afterassignment queue
4608   \aftergroup\toks\aftergroup\aftergroup{%
4609     % Apply \trimb to the replacement text of #1, adding a leading
4610     % \noexpand to prevent brace stripping and to serve another purpose
4611     % later.
4612     \expandafter\@bidiuftesidenote@trim@b\expandafter\noexpand#1\Q\Q}%
4613   % Transfer the trimmed text back into #1.
4614   \edef#1{\the\toks0}%
4615 }
4616 % \trimb removes a trailing space if present, then calls \@bidiuftesidenote@trim@c to
4617 % clean up any leftover bizarre Qs, and trim a leading space. In
4618 % order for \trimc to work properly we need to put back a Q first.
4619 \def\@bidiuftesidenote@trim@b#1\Q{\@bidiuftesidenote@trim@c#1\Q}
4620 % Execute \vfuzz assignment to remove leading space; the \noexpand
4621 % will now prevent unwanted expansion of a macro or other expandable
4622 % token at the beginning of the trimmed text. The \endgroup will feed

```



```

4623 % in the \aftergroup tokens after the \vfuzz assignment is completed.
4624 \def\@bidityftesidenote@trim@c#1Q#2{\afterassignment\endgroup \vfuzz\the\vfuzz#1}
4625 \catcode`\Q=11
4626 %%
4627 % Citations should go in the margin as sidenotes
4628
4629 \RequirePackage{natbib}
4630 \RequirePackage{bibentry} % allows bibitems to be typeset outside thebibliography envi
4631 % Redefine the \BR@b@bibitem command to fix a bug with bibentry+chicago style
4632 \renewcommand\BR@b@bibitem[2] []{%
4633   \ifthenelse{\isempty{#1}}{%
4634     {\BR@bibitem{#2}}%
4635     {\BR@bibitem{#1}{#2}}%
4636   \BR@c@bibitem{#2}%
4637 }
4638 \bidi@AtEndPreamble{\nobibliography*} % pre-loads the bibliography keys
4639 %%
4640 % Normal \cite behavior
4641 \newcounter{@bidityftesidenote@num@bibkeys}%
4642 \newcommand{\@bidityftesidenote@normal@cite}[2] [Opt]{%
4643   % Snag the last bibentry in the list for later comparison
4644   \let\@temp@last@bibkey\@empty%
4645   \@for\@temp@bibkey:=#2\do{\let\@temp@last@bibkey\@temp@bibkey}%
4646   \sidenote[] [#1]{%
4647     % Loop through all the bibentries, separating them with semicolons and spaces
4648     \normalsize\normalfont\@bidityftesidenote@citation@font%
4649     \setcounter{@bidityftesidenote@num@bibkeys}{0}%
4650     \@for\@temp@bibkeyx:=#2\do{%
4651       \ifthenelse{\equal{\@temp@last@bibkey}{\@temp@bibkeyx}}%
4652       {\ifthenelse{\equal{\value{@bidityftesidenote@num@bibkeys}}{0}}{\and\ }}%
4653       {\@bidityftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
4654       \bibentry{\@temp@bibkeyx}}%
4655       {\@bidityftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
4656       \bibentry{\@temp@bibkeyx};\ }}%
4657     \stepcounter{@bidityftesidenote@num@bibkeys}%
4658   }%
4659 }%
4660 }
4661 \newcommand{\@bidityfteLTRsidenote@normal@cite}[2] [Opt]{%
4662   % Snag the last bibentry in the list for later comparison
4663   \let\@temp@last@bibkey\@empty%
4664   \@for\@temp@bibkey:=#2\do{\let\@temp@last@bibkey\@temp@bibkey}%
4665   \LTRsidenote[] [#1]{%
4666     % Loop through all the bibentries, separating them with semicolons and spaces
4667     \normalsize\normalfont\@bidityftesidenote@LTRcitation@font%
4668     \setcounter{@bidityftesidenote@num@bibkeys}{0}%
4669     \@for\@temp@bibkeyx:=#2\do{%
4670       \ifthenelse{\equal{\@temp@last@bibkey}{\@temp@bibkeyx}}%
4671       {\ifthenelse{\equal{\value{@bidityftesidenote@num@bibkeys}}{0}}{\and\ }}%
4672       {\@bidityftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey

```



```

4673         \bibentry{\@temp@bibkeyx}}%
4674         {\@bidityftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
4675         \bibentry{\@temp@bibkeyx};\ }%
4676         \stepcounter{\@bidityftesidenote@num@bibkeys}%
4677     }%
4678 }%
4679 }
4680 \newcommand{\@bidityfterTLsidenote@normal@cite}[2][Opt]{%
4681     % Snag the last bibentry in the list for later comparison
4682     \let\@temp@last@bibkey\@empty%
4683     \@for\@temp@bibkey:=#2\do{\let\@temp@last@bibkey\@temp@bibkey}%
4684     \RTLsidenote[] [#1]{%
4685         % Loop through all the bibentries, separating them with semicolons and spaces
4686         \normalsize\normalfont\@bidityftesidenote@citation@font%
4687         \setcounter{\@bidityftesidenote@num@bibkeys}{0}%
4688         \@for\@temp@bibkeyx:=#2\do{%
4689             \ifthenelse{\equal{\@temp@last@bibkey}\@temp@bibkeyx}}%
4690             {\ifthenelse{\equal{\value{\@bidityftesidenote@num@bibkeys}}{0}}{\and\ }%
4691             \@bidityftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
4692             \bibentry{\@temp@bibkeyx}}%
4693             {\@bidityftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
4694             \bibentry{\@temp@bibkeyx};\ }%
4695             \stepcounter{\@bidityftesidenote@num@bibkeys}%
4696         }%
4697     }%
4698 }
4699 %%
4700 % Macros for holding the list of cite keys until after the \sidenote
4701 \gdef\@bidityftesidenote@citations{}% list of cite keys
4702 \newcommand{\@bidityftesidenote@add@citation}[1]{\relax% adds a new bibkey to the list of cite
4703     \ifx\@bidityftesidenote@citations\@empty\else
4704         \g@addto@macro\@bidityftesidenote@citations{,}% separate by commas
4705     \fi
4706     \g@addto@macro\@bidityftesidenote@citations{#1}
4707 }
4708 \newcommand{\@bidityftesidenote@print@citations}[1][Opt]{% puts the citations in a margin not
4709     % Snag the last bibentry in the list for later comparison
4710     \let\@temp@last@bibkey\@empty%
4711     \@for\@temp@bibkey:=\@bidityftesidenote@citations\do{\let\@temp@last@bibkey\@temp@bibkey}%
4712     \marginpar{%
4713         \hbox{}\vspace*{#1}%
4714         \@bidityftesidenote@citation@font%
4715         \@bidityftesidenote@citation@justification%
4716         \@bidityftesidenote@margin@par% use parindent and parskip settings for marginal text
4717         \vspace*{-1\baselineskip}%
4718         % Loop through all the bibentries, separating them with semicolons and spaces
4719         \setcounter{\@bidityftesidenote@num@bibkeys}{0}%
4720         \@for\@temp@bibkeyx:=\@bidityftesidenote@citations\do{%
4721             \ifthenelse{\equal{\@temp@last@bibkey}\@temp@bibkeyx}}%
4722             {\ifthenelse{\equal{\value{\@bidityftesidenote@num@bibkeys}}{0}}{\and\ }%

```



```

4723         \@bidityftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
4724         \bibentry{\@temp@bibkeyx}}}%
4725         {\@bidityftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
4726         \bibentry{\@temp@bibkeyx};\ }%
4727         \stepcounter{\@bidityftesidenote@num@bibkeys}%
4728     }%
4729 }%
4730 }
4731 %%
4732 % \cite behavior when executed within a sidenote
4733 \newcommand{\@bidityftesidenote@sidenote@citations}{}% contains list of \cites in sidenote
4734 \newcommand{\@bidityftesidenote@infootnote@cite}[1]{%
4735     \@bidityftesidenote@add@citation{#1}
4736 }
4737 %%
4738 % Set the default \cite style. This is set and reset by the \sidenote command.
4739 \let\cite\@bidityftesidenote@normal@cite
4740 \let\LTRcite\@bidityfteLTRsidenote@normal@cite
4741 \let\RTLcite\@bidityfteRTLsidenote@normal@cite
4742 %%
4743 % Transform existing \footnotes into \sidenotes
4744 % Sidenote: ``Where God meant footnotes to go.''' ---bidityftesidenote
4745 \RequirePackage{optparams}% for our new sidenote commands -- provides multiple optional argum
4746 \providecommand{\footnotelayout}{\@bidityftesidenote@sidenote@font\@bidityftesidenote@sidenot
4747 \renewcommand{\footnotelayout}{\@bidityftesidenote@sidenote@font\@bidityftesidenote@sidenote@
4748 % Override footmisc's definition to set the sidenote marks (numbers) inside the
4749 % sidenote's text block.
4750 \bidi@patch@AfterPackage{bidi}{\long\def\@makefntext#1{\@textsuperscript{\@bidityftesidenote@
4751 % Set the in-text footnote mark in the same typeface as the body text itself.
4752 \bidi@patch@AfterPackage{bidi}{\def\@makefnmark{\hbox{\@textsuperscript{\normalfont\footnotes
4753 \providecommand*\{multiplefootnotemarker\}{3sp}
4754 \providecommand*\{multfootsep\}{,}
4755 \bidi@patch@AfterPackage{bidi}{%
4756 \renewcommand{\@footnotemark}{%
4757     \leavevmode%
4758     \ifhmode%
4759         \edef\@x@sf{\the\spacefactor}%
4760         \@bidityftesidenote@check@multiple@sidenotes%
4761         \nobreak%
4762     \fi%
4763     \@makefnmark%
4764     \ifhmode\spacefactor\@x@sf\fi%
4765     \relax%
4766 }%
4767 }
4768 \newcommand{\@bidityftesidenote@check@multiple@sidenotes}{%
4769     \ifdim\lastkern=\multiplefootnotemarker\relax%
4770         \edef\@x@sf{\the\spacefactor}%
4771         \unkern%
4772         \textsuperscript{\multfootsep}%

```



```

4773 \spacefactor\@x@sf\relax%
4774 \fi
4775 }
4776 \bidi@patch@AfterPackage{bidi}{%
4777 \renewcommand\@footnotetext[2][0pt]{%
4778 \bidityftesidenotemarginpar{%
4779 \hbox{}\vspace*{#1}%
4780 \def\baselinestretch {\setspace@singlespace}%
4781 \reset@font%
4782 \bidi@@footnotetext@font% \reset@font\footnotesize%
4783 \@bidityftesidenote@margin@par% use parindent and parskip settings for marginal text
4784 \vspace*{-1\baselineskip}\noindent%
4785 \protected@edef\@currentlabel{%
4786 \csname p@footnote\endcsname\@thefnmark%
4787 }%
4788 \color@begingroup%
4789 \makefnmark%
4790 \ignorespaces#2%
4791 }%
4792 \color@endgroup%
4793 }%
4794 }%
4795 \renewcommand\@LTRfootnotetext[2][0pt]{%
4796 \LTRbidityftesidenotemarginpar{%
4797 \hbox{}\vspace*{#1}%
4798 \def\baselinestretch {\setspace@singlespace}%
4799 \reset@font%
4800 \bidi@@LTRfootnotetext@font% \reset@font\footnotesize%
4801 \@bidityftesidenote@margin@par% use parindent and parskip settings for marginal text
4802 \vspace*{-1\baselineskip}\noindent%
4803 \protected@edef\@currentlabel{%
4804 \csname p@footnote\endcsname\@thefnmark%
4805 }%
4806 \color@begingroup%
4807 \makefnmark%
4808 \ignorespaces#2%
4809 }%
4810 \color@endgroup%
4811 }%
4812 }%
4813 \renewcommand\@RTLfootnotetext[2][0pt]{%
4814 \RTLbidityftesidenotemarginpar{%
4815 \hbox{}\vspace*{#1}%
4816 \def\baselinestretch {\setspace@singlespace}%
4817 \reset@font%
4818 \bidi@@RTLfootnotetext@font% \reset@font\footnotesize%
4819 \@bidityftesidenote@margin@par% use parindent and parskip settings for marginal text
4820 \vspace*{-1\baselineskip}\noindent%
4821 \protected@edef\@currentlabel{%
4822 \csname p@footnote\endcsname\@thefnmark%

```



```

4823 }%
4824 \color@begingroup%
4825 \makefonttext{%
4826 \ignorespaces#2%
4827 }%
4828 \color@endgroup%
4829 }%
4830 }%
4831 }
4832 %
4833 % Define \sidenote command. Can handle \cite.
4834 \newlength{@bidityftesidenote@sidenote@vertical@offset}
4835 \setlength{@bidityftesidenote@sidenote@vertical@offset}{0pt}
4836 % #1 = footnote num, #2 = vertical offset, #3 = footnote text
4837 \long\def{@bidityftesidenote@sidenote[#1][#2]#3}{%
4838 \let\cite{@bidityftesidenote@infootnote@cite% use the in-sidenote \cite command
4839 \gdef{@bidityftesidenote@citations}{% clear out any old citations
4840 \ifthenelse{\NOT\isempty{#2}}{%
4841 \gsetlength{@bidityftesidenote@sidenote@vertical@offset}{#2}%
4842 }{%
4843 \gsetlength{@bidityftesidenote@sidenote@vertical@offset}{0pt}%
4844 }%
4845 \ifthenelse{\isempty{#1}}{%
4846 % no specific footnote number provided
4847 \stepcounter{\mpfn}%
4848 \protected@xdef{@thefnmark{\thempfn}%
4849 \footnotemark{@footnotetext[@bidityftesidenote@sidenote@vertical@offset]{#3}%
4850 }{%
4851 % specific footnote number provided
4852 \begingroup%
4853 \csname c@{\mpfn}\endcsname #1\relax%
4854 \unrestored@protected@xdef{@thefnmark{\thempfn}%
4855 \endgroup%
4856 \footnotemark{@footnotetext[@bidityftesidenote@sidenote@vertical@offset]{#3}%
4857 }%
4858 \@bidityftesidenote@print@citations% print any citations
4859 \let\cite{@bidityftesidenote@normal@cite% go back to using normal in-text \cite comma
4860 \let\LTRcite{@bidityftesidenote@normal@cite% go back to using normal in-text \LTRc
4861 \let\RTLcite{@bidityftesidenote@normal@cite% go back to using normal in-text \RTLc
4862 \unskip\ignorespaces% remove extra white space
4863 \kern-\multiplefootnotemark% remove \kern left behind by sidenote
4864 \kern\multiplefootnotemark\relax% add new \kern here to replace the one we yanked
4865 }
4866 \long\def{@LTRbidityftesidenote@sidenote[#1][#2]#3}{%
4867 \let\cite{@bidityftesidenote@infootnote@cite% use the in-sidenote \cite command
4868 \gdef{@bidityftesidenote@citations}{% clear out any old citations
4869 \ifthenelse{\NOT\isempty{#2}}{%
4870 \gsetlength{@bidityftesidenote@sidenote@vertical@offset}{#2}%
4871 }{%
4872 \gsetlength{@bidityftesidenote@sidenote@vertical@offset}{0pt}%

```



```

4873 }%
4874 \ifthenelse{\isempty{#1}}{%
4875   % no specific footnote number provided
4876   \stepcounter{\mpfn}%
4877   \protected@xdef\@thefnmark{\thempfn}%
4878   \@footnotemark\@LTRfootnotetext[\@bidityftesidenote@sidenote@vertical@offset]{#3}%
4879 }{%
4880   % specific footnote number provided
4881   \begingroup%
4882     \csname c@\mpfn\endcsname #1\relax%
4883     \unrestored@protected@xdef\@thefnmark{\thempfn}%
4884     \endgroup%
4885     \@footnotemark\@LTRfootnotetext[\@bidityftesidenote@sidenote@vertical@offset]{#3}%
4886 }%
4887 \@bidityftesidenote@print@citations%          print any citations
4888 \let\cite\@bidityftesidenote@normal\cite%      go back to using normal in-text \cite comma
4889 \let\LTRcite\@bidityfteLTRsidenote@normal\cite% go back to using normal in-text \LTRc
4890 \let\RTLcite\@bidityfteRTLSidenote@normal\cite% go back to using normal in-text \RTLc
4891 \unskip\ignorespaces%                          remove extra white space
4892 \kern-\multiplefootnotemarker%                 remove \kern left behind by sidenote
4893 \kern\multiplefootnotemarker\relax% add new \kern here to replace the one we yanked
4894 }
4895 \long\def\@RTLbidityftesidenote@sidenote[#1][#2]#3{%
4896   \let\cite\@bidityftesidenote@infootnote\cite% use the in-sidenote \cite command
4897   \gdef\@bidityftesidenote@citations{}%        clear out any old citations
4898   \ifthenelse{\NOT\isempty{#2}}{%
4899     \gsetlength{\@bidityftesidenote@sidenote@vertical@offset}{#2}%
4900   }{%
4901     \gsetlength{\@bidityftesidenote@sidenote@vertical@offset}{0pt}%
4902   }%
4903   \ifthenelse{\isempty{#1}}{%
4904     % no specific footnote number provided
4905     \stepcounter{\mpfn}%
4906     \protected@xdef\@thefnmark{\thempfn}%
4907     \@footnotemark\@RTLfootnotetext[\@bidityftesidenote@sidenote@vertical@offset]{#3}%
4908   }{%
4909     % specific footnote number provided
4910     \begingroup%
4911       \csname c@\mpfn\endcsname #1\relax%
4912       \unrestored@protected@xdef\@thefnmark{\thempfn}%
4913       \endgroup%
4914       \@footnotemark\@RTLfootnotetext[\@bidityftesidenote@sidenote@vertical@offset]{#3}%
4915   }%
4916   \@bidityftesidenote@print@citations%          print any citations
4917   \let\cite\@bidityftesidenote@normal\cite%      go back to using normal in-text \cite comma
4918   \let\LTRcite\@bidityfteLTRsidenote@normal\cite% go back to using normal in-text \LTRc
4919   \let\RTLcite\@bidityfteRTLSidenote@normal\cite% go back to using normal in-text \RTLc
4920   \unskip\ignorespaces%                          remove extra white space
4921   \kern-\multiplefootnotemarker%                 remove \kern left behind by sidenote
4922   \kern\multiplefootnotemarker\relax% add new \kern here to replace the one we yanked

```



```

4923 }
4924 \newcommand{\sidenote}{\optparams{\@bidityftesidenote@sidenote}{[] [Opt]}}
4925 \newcommand{\LTRsidenote}{\optparams{\@LTRbidityftesidenote@sidenote}{[] [Opt]}}
4926 \newcommand{\RTLsidenote}{\optparams{\@RTLbidityftesidenote@sidenote}{[] [Opt]}}
4927 \bidi@patch@AfterPackage{bidi}{%
4928 \renewcommand{\footnote}{\optparams{\@bidityftesidenote@sidenote}{[] [Opt]}}%
4929 \renewcommand{\LTRfootnote}{\optparams{\@LTRbidityftesidenote@sidenote}{[] [Opt]}}%
4930 \renewcommand{\RTLfootnote}{\optparams{\@RTLbidityftesidenote@sidenote}{[] [Opt]}}%
4931 }
4932 %%
4933 % Sidenote without the footnote mark
4934 \newcommand\marginnote[2] [Opt]{%
4935 \let\cite\@bidityftesidenote@infootnote@cite% use the in-sidenote \cite command
4936 \gdef\@bidityftesidenote@citations{}% clear out any old citations
4937 \bidityftesidenotemarginpar{\hbox{}}\vspace*{#1}\@bidityftesidenote@marginnote@font\@bidityftesidenote@print@citations%
4938 \@bidityftesidenote@print@citations% print any citations
4939 \let\cite\@bidityftesidenote@normal@cite% go back to using normal in-text \cite command
4940 \let\LTRcite\@bidityftesidenote@normal@cite% go back to using normal in-text \LTRcite
4941 \let\RLcite\@bidityftesidenote@normal@cite% go back to using normal in-text \RLcite
4942 }
4943 \newcommand\LTRmarginnote[2] [Opt]{%
4944 \let\cite\@bidityftesidenote@infootnote@cite% use the in-sidenote \cite command
4945 \gdef\@bidityftesidenote@citations{}% clear out any old citations
4946 \LTRbidityftesidenotemarginpar{\hbox{}}\vspace*{#1}\@bidityftesidenote@LTRmarginnote@font\@bidityftesidenote@print@citations%
4947 \@bidityftesidenote@print@citations% print any citations
4948 \let\cite\@bidityftesidenote@normal@cite% go back to using normal in-text \cite command
4949 \let\LTRcite\@bidityftesidenote@normal@cite% go back to using normal in-text \LTRcite
4950 \let\RLcite\@bidityftesidenote@normal@cite% go back to using normal in-text \RLcite
4951 }
4952 \newcommand\RTLmarginnote[2] [Opt]{%
4953 \let\cite\@bidityftesidenote@infootnote@cite% use the in-sidenote \cite command
4954 \gdef\@bidityftesidenote@citations{}% clear out any old citations
4955 \RTLbidityftesidenotemarginpar{\hbox{}}\vspace*{#1}\@bidityftesidenote@RTLmarginnote@font\@bidityftesidenote@print@citations%
4956 \@bidityftesidenote@print@citations% print any citations
4957 \let\cite\@bidityftesidenote@normal@cite% go back to using normal in-text \cite command
4958 \let\LTRcite\@bidityftesidenote@normal@cite% go back to using normal in-text \LTRcite
4959 \let\RLcite\@bidityftesidenote@normal@cite% go back to using normal in-text \RLcite
4960 }

```

## 7.24 bidityftetoc.sty

```

4961 \NeedsTeXFormat{LaTeX2e}
4962 \ProvidesPackage{bidityftetoc}[2011/06/17 v0.1
4963 bidi implementation of tufte toc]
4964 \RequirePackage{titlesec,titletoc,xifthen,biditytools}
4965 \newcommand{\@bidityftetoc@pkgname}{bidityftetoc}
4966 \newcommand{\bidityftetocError}[2]{\PackageError{\@bidityftetoc@pkgname}{#1}{#2}}
4967 %%
4968 % Turn off section numbering
4969 \setcounter{secnumdepth}{-1}

```





```

4970 \newboolean{@biditytetoc@toc}
4971 \setboolean{@biditytetoc@toc}{true}
4972 \DeclareOption{notoc}{\setboolean{@biditytetoc@toc}{false}}
4973 \DeclareOption{toc}{\setboolean{@biditytetoc@toc}{true}}
4974 \ProcessOptions
4975 %%
4976 % Make Tufte-style section headings and TOC formatting
4977 \biditypatch@AfterPackage{bidity}{%
4978 \titleformat{\chapter}%
4979 [display]% shape
4980 {\relax\ifthenelse{\NOT\boolean{@biditytfloat@symmetric}}{\begin{fullwidth}}{}}% format a
4981 {\itshape\huge\thechapter}% label
4982 {0pt}% horizontal separation between label and title body
4983 {\huge\rmfamily\itshape}% before the title body
4984 [\ifthenelse{\NOT\boolean{@biditytfloat@symmetric}}{\end{fullwidth}}{}}% after the title
4985 \titleformat{\section}%
4986 [hang]% shape
4987 {\normalfont\Large\itshape}% format applied to label+text
4988 {\thesection}% label
4989 {1em}% horizontal separation between label and title body
4990 {}% before the title body
4991 []% after the title body
4992 \titleformat{\subsection}%
4993 [hang]% shape
4994 {\normalfont\large\itshape}% format applied to label+text
4995 {\thesubsection}% label
4996 {1em}% horizontal separation between label and title body
4997 {}% before the title body
4998 []% after the title body
4999 \titleformat{\paragraph}%
5000 [runin]% shape
5001 {\normalfont\itshape}% format applied to label+text
5002 {\theparagraph}% label
5003 {1em}% horizontal separation between label and title body
5004 {}% before the title body
5005 []% after the title body
5006 \titlespacing*{\chapter}{0pt}{50pt}{40pt}
5007 \titlespacing*{\section}{0pt}{3.5ex plus 1ex minus .2ex}{2.3ex plus .2ex}
5008 \titlespacing*{\subsection}{0pt}{3.25ex plus 1ex minus .2ex}{1.5ex plus .2ex}
5009 }
5010 % Subsubsection and following section headings shouldn't be used.
5011 % See Bringhurst's _The Elements of Typography_, section 4.2.2.
5012 \renewcommand\subsubsection{%
5013 \biditytetocError{\noexpand\subsubsection is undefined by this class.%
5014 \MessageBreak See Robert Bringhurst's _The Elements of
5015 \MessageBreak Typographic Style_, section 4.2.2.
5016 \MessageBreak \noexpand\subsubsection was used}
5017 {From Bringhurst's _The Elements of Typographic Style_, section 4.2.2: Use as
5018 \MessageBreak many levels of headings as you need, no more and no fewer. Also see the ma
5019 \MessageBreak related threads on Ask E.T. at http://www.edwardbiditytetoc.com/.}

```



```

5020 }
5021 \renewcommand\subparagraph{%
5022   \bidityftetocError{\noexpand\subparagraph is undefined by this class.%
5023     \MessageBreak See Robert Bringhurst's _The Elements of
5024     \MessageBreak Typographic Style_, section 4.2.2.
5025     \MessageBreak \noexpand\subparagraph was used}
5026     {From Bringhurst's _The Elements of Typographic Style_, section 4.2.2: Use as
5027     \MessageBreak many levels of headings as you need, no more and no fewer. Also see the ma
5028     \MessageBreak related threads on Ask E.T. at http://www.edwardbidityftetoc.com/.}
5029 }
5030 % Formatting for main TOC (printed in front matter)
5031 % {section} [left] {above} {before w/label} {before w/o label} {filler + page} [after]
5032 \ifthenelse{\boolean{@bidityftetoc@toc}}{%
5033   \bidity@patch@AfterPackage{bidi}{%
5034     \titlecontents{part}% FIXME
5035       [0em] % distance from left margin
5036       {\vspace{1.5\baselineskip}\begin{fullwidth}\LARGE\rmfamily\itshape} % above (global forma
5037       {\contentslabel{2em}} % before w/label (label = ``II'')
5038       {} % before w/o label
5039       {\rmfamily\upshape\qqquad\thecontentspage} % filler + page (leaders and page num)
5040       [\end{fullwidth}] % after
5041     \titlecontents{chapter}%
5042       [0em] % distance from left margin
5043       {\vspace{1.5\baselineskip}\begin{fullwidth}\LARGE\rmfamily\itshape} % above (global forma
5044       {\hspace*{0em}\contentslabel{2em}} % before w/label (label = ``2'')
5045       {\hspace*{0em}} % before w/o label
5046       {\rmfamily\upshape\qqquad\thecontentspage} % filler + page (leaders and page num)
5047       [\end{fullwidth}] % after
5048     \titlecontents{section}% FIXME
5049       [0em] % distance from left margin
5050       {\vspace{0\baselineskip}\begin{fullwidth}\Large\rmfamily\itshape} % above (global formatt
5051       {\hspace*{2em}\contentslabel{2em}} % before w/label (label = ``2.6'')
5052       {\hspace*{2em}} % before w/o label
5053       {\rmfamily\upshape\qqquad\thecontentspage} % filler + page (leaders and page num)
5054       [\end{fullwidth}] % after
5055     \titlecontents{subsection}% FIXME
5056       [0em] % distance from left margin
5057       {\vspace{0\baselineskip}\begin{fullwidth}\large\rmfamily\itshape} % above (global formatt
5058       {\hspace*{4em}\contentslabel{4em}} % before w/label (label = ``2.6.1'')
5059       {\hspace*{4em}} % before w/o label
5060       {\rmfamily\upshape\qqquad\thecontentspage} % filler + page (leaders and page num)
5061       [\end{fullwidth}] % after
5062     \titlecontents{paragraph}% FIXME
5063       [0em] % distance from left margin
5064       {\vspace{0\baselineskip}\begin{fullwidth}\normalsize\rmfamily\itshape} % above (global fo
5065       {\hspace*{6em}\contentslabel{2em}} % before w/label (label = ``2.6.0.0.1'')
5066       {\hspace*{6em}} % before w/o label
5067       {\rmfamily\upshape\qqquad\thecontentspage} % filler + page (leaders and page num)
5068       [\end{fullwidth}] % after
5069 }%

```



```

5070 }{}
5071 %%
5072 % Format lists of figures/tables
5073 \renewcommand\listoffigures{%
5074   \@ifundefined{chapter}%
5075     {\section*{\listfigurename}}%
5076     {\chapter*{\listfigurename}}%
5077 % \begin{fullwidth}%
5078   \@starttoc{lof}%
5079 % \end{fullwidth}%
5080 }
5081 \renewcommand\listoftables{%
5082   \@ifundefined{chapter}%
5083     {\section*{\listtablename}}%
5084     {\chapter*{\listtablename}}%
5085 % \begin{fullwidth}%
5086   \@starttoc{lot}%
5087 % \end{fullwidth}%
5088 }
5089 \newcommand{\@bidityfttoc@lof@line}[2]{%
5090   % #1 is the figure/table number and its caption text
5091   % #2 is the page number on which the figure/table appears
5092   \leftskip 0.0em
5093   \rightskip 0em
5094   \parfillskip 0em plus 1fil
5095   \parindent 0.0em
5096   \@afterindenttrue
5097   \interlinepenalty\@M
5098   \leavevmode
5099   \@tempdima 2.0em
5100   \if@RTL\advance\rightskip\@tempdima\else\advance\leftskip\@tempdima\fi
5101   \null\nobreak\hskip -\if@RTL\rightskip\else\leftskip\fi
5102   {#1}\nobreak\qqquad\nobreak#2%
5103   \par%
5104 }
5105 \renewcommand*\l@figure{\@bidityfttoc@lof@line}
5106 \let\l@table\l@figure

```

## 7.25 **bidituftegeneralstructure.sty**

```

5107 \NeedsTeXFormat{LaTeX2e}
5108 \ProvidesPackage{bidituftegeneralstructure}[2011/06/18 v0.1
5109 bidi implementation of tufte general structure]
5110 \renewcommand\small{%
5111   \@setfontsize\small\@ixpt{12}%
5112   \abovedisplayskip 8.5\p@ \@plus3\p@ \@minus4\p@
5113   \abovedisplayshortskip \z@ \@plus2\p@
5114   \belowdisplayshortskip 4\p@ \@plus2\p@ \@minus2\p@
5115   \def\@listi{\leftmargin\leftmargini
5116     \topsep 4\p@ \@plus2\p@ \@minus2\p@

```



```

5117             \parsep 2\p@ \@plus\p@ \@minus\p@
5118             \itemsep \parsep}%
5119 \belowdisplayskip \abovedisplayskip
5120 }
5121 \renewcommand\scriptsize{\@setfontsize\scriptsize\@viipt\@viipt}
5122 \renewcommand\tiny{\@setfontsize\tiny\@vpt\@vpt}
5123 \renewcommand\large{\@setfontsize\large\@xipt{15}}
5124 \renewcommand\Large{\@setfontsize\Large\@xiipt{16}}
5125 \renewcommand\LARGE{\@setfontsize\LARGE\@xivpt{18}}
5126 \renewcommand\huge{\@setfontsize\huge\@xxpt{30}}
5127 \renewcommand\Huge{\@setfontsize\Huge{24}{36}}
5128 \setlength\leftmargini {1pc}
5129 \setlength\leftmarginii {1pc}
5130 \setlength\leftmarginiii {1pc}
5131 \setlength\leftmarginiv {1pc}
5132 \setlength\leftmarginv {1pc}
5133 \setlength\leftmarginvi {1pc}
5134 \setlength\labelsep {.5pc}
5135 \setlength\labelwidth {\leftmargini}
5136 \addtolength\labelwidth{-\labelsep}
5137 \setlength{\parindent}{1.0pc}%
5138 \setlength{\parskip}{0pt}%
5139 \RequirePackage{ragged2e}
5140 \setlength{\RaggedRightRightskip}{\z@ plus 0.08\hsize}
5141 % Paragraph indentation and separation for normal text
5142 \newcommand{\@bidiuftgeneralstructure@reset@par}{%
5143 \setlength{\RaggedRightParindent}{1.0pc}%
5144 \setlength{\JustifyingParindent}{1.0pc}%
5145 \setlength{\parindent}{1pc}%
5146 \setlength{\parskip}{0pt}%
5147 }
5148 \@bidiuftgeneralstructure@reset@par
5149 % Require paralist package for tighter lists
5150 \RequirePackage{paralist}
5151 % Add rightmargin to compactenum
5152 \def\@compactenum{%
5153 \expandafter\list\csname label\@enumctr\endcsname{%
5154 \usecounter{\@enumctr}%
5155 \rightmargin=2em% added this
5156 \parsep\plparsep
5157 \itemsep\plitemsep
5158 \topsep\pltopsep
5159 \partopsep\plpartopsep
5160 \def\makelabel##1{\hss\llap{##1}}}}
5161 %%
5162 % An environment for paragraph-style section
5163 \providecommand\newthought[1]{%
5164 \addvspace{1.0\baselineskip plus 0.5ex minus 0.2ex}%
5165 \noindent\textbf{#1}%
5166 }

```



```

5167 %%
5168 % Redefine the display environments (quote, quotation, etc.)
5169 \renewenvironment{verse}
5170     {\let\\\@centercr
5171      \list{}\itemsep \z@
5172      \itemindent -1pc%
5173      \listparindent\itemindent
5174      \rightmargin \leftmargin
5175      \advance\leftmargin 1pc}%
5176     \small%
5177     \item\relax}
5178     {\endlist}
5179 \renewenvironment{quotation}
5180     {\list{}\listparindent 1pc%
5181      \itemindent \listparindent
5182      \rightmargin \leftmargin
5183      \parsep \z@ \@plus\p@}%
5184     \small%
5185     \item\relax\noindent\ignorespaces}
5186     {\endlist}
5187 \renewenvironment{quote}
5188     {\list{}\rightmargin\leftmargin}%
5189     \small%
5190     \item\relax}
5191     {\endlist}
5192 % Italicize description run-in headings (instead of the default bold)
5193 \renewcommand*{\descriptionlabel[1]{\hspace\labelsep\normalfont\em #1}
5194 %%
5195 % Redefine \bibsection to not mark the running heads.
5196 % (Code modified from natbib.sty.)
5197 \ifundefined{chapter}%
5198     {\renewcommand\bibsection{\section*{\refname}}}
5199     {\ifundefined{NAT@sectionbib}%
5200      {\renewcommand\bibsection{\chapter{\bibname}}}
5201      {\renewcommand\bibsection{\section*{\bibname}}}}
5202 \RequirePackage{multicol}
5203 \renewenvironment{theindex}{%
5204     \ifundefined{chapter}%
5205         {\section*{\indexname}}%
5206         {\chapter{\indexname}}%
5207     \begin{fullwidth}%
5208     \small%
5209     \parskip0pt%
5210     \parindent0pt%
5211     \let\item\@idxitem%
5212     \begin{multicols}{3}%
5213 }{%
5214     \end{multicols}%
5215     \end{fullwidth}%
5216 }

```



```

5217 \AtBeginDocument{%
5218 \renewcommand\@idxitem{\par\hangindent \if@RTL-\fi2em}%
5219 \renewcommand\subitem{\par\hangindent \if@RTL-\fi3em\hspace*{1em}}%
5220 \renewcommand\subsubitem{\par\hangindent \if@RTL-\fi4em\hspace*{2em}}%
5221 \renewcommand\indexspace{\par\addvspace{1.0\baselineskip plus 0.5ex minus 0.2ex}\relax}%
5222 \newcommand{\lettergroup}[1]{}% swallow the letter heading in the index

```

## 7.26 bidiutftehyperref.sty

```

5223 \NeedsTeXFormat{LaTeX2e}
5224 \ProvidesPackage{bidiutftehyperref}[2011/06/18 v0.1
5225 bidi implementation of tufte hyperref]
5226 %%
5227 % Color
5228 \RequirePackage[usenames,dvipsnames,svgnames]{xcolor}%
5229 \newboolean{@bidiutftehyperref@loadhyper}
5230 \setboolean{@bidiutftehyperref@loadhyper}{true}
5231 \DeclareOption{hyper}{\setboolean{@bidiutftehyperref@loadhyper}{true}}
5232 \DeclareOption{nohyper}{\setboolean{@bidiutftehyperref@loadhyper}{false}}
5233 \ProcessOptions
5234 %% Loads the hyperref package and sets some default options.
5235 \newcommand{\bidiutftehyperrefLoadHyperref}{%
5236 \RequirePackage[hyperfootnotes=false,colorlinks=true]{hyperref}
5237 \hypersetup{%
5238   bookmarksdepth = section,
5239   citecolor = DarkGreen,
5240   linkcolor = DarkBlue,
5241 %   pagecolor = DarkBlue,
5242   urlcolor = DarkGreen,
5243 }%
5244 }
5245 \ifthenelse{\boolean{@bidiutftehyperref@loadhyper}}{%
5246 \bidiutftehyperrefLoadHyperref%
5247 }{% hyperfootnotes override our modifications to the \footnote* and \@footnote* commands.
5248 \PassOptionsToPackage{hyperfootnotes=false}{hyperref}
5249 }

```

## 7.27 bidiuftetitle.sty

```

5250 \NeedsTeXFormat{LaTeX2e}
5251 \ProvidesPackage{bidiuftetitle}[2011/06/18 v0.1
5252 bidi implementation of tufte title]
5253 \RequirePackage{biditools}
5254 %%
5255 % `titlepage' option -- creates a full title page with \maketitle
5256 \newboolean{@bidiuftetitle@titlepage}
5257 \DeclareOption{titlepage}{\setboolean{@bidiuftetitle@titlepage}{true}}
5258 \DeclareOption{notitlepage}{\setboolean{@bidiuftetitle@titlepage}{false}}
5259 % Default `book' and `handout' options
5260 \@ifclassloaded{book}{%
5261 \ExecuteOptions{titlepage}}{%

```



```

5262 \@ifclassloaded{article}{%
5263 \ExecuteOptions{notitlepage}}%
5264 {}}
5265 \ProcessOptions
5266 %%
5267 % Modified \title, \author, and \date commands. These store the
5268 % (footnote-less) values in \plaintitle, \plainauthor, and \thedata, respectively.
5269 \newcommand{\plaintitle}{}% plain-text-only title
5270 \newcommand{\plainauthor}{}% plain-text-only author
5271 \newcommand{\plainpublisher}{}% plain-text-only publisher
5272 \newcommand{\thanklesstitle}{}% full title text minus \thanks{}
5273 \newcommand{\thanklessauthor}{}% full author text minus \thanks{}
5274 \newcommand{\thanklesspublisher}{}% full publisher minus \thanks{}
5275 \newcommand{\@publisher}{}% full publisher with \thanks{}
5276 \newcommand{\thedata}{\today}
5277 \bidi@patch@AfterPackage{bidi}{%
5278 \renewcommand{\thanks}[1]{\footnote{#1}}
5279 \renewcommand{\LTRthanks}[1]{\LTRfootnote{#1}}
5280 \renewcommand{\RTLthanks}[1]{\RTLfootnote{#1}}
5281 }
5282 \renewcommand{\title}[2][]{%
5283 \gdef\@title{#2}%
5284 \begingroup%
5285 % TODO store contents of \thanks command
5286 \renewcommand{\thanks}[1]{}% swallow \thanks contents
5287 \renewcommand{\LTRthanks}[1]{}% swallow \LTRthanks contents
5288 \renewcommand{\RTLthanks}[1]{}% swallow \RTLthanks contents
5289 \protected@xdef\thanklesstitle{#2}%
5290 \endgroup%
5291 \ifthenelse{\isempty{#1}}%
5292 {\renewcommand{\plaintitle}{\thanklesstitle}}% use thankless title
5293 {\renewcommand{\plaintitle}{#1}}% use provided plain-text title
5294 \@ifundefined{hypersetup}%
5295 {}% hyperref is not loaded; do nothing
5296 {\hypersetup{pdftitle={\plaintitle}}}% set the PDF metadata title
5297 }
5298 \let\@author\@empty% suppress default latex.ltx ``no author'' warning
5299 \renewcommand{\author}[2][]{%
5300 \ifthenelse{\isempty{#2}}{}{\gdef\@author{#2}}%
5301 \begingroup%
5302 % TODO store contents of \thanks command
5303 \renewcommand{\thanks}[1]{}% swallow \thanks contents
5304 \renewcommand{\LTRthanks}[1]{}% swallow \LTRthanks contents
5305 \renewcommand{\RTLthanks}[1]{}% swallow \RTLthanks contents
5306 \protected@xdef\thanklessauthor{#2}%
5307 \endgroup%
5308 \ifthenelse{\isempty{#1}}%
5309 {\renewcommand{\plainauthor}{\thanklessauthor}}% use thankless author
5310 {\renewcommand{\plainauthor}{#1}}% use provided plain-text author
5311 \@ifundefined{hypersetup}%

```



```

5312 {}% hyperref is not loaded; do nothing
5313 {\hypersetup{pdfauthor={\plainauthor}}}% set the PDF metadata author
5314 }
5315 \renewcommand{\date}[1]{%
5316   \gdef\@date{#1}%
5317   \begingroup%
5318     % TODO store contents of \thanks command
5319     \renewcommand{\thanks}[1]{}% swallow \thanks contents
5320     \renewcommand{\LTRthanks}[1]{}% swallow \LTRthanks contents
5321     \renewcommand{\RTLthanks}[1]{}% swallow \RTLthanks contents
5322     \protected@xdef\thedata{#1}%
5323   \endgroup%
5324 }
5325 %%
5326 % Provides a \publisher command to set the publisher
5327 \newcommand{\publisher}[2][{}]{%
5328   \gdef\@publisher{#2}%
5329   \begingroup%
5330     \renewcommand{\thanks}[1]{}% swallow \thanks contents
5331     \renewcommand{\LTRthanks}[1]{}% swallow \LTRthanks contents
5332     \renewcommand{\RTLthanks}[1]{}% swallow \RTLthanks contents
5333     \protected@xdef\thanklesspublisher{#2}%
5334   \endgroup%
5335   \ifthenelse{\isempty{#1}}{
5336     {\renewcommand{\plainpublisher}{\thanklesspublisher}}% use thankless publisher
5337   }{\renewcommand{\plainpublisher}{#1}}% use provided plain-text publisher
5338 }
5339 %%
5340 % Produces a full title page
5341 \newcommand{\maketitlepage}[0]{%
5342   \cleardoublepage%
5343   {%
5344     \bfseries%
5345     \begin{fullwidth}%
5346       \fontsize{18}{20}\selectfont\par\noindent\thanklessauthor%
5347       \vspace{11.5pc}%
5348       \fontsize{36}{40}\selectfont\par\noindent\thanklesstitle%
5349       \vfill%
5350       \fontsize{14}{16}\selectfont\par\noindent\thanklesspublisher%
5351     \end{fullwidth}%
5352   }
5353   \thispagestyle{empty}%
5354   \clearpage%
5355 }
5356 %%
5357 % Title block
5358 \bidi@AfterEndPreamble{%
5359 \renewcommand{\maketitle}{%
5360   \newpage%
5361   \global\@topnum\z@% prevent floats from being placed at the top of the page

```





```

5362 \beginngroup%
5363 \setlength{\parindent}{0pt}%
5364 \setlength{\parskip}{4pt}%
5365 \let\@title\@empty%
5366 \let\@author\@empty%
5367 \let\@date\@empty%
5368 \gdef\@title{\LARGE\itshape\@title\par}%
5369 \gdef\@author{\Large\itshape\@author\par}%
5370 \gdef\@date{\Large\itshape\@date\par}%
5371 \@title%
5372 \@author%
5373 \@date%
5374 \endgroup%
5375 \thispagestyle{plain}% suppress the running head
5376 }%
5377 }
5378 %%
5379 % Title page (if the `titlepage' option was passed to the bidentitetitle-handout
5380 % class.)
5381 \bidentitetitle\@AfterEndPreamble{%
5382 \ifthenelse{\boolean{@bidentitetitle@titlepage}}
5383 {\renewcommand{\maketitle}{\maketitlepage}}
5384 {}
5385 }
5386 %%
5387 % When \cleardoublepage is called, produce a blank (empty) page -- i.e.,
5388 % without headers and footers
5389 \def\cleardoublepage{\clearpage\if@twoside\ifodd\c@page\else
5390 \hbox{}
5391 %\vspace*{\fill}
5392 %\begin{center}
5393 % This page intentionally contains only this sentence.
5394 %\end{center}
5395 %\vspace{\fill}
5396 \thispagestyle{empty}
5397 \newpage
5398 \if@twocolumn\hbox{}\newpage\fi\fi\fi}

```

## 7.28 bidentifte-handout.cls

```

5399 \NeedsTeXFormat{LaTeX2e}[1994/06/01]
5400 \ProvidesClass{bidentifte-handout}[2011/06/18 v0.1 bidentifte-handout class]
5401 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{article}}
5402 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidentiftefloat}}
5403 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidentiftetoc}}
5404 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidentiftehyperref}}
5405 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidentiftetitle}}
5406 \ProcessOptions\relax
5407 \LoadClass{article}
5408 \RequirePackage{bidentiftefloat}

```



```

5409 \RequirePackage{bidituftesidenote}
5410 \RequirePackage{bidituftetoc}
5411 \RequirePackage{bidituftegeneralstructure}
5412 \RequirePackage{bidituftehyperref}
5413 \RequirePackage{bidituftetitle}
5414 \renewenvironment{abstract}
5415   {\begin{quotation}}
5416   {\end{quotation}}
5417 \AtBeginDocument{%
5418 \IfFileExists{biditufte-handout.cfg}
5419   {\input{biditufte-handout.cfg}
5420    \ClassInfo{biditufte-handout}{Loading biditufte-handout configuration file \@gobble}}
5421   {}%
5422 }

```

## 7.29 biditufte-book.cls

```

5423 \NeedsTeXFormat{LaTeX2e}[1994/06/01]
5424 \ProvidesClass{biditufte-book}[2011/06/18 v0.1 biditufte-book class]
5425 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{book}}
5426 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidituftefloat}}
5427 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidituftetoc}}
5428 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidituftehyperref}}
5429 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidituftetitle}}
5430 \ProcessOptions\relax
5431 \LoadClass{book}
5432 \RequirePackage{bidituftefloat}
5433 \RequirePackage{bidituftesidenote}
5434 \RequirePackage{bidituftetoc}
5435 \RequirePackage{bidituftegeneralstructure}
5436 \RequirePackage{bidituftehyperref}
5437 \RequirePackage{bidituftetitle}
5438 %%
5439 % Set up any book-specific stuff now
5440 %%
5441 % The front matter in Tufte's /Beautiful Evidence/ contains everything up
5442 % to the opening page of Chapter 1. The running heads, when they appear,
5443 % contain only the (arabic) page number in the outside corner.
5444 %\newif\if@mainmatter \@mainmattertrue
5445 \renewcommand\frontmatter{%
5446   \cleardoublepage%
5447   \@mainmatterfalse%
5448   \pagenumbering{arabic}%
5449   %\pagestyle{plain}%
5450   \fancyhf{}%
5451   \ifthenelse{\boolean{@bidituftefloat@twoside}}%
5452     {\fancyhead[LE,RO]{\thepage}}%
5453     {\fancyhead[RE,RO]{\thepage}}%
5454 }
5455 %%

```



```

5456 % The main matter in Tufte's /Beautiful Evidence/ doesn't restart the page
5457 % numbering---it continues where it left off in the front matter.
5458 \renewcommand\mainmatter{%
5459   \cleardoublepage%
5460   \@mainmattertrue%
5461   \fancyhf{}%
5462   \ifthenelse{\boolean{@biditytuftefloat@twoside}}%
5463     {\renewcommand{\chaptermark}[1]{\markboth{##1}{}}}%
5464     \fancyhead[LE]{\thepage\quad\smallcaps{\newlinetospace{\plaintitle}}}% book title
5465     \fancyhead[RO]{\smallcaps{\newlinetospace{\leftmark}}\quad\thepage}% chapter title
5466     {\fancyhead[RE,RO]{\smallcaps{\newlinetospace{\plaintitle}}\quad\thepage}}% book title
5467 }
5468 %%
5469 % The back matter contains appendices, indices, glossaries, endnotes,
5470 % bibliographies, list of contributors, illustration credits, etc.
5471 \renewcommand\backmatter{%
5472   \if@openright%
5473     \cleardoublepage%
5474   \else%
5475     \clearpage%
5476   \fi%
5477   \@mainmatterfalse%
5478 }
5479 %%
5480 % Only show the chapter titles in the table of contents
5481 \setcounter{tocdepth}{0}
5482 \AtBeginDocument{%
5483   \IfFileExists{biditytufte-book.cfg}
5484   {\input{biditytufte-book.cfg}}
5485   \ClassInfo{biditytufte-book}{Loading biditytufte-book configuration file \@gobble}}
5486 {}%
5487 }

```

### 7.30 **bidipoem.sty**

```

5488 \NeedsTeXFormat{LaTeX2e}
5489 \ProvidesPackage{bidipoem}%
5490 [2014/04/27 v0.9 Environments for typesetting Persian traditional and modern poems]
5491
5492 % Usage:
5493 %
5494 % \Setversedim #1#2 % define the layout (within a group):
5495 % #1 = length of both half-verses
5496 % #2 = separation distance = length of a connection, if present
5497 % Variant:
5498 % \Setversedim #1[#2]#3 % for half-verses of unequal length
5499 % #1 = length of first (=right) half-verse
5500 % #2 = length of second (=left) half-verse
5501 % #3 = separation distance = length of a connection, if present
5502 %

```



```

5503 % \traditionalhalfverses #1#2 % typeset two separated half-verses
5504 % #1 = text of first (=right) half-verse
5505 % #2 = text of second (=left) half-verse
5506 % Variant:
5507 % \traditionalhalfverses #1[#2]#3 % typeset two connected half-verses
5508 % #1 = text of first (=right) half-verse
5509 % #2 = text of connection
5510 % #3 = text of second (=left) half-verse
5511 %
5512 % Alternative (if preferred):
5513 %
5514 % \traditionalconnverses #1#2#3 % = \traditionalhalfverses #1[#2]#3
5515
5516
5517 \newcommand*{\bidipoem@spreadbox}[2]{\hbox to #1{#2}}
5518
5519 % define the layout, verses will be centered
5520
5521 \newdimen \bidipoem@hvlen \newdimen \bidipoem@hvsep
5522 \newdimen \bidipoem@hvind \newdimen \bidipoem@@hvlen
5523
5524 \newcommand*{\Setversesdim}[2]{% set lengths of half-verse, [separation]
5525 \bidipoem@hvind \textwidth
5526 \bidipoem@hvlen #1\relax \advance \bidipoem@hvind -\bidipoem@hvlen
5527 \ifx [#2\def \bidipoem@next {\bidipoem@set@verseI []}\else
5528 \bidipoem@@hvlen \bidipoem@hvlen \def \bidipoem@next {\bidipoem@set@@verse {#2}}\fi \bidipoem
5529
5530 \def \bidipoem@set@verseI [#1]{% optional parameter
5531 \bidipoem@@hvlen #1\relax \bidipoem@set@@verse }
5532
5533 \newcommand*{\bidipoem@set@@verse}[1]{% separation
5534 \advance \bidipoem@hvind -\bidipoem@@hvlen \bidipoem@hvsep #1\relax
5535 \advance \bidipoem@hvind -\bidipoem@hvsep \divide \bidipoem@hvind 2 }
5536
5537 \newcommand*{\traditionalconnverses}[3]{% first half-verse, connection, second half-verse
5538 \ifdim Opt > \bidipoem@hvind %
5539 \bidipoem@spreadbox \bidipoem@hvlen {#1}\\ \hfill % first block
5540 \else
5541 \noindent \hspace \bidipoem@hvind \relax \bidipoem@spreadbox \bidipoem@hvlen {#1}\fi
5542 \bidipoem@spreadbox \bidipoem@hvsep {#2}% separator
5543 \bidipoem@spreadbox \bidipoem@@hvlen {#3}% second block
5544 \par }
5545
5546 % macro for two half verses
5547 \newcommand*{\traditionalhalfverses}[2]{% optional parameter?
5548 \ifx [#2\def \bidipoem@half@verses@next{\bidipoem@half@verses {#1}[]}%
5549 \else\def \bidipoem@half@verses@next{\bidipoem@half@verses {#1}[\hfill]{#2}}\fi%
5550 \bidipoem@half@verses@next}
5551
5552 \def \bidipoem@half@verses #1[#2]#3{% first[mid]second

```



```

5553 \traditionalconnverses {#1}{#2}{#3}}
5554
5555
5556 {\catcode\^^M=\active % these lines must end with %
5557 \gdef\traditionalpoem@obeylines{\catcode\^^M\active \let^^M\traditionalpoem@par}%
5558 \global\let^^M\traditionalpoem@par} % this is in case ^^M appears in a \write
5559 {\catcode\^^M=\active % these lines must end with %
5560 \gdef\modernpoem@obeylines{\catcode\^^M\active \let^^M\modernpoem@par}%
5561 \global\let^^M\modernpoem@par} % this is in case ^^M appears in a \write
5562 \def\poemcolsepskip{.1\versewidth plus .1\versewidth minus .05\versewidth}
5563 \def\poemmarginskip{1em plus 1fil minus 1em}
5564 \def\poemextrabaselineskip{0\baselineskip}
5565 \def\poemskip{\medskip}
5566 \newcommand{\bidipoem@openbox}{\leavevmode
5567 \hbox to.77778em{%
5568 \hfil\vrule
5569 \vbox to.675em{\hrule width.6em\vfil\hrule}%
5570 \vrule\hfil}}
5571 \def\poemblocksep{\quad\hbox{\bidipoem@openbox}}
5572 \newdimen\versewidth
5573 \newtoks\bidipoem@p@ftn
5574 \def\poem@verse#1{%
5575 \ifdim\wd#1>\new@poem@width
5576 \xdef\new@poem@width{\the\wd#1}%
5577 \ifdim\new@poem@width>\poem@width
5578 \xdef\poem@width{\new@poem@width}%
5579 \global\let\poem@needrun\relax
5580 \fi
5581 \fi
5582 \hbox to\poem@width{\unhbox#1}%
5583 \global\bidipoem@p@ftn\expandafter{\expandafter}\the\bidipoem@p@ftn%
5584 }
5585 \def\poem@linebegin{\vadjust{}}\hskip\@flushglue\hskip\poemmarginskip\relax}
5586 \def\poem@lineend{\nobreak\hskip\poemmarginskip\hskip\@flushglue\vadjust{}}
5587 \def\poem@lineversesep{%
5588 \nobreak
5589 \hskip\z@ plus 1filll%
5590 \penalty600%
5591 \hskip\poemcolsepskip
5592 \hskip\z@ plus -2filll%
5593 \vadjust{}}%
5594 \nobreak
5595 \hskip\z@ plus 1filll%
5596 }
5597 \def\poem@lineparsebegin{%
5598 \halign\bgroup
5599 \global\setbox\verse@i=\hbox{%
5600 \let\@footnotetext\bidipoem@p@ftntext%
5601 \let\@LTRfootnotetext\bidipoem@p@LTRftntext%
5602 \let\@RTLfootnotetext\bidipoem@p@RTLftntext%

```



```

5603 \let\@xfootnotenext\bidipoem@p@xftntext%
5604 \let\@xfootnote\bidipoem@p@xfootnote%
5605 \let\@xLTRfootnotenext\bidipoem@p@xLTRftntext%
5606 \let\@xLTRfootnote\bidipoem@p@xLTRfootnote%
5607 \let\@xRTLfootnotenext\bidipoem@p@xRTLftntext%
5608 \let\@xRTLfootnote\bidipoem@p@xRTLfootnote%
5609 \ignorespaces##\unskip}&&
5610 \global\setbox\verse@ii=\hbox{%
5611 \let\@footnotetext\bidipoem@p@ftntext%
5612 \let\@LTRfootnotetext\bidipoem@p@LTRftntext%
5613 \let\@RTLfootnotetext\bidipoem@p@RTLftntext%
5614 \let\@xfootnotenext\bidipoem@p@xftntext%
5615 \let\@xfootnote\bidipoem@p@xfootnote%
5616 \let\@xLTRfootnotenext\bidipoem@p@xLTRftntext%
5617 \let\@xLTRfootnote\bidipoem@p@xLTRfootnote%
5618 \let\@xRTLfootnotenext\bidipoem@p@xRTLftntext%
5619 \let\@xRTLfootnote\bidipoem@p@xRTLfootnote%
5620 \ignorespaces##\unskip}
5621 \cr
5622 }
5623 \def\poem@lineparseend{%
5624 \crr\egroup
5625 \vskip-\baselineskip
5626 }
5627 \def\traditionalpoem@cr{%
5628 \cr\poem@line
5629 }
5630 \newbox\verse@i
5631 \newbox\verse@ii
5632 \newif\ifpoem@started
5633
5634 \def\poem@line{%
5635 \poem@lineparseend
5636 \ifdim\wd\verse@i>\z@\global\poem@startedtrue\fi
5637 \ifdim\wd\verse@ii>\z@\global\poem@startedtrue\fi
5638 \ifpoem@started
5639 \ifdim\wd\verse@ii>\z@\else
5640 \nopagebreak[3]
5641 \fi
5642 \leavevmode
5643 \poem@linebegin
5644 \poem@verse\verse@i
5645 \ifdim\wd\verse@ii>\z@
5646 \poem@lineversesep
5647 \poem@verse\verse@ii
5648 \fi
5649 \poem@lineend
5650 % \nopagebreak
5651 \par
5652 \vskip\poemextrabaselineskip

```



```

5653 \fi
5654 \poem@lineparsebegin
5655 }
5656 \def\@traditionalpoem{%
5657 \stepcounter{poem@no}
5658 \ifnum\max@poem@no<\number\c@poem@no%
5659 \xdef\poem@width{\z@}%
5660 \else
5661 \xdef\poem@width{\poem@prop{poem@width}}%
5662 \fi
5663 \xdef\new@poem@width{\z@}%
5664 \global\versewidth=\poem@width

5665 \poemskip\par
5666 \begingroup
5667 \tabskip=\z@
5668 \parskip=\z@
5669 \parindent=\z@
5670 \parfillskip=\z@
5671 \rightskip=\z@
5672 \leftskip=\z@
5673 \widowpenalty=10000% No break between verses of the same line.
5674 \clubpenalty=10000% Same as above. Not really needed.
5675 \def\newblock{\hfil\poemblocksep\hfil\null}%
5676 \def\traditionalpoem@par{\traditionalpoem@cr}% Redefine \par for possible \obeylines
5677 \def\{\global\poem@startedtrue\traditionalpoem@cr}%
5678 \global\poem@startedfalse
5679 \csname poem@obeylines\endcsname
5680 \let\poem@obeylines\relax
5681 \poem@lineparsebegin
5682 }
5683 \def\@endtraditionalpoem{%
5684 \cr
5685 \ifdim\wd\verse@i>\z@\poem@line\else\ifdim\wd\verse@ii>\z@\poem@line\else
5686 \noalign{%
5687 \skip0=\poemextrabaseskip
5688 \vskip-\skip0
5689 \vskip-\baselineskip
5690 }%
5691 \fi\fi
5692 \poem@lineparseend
5693 \endgroup
5694 \par
5695 \vskip\baselineskip
5696 \poemskip
5697 \if@nparlist \else
5698 \ifdim\lastskip >\z@
5699 \@tempskipa\lastskip \vskip -\lastskip
5700 \advance\@tempskipa\parskip \advance\@tempskipa -\@outerparskip
5701 \vskip\@tempskipa

```



```

5702     \fi
5703     \@endparenv
5704     \fi
5705 \ifdim\new@poem@width<\poem@width
5706 \global\let\poem@needrun\relax
5707 \fi
5708     \poem@write@aux{\poem@width@{\romannumeral\c@poem@no}{\new@poem@width}}%
5709 \ifx\AtEndDocument\undefined\poem@finish\fi
5710 }
5711
5712
5713 \long\def\bidipoem@p@ftntext#1{%
5714     \edef\@tempxi{\the\bidipoem@p@ftn\noexpand\footnotetext[\the\csname c@\@mpfn\endcsname]}%
5715     \global\bidipoem@p@ftn\expandafter{\@tempxi{#1}}}%
5716 \long\def\bidipoem@p@LTRftntext#1{%
5717     \edef\@tempxi{\the\bidipoem@p@ftn\noexpand\LTRfootnotetext[\the\csname c@\@mpfn\endcsname]}%
5718     \global\bidipoem@p@ftn\expandafter{\@tempxi{#1}}}%
5719 \long\def\bidipoem@p@RTLftntext#1{%
5720     \edef\@tempxii{\the\bidipoem@p@ftn\noexpand\RTLfootnotetext[\the\csname c@\@mpfn\endcsname]}%
5721     \global\bidipoem@p@ftn\expandafter{\@tempxii{#1}}}%
5722
5723 \long\def\bidipoem@p@xftntext[#1]#2{%
5724     \global\bidipoem@p@ftn\expandafter{\the\bidipoem@p@ftn\footnotetext[#1]{#2}}}
5725
5726 \long\def\bidipoem@p@xLTRftntext[#1]#2{%
5727     \global\bidipoem@p@ftn\expandafter{\the\bidipoem@p@ftn\LTRfootnotetext[#1]{#2}}}
5728
5729 \long\def\bidipoem@p@xRTLftntext[#1]#2{%
5730     \global\bidipoem@p@ftn\expandafter{\the\bidipoem@p@ftn\RTLfootnotetext[#1]{#2}}}
5731
5732 \def\bidipoem@p@xfootnote[#1]{%
5733     \begingroup
5734         \csname c@\@mpfn\endcsname #1\relax
5735         \unrestored@protected@xdef\@thefnmark{\thempfn}%
5736     \endgroup
5737     \@footnotemark\bidipoem@p@xftntext[#1]}
5738
5739 \def\bidipoem@p@xLTRfootnote[#1]{%
5740     \begingroup
5741         \csname c@\@mpfn\endcsname #1\relax
5742         \unrestored@protected@xdef\@thefnmark{\thempfn}%
5743     \endgroup
5744     \@footnotemark\bidipoem@p@xLTRftntext[#1]}
5745
5746 \def\bidipoem@p@xRTLfootnote[#1]{%
5747     \begingroup
5748         \csname c@\@mpfn\endcsname #1\relax
5749         \unrestored@protected@xdef\@thefnmark{\thempfn}%
5750     \endgroup
5751     \@footnotemark\bidipoem@p@xRTLftntext[#1]}

```





```

5752
5753
5754
5755 \newenvironment{traditionalpoem}{\@traditionalpoem}{\@endtraditionalpoem}
5756 \expandafter\def\csname traditionalpoem*\endcsname{\let\poem@obeylines=\traditionalpoem@obeyl
5757 \expandafter\def\csname endtraditionalpoem*\endcsname{\endtraditionalpoem}
5758 \def\poem@finish{%
5759 \poem@write@aux{max@poem@no}{\number\c@poem@no}%
5760 \ifx\poem@needrun\relax
5761 \PackageWarning{bidipoem}{Unjustified poem. Rerun XeLaTeX to get poem right}%
5762 \global\let\poem@needrun\undefined
5763 \fi
5764 }
5765 \ifx\AtEndDocument\undefined\else\AtEndDocument\poem@finish\fi
5766 \newcounter{poem@no}\setcounter{poem@no}{\z@}
5767 \ifx\max@poem@no\undefined
5768     \def\max@poem@no{0}%
5769 \fi
5770 \newcommand{\poem@prop}[1]{\@nameuse{#1@romannumeral\c@poem@no}}
5771 \newcommand{\poem@write@aux}[2]{%
5772     \def\@x{\immediate\write\@auxout{\global\noexpand\@namedef{#1}{#2}}}%
5773     \@x
5774 }
5775 \def\@modernpoem{%
5776 \par
5777 \begingroup
5778 \parskip=\z@
5779 \parindent=\z@
5780 \def\[{ \settab\@tabplus\ignorespaces}%
5781 \def\]{ \@tabminus\ignorespaces}%
5782 \def\newblock{\poemblocksep}%
5783 \let\newpoem@tabcr\@tabcr
5784 \def\modernpoem@par{% Redefine \par for possible \obeylines
5785     \ifpoem@started\else
5786         \ifdim\wd\@curline>\z@\global\poem@startedtrue\else
5787             \@stopfield
5788             \ifdim\wd\@curfield>\z@\global\poem@startedtrue\fi
5789             \@contfield
5790         \fi
5791     \fi
5792     \ifpoem@started\newpoem@tabcr\fi}%
5793 \def\@tabcr{\global\poem@startedtrue\newpoem@tabcr}%
5794 \global\poem@startedfalse
5795 \csname poem@obeylines\endcsname
5796 \let\poem@obeylines\relax
5797 \begin{tabbing}%
5798 }
5799 \def\@endmodernpoem{%
5800 \global\poem@startedfalse
5801 \ifdim\wd\@curline>\z@\global\poem@startedtrue\else

```



```

5802 \@stopfield
5803 \ifdim\wd\@curfield>\z@\global\poem@startedtrue\fi
5804 \@contfield
5805 \fi
5806 \ifpoem@started\else\let\@stopline\@stopfield\fi
5807 \end{tabbing}%
5808 \endgroup
5809 \par
5810 \if@nolist \else
5811 \ifdim\lastskip >\z@
5812 \@tempkipa\lastskip \vskip -\lastskip
5813 \advance\@tempkipa\parskip \advance\@tempkipa -\@outerparskip
5814 \vskip\@tempkipa
5815 \fi
5816 \@endparenv
5817 \fi
5818 }
5819 \newenvironment{modernpoem}{\@modernpoem}{\@endmodernpoem}
5820 \expandafter\def\csname modernpoem*\endcsname{\let\poem@obeylines=\modernpoem@obeylines\moder
5821 \expandafter\def\csname endmodernpoem*\endcsname{\endmodernpoem}
5822 \gdef\@startfield{%
5823 \global\setbox\@curfield\hbox\bgroup%
5824 \let\@footnotetext\bidipoem@p@ftntext%
5825 \let\@LTRfootnotetext\bidipoem@p@LTRftntext%
5826 \let\@RTLfootnotetext\bidipoem@p@RTLftntext%
5827 \let\@xfootnotenext\bidipoem@p@xftntext%
5828 \let\@xfootnote\bidipoem@p@xfootnote%
5829 \let\@xLTRfootnotenext\bidipoem@p@xLTRftntext%
5830 \let\@xLTRfootnote\bidipoem@p@xLTRfootnote%
5831 \let\@xRTLfootnotenext\bidipoem@p@xRTLftntext%
5832 \let\@xRTLfootnote\bidipoem@p@xRTLfootnote%
5833 \color@begingroup}
5834 \gdef\@stopfield{%
5835 \color@endgroup\egroup\global\bidipoem@p@ftn\expandafter{\expandafter}\the\bidipoem@p@ftn}
5836 \gdef\@contfield{%
5837 \global\setbox\@curfield\hbox\bgroup%
5838 \let\@footnotetext\bidipoem@p@ftntext%
5839 \let\@LTRfootnotetext\bidipoem@p@LTRftntext%
5840 \let\@RTLfootnotetext\bidipoem@p@RTLftntext%
5841 \let\@xfootnotenext\bidipoem@p@xftntext%
5842 \let\@xfootnote\bidipoem@p@xfootnote%
5843 \let\@xLTRfootnotenext\bidipoem@p@xLTRftntext%
5844 \let\@xLTRfootnote\bidipoem@p@xLTRfootnote%
5845 \let\@xRTLfootnotenext\bidipoem@p@xRTLftntext%
5846 \let\@xRTLfootnote\bidipoem@p@xRTLfootnote%
5847 \color@begingroup\unhbox\@curfield}

```

### 7.31 boek3-xetex-bidi.def

```

5848 \ProvidesFile{boek3-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for boek3 class for XeTeX]

```



```

5849 \renewenvironment{theindex}{%
5850   \if@twocolumn
5851     \@restonecolfalse
5852   \else
5853     \@restonecoltrue
5854   \fi
5855   \columnseprule \z@
5856   \columnsep 35\p@
5857   \twocolumn[\@makeschapterhead{\indexname}]%
5858   \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
5859   \thispagestyle{plain}\parindent\z@
5860   \parskip\z@ \@plus .3\p@\relax
5861   \let\item\@idxitem
5862 }{%
5863   \if@restonecol\onecolumn\else\clearpage\fi}
5864 \renewcommand*\head@style{%
5865   \interlinepenalty \@M
5866   \hyphenpenalty=\@M \exhyphenpenalty=\@M
5867   \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
5868 \renewcommand*\@regtocline[3]{%
5869   \ifnum #1>\c@tocdepth
5870   \else
5871     \vskip\z@\@plus.2\p@
5872     {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
5873     \if@RTL\rightskip\else\leftskip\fi\unitindent
5874     \if@RTL\leftskip\else\rightskip\fi\unitindent\@plus 1fil
5875     \parfillskip\z@
5876     \@tempdima\unitindent
5877     \parindent\z@
5878     \leavevmode
5879     \hbox{}\hskip -\if@RTL\rightskip\else\leftskip\fi\relax#2\nobreak
5880     \hskip 1em \nobreak{\slshape #3}\par
5881   }%
5882   \fi}
5883 \if@oldtoc
5884 \renewcommand*\l@part[2]{%
5885   \ifnum \c@tocdepth >-2\relax
5886     \addpenalty{-\@highpenalty}%
5887     \addvspace{2.25em \@plus\p@}%
5888     \begingroup
5889       \setlength\@tempdima{3em}%
5890       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
5891       \parfillskip -\@pnumwidth
5892       {\leavevmode
5893         \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
5894         \nobreak
5895         \global\@nobreaktrue
5896         \everypar{\global\@nobreakfalse\everypar{}}%
5897       \endgroup
5898   \fi}

```



```

5899 \else
5900   \renewcommand*\l@part{%
5901     \ifnum \c@tocdepth >-2\relax
5902       \addpenalty{-\@highpenalty}%
5903       \addvspace{2.25em \@plus \p}%
5904       \@regtocline{0}%
5905     \fi}
5906 \fi
5907 \if@oldtoc
5908 \renewcommand*\l@chapter[2]{%
5909   \addpenalty{-\@highpenalty}%
5910   \vskip 1.0em \@plus\p@
5911   \setlength\@tempdima{1.5em}%
5912   \begingroup
5913   \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
5914   \parfillskip -\@pnumwidth
5915   \leavevmode \bfseries
5916   \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
5917   \hskip -\if@RTL\rightskip\else\leftskip\fi
5918   #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
5919   \penalty\@highpenalty
5920   \endgroup}
5921 \else
5922 \renewcommand*\l@chapter{\@regtocline{0}}
5923 \fi
5924 \renewenvironment{abstract}{%
5925   \titlepage
5926   \null\vfil
5927   \section*{\SectFont \abstractname}
5928   \noindent\ignorespaces}
5929 {\par\vfil\null\endtitlepage}
5930 \renewenvironment{thebibliography}[1]
5931 {\chapter*{\bibname}%
5932   \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
5933   \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
5934   \bidi@thebibliography@font@hook%
5935   \list{\@biblabel{\@arabic\c@enumiv}}%
5936     {\settowidth\labelwidth{\@biblabel{#1}}%
5937     \leftmargin\labelwidth
5938     \advance\leftmargin\labelsep
5939     \@openbib@code
5940     \usecounter{enumiv}%
5941     \let\p@enumiv\@empty
5942     \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
5943   \sloppy\clubpenalty4000\widowpenalty4000
5944   \sfcode`. \m}
5945 {\def\@noitemerr
5946   {\@latex@warning{Empty `thebibliography' environment}}%
5947   \endlist}
5948 \renewcommand*\left@footnoterule{%

```



```

5949 \kern-3\p@
5950 \kern.5\baselineskip
5951 \hrule\@width\unitindent
5952 \kern.4\baselineskip
5953 }
5954 \renewcommand*\right@footnoterule{%
5955 \kern-3\p@
5956 \kern.5\baselineskip
5957 \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
5958 \kern.4\baselineskip}
5959 \renewcommand*\thesection{\thechapter\@SepMark\@arabic\c@section}
5960 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
5961 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
5962 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
5963 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
5964 \renewcommand*\theequation{%
5965 \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@equation}
5966 \renewcommand*\thefigure{%
5967 \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@figure}
5968 \renewcommand*\thetable{%
5969 \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@table}
5970 \renewcommand*\maketitle{%
5971 \begin{titlepage}%
5972 \let\footnotesize\small
5973 \let\right@footnoterule\relax
5974 \let\left@footnoterule\relax
5975 \let\textwidth\footnoterule\relax
5976 \let \footnote \thanks
5977 \long\def\@makefnmark##1{\parindent\z@
5978 \def\labelitemi{\textendash}\@revlabeltrue
5979 \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
5980 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
5981 \if@compatibility\setcounter{page}{0}\fi
5982 \null\vfil
5983 \vskip 60\p@
5984 \begin{center}%
5985 \TitleFont
5986 {\LARGE \def\{\{\penalty -\@M}
5987 \if@allcaps
5988 \expandafter\uc@nothanks\@title\thanks\relax
5989 \else
5990 \@title
5991 \fi\par}%
5992 \vskip 3em%
5993 {\large
5994 \lineskip .75em \parindent\z@
5995 \begin{tabular}[t]{c}%
5996 \if@allcaps
5997 \expandafter\uc@author\author\and\relax
5998 \else

```



```

5999         \@author
6000         \fi
6001     \end{tabular}\par}%
6002     \vskip 1.5em%
6003     {\large
6004     \if@allcaps
6005         \uppercase\expandafter{\@date}%
6006     \else
6007         \@date
6008     \fi\par}%
6009 \end{center}\par
6010 \@thanks
6011 \vfil\null
6012 \end{titlepage}%
6013 \setcounter{footnote}{0}%
6014 \global\let\thanks\relax
6015 \global\let\maketitle\relax
6016 \global\let\@thanks\@empty
6017 \global\let\@author\@empty
6018 \global\let\@title\@empty
6019 \global\let\@date\@empty
6020 \global\let\title\relax
6021 \global\let\author\relax
6022 \global\let\date\relax
6023 \global\let\and\relax
6024 }

```

### 7.32 boek-xetex-bidi.def

```

6025 \ProvidesFile{boek-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for boek class for XeTeX]
6026 \renewenvironment{theindex}{%
6027     \if@twocolumn
6028         \@restonecolfalse
6029     \else
6030         \@restonecoltrue
6031     \fi
6032     \columnseprule \z@
6033     \columnsep 35\p@
6034     \twocolumn[\@makeschapterhead{\indexname}]{%
6035         \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}}%
6036     \thispagestyle{plain}\parindent\z@
6037     \parskip\z@ \@plus .3\p@\relax
6038     \let\item\@idxitem
6039 }{%
6040     \if@restonecol\onecolumn\else\clearpage\fi}
6041 \renewcommand*\head@style{%
6042     \interlinepenalty \@M
6043     \hyphenpenalty=\@M \exhyphenpenalty=\@M
6044     \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
6045 \renewcommand*\@regtocline[3]{%

```



```

6046 \ifnum #1>\c@tocdepth
6047 \else
6048 \vskip\z@\@plus.2\p@
6049 {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
6050 \if@RTL\righskip\else\leftskip\fi\unitindent
6051 \if@RTL\leftskip\else\righskip\fi\unitindent\@plus 1fil
6052 \parfillskip\z@
6053 \@tempdima\unitindent
6054 \parindent\z@
6055 \leavevmode
6056 \hbox{}\hskip -\if@RTL\righskip\else\leftskip\fi\relax#2\nobreak
6057 \hskip 1em \nobreak{\slshape #3}\par
6058 }%
6059 \fi}
6060 \if@oldtoc
6061 \renewcommand*\l@part[2]{%
6062 \ifnum \c@tocdepth >-2\relax
6063 \addpenalty{-\@highpenalty}%
6064 \addvspace{2.25em \@plus\p@}%
6065 \begingroup
6066 \setlength\@tempdima{3em}%
6067 \parindent \z@ \if@RTL\leftskip\else\righskip\fi \@pnumwidth
6068 \parfillskip -\@pnumwidth
6069 {\leavevmode
6070 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
6071 \nobreak
6072 \global\@nobreaktrue
6073 \everypar{\global\@nobreakfalse\everypar{}}%
6074 \endgroup
6075 \fi}
6076 \else
6077 \renewcommand*\l@part{%
6078 \ifnum \c@tocdepth >-2\relax
6079 \addpenalty{-\@highpenalty}%
6080 \addvspace{2.25em \@plus \p@}%
6081 \@regtocline{0}%
6082 \fi}
6083 \fi
6084 \if@oldtoc
6085 \renewcommand*\l@chapter[2]{%
6086 \addpenalty{-\@highpenalty}%
6087 \vskip 1.0em \@plus\p@
6088 \setlength\@tempdima{1.5em}%
6089 \begingroup
6090 \parindent \z@ \if@RTL\leftskip\else\righskip\fi \@pnumwidth
6091 \parfillskip -\@pnumwidth
6092 \leavevmode \bfseries
6093 \advance\if@RTL\righskip\else\leftskip\fi\@tempdima
6094 \hskip -\if@RTL\righskip\else\leftskip\fi
6095 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par

```



```

6096 \penalty\@highpenalty
6097 \endgroup}
6098 \else
6099 \renewcommand*\l@chapter{\@regtocline{0}}
6100 \fi
6101 \renewcommand*\left@footnoterule{%
6102 \kern-3\p@
6103 \kern.5\baselineskip
6104 \hrule\@width\unitindent
6105 \kern.4\baselineskip
6106 }
6107 \renewcommand*\right@footnoterule{%
6108 \kern-3\p@
6109 \kern.5\baselineskip
6110 \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
6111 \kern.4\baselineskip}
6112 \renewenvironment{abstract}{%
6113 \titlepage
6114 \null\vfil
6115 \section*{\SectFont \abstractname}
6116 \noindent\ignorespaces}
6117 {\par\vfil\null\endtitlepage}
6118 \renewenvironment{thebibliography}[1]
6119 {\chapter*{\bibname}%
6120 \mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
6121 \ifRTL\ifLTRbibitems\@RTLfalse\else\fi\else\ifRTLbibitems\@RTLtrue\else\fi\fi
6122 \bidi@thebibliography@font@hook%
6123 \list{\@biblabel{\@arabic\c@enumiv}}%
6124 {\settowidth\labelwidth{\@biblabel{#1}}%
6125 \leftmargin\labelwidth
6126 \advance\leftmargin\labelsep
6127 \@openbib@code
6128 \usecounter{enumiv}%
6129 \let\p@enumiv\@empty
6130 \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
6131 \sloppy\clubpenalty4000\widowpenalty4000%
6132 \sfcode\.\@m}
6133 {\def\@noitemerr
6134 {\@latex@warning{Empty `thebibliography' environment}}%
6135 \endlist}
6136 \renewcommand*\thesection{\thechapter\@SepMark\@arabic\c@section}
6137 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
6138 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
6139 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
6140 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
6141 \renewcommand*\theequation{%
6142 \ifnum \c@chapter>z@ \thechapter\@SepMark\fi\@arabic\c@equation}
6143 \renewcommand*\thefigure{%
6144 \ifnum \c@chapter>z@ \thechapter\@SepMark\fi\@arabic\c@figure}
6145 \renewcommand*\thetable{%

```





```

6146 \ifnum\c@chapter>\z@\thechapter\@SepMark\fi\@arabic\c@table}
6147 \renewcommand*\maketitle{%
6148 \begin{titlepage}%
6149 \let\footnotesize\small
6150 \let\right@footnoterule\relax
6151 \let\left@footnoterule\relax
6152 \let\textwidth@footnoterule\relax
6153 \let \footnote \thanks
6154 \long\def\@makefnmark##1{\parindent\z@
6155 \def\labelitemi{\textendash}\@revlabeltrue
6156 \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
6157 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
6158 \if@compatibility\setcounter{page}{0}\fi
6159 \null\vfil
6160 \vskip 60\p@
6161 \begin{center}%
6162 \TitleFont
6163 {\LARGE \def\{\penalty -\@M}
6164 \if@allcaps
6165 \expandafter\uc@nothanks\@title\thanks\relax
6166 \else
6167 \@title
6168 \fi\par}%
6169 \vskip 3em%
6170 {\large
6171 \lineskip .75em \parindent\z@
6172 \begin{tabular}[t]{c}%
6173 \if@allcaps
6174 \expandafter\uc@authornothanks\@author\and\relax
6175 \else
6176 \@author
6177 \fi
6178 \end{tabular}\par}%
6179 \vskip 1.5em%
6180 {\large
6181 \if@allcaps
6182 \uppercase\expandafter{\@date}%
6183 \else
6184 \@date
6185 \fi\par}%
6186 \end{center}\par
6187 \@thanks
6188 \vfil\null
6189 \end{titlepage}%
6190 \setcounter{footnote}{0}%
6191 \global\let\thanks\relax
6192 \global\let\maketitle\relax
6193 \global\let\@thanks\@empty
6194 \global\let\@author\@empty
6195 \global\let\@title\@empty

```



```

6196 \global\let\@date\@empty
6197 \global\let\title\relax
6198 \global\let\author\relax
6199 \global\let\date\relax
6200 \global\let\and\relax
6201 }

```

### 7.33 bookest-xetex-bidi.def

```

6202 \ProvidesFile{bookest-xetex-bidi.def}[2010/07/25 v0.4 bidi adaptations for bookest class for
6203 \def\@makechapterhead#1{%
6204   \vspace*{20\p@}
6205   {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont
6206     \ifnum \c@secnumdepth >\m@ne
6207       \if@mainmatter
6208         {\colorA\huge\scshape \@chapapp\space \thechapter}
6209         \par\nobreak
6210         \vskip 10\p@
6211       \fi
6212     \fi
6213     \interlinepenalty\@M
6214     {\colorB\hrule}
6215     \vskip 15\p@
6216     \if@RTL\begin{flushleft}\else\begin{flushright}\fi
6217       {\colorA\Huge \bfseries #1}\par\nobreak
6218     \if@RTL\end{flushleft}\else\end{flushright}\fi
6219     \vskip 5\p@
6220     {\colorB\hrule}
6221     \vskip 30\p@
6222   }}
6223 \def\@makeschapterhead#1{%
6224   \vspace*{20\p@}
6225   {\parindent \z@ \raggedright \normalfont
6226     {\colorB\hrule}
6227     \vskip 15\p@
6228     \begin{center}
6229       {\colorA\Huge \bfseries #1}\par\nobreak
6230     \end{center}
6231     \vskip 5\p@
6232     {\colorB\hrule}
6233     \vskip 30\p@
6234   }}

```

### 7.34 book-xetex-bidi.def

```

6235 \ProvidesFile{book-xetex-bidi.def}[2017/06/09 v1.0 bidi adaptations for standard book class f
6236 \renewenvironment{theindex}
6237   {\if@twocolumn
6238     \@restonecolfalse
6239   \else
6240     \@restonecoltrue

```



```

6241          \fi
6242          \columnseprule \z@
6243          \columnsep 35\p@
6244          \twocolumn[\@makeschapterhead{\indexname}]%
6245          \@mkboth{\MakeUppercase\indexname}%
6246              {\MakeUppercase\indexname}%
6247          \thispagestyle{plain}\parindent\z@
6248          \parskip\z@ \@plus .3\p@\relax
6249          \let\item\@idxitem}
6250      {\if@restonecol\onecolumn\else\clearpage\fi}
6251 \ifclassloaded{bookest}{\{}%
6252   \if@titlepage
6253   \renewcommand\maketitle{\begin{titlepage}%
6254   \let\footnotesize\small
6255   \let\right@footnoterule\relax
6256   \let\left@footnoterule\relax
6257   \let\textwidth\footnoterule\relax
6258   \let \footnote \thanks
6259   \let \LTRfootnote \LTRthanks
6260   \let \RTLfootnote \RTLthanks
6261   \null\vfil
6262   \vskip 60\p@
6263   \begin{center}%
6264       {\LARGE \@title \par}%
6265       \vskip 3em%
6266       {\large
6267         \lineskip .75em%
6268         \begin{tabular}[t]{c}%
6269             \@author
6270             \end{tabular}\par}%
6271         \vskip 1.5em%
6272         {\large \@date \par}%           % Set date in \large size.
6273     \end{center}\par
6274     \@thanks
6275     \vfil\null
6276     \end{titlepage}%
6277     \setcounter{footnote}{0}%
6278     \global\let\thanks\relax
6279     \global\let\LTRthanks\relax
6280     \global\let\RTLthanks\relax
6281     \global\let\maketitle\relax
6282     \global\let\@thanks\@empty
6283     \global\let\@author\@empty
6284     \global\let\@date\@empty
6285     \global\let\@title\@empty
6286     \global\let\title\relax
6287     \global\let\author\relax
6288     \global\let\date\relax
6289     \global\let\and\relax
6290 }

```



```

6291 \else
6292 \renewcommand\maketitle{\par
6293   \begin{group}
6294     \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
6295     \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
6296     \long\def\@makefntext##1{\parindent 1em\noindent
6297       \hb@xt@1.8em{%
6298         \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
6299     \if@twocolumn
6300       \ifnum \col@number=\@ne
6301         \@maketitle
6302       \else
6303         \twocolumn[\@maketitle]%
6304       \fi
6305     \else
6306       \newpage
6307       \global\@topnum\z@ % Prevents figures from going at top of page.
6308       \@maketitle
6309     \fi
6310     \thispagestyle{plain}\@thanks
6311   \end{group}
6312   \setcounter{footnote}{0}%
6313   \global\let\thanks\relax
6314   \global\let\LTRthanks\relax
6315   \global\let\RTLthanks\relax
6316   \global\let\maketitle\relax
6317   \global\let\@maketitle\relax
6318   \global\let\@thanks\@empty
6319   \global\let\@author\@empty
6320   \global\let\@date\@empty
6321   \global\let\@title\@empty
6322   \global\let\title\relax
6323   \global\let\author\relax
6324   \global\let\date\relax
6325   \global\let\and\relax
6326 }
6327 \def\@maketitle{%
6328   \newpage
6329   \null
6330   \vskip 2em%
6331   \begin{center}%
6332     \let \footnote \thanks
6333     \let \LTRfootnote \LTRthanks
6334     \let \RTLfootnote \RTLthanks
6335     {\LARGE \@title \par}%
6336     \vskip 1.5em%
6337     {\large
6338       \lineskip .5em%
6339       \begin{tabular}[t]{c}%
6340         \@author

```



```

6341     \end{tabular}\par}%
6342     \vskip 1em%
6343     {\large \@date}%
6344     \end{center}%
6345     \par
6346     \vskip 1.5em}
6347 \fi}
6348 \renewcommand*\l@part[2]{%
6349     \ifnum \c@tocdepth >-2\relax
6350         \addpenalty{-\@highpenalty}%
6351         \addvspace{2.25em \@plus\p@}%
6352         \setlength\@tempdima{3em}%
6353         \begingroup
6354             \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
6355             \parfillskip -\@pnumwidth
6356             {\leavevmode
6357                 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
6358             \nobreak
6359             \global\@nobreaktrue
6360             \everypar{\global\@nobreakfalse\everypar{}}%
6361         \endgroup
6362     \fi}
6363 \renewcommand*\l@chapter[2]{%
6364     \ifnum \c@tocdepth >\m@ne
6365         \addpenalty{-\@highpenalty}%
6366         \vskip 1.0em \@plus\p@
6367         \setlength\@tempdima{1.5em}%
6368         \begingroup
6369             \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
6370             \parfillskip -\@pnumwidth
6371             \leavevmode \bfseries
6372             \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
6373             \hskip -\if@RTL\rightskip\else\leftskip\fi
6374             #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
6375             \penalty\@highpenalty
6376         \endgroup
6377     \fi}
6378 \renewcommand\left@footnoterule{%
6379     \kern-3\p@
6380     \hrule\@width.4\columnwidth
6381     \kern2.6\p@}
6382 \renewcommand\right@footnoterule{%
6383     \kern-3\p@
6384     \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
6385     \kern2.6\p@}
6386 \renewcommand\theequation
6387     {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
6388 \renewcommand \thefigure
6389     {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
6390 \renewcommand \thetable

```



```

6391      {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
6392 \renewcommand \thechapter {\@arabic\c@chapter}
6393 \renewcommand \thesection {\thechapter\@SepMark\@arabic\c@section}
6394 \renewcommand \thesubsection {\thesection\@SepMark\@arabic\c@subsection}
6395 \renewcommand \thesubsubsection {\thesubsection \@SepMark\@arabic\c@subsubsection}
6396 \renewcommand \theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
6397 \renewcommand \thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
6398 \def\@makechapterhead#1{%
6399   \vspace*{50\p@}%
6400   {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont
6401     \ifnum \c@secnumdepth >\m@ne
6402       \if@mainmatter
6403         \huge\bfseries \@chapapp\space \thechapter
6404         \par\nobreak
6405         \vskip 20\p@
6406       \fi
6407     \fi
6408     \interlinepenalty\@M
6409     \Huge \bfseries #1\par\nobreak
6410     \vskip 40\p@
6411   }}
6412 \def\@makeschapterhead#1{%
6413   \vspace*{50\p@}%
6414   {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
6415     \normalfont
6416     \interlinepenalty\@M
6417     \Huge \bfseries #1\par\nobreak
6418     \vskip 40\p@
6419   }}
6420 \renewcommand\backmatter{%
6421   \if@openright
6422     \cleardoublepage
6423   \else
6424     \clearpage
6425   \fi
6426   \@mainmatterfalse}
6427 \renewenvironment{thebibliography}[1]
6428   {\chapter*{\bibname}%
6429     \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
6430     \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
6431     \bidi@thebibliography@font@hook%
6432     \list{\@biblabel{\@arabic\c@enumiv}}%
6433       {\settowidth\labelwidth{\@biblabel{#1}}%
6434         \leftmargin\labelwidth
6435         \advance\leftmargin\labelsep
6436         \@openbib@code
6437         \usecounter{enumiv}%
6438         \let\p@enumiv\@empty
6439         \renewcommand\theenumiv{\@arabic\c@enumiv}}%
6440     \sloppy

```



```

6441 \clubpenalty4000
6442 \@clubpenalty \clubpenalty
6443 \widowpenalty4000%
6444 \sfcode`\.\@m}
6445 {\def\@noitemerr
6446 {\@latex@warning{Empty `thebibliography' environment}}}%
6447 \endlist}

```

## 7.35 breqn-xetex-bidi.def

```

6448 \ProvidesFile{breqn-xetex-bidi.def}[2016/09/12 v0.2 bidi adaptations for breqn package for Xe
6449 \def\@dmath[#1]{\if@RTL\@RTLfalse\fi%
6450 \everydisplay\expandafter{\the\everydisplay \display@setup}%
6451 \if@noskipsec \leavevmode \fi
6452 \if@inlabel \leavevmode \global\@inlabelfalse \fi
6453 \if@eq@group\else@eq@prelim\fi
6454 \setkeys{breqn}{#1}%
6455 \the@eqstyle
6456 \eq@setnumber
6457 \begingroup
6458 \eq@setup@a
6459 \eq@startup
6460 }
6461 \def\@dgroup[#1]{\if@RTL\@RTLfalse\fi%
6462 \let\eq@group\@True \global\let\eq@GRP@first@dmath\@True
6463 \global\GRP@queue\@emptytoks \global\setbox\GRP@box\box\voidb@x
6464 \global\let\GRP@label\@empty
6465 \global\grp@wdL\z@\global\grp@wdR\z@\global\grp@wdT\z@
6466 \global\grp@linewidth\z@\global\grp@wdNum\z@
6467 \global\let\grp@eqs@numbered\@False
6468 \global\let\grp@aligned\@True
6469 \global\let\grp@shiftnumber\@False
6470 \eq@prelim
6471 \setkeys{breqn}{#1}%
6472 \if\grp@hasNumber \grp@setnumber \fi
6473 }
6474 \def\@dseries[#1]{\if@RTL\@RTLfalse\fi%
6475 \let\display@setup\dseries@display@setup
6476 % Question: should this be the default for dseries???
6477 \global\eq@wdCond\z@
6478 \@dmath[layout={M},#1]%
6479 \mathsurround\z@\@math \penalty\@Mi
6480 \let\endmath\ends@math
6481 \def\premath{%
6482 \ifdim\lastskip<.3em \unskip
6483 \else\ifnum\lastpenalty<\@M \dquad\fi\fi
6484 }%
6485 \def\postmath{\unpenalty\eq@addpunct \penalty\intermath@penalty \dquad \@ignoretrue}%
6486 \ignorespaces
6487 }

```



```

6488 \def\eqnumform#1{\if@nonlatin\beginR\@RTLtrue\fi(#1\@italiccorr)\if@nonlatin\endR\fi}
6489 \renewenvironment{dsuspend}{%
6490   \global\setbox\EQ@box\vbox\bgroup\if@nonlatin\@RTLtrue\fi \@parboxrestore
6491   \parshape 1 \displayindent \displaywidth\relax
6492   \hsize=\columnwidth \noindent\ignorespaces
6493 }{%
6494   \par\egroup
6495   \global\setbox\GRP@box\vbox{%
6496     \hbox{\copy\EQ@box\top{\unvbox\EQ@box}}}%
6497   \unvbox\GRP@box
6498 }%
6499 \global\GRP@queue\@xp{\the\GRP@queue
6500   \@elt{\let\eq@isIntertext\@True}}%
6501 }%
6502 }

```

## 7.36 cals-xetex-bidi.def

```

6503 \ProvidesFile{cals-xetex-bidi.def}[2016/11/30 v0.4 bidi adaptations for cals package for XeTeX]
6504 \renewcommand\cals@setup@alignment[1]{%
6505   \if c#1\relax \cals@vfillAdd \leftskip \cals@vfillAdd \rightskip \fi
6506   \if l#1\relax \cals@vfillDrop\leftskip \cals@vfillDrop\rightskip \fi
6507   \if r#1\relax \cals@vfillAdd \leftskip \cals@vfillDrop\rightskip \fi
6508 }
6509 \renewcommand\cals@table@alignment{\if@RTLtab r\else l\fi}
6510 \renewenvironment{calstable}[1][\cals@table@alignment]{%
6511   \if@RTLtab\cals@activate@rtl\fi
6512   \let\cals@thead@tokens=\relax
6513   \let\cals@tfoot@tokens=\relax
6514   \let\cals@tbody@tokens=\relax
6515   \cals@tfoot@height=0pt \relax
6516   \let\cals@last@context=n%
6517   \let\cals@current@context=b%
6518   \parindent=0pt \relax%
6519   \cals@setup@alignment{#1}%
6520   \cals@setpadding{Ag}\cals@setcellprevdepth{Al}\cals@set@tohsize%
6521   %% Alignment inside is independent on center/flushright outside
6522   \parfillskip=0pt plus1fil\relax
6523   \let\cals@borderL=\relax
6524   \let\cals@borderR=\relax
6525   \let\cals@borderT=\relax
6526   \let\cals@borderB=\relax
6527   \setbox\cals@backup@row=\box\voidb@x\relax
6528   \cals@AtBeginTable
6529 }{% End of the table
6530   \cals@tfoot@tokens\lastrule\cals@AtEndTable}
6531 \renewcommand\alignL{%
6532   \if@RTLtab
6533     \cals@vfillAdd\cals@paddingL
6534   \else

```





```

6535 \cals@vfillDrop\cals@paddingL
6536 \fi
6537 \cals@vfillDrop\cals@paddingR}
6538 \renewcommand\alignR{%
6539 \if@RTLtab
6540 \cals@vfillDrop\cals@paddingL
6541 \else
6542 \cals@vfillAdd\cals@paddingL
6543 \fi
6544 \cals@vfillDrop\cals@paddingR}

```

### 7.37 caption-xetex-bidi.def

```

6545 \ProvidesFile{caption-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for caption package fo
6546 \let\makecaption\caption@makecaption

```

### 7.38 caption3-xetex-bidi.def

```

6547 \ProvidesFile{caption3-xetex-bidi.def}[2013/04/01 v0.1 bidi adaptations for caption3 package
6548 \renewcommand*\caption@par{%
6549 \parindent\caption@parindent\hangindent\if@RTL-\fi\caption@hangindent}%

```

### 7.39 colortbl-xetex-bidi.def

```

6550 \ProvidesFile{colortbl-xetex-bidi.def}[2012/06/10 v0.2 bidi adaptations for colortbl package
6551 \def\CT@setup{%
6552 \@tempdimb\col@sep
6553 \@tempdimc\col@sep
6554 \def\CT@color{%
6555 \global\let\CT@do@color\CT@@do@color
6556 \bidicolor}}
6557 \def\@classz{\@classx
6558 \@tempcnta\count@
6559 \prepnext@tok
6560 \expandafter\CT@extract\the\toks\@tempcnta\columncolor!\@nil
6561 \@addtopreamble{\if@RTLtab\beginL\fi%
6562 \setbox\z@\hbox\bgroup\bgroup\if@RTLtab\beginR\fi
6563 \ifcase \@chnum
6564 \hskip\stretch{.5}\kern\z@
6565 \d@llarbegin
6566 \insert@column
6567 \d@llarend\hskip\stretch{.5}\or
6568 \d@llarbegin \insert@column \d@llarend \hfill \or
6569 \hfill\kern\z@ \d@llarbegin \insert@column \d@llarend \or
6570 $\vcenter
6571 \@startpbox{\@nextchar}\insert@column \@endpbox $\or
6572 \vtop \@startpbox{\@nextchar}\insert@column \@endpbox \or
6573 \vbox \@startpbox{\@nextchar}\insert@column \@endpbox
6574 \fi
6575 \if@RTLtab\endR\fi\egroup\egroup
6576 \begingroup
6577 \CT@setup

```



```

6578 \CT@column@color
6579 \CT@row@color
6580 \CT@cell@color
6581 \CT@do@color
6582 \endgroup
6583 \@tempdima\ht\z@
6584 \advance\@tempdima\minrowclearance
6585 \vrule\@height\@tempdima\@width\z@
6586 \unhbox\z@\if@RTLtab\endL\fi}%
6587 \prepnext@tok}

```

## 7.40 color-xetex-bidi.def

```

6588 \ProvidesFile{color-xetex-bidi.def}[2013/04/08 v0.2 bidi adaptations for color package for Xe
6589 \long\def\color@b@x#1#2#3{%
6590 \leavevmode\ifmmode\else\if@RTL\beginL\fi\fi
6591 \setbox\z@\hbox{\kern\fbboxsep\set@color\if@RTL\beginR\fi#3\if@RTL\endR\fi}\kern\fbboxsep}%
6592 \dimen@ \ht\z@\advance\dimen@\fbboxsep\ht\z@\dimen@
6593 \dimen@ \dp\z@\advance\dimen@\fbboxsep\dp\z@\dimen@
6594 \if1{#2\color@block{\wd\z@}{\ht\z@}{\dp\z@}%
6595 \box\z@}}\ifmmode\else\if@RTL\endL\fi\fi}
6596 \def\normalcolor{\let\current@color\default@color\ifhmode\if@RTL\beginL\aftergroup\endR\fi\fi}
6597 \DeclareRobustCommand\color{%
6598 \ifhmode\if@RTL\beginL\aftergroup\endR\fi\fi\@ifnextchar[\@undeclaredcolor\@declaredcolor}
6599 \def\@declaredcolor#1{%
6600 \@ifundefined{\string\color @#1}%
6601 {\c@lor@error{`#1'}}%
6602 {\expandafter\let\expandafter\current@color
6603 \csname\string\color @#1\endcsname
6604 \set@color}%
6605 \ifhmode\if@RTL\beginR\aftergroup\endL\fi\fi\ignorespaces}
6606 \def\@undeclaredcolor[#1]#2{%
6607 \@ifundefined{color@#1}%
6608 {\c@lor@error{model `#1'}}%
6609 {\csname color@#1\endcsname\current@color{#2}%
6610 \set@color}%
6611 \ifhmode\if@RTL\beginR\aftergroup\endL\fi\fi\ignorespaces}
6612 \DeclareRobustCommand\bicolor{%
6613 \@ifnextchar[\@bidiundeclaredcolor\@bidideclaredcolor}
6614 \def\@bidiundeclaredcolor[#1]#2{%
6615 \@ifundefined{color@#1}%
6616 {\c@lor@error{model `#1'}}%
6617 {\csname color@#1\endcsname\current@color{#2}%
6618 \set@color}%
6619 \ignorespaces}
6620 \def\@bidideclaredcolor#1{%
6621 \@ifundefined{\string\color @#1}%
6622 {\c@lor@error{`#1'}}%
6623 {\expandafter\let\expandafter\current@color
6624 \csname\string\color @#1\endcsname

```



```

6625     \set@color}%
6626   \ignorespaces}
6627 \def\color@box#1#2{\color@b@x\relax{\bidicolor#1{#2}}}
6628 \def\color@fbox#1#2#3{%
6629   \color@b@x{\fboxsep\z@\bidicolor#1{#2}\fbox}{\bidicolor#1{#3}}}
6630 \def\color@setgroup{\begingroup\ifhmode\if@RTL\beginL\aftergroup\endR\fi\fi\set@color\ifhmode

```

## 7.41 combine-xetex-bidi.def

```

6631 \ProvidesFile{combine-xetex-bidi.def}[2011/09/23 v0.1 bidi adaptations for combine class for
6632 \renewcommand{\c@ll@chapsecii}[2]{%
6633   \if@RTL\advance\rightskip\@tempdima\else\advance\leftskip\@tempdima\fi
6634   \if@RTL\hskip -\rightskip\else\hskip -\leftskip\fi
6635   #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
6636 }
6637 \renewcommand{\c@ll@chapseci}{%
6638   \setlength\@tempdima{0em}%
6639   \begingroup
6640     \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
6641     \parfillskip -\@pnumwidth
6642     \leavevmode
6643 }
6644 \renewenvironment{tocindent}[1]{%
6645   \hangindent \if@RTL-\fi#1 \hangafter -100\relax}{%

```

## 7.42 crop-xetex-bidi.def

```

6646 \ProvidesFile{crop-xetex-bidi.def}[2013/04/10 v0.2 bidi adaptations for crop package for XeTeX]
6647 \renewcommand*\CROP@ulc{%
6648   \if@RTLmain%
6649     \begin{picture}(0,0)
6650       \unitlength\p@\thinlines
6651       \put(-40,0){\circle{10}}
6652       \put(-30,-5){\line(0,1){10}}
6653       \put(-35,0){\line(1,0){30}}
6654       \put(-10,30){\circle{10}}
6655       \put(-5,30){\line(1,0){10}}
6656       \put(0,35){\line(0,-1){30}}
6657     \end{picture}%
6658   \else%
6659     \begin{picture}(0,0)
6660       \unitlength\p@\thinlines
6661       \put(-30,0){\circle{10}}
6662       \put(-30,-5){\line(0,1){10}}
6663       \put(-35,0){\line(1,0){30}}
6664       \put(0,30){\circle{10}}
6665       \put(-5,30){\line(1,0){10}}
6666       \put(0,35){\line(0,-1){30}}
6667     \end{picture}%
6668   \fi%
6669 }

```



```

6670 \renewcommand*\CROP@urc{%
6671   \if@RTLmain%
6672     \begin{picture}(0,0)
6673       \unitlength\p@\thinline
6674       \put(20,0){\circle{10}}
6675       \put(30,-5){\line(0,1){10}}
6676       \put(35,0){\line(-1,0){30}}
6677       \put(-10,30){\circle{10}}
6678       \put(-5,30){\line(1,0){10}}
6679       \put(0,35){\line(0,-1){30}}
6680     \end{picture}%
6681   \else%
6682     \begin{picture}(0,0)
6683       \unitlength\p@\thinline
6684       \put(30,0){\circle{10}}
6685       \put(30,-5){\line(0,1){10}}
6686       \put(35,0){\line(-1,0){30}}
6687       \put(0,30){\circle{10}}
6688       \put(-5,30){\line(1,0){10}}
6689       \put(0,35){\line(0,-1){30}}
6690     \end{picture}%
6691   \fi%
6692 }
6693 \renewcommand*\CROP@llc{%
6694   \if@RTLmain%
6695     \begin{picture}(0,0)
6696       \unitlength\p@\thinline
6697       \put(-40,0){\circle{10}}
6698       \put(-30,-5){\line(0,1){10}}
6699       \put(-35,0){\line(1,0){30}}
6700       \put(-10,-30){\circle{10}}
6701       \put(-5,-30){\line(1,0){10}}
6702       \put(0,-35){\line(0,1){30}}
6703     \end{picture}%
6704   \else%
6705     \begin{picture}(0,0)
6706       \unitlength\p@\thinline
6707       \put(-30,0){\circle{10}}
6708       \put(-30,-5){\line(0,1){10}}
6709       \put(-35,0){\line(1,0){30}}
6710       \put(0,-30){\circle{10}}
6711       \put(-5,-30){\line(1,0){10}}
6712       \put(0,-35){\line(0,1){30}}
6713     \end{picture}%
6714   \fi%
6715 }
6716 \renewcommand*\CROP@lrc{%
6717   \if@RTLmain%
6718     \begin{picture}(0,0)
6719       \unitlength\p@\thinline

```



```

6720      \put(20,0){\circle{10}}
6721      \put(30,-5){\line(0,1){10}}
6722      \put(35,0){\line(-1,0){30}}
6723      \put(-10,-30){\circle{10}}
6724      \put(-5,-30){\line(1,0){10}}
6725      \put(0,-35){\line(0,1){30}}
6726  \end{picture}%
6727  \else%
6728  \begin{picture}(0,0)
6729      \unitlength\p@\thinlines
6730      \put(30,0){\circle{10}}
6731      \put(30,-5){\line(0,1){10}}
6732      \put(35,0){\line(-1,0){30}}
6733      \put(0,-30){\circle{10}}
6734      \put(-5,-30){\line(1,0){10}}
6735      \put(0,-35){\line(0,1){30}}
6736  \end{picture}%
6737  \fi%
6738 }
6739 \ifpackagewith{crop}{cam}{%
6740 \CROP@execopt{cam}%
6741 }{}

```

### 7.43 cutwin-xetex-bidi.def

```

6742 \ProvidesFile{cutwin-xetex-bidi.def}[2011/11/12 v0.1 bidi adaptations for cutwin package for
6743 \renewcommand*{\c@twcompctr}[2]{%
6744   \def\c@twfirst{1}
6745   \loop\advance\c@twwinlines\m@ne
6746   \setbox\c@twslicea=\vsplit#1 to\baselineskip
6747   \setbox\c@twsliceb=\vsplit#1 to\baselineskip
6748   \c@twprune{\c@twslicea}{\c@twlftside}%
6749   \c@twprune{\c@twsliceb}{\c@twrtside}%
6750   \ifnum\c@twfirst=\@ne
6751     \setbox#2=\vbox{\unvbox#2\hbox
6752       to\hsize{\if@RTL\box\c@twsliceb\else\box\c@twslicea\fi\pageinwindow\hfil\if@RTL\box\c@tws
6753     \else
6754       \setbox#2=\vbox{\unvbox#2\hbox
6755         to\hsize{\if@RTL\box\c@twsliceb\else\box\c@twslicea\fi\hfil\if@RTL\box\c@twslicea\else\bo
6756     \fi
6757   \def\c@twfirst{2}
6758   \ifnum\c@twwinlines>\z@\repeat{
6759 \renewcommand*{\c@twcompodctr}[2]{%
6760   \def\c@twrounds{1}
6761   \def\c@twfirst{1}
6762   \@for\c@twlspec:=\c@twb\do{%
6763     \ifnum\c@twrounds=1
6764       \setbox\c@twslicea=\vsplit#1 to\baselineskip % first of pair
6765       \c@twprune{\c@twslicea}{\c@twlspec}%
6766     \def\c@twrounds{2}

```



```

6767 \else
6768 \setbox\c@twsliceb=\vsplit#1 to\baselineskip % second of pair
6769 \c@twprune{\c@twsliceb}{\c@twlspec}%
6770 \ifnum\c@twfirst=1
6771 \setbox#2=\vbox{\unvbox#2\hbox
6772 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}}
6773 \def\c@twfirst{2}
6774 \else
6775 \setbox#2=\vbox{\unvbox#2\hbox
6776 to\hsize{\if@RTL\box\c@twsliceb\else\box\c@twslicea\fi\hfil\if@RTL\box\c@twslicea\else\box\c@twsliceb\fi}}
6777 \fi
6778 \def\c@twrounds{1}
6779 \fi}}

```

## 7.44 cuted-xetex-bidi.def

```

6780 \ProvidesFile{cuted-xetex-bidi.def}[2017/05/06 v0.6 bidi adaptations for cuted package for Xe
6781
6782 \def\RTL@outputdblcol{%
6783 \if@firstcolumn
6784 \global\@firstcolumnfalse
6785 \global\setbox\@leftcolumn\copy\@outputbox
6786 \splitmaxdepth\maxdimen
6787 \vbadness\maxdimen
6788 \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
6789 \setbox\@outputbox\vsplit\@outputbox to\maxdimen
6790 \toks@{\expandafter{\topmark}}%
6791 \xdef\@firstcoltopmark{\the\toks@}%
6792 \toks@{\expandafter{\splitfirstmark}}%
6793 \xdef\@firstcolfirstmark{\the\toks@}%
6794 \ifx\@firstcolfirstmark\@empty
6795 \global\let\@setmarks\relax
6796 \else
6797 \gdef\@setmarks{%
6798 \let\firstmark\@firstcolfirstmark
6799 \let\topmark\@firstcoltopmark}%
6800 \fi
6801 \else
6802 \global\@firstcolumntrue
6803 \setbox\@outputbox\vbox{%
6804 \hb@xt@\textwidth{%
6805 \hskip \columnwidth
6806 \hfil
6807 {\normalcolor\vrule \@width\columnseprule}%
6808 \hfil
6809 \hb@xt@\columnwidth{%
6810 \bidi@firstcolumn@status@write%
6811 \box\@leftcolumn \hss}%
6812 \hskip -\textwidth
6813 \hb@xt@\columnwidth{%

```



```

6814     \bidi@lastcolumn@status@write%
6815     \box\@outputbox \hss}%
6816     \hskip \columnsep
6817     \hskip \columnwidth }}%
6818 \ifvoid\hold@viper
6819 \else
6820     \setbox\@outputbox \vbox to\textheight{%
6821         \box\hold@viper
6822         \box\@outputbox
6823         \vss
6824     }%
6825 \fi
6826 \@combinedblfloats
6827 \@setmarks
6828 \@outputpage
6829 \begingroup
6830     \@dblfloatplacement
6831     \@startdblcolumn
6832     \@whilesw\if@fcolmade \fi{\@outputpage
6833     \@startdblcolumn}%
6834     \ifvoid\@viper
6835     \else
6836         \global\setbox\@viper\vbox{%
6837             \vskip-\stripsep
6838             \unvbox\@viper
6839         }%
6840     \@viperoutput
6841 \fi
6842 \endgroup
6843 \fi}%
6844
6845 \def\LTR@outputdblcol{%
6846     \if@firstcolumn
6847         \global\@firstcolumnfalse
6848         \global\setbox\@leftcolumn\copy\@outputbox
6849         \splitmaxdepth\maxdimen
6850         \vbadness\maxdimen
6851         \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
6852         \setbox\@outputbox\vsplit\@outputbox to\maxdimen
6853         \toks@{\expandafter{\topmark}}%
6854         \xdef\@firstcoltopmark{\the\toks@}%
6855         \toks@{\expandafter{\splitfirstmark}}%
6856         \xdef\@firstcolfirstmark{\the\toks@}%
6857         \ifx\@firstcolfirstmark\@empty
6858             \global\let\@setmarks\relax
6859         \else
6860             \gdef\@setmarks{%
6861                 \let\firstmark\@firstcolfirstmark
6862                 \let\topmark\@firstcoltopmark}%
6863         \fi

```



```

6864 \else
6865 \global\@firstcolumntrue
6866 \setbox\@outputbox\vbox{%
6867 \hb@xt@\textwidth{%
6868 \hb@xt@\columnwidth{%
6869 \bidi@firstcolumn@status@write%
6870 \box\@leftcolumn \hss}%
6871 \hfil
6872 {\normalcolor\vrule \@width\columnseprule}%
6873 \hfil
6874 \hb@xt@\columnwidth{%
6875 \bidi@lastcolumn@status@write%
6876 \box\@outputbox \hss}}}%
6877 \ifvoid\hold@viper
6878 \else
6879 \setbox\@outputbox \vbox to\textheight{%
6880 \box\hold@viper
6881 \box\@outputbox
6882 \vss
6883 }%
6884 \fi
6885 \@combinedblfloats
6886 \@setmarks
6887 \@outputpage
6888 \begingroup
6889 \@dblfloatplacement
6890 \@startdblcolumn
6891 \@whiles\if@fcolmade \fi{\@outputpage
6892 \@startdblcolumn}%
6893 \ifvoid\@viper
6894 \else
6895 \global\setbox\@viper\vbox{%
6896 \vskip-\stripsep
6897 \unvbox\@viper
6898 }%
6899 \@viperoutput
6900 \fi
6901 \endgroup
6902 \fi}%
6903
6904
6905 \def \@addviper {%
6906 \if@firstcolumn
6907 \@insertfalse
6908 \@reqcolroom .5\@pageht
6909 \ht@viper\@reqcolroom
6910 \advance \@reqcolroom \ht\@viper
6911 \advance \@reqcolroom \stripsep
6912 \ifvoid\hold@viper\@tempdima=\z@\else\@tempdima\ht\hold@viper\fi
6913 %%

```





```

6914 \@tempdimb \ht@viper
6915 \loop
6916 \setbox\v@aaa\copy\@holdpg
6917 \setbox\v@ccc\vbox to\@tempdimb{%
6918 \vsplit\v@aaa to\@tempdimb\vss\vsplit\v@aaa to\@tempdimb}%
6919 \wlog{Extra height:\the\ht\v@aaa\space when \the\@tempdimb}%
6920 \ifvoid\v@aaa \else \advance\@tempdimb 1pt \repeat
6921 \loop
6922 \setbox\v@aaa\copy\@holdpg
6923 \setbox\v@ccc\vbox to\@tempdimb{%
6924 \vsplit\v@aaa to\@tempdimb\vss}%
6925 \wlog{(2)Left:\the\ht\v@ccc\space Right:\the\ht\v@aaa\space Output:\the\@tempdimb}%
6926 \ifdim \ht\v@ccc<\ht\v@aaa \@tempdimb \the\ht\v@aaa \repeat
6927 \wlog{- LAST -^^JLeft:\the\ht\v@ccc^^JRight:\the\ht\v@aaa^^JOutput:\the\@tempdimb}%
6928 \setbox\v@ccc\vbox to\@tempdimb{%
6929 \vsplit\@holdpg to\@tempdimb\vss}%
6930 %%
6931 \setbox\@tempboxa \vbox {%
6932 \hb@xt@\textwidth {%
6933 \if@RTLmain%
6934 \hskip \columnwidth
6935 \hfil \vrule width\columnseprule \hfil
6936 \hb@xt@\columnwidth {%
6937 \vbox to\ht@viper{\box\v@ccc\vss} \hss}%
6938 \hskip -\textwidth
6939 \hb@xt@\columnwidth {%
6940 \vbox to\ht@viper{\box\@holdpg\vss} \hss}%
6941 \hskip \columnsep
6942 \hskip \columnwidth
6943 \else%
6944 \hb@xt@\columnwidth {%
6945 \vbox to\ht@viper{\box\v@ccc\vss} \hss}%
6946 \hfil
6947 \vrule \@width\columnseprule
6948 \hfil
6949 \hb@xt@\columnwidth {%
6950 \vbox to\ht@viper{\box\@holdpg\vss} \hss}%
6951 \fi}%
6952 }%
6953 \ifvoid\hold@viper
6954 \global\setbox\hold@viper \vbox {%
6955 \unvbox\@tempboxa
6956 \penalty\interlinepenalty
6957 \vskip\stripsep
6958 \ifnum\outputpenalty <-\@Mii \vskip -\parskip\fi
6959 \outputpenalty \z@
6960 }%
6961 \else
6962 \global\setbox\hold@viper \vbox {%
6963 \unvbox\hold@viper

```



```

6964         \unvbox\@tempboxa
6965         \penalty\interlinepenalty
6966         \vskip\stripsep
6967         \ifnum\outputpenalty <-\@Mii \vskip -\parskip\fi
6968         \outputpenalty \z@
6969         }%
6970     \fi
6971 \ifdim \@colroom>\@reqcolroom
6972     \global\setbox\hold@viper \vbox {%
6973         \unvbox\hold@viper
6974         \box\@viper
6975         \penalty\interlinepenalty
6976         \vskip\stripsep
6977         \ifnum\outputpenalty <-\@Mii \vskip -\parskip\fi
6978         \outputpenalty \z@
6979         }%
6980     \@inserttrue
6981     \advance\@tempdima by-\ht\hold@viper
6982     \global \advance \@colht \@tempdima
6983     \ifdim \@colht<2.5\baselineskip
6984         \@latex@warning@no@line {Optional argument of \noexpand\twocolumn
6985             too tall on page \thepage (1 stulpelis)}%
6986         \@emptycol
6987         \if@firstcolumn
6988             \else
6989                 \@emptycol
6990             \fi
6991         \global\@lastvipertrue
6992     \else
6993         \global \vsize \@colht
6994         \global \@colroom \@colht
6995         \check@floats
6996         \ifdim\@tempdima>\z@
6997             \global\advance\@colroom by-\@tempdima
6998         \fi
6999         \ifdim\@colroom<\z@
7000             \global\@colroom 1pt
7001             \ifdim\@tempdima>\@colht
7002                 \@latex@warning@no@line {TOP ir/ar BOT FLOAT's
7003                     netelpa lape \thepage (1 stulpelis)}%
7004             \fi
7005             \@emptycol
7006             \if@firstcolumn
7007                 \else
7008                     \@emptycol
7009                 \fi
7010             \global\@lastvipertrue
7011         \fi
7012     \fi
7013 \fi

```



```

7014 \else
7015 \insertfalse
7016 \@reqcolroom\@colht
7017 \advance\@reqcolroom \@pageht
7018 \ht@viper.5\@reqcolroom
7019 \@reqcolroom\ht@viper
7020 \advance \@reqcolroom \ht@viper
7021 \advance \@reqcolroom \stripsep
7022 \if@flushend@auto@baselineskip
7023 \setbox\@tempboxa\vbox{\unvcopy\@leftcolumn
7024 \global\lastskip@d\lastskip
7025 \global\lastskip@b\lastskip
7026 \loop
7027 \global\lastskip@a\lastskip@b
7028 \unskip\unpenalty
7029 \global\lastskip@b\lastskip
7030 \global\advance\lastskip@d by\lastskip
7031 \ifdim\lastskip@b=-\lastskip@a
7032 \global\advance\lastskip@d by-\lastskip
7033 \else
7034 \repeat
7035 \ifdim\lastskip@b=-\lastskip@a
7036 \ifdim\lastskip@b=z@
7037 \setbox\lastbox@a\lastbox
7038 \global\advance\lastskip@d by\ht\lastbox@a
7039 \global\advance\lastskip@d by\lastskip
7040 \unskip\unpenalty
7041 \setbox\lastbox@a\lastbox
7042 \global\advance\lastskip@d by\dp\lastbox@a
7043 \else
7044 \global\lastskip@d\lastskip
7045 \global\advance\lastskip@d by\topskip
7046 \fi
7047 \fi
7048 \global\advance\lastskip@d by-\topskip
7049 }%
7050 \ifdim\ht\@holdpg>\@colht
7051 \global\setbox\@holdpg\vbox{\unvbox\@leftcolumn\unskip\unpenalty
7052 \par\eject
7053 \vbox to \@colht{\unvbox\@holdpg\unskip}}%
7054 }%
7055 \else
7056 \global\setbox\@holdpg\vbox{%
7057 \unvbox\@leftcolumn\unskip\unpenalty
7058 \vskip\lastskip@d
7059 \the\At@ViperColsBreak
7060 \unvbox\@holdpg
7061 \unskip
7062 }%
7063 \fi

```



```

7064 \else
7065 \global\setbox\@holdpg\vbox{%
7066 \unvbox\@leftcolumn
7067 \setbox\@tempboxa\lastbox
7068 \on@stripcols@break
7069 \the\At@ViperColsBreak
7070 \unvbox\@holdpg
7071 }%
7072 \fi
7073 \global\At@ViperColsBreak{}%
7074 \ht@viper .5\ht\@holdpg
7075 \ifdim \ht@viper>\@colht
7076 \ht@viper \@colht
7077 \fi
7078 \ifvoid\hold@viper\@tempdima=z@\else\@tempdima\ht\hold@viper\fi
7079 %%
7080 \@tempdimb \ht@viper
7081 \loop
7082 \setbox\v@aaa\copy\@holdpg
7083 \setbox\v@ccc\vbox to\@tempdimb{%
7084 \vsplit\v@aaa to\@tempdimb
7085 \vss
7086 \vsplit\v@aaa to\@tempdimb
7087 }%
7088 \wlog{Extra height:\the\ht\v@aaa\space when \the\@tempdimb}%
7089 \ifvoid\v@aaa
7090 \else
7091 \advance\@tempdimb 1\p@
7092 \repeat
7093 \loop
7094 \setbox\v@aaa\copy\@holdpg
7095 \setbox\v@ccc\vbox to\@tempdimb{\vsplit\v@aaa to\@tempdimb\vss}%
7096 \wlog{(2)Left:\the\ht\v@ccc\space
7097 Right:\the\ht\v@aaa\space
7098 Output:\the\@tempdimb
7099 }%
7100 \ifdim\ht\v@ccc<\ht\v@aaa
7101 \@tempdimb \the\ht\v@aaa
7102 \repeat
7103 \wlog{- LAST -^^JLeft:\the\ht\v@ccc
7104 ^^JRight:\the\ht\v@aaa
7105 ^^JOutput:\the\@tempdimb
7106 }%
7107 \setbox\v@ccc\vbox to\@tempdimb{\vsplit\@holdpg to\@tempdimb\vss}%
7108 \setbox\@tempboxa\vbox{%
7109 \hb@xt@\textwidth {%
7110 \if@RTLmain%
7111 \hskip \columnwidth
7112 \hfil \vrule width\columnseprule \hfil
7113 \hb@xt@\columnwidth{\vbox to\ht@viper{\box\v@ccc\vss} \hss}%

```



```

7114         \hskip -\textwidth
7115         \hb@xt@\columnwidth {\vbox to\ht@viper{\box\@holdpg\vss} \hss}%
7116         \hskip \columnsep
7117         \hskip \columnwidth
7118         \else
7119         \hb@xt@\columnwidth{\vbox to\ht@viper{\box\v@ccc\vss} \hss}%
7120         \hfil
7121         \vrule \@width\columnseprule
7122         \hfil
7123         \hb@xt@\columnwidth {\vbox to\ht@viper{\box\@holdpg\vss} \hss}%
7124         \fi%
7125         }%
7126     }%
7127 \ifvoid\hold@viper
7128     \global\setbox\hold@viper \vbox {%
7129         \unvbox\@tempboxa
7130         \penalty\interlinepenalty
7131         \vskip\stripsep
7132         \ifnum\outputpenalty <-\@Mii \vskip -\parskip\fi
7133         \outputpenalty \z@
7134         }%
7135 \else
7136     \global\setbox\hold@viper \vbox {%
7137         \unvbox\hold@viper
7138         \unvbox\@tempboxa
7139         \penalty\interlinepenalty
7140         \vskip\stripsep
7141         \ifnum\outputpenalty <-\@Mii \vskip -\parskip\fi
7142         \outputpenalty \z@
7143         }%
7144 \fi
7145 \ifdim \@colht>\@reqcolroom
7146     \global\setbox\hold@viper \vbox {%
7147         \unvbox\hold@viper
7148         \box\@viper
7149         \penalty\interlinepenalty
7150         \vskip\stripsep
7151         \ifnum\outputpenalty <-\@Mii \vskip -\parskip\fi
7152         \outputpenalty \z@
7153         }%
7154 \inserttrue
7155 \global\@firstcolumntrue
7156 \advance\@tempdima by-\ht\hold@viper
7157 \global \advance \@colht \@tempdima
7158 \ifdim \@colht<2.5\baselineskip
7159     \latex@warning@no@line {Optional argument of \noexpand\twocolumn
7160                             too tall on page \thepage (2 stulpelis)}%
7161     \emptycol
7162     \if@firstcolumn
7163     \else

```



```

7164         \@emptycol
7165     \fi
7166     \global\@lastvipertrue
7167 \else
7168     \global \vsize \@colht
7169     \global \@colroom \@colht
7170     \check@floats
7171     \ifdim\@tempdima>\z@
7172         \global\advance\@colroom by-\@tempdima
7173     \fi
7174     \ifdim\@colroom<\z@
7175         \global\@colroom 1pt
7176         \ifdim\@tempdima>\@colht
7177             \@latex@warning@no@line {TOP ir/ar BOT FLOAT's
7178                 netelpe lape \thepage (2 stulpelis)}%
7179         \fi
7180         \@emptycol
7181         \if@firstcolumn
7182         \else
7183             \@emptycol
7184         \fi
7185         \global\@lastvipertrue
7186     \fi
7187 \fi
7188 \fi
7189 \fi
7190 \if@insert
7191 \else
7192     \advance\@tempdima by-\ht\hold@viper
7193     \global \advance \@colht \@tempdima
7194     \global\setbox\hold@viper \vbox {%
7195         \unvbox\hold@viper
7196         \csname viper@top@hook\endcsname
7197         \vsplit\@viper to \@colht
7198         \vss
7199     }%
7200     \vbox{%
7201         \global\@firstcolumnfalse
7202         \newpage
7203     \fi
7204 }

```

## 7.45 cvthemebidicasual.sty

```

7205 \NeedsTeXFormat{LaTeX2e}
7206 \ProvidesPackage{cvthemebidicasual}
7207 \DeclareOption{blue}{\}
7208 \newif\if@colourorange\@colourorangefalse
7209 \DeclareOption{orange}{\@colourorange true}
7210 \newif\if@colourgreen\@colourgreenfalse

```



```

7211 \DeclareOption{green}{\@colougreenttrue}
7212 \newif\if@coloured\@colouredfalse
7213 \DeclareOption{red}{\@colouredtrue}
7214 \newif\if@colourgrey\@colourgreyfalse
7215 \DeclareOption{grey}{\@colourgreytrue}
7216 \DeclareOption*{
7217   \PackageWarning{cvthemebidicasual}{Unknown option ‘\CurrentOption’}}
7218 \ExecuteOptions{colour}
7219 \ProcessOptions\relax
7220 \renewcommand*{\listitemsymbol}{\textbullet}
7221 \definecolor{firstnamecolor}{rgb}{0.65,0.65,0.65}
7222 \familynamecolour{808080}
7223 \firstnamecolour{A9A9A9}
7224 \quotecolour{696969}
7225 \addresscolour{696969}
7226 \definecolor{sectionrectanglecolor}{rgb}{0.25,0.50,0.75}
7227 \sectiontitlecolour{1E90FF}
7228 \subsectioncolour{4682B4}
7229 \definecolor{rulecolour}{gray}{0.6}
7230 \definecolor{footersymbolcolour}{rgb}{0.25,0.50,0.75}
7231 \definecolor{footersymbolcolor}{rgb}{0.25,0.50,0.75}
7232 \if@colourorange
7233   \definecolor{sectionrectanglecolor}{rgb}{1.00,0.65,0.20}
7234   \definecolor{sectionrectanglecolor}{rgb}{1.00,0.65,0.20}
7235   \sectiontitlecolour{FF8C00}
7236   \subsectioncolour{FF8C00}
7237   \definecolor{footersymbolcolour}{rgb}{0.95,0.55,0.15}
7238   \definecolor{footersymbolcolor}{rgb}{0.95,0.55,0.15}\fi
7239 \if@colourgreen
7240   \definecolor{sectionrectanglecolor}{rgb}{0.55,0.85,0.35}
7241   \definecolor{sectionrectanglecolour}{rgb}{0.55,0.85,0.35}
7242   \sectiontitlecolour{008000}
7243   \subsectioncolour{008000}
7244   \definecolor{footersymbolcolour}{rgb}{0.30,0.65,0.15}
7245   \definecolor{footersymbolcolor}{rgb}{0.30,0.65,0.15}\fi
7246 \if@coloured
7247   \definecolor{sectionrectanglecolor}{rgb}{1.00,0.30,0.30}
7248   \definecolor{sectionrectanglecolour}{rgb}{1.00,0.30,0.30}
7249   \sectiontitlecolour{FF0000}
7250   \subsectioncolour{FF0000}
7251   \definecolor{footersymbolcolour}{rgb}{0.95,0.20,0.20}
7252   \definecolor{footersymbolcolor}{rgb}{0.95,0.20,0.20}\fi
7253 \if@colourgrey
7254   \definecolor{sectionrectanglecolor}{rgb}{0.75,0.75,0.75}
7255   \definecolor{sectionrectanglecolour}{rgb}{0.75,0.75,0.75}
7256   \sectiontitlecolour{808080}
7257   \subsectioncolour{808080}
7258   \definecolor{footersymbolcolour}{rgb}{0.35,0.35,0.35}
7259   \definecolor{footersymbolcolor}{rgb}{0.35,0.35,0.35}\fi
7260 \renewcommand*{\ttdefault}{pcr}

```



```

7261 \renewcommand*{\firstnamefont}{\fontsize{38}{40}\mdseries\upshape}
7262 \renewcommand*{\familynamefont}{\firstnamefont}
7263 \renewcommand*{\addressfont}{\normalsize\mdseries\slshape}
7264 \renewcommand*{\quoteont}{\large\slshape}
7265 \renewcommand*{\sectionfont}{\Large\mdseries\upshape}
7266 \renewcommand*{\subsectionfont}{\large\mdseries\upshape}
7267 \renewcommand*{\maketitle}{%
7268   {%
7269     \ifthenelse{\isundefined{\@photo}}{%
7270       {}%
7271       {\color{firstnamedcolor}\framebox{\includegraphics[width=\@photowidth]{\@photo}}}}%
7272     \hfill%
7273     \bidi@raggedleft{\firstnamestyle{\@firstname}~\familynamestyle{\@familyname}}\ll[-.35em]}%
7274     {\color{firstnamedcolor}\rule{\textwidth}{.25ex}\ll[2.5em]}%
7275     \ifthenelse{\isundefined{\@quote}}{%
7276       {}%
7277       {\centering{\begin{minipage}{\quotewidth}\centering\quotestyle{\@quote}\end{minipage}}\ll[
7278     ]}%
7279 \newif\if@firstfooterelement\@firstfooterelementtrue
7280 \providecommand*{\footersymbol}{%
7281 \renewcommand*{\footersymbol}{%
7282   \if@firstfooterelement%
7283   \else%
7284     {~~\color{footersymbolcolor}\textbullet~~}\fi}
7285 \providecommand*{\makefooter}{%
7286 \renewcommand*{\makefooter}{%
7287   \fancypagestyle{plain}{%
7288     \fancyfoot[c]{%
7289       \parbox{0.8\textwidth}{%
7290         \centering%
7291         \addressfont\@addresscolour%
7292         \ifthenelse{\isundefined{\@address}}{}{}%
7293         \addresssymbol~\@address\%
7294         \@firstfooterelementfalse}%
7295         \ifthenelse{\isundefined{\@mobile}}{}{}{\mobilesymbol~\@mobile\@firstfooterelementfalse}%
7296         \ifthenelse{\isundefined{\@phone}}{}{}{\footersymbol\phonesymbol~\@phone\@firstfooterelementfalse}%
7297         \ifthenelse{\isundefined{\@fax}}{}{}{\footersymbol\faxsymbol~\@fax\@firstfooterelementfalse}%
7298         \ifthenelse{\isundefined{\@email}}{}{}{\footersymbol\emailsymbol~\emailink{\@email}\@firstfooterelementfalse}%
7299         \ifthenelse{\isundefined{\@extrainfo}}{}{}{\footersymbol\@extrainfo\@firstfooterelementfalse}%
7300       }%
7301       \pagestyle{plain}}
7302 \AtBeginDocument{\makefooter}

```

## 7.46 cvthemebidiclassic.sty

```

7303 \NeedsTeXFormat{LaTeX2e}
7304 \ProvidesPackage{cvthemebidiclassic}
7305 \DeclareOption{blue}{}
7306 \newif\if@colouorange\@colouorangefalse
7307 \DeclareOption{orange}{\@colouorange true}

```





```

7308 \newif\if@colourgreen\@colourgreenfalse
7309 \DeclareOption{green}{\@colourgreentrue}
7310 \newif\if@colourred\@colourredfalse
7311 \DeclareOption{red}{\@colourredtrue}
7312 \newif\if@colourgrey\@colourgreyfalse
7313 \DeclareOption{grey}{\@colourgreytrue}
7314 \DeclareOption*{
7315   \PackageWarning{cvthemebidiclassic}{Unknown option ‘\CurrentOption’}}
7316 \ExecuteOptions{colour}
7317 \ProcessOptions\relax
7318 \renewcommand*{\listitemsymbol}{\textbullet}
7319 \firstnamecolour{}
7320 \familynamecolour{}
7321 \titlecolour{808080}
7322 \quotecolour{696969}
7323 \addresscolour{696969}
7324 \definecolor{sectionrectanglecolour}{rgb}{0.25,0.50,0.75}
7325 \definecolor{sectionrectanglecolor}{rgb}{0.25,0.5,0.75}
7326 \sectiontitlecolour{1E90FF}
7327 \subsectioncolour{4682B4}
7328 \if@colourorange
7329   \addresscolour{FF8C00}
7330   \definecolor{sectionrectanglecolour}{rgb}{1.00,0.65,0.20}
7331   \definecolor{sectionrectanglecolor}{rgb}{1,0.65,0.20}
7332   \sectiontitlecolour{FF8C00}
7333   \subsectioncolour{FF8C00}\fi
7334 \if@colourgreen
7335   \addresscolour{008000}
7336   \definecolor{sectionrectanglecolour}{rgb}{0.55,0.85,0.35}
7337   \definecolor{sectionrectanglecolor}{rgb}{0.55,0.85,0.35}
7338   \sectiontitlecolour{008000}
7339   \subsectioncolour{008000}\fi
7340 \if@colourred
7341   \addresscolour{FF0000}
7342   \definecolor{sectionrectanglecolour}{rgb}{1.00,0.30,0.30}
7343   \definecolor{sectionrectanglecolor}{rgb}{1.00,0.30,0.30}
7344   \sectiontitlecolour{FF0000}
7345   \subsectioncolour{FF0000}\fi
7346 \if@colourgrey
7347   \addresscolour{808080}
7348   \definecolor{sectionrectanglecolour}{rgb}{0.75,0.75,0.75}
7349   \definecolor{sectionrectanglecolor}{rgb}{0.75,0.75,0.75}
7350   \sectiontitlecolour{808080}
7351   \subsectioncolour{808080}\fi
7352 \renewcommand*{\ttdefault}{pcr}
7353 \renewcommand*{\firstnamefont}{\fontsize{34}{36}\mdseries\upshape}
7354 \renewcommand*{\titlefont}{\LARGE\mdseries\slshape}
7355 \renewcommand*{\addressfont}{\normalsize\mdseries\slshape}
7356 \renewcommand*{\familynamefont}{\firstnamefont}
7357 \renewcommand*{\quote font}{\large\slshape}

```



```

7358 \renewcommand*{\sectionfont}{\Large\mdseries\upshape}
7359 \renewcommand*{\subsectionfont}{\large\mdseries\upshape}
7360 \newlength{\maketitlenamemaxwidth}
7361 \setlength{\maketitlenamemaxwidth}{.525\textwidth}
7362 \newlength{\maketitlenamefullwidth}
7363 \settowidth{\maketitlenamefullwidth}{\firstnamestyle{\@firstname~}\familynamestyle{\@familyname}}
7364 \newlength{\maketitlenamewidth}
7365 \ifnum\maketitlenamemaxwidth<\maketitlenamefullwidth\setlength{\maketitlenamewidth}{\maketitlenamemaxwidth}%
7366 \newlength{\maketitlepicturewidth}
7367 \setlength{\maketitlepicturewidth}{\@photowidth}
7368 \newlength{\maketitledetailswidth}
7369 \renewcommand*{\recomputethemelengths}{%
7370   \setlength{\maketitledetailswidth}{\textwidth}%
7371   \addtolength{\maketitledetailswidth}{-\maketitlenamewidth}%
7372   \addtolength{\maketitledetailswidth}{-\separatorcolumnwidth}%
7373   \addtolength{\maketitledetailswidth}{-\maketitlepicturewidth}}
7374 \recomputethemelengths
7375 \newif\if@firstdetailselement\@firstdetailselementtrue
7376 \newcommand*{\maketitledetailsnewline}{%
7377   \if@firstdetailselement%
7378     \@firstdetailselementfalse%
7379   \else%
7380     \[.2em]\fi}
7381 \renewcommand*{\maketitle}{%
7382   % name and title
7383   \begin{minipage}[b]{\maketitlenamewidth}%
7384     \firstnamestyle{\@firstname~}\familynamestyle{\@familyname}%
7385     \ifthenelse{\equal{\@title}{}}{\[1.25em]\titlestyle{\@title}}{}%
7386   \end{minipage}%
7387   % optional data
7388   \begin{minipage}[b]{\maketitledetailswidth}%
7389     \bidi@raggedleft\addressfont\@addresscolour%
7390     \ifthenelse{\isundefined{\@address}}{\[.2em]}{\%
7391       \maketitledetailsnewline%
7392       \addresssymbol~\@address}%
7393     \ifthenelse{\isundefined{\@mobile}}{\[.2em]}{\maketitledetailsnewline\mobilesymbol~\@mobile}%
7394     \ifthenelse{\isundefined{\@phone}}{\[.2em]}{\maketitledetailsnewline\phonesymbol~\@phone}%
7395     \ifthenelse{\isundefined{\@fax}}{\[.2em]}{\maketitledetailsnewline\faxsymbol~\@fax}%
7396     \ifthenelse{\isundefined{\@email}}{\[.2em]}{\maketitledetailsnewline\emailsymbol~\@email}%
7397     \ifthenelse{\isundefined{\@extrainfo}}{\[.2em]}{\maketitledetailsnewline\@extrainfo}%
7398   \end{minipage}%
7399   % optional photo
7400   \ifthenelse{\isundefined{\@photo}}{\[.2em]}{\%
7401     {\hspace*{\separatorcolumnwidth}\color{firstnamecolor}\framebox{\includegraphics[width=\maketitlepicturewidth]{\@photo}}}%
7402   }%
7403   % optional quote
7404   \ifthenelse{\isundefined{\@quote}}{\[.2em]}{\%
7405     {\hspace*{\separatorcolumnwidth}\color{firstnamecolor}\framebox{\includegraphics[width=\maketitlepicturewidth]{\@quote}}}%
7406   }%
7407 }

```



## 7.47 dblfnote-xetex-bidi.def

```

7408 \ProvidesFile{dblfnote-xetex-bidi.def}[2012/12/12 v0.3 bidi adaptations for dblfnote package
7409 \let\autofooterule\relax
7410 \let\rightfootnoterule\relax
7411 \let\leftfootnoterule\relax
7412 \let\textwidthfootnoterule\relax
7413 \let\LRfootnoterule\relax
7414 \def\footnoterule{\kern-3\p@
7415 \hrule \@width \DFNcolumnwidth \kern 2.6\p@}%
7416 \AtBeginDocument{\let\dfn@latex@footnotetext\@footnotetext
7417 \let\@footnotetext\dfn@footnotetext}
7418 \long\def\dfn@LTRfootnotetext#1{{\setbox\dfn@boxa\vbox{
7419 \let\insert\dfn@gobble
7420 \columnwidth\DFNcolumnwidth \hbadness\c@DFNsloppiness
7421 \def\@makefnmark{\smash{\dfn@makefnmark}}}
7422 \dfn@latex@LTRfootnotetext{#1}\par \boxmaxdepth\dfn@fnmaxdp}%
7423 \dfn@dima\ht\dfn@boxa \advance\dfn@dima\dp\dfn@boxa
7424 \ifdim\dfn@dima>\z@\else
7425 \dfn@dima\isp\relax
7426 \setbox\dfn@boxa\vbox{\vbox to1sp{\unvbox\dfn@boxa\vfil}}\fi
7427 \global\setbox\dfn@ins\vbox{\boxmaxdepth\dfn@fnmaxdp
7428 \ifvoid\dfn@ins\else
7429 \unvbox\dfn@ins \allowbreak \nointerlineskip \fi
7430 \ifdfn@allowcbreak \unvbox \else \box \fi \dfn@boxa}%
7431 \setbox\dfn@boxa\copy\dfn@ins
7432 \dfn@split{.5\ht\dfn@boxa}\dfn@boxa\dfn@boxb\dfn@fnmaxdp\footnotesep
7433 \advance\@tempdima\@tempdimb \@tempdimb\@tempdima
7434 \advance\@tempdima-\dfn@fnht \global\dfn@fnht\@tempdimb
7435 \insert\footins{\floatingpenalty\@MM \vbox to\@tempdima{}}}%
7436 \xdef\dfn@list{\dfn@list\@elt{\number\dfn@dima}{\number\@tempdima}}}}
7437 \AtBeginDocument{\let\dfn@latex@LTRfootnotetext\@LTRfootnotetext
7438 \let\@LTRfootnotetext\dfn@LTRfootnotetext}
7439 \long\def\dfn@RTLfootnotetext#1{{\setbox\dfn@boxa\vbox{
7440 \let\insert\dfn@gobble
7441 \columnwidth\DFNcolumnwidth \hbadness\c@DFNsloppiness
7442 \def\@makefnmark{\smash{\dfn@makefnmark}}}
7443 \dfn@latex@RTLfootnotetext{#1}\par \boxmaxdepth\dfn@fnmaxdp}%
7444 \dfn@dima\ht\dfn@boxa \advance\dfn@dima\dp\dfn@boxa
7445 \ifdim\dfn@dima>\z@\else
7446 \dfn@dima\isp\relax
7447 \setbox\dfn@boxa\vbox{\vbox to1sp{\unvbox\dfn@boxa\vfil}}\fi
7448 \global\setbox\dfn@ins\vbox{\boxmaxdepth\dfn@fnmaxdp
7449 \ifvoid\dfn@ins\else
7450 \unvbox\dfn@ins \allowbreak \nointerlineskip \fi
7451 \ifdfn@allowcbreak \unvbox \else \box \fi \dfn@boxa}%
7452 \setbox\dfn@boxa\copy\dfn@ins
7453 \dfn@split{.5\ht\dfn@boxa}\dfn@boxa\dfn@boxb\dfn@fnmaxdp\footnotesep
7454 \advance\@tempdima\@tempdimb \@tempdimb\@tempdima
7455 \advance\@tempdima-\dfn@fnht \global\dfn@fnht\@tempdimb

```



```

7456 \insert\footins{\floatingpenalty\@MM \vbox to\@tempdima{}}%
7457 \xdef\dfn@list{\dfn@list\@elt{\number\dfn@dima}{\number\@tempdima}}}}
7458 \AtBeginDocument{\let\dfn@latex@RTLfootnotetext\@RTLfootnotetext
7459 \let\@RTLfootnotetext\dfn@RTLfootnotetext}
7460 \def\dfn@RTLmakecol{\ifvoid\footins\else
7461 \dfn@dima\ht\footins
7462 \@tempcnta\z@ \dfn@countins
7463 \@tempdima\z@ \let\@elt\dfn@elt@getht
7464 \dfn@list\@nil
7465 \ifdim\@tempdima=\z@\else
7466 \dfn@split\@tempdima\dfn@ins\dfn@boxa\z@\z@
7467 \global\setbox\dfn@ins\box\dfn@ins
7468 \@tempswatrue
7469 \ifdfn@trysingle
7470 \setbox\dfn@boxb\vbox{\unvcopy\@cclv}\@tempdima\@colroom
7471 \advance\@tempdima-\ht\dfn@boxb \advance\@tempdima-\dp\dfn@boxb
7472 \advance\@tempdima-\skip\footins
7473 \advance\@tempdima-\ht\dfn@boxa
7474 \ifdim\@tempdima<\z@\else \@tempswafalse
7475 \global\setbox\footins\vbox{\boxmaxdepth\dfn@fnmaxdp
7476 \footnoterule \unvbox\dfn@boxa}\fi\fi
7477 \if@tempswa
7478 \dfn@split{\dfn@dima}\dfn@boxa\dfn@boxb\dfn@fnmaxdp\footnotesep
7479 \global\setbox\footins\vbox{\hbox{%
7480 \hskip \DFNcolumnwidth
7481 \hskip\DFNcolumnsep
7482 \hbox to\DFNcolumnwidth{\vbox to\@tempdima{\footnoterule
7483 \unvbox\dfn@boxb\vss}\hss}
7484 \hskip -\textwidth
7485 \hbox to\DFNcolumnwidth{\ifvoid\dfn@boxa\else
7486 \vbox to\@tempdima{
7487 \setbox\@tempboxa\vbox{\footnoterule}
7488 \ifdfn@ruleboth \unvbox\@tempboxa
7489 \else \@tempdima\ht\@tempboxa
7490 \advance\@tempdima\dp\@tempboxa
7491 \vskip\@tempdima
7492 \prevdepth\dp\@tempboxa \fi
7493 \unvbox\dfn@boxa\vss}\fi\hss}
7494 \hskip \DFNcolumnsep
7495 \hskip \DFNcolumnwidth}}\fi\fi
7496 \global\dfn@fnht\z@
7497 \ifx\dfn@list\@empty\else
7498 \let\@elt\dfn@elt@adjust \dfn@dima\z@ \dfn@dimb\z@
7499 \dfn@list \global\advance\dfn@fnht\dfn@dimb
7500 \let\@elt\relax
7501 \ifdim\dfn@dimb>\z@
7502 \xdef\dfn@list{\@elt{0}{\number\dfn@dimb}\dfn@list}%
7503 \insert\footins{\floatingpenalty\@MM
7504 \vbox to\dfn@dimb{}}\fi
7505 \ifdim\dfn@fnht>\@tempdima

```



```

7506 \tempdimb\@tempdima \advance\@tempdimb-\dfn@fnht
7507 \global\dfn@fnht\@tempdima
7508 \xdef\dfn@list{\dfn@list\@elt{0}{\number\@tempdimb}}%
7509 \xdef\dfn@afteroutput{\insert\footins{
7510 \floatingpenalty\@MM
7511 \vbox to\number\@tempdimb sp{}}}%
7512 \global\let\noexpand\dfn@afteroutput\relax}%
7513 \fi\fi
7514 \fi}%
7515 \let\footnoterule\relax \dfn@latex@makecol
7516 \let\footnoterule\dfn@footnoterule}
7517 \def\dfn@LTRmakecol{\ifvoid\footins\else
7518 \dfn@dima\ht\footins
7519 \@tempcnta\z@ \dfn@countins
7520 \@tempdima\z@ \let\@elt\dfn@elt@getht
7521 \dfn@list\@nil
7522 \ifdim\@tempdima=\z@\else
7523 \dfn@split\@tempdima\dfn@ins\dfn@boxa\z@\z@
7524 \global\setbox\dfn@ins\box\dfn@ins
7525 \@tempwattrue
7526 \ifdfn@trysingle
7527 \setbox\dfn@boxb\vbox{\unvcopy\@cclv}\@tempdima\@colroom
7528 \advance\@tempdima-\ht\dfn@boxb \advance\@tempdima-\dp\dfn@boxb
7529 \advance\@tempdima-\skip\footins
7530 \advance\@tempdima-\ht\dfn@boxa
7531 \ifdim\@tempdima<\z@\else \@tempswafalse
7532 \global\setbox\footins\vbox{\boxmaxdepth\dfn@fnmaxdp
7533 \footnoterule \unvbox\dfn@boxa}\fi\fi
7534 \if@tempswa
7535 \dfn@split{\dfn@dima}\dfn@boxa\dfn@boxb\dfn@fnmaxdp\footnotesep
7536 \global\setbox\footins\vbox{\hbox{%
7537 \hbox to\DFNcolumnwidth{\vbox to\@tempdima\footnoterule
7538 \unvbox\dfn@boxb\vss}\hss}\hskip\DFNcolumnsep
7539 \hbox to\DFNcolumnwidth{\ifvoid\dfn@boxa\else
7540 \vbox to\@tempdima{
7541 \setbox\@tempboxa\vbox{\footnoterule}
7542 \ifdfn@ruleboth \unvbox\@tempboxa
7543 \else \@tempdima\ht\@tempboxa
7544 \advance\@tempdima\dp\@tempboxa
7545 \vskip\@tempdima
7546 \prevdepth\dp\@tempboxa \fi
7547 \unvbox\dfn@boxa\vss}\fi\hss}}}\fi\fi
7548 \global\dfn@fnht\z@
7549 \ifx\dfn@list\@empty\else
7550 \let\@elt\dfn@elt@adjust \dfn@dima\z@ \dfn@dima\z@
7551 \dfn@list \global\advance\dfn@fnht\dfn@dimb
7552 \let\@elt\relax
7553 \ifdim\dfn@dimb>\z@
7554 \xdef\dfn@list{\@elt{0}{\number\dfn@dimb}\dfn@list}%
7555 \insert\footins{\floatingpenalty\@MM

```



```

7556 \vbox to\dfn@dimb{}}\fi
7557 \ifdim\dfn@fnht>\@tempdima
7558 \@tempdimb\@tempdima \advance\@tempdimb-\dfn@fnht
7559 \global\dfn@fnht\@tempdima
7560 \xdef\dfn@list{\dfn@list\@elt{0}{\number\@tempdimb}}%
7561 \xdef\dfn@afteroutput{\insert\footins{
7562 \floatingpenalty\@MM
7563 \vbox to\number\@tempdimb sp{}}%
7564 \global\let\noexpand\dfn@afteroutput\relax}%
7565 \fi\fi
7566 \fi}%
7567 \let\footnoterule\relax \dfn@latex@makecol
7568 \let\footnoterule\dfn@footnoterule}
7569 \renewcommand{\dfn@makecol}{\if@RTLmain\dfn@RTLmakecol\else\dfn@LTRmakecol\fi}
7570 \newcommand{\RTLdfnmakecol}{\renewcommand{\dfn@makecol}{\dfn@RTLmakecol}}
7571 \newcommand{\LTRdfnmakecol}{\renewcommand{\dfn@makecol}{\dfn@LTRmakecol}}
7572 \DFNalwaysdouble

```

## 7.48 draftwatermark-xetex-bidi.def

```

7573 \ProvidesFile{draftwatermark-xetex-bidi.def}[2010/07/25 v0.2 bidi adaptations for draftwatermark]
7574 \renewcommand\SetWatermarkText[1]{%
7575 \def\scwm@text{\if@RTLmain\beginR\fi#1\if@RTLmain\endR\fi}}

```

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

```

7576 \ProvidesFile{eso-pic-xetex-bidi.def}[2013/04/10 v0.2 bidi adaptations for eso-pic package]
7577 \renewcommand\AtPageLowerLeft[1]{\AtPageUpperLeft{%
7578 \put(\LenToUnit{\if@RTLmain\paperwidth\else0pt\fi},\LenToUnit{-\paperheight}){#1}}
7579
7580 \ESO@isMEMOIR{%
7581 \renewcommand\AtTextUpperLeft[1]{%
7582 \begingroup
7583 \ifodd\c@page
7584 \@tempdima=\spinemargin
7585 \else
7586 \@tempdima=\paperwidth
7587 \advance\@tempdima-\textwidth
7588 \advance\@tempdima-\spinemargin
7589 \fi
7590 \@tempdimb=-\uppermargin
7591 \AtPageUpperLeft{%
7592 \put(\LenToUnit{\if@RTLmain-\fi\@tempdima},\LenToUnit{\@tempdimb}){#1}%
7593 }%
7594 \endgroup
7595 }
7596 }{%
7597 \renewcommand\AtTextUpperLeft[1]{%
7598 \begingroup
7599 \@tempdima=1in\relax
7600 \ifodd\c@page

```



```

7601         \advance\@tempdima\oddsidemargin
7602     \else
7603         \advance\@tempdima\evensidemargin
7604     \fi
7605     \@tempdimb=-1in\relax
7606     \advance\@tempdimb-\topmargin
7607     \advance\@tempdimb-\headheight
7608     \advance\@tempdimb-\headsep
7609     \AtPageUpperLeft{%
7610         \put(\LenToUnit{\if@RTLmain-\fi\@tempdima},\LenToUnit{\@tempdimb}){#1}%
7611     }%
7612 \endgroup
7613 }
7614 }

```

## 7.50 empheq-xetex-bidi.def

```

7615 \ProvidesFile{empheq-xetex-bidi.def}[2011/09/07 v0.1 bidi adaptations for empheq package for
7616 \MHInternalSyntaxOn
7617 \def\EQ_tag_plus_endmark:{%
7618     \iftagsleft@
7619         \gdef\maketag@@@##1{%
7620             \hfuzz\displaywidth
7621             \if@RTL\makebox[\widthof{##1}][r]{%
7622                 \hbox to \displaywidth{\m@th\normalfont##1\hss
7623                     \raisebox{-\dp\EQ_mathdisplay_box
7624                         -\depthof{\EQ_outerbox:}}{
7625                         {\PotEndMark{\hss}}}}
7626             \else\makebox[\widthof{##1}][l]{%
7627                 \hbox to \displaywidth{\m@th\normalfont##1\hss
7628                     \raisebox{-\dp\EQ_mathdisplay_box
7629                         -\depthof{\EQ_outerbox:}}{
7630                         {\PotEndMark{\hss}}}}\fi}%
7631     \else:
7632         \gdef\maketag@@@##1{%
7633             \hbox{\m@th\normalfont##1\llap{\hss\PotEndMark{%
7634                 \settoheight{\@tempdima}{\@nameuse{\InTheoType Symbol}}%
7635                 \MH_addtolength:dn \@tempdima
7636                 {\g_EQ_bottomtag_depth_dim+\mintagvsep}
7637                 \setlength{\@tempdimb}
7638                 {\g_EQ_bottomrow_depth_dim+\depthof{\EQ_outerbox:}}
7639                 +\depthof{\EQ_innerbox:}}}}
7640             \if_dim:w \@tempdima>\@tempdimb
7641                 \MH_setlength:dn \@tempdima{-\dp\EQ_mathdisplay_box
7642                     -\@tempdima+\g_EQ_bottomrow_depth_dim}
7643                 \addtolength{\@tempdima}{\depthof{\EQ_innerbox:}}}%
7644             \def\EQ_next:{\raisebox{\@tempdima}}%
7645         \else:
7646             \def\EQ_next:{
7647                 \raisebox{-\dp\EQ_mathdisplay_box

```



```

7648             -\depthof{\EQ_outerbox:{}}}%
7649         \fi:\EQ_next:{}}}%
7650     \fi:}
7651 \def\EQ_post_process:{%
7652     \EQ_initialize:
7653     \EQ_begin_equation:
7654     \MH_if_boolean:nT {outer_mult}{
7655         \setkeys{\MT_options_name:}{
7656             firstline-afterskip=0pt,
7657             lastline-preskip=0pt,
7658             multlined-width=0pt,
7659         }
7660         \ifodd \l_EQ_alignmentmode_int
7661             \setkeys{\MT_options_name:}{multlined-pos=b}
7662         \else:
7663             \setkeys{\MT_options_name:}{multlined-pos=t}
7664         \fi:
7665         \g@addto@macro\EQ_complete_mathdisplay:{
7666             \begin{MTmultlined}\relax}
7667     }
7668     \g@addto@macro\EQ_complete_mathdisplay:\EQ_mathbody:
7669     \MH_if_boolean:nT {outer_mult}{
7670         \g@addto@macro\EQ_complete_mathdisplay:{\end{MTmultlined}}
7671     }
7672     \EQ_end_equation:
7673     \edef\EQ_hyperref_link_fint{\number\Hy@linkcounter}
7674     \savecounters@
7675     \EQ_typeset_tags:
7676     \edef\l_EQ_equation_fint{\number\c@equation}
7677     \restorecounters@
7678     \Hy@linkcounter=\EQ_hyperref_link_fint
7679     \settowidth\l_EQ_totalwidth_dim{%
7680         $\EQ_left_side:\EQ_innerbox:{}\EQ_right_side:$}%
7681     \MH_if_boolean:nTF {outer_mult}
7682     { \def\EQ_next:{_mult} }
7683     { \def\EQ_next:{} }
7684     \@nameuse{EQ_modify_linewidth_
7685         \romannumeral\l_EQ_equationtype_int\EQ_next: :}%
7686     \EQ_typeset_display:
7687     \@nameuse{find_displaywidth_
7688         \romannumeral\l_EQ_equationtype_int\EQ_next: :}
7689     \MH_addtolength:dn
7690     \l_EQ_totalwidth_dim{\l_EQ_displaywidth_dim}
7691     \savebox\EQ_mathdisplay_box[\l_EQ_totalwidth_dim][c]{%
7692         $\EQ_left_side:
7693         \EQ_innerbox:{%
7694             \if_case:w \l_EQ_alignmentmode_int\or:
7695                 \makebox[\l_EQ_displaywidth_dim][c]
7696                 {\usebox{\EQ_mathdisplay_box}}}%
7697         \or:

```





```

7698     \makebox[\l_EQ_displaywidth_dim][c]
7699     {\usebox{\EQ_mathdisplay_box}}%
7700 \or:
7701     \if@RTL\makebox[\l_EQ_displaywidth_dim][r]{%
7702     \if_num:w \l_EQ_equationtype_int=5 \else:
7703     \if_num:w \l_EQ_equationtype_int=6 \else:
7704     \kern-\@mathmargin
7705     \fi:
7706     \fi:
7707     \usebox{\EQ_mathdisplay_box}}%
7708 \else\makebox[\l_EQ_displaywidth_dim][l]{%
7709 \if_num:w \l_EQ_equationtype_int=5 \else:
7710 \if_num:w \l_EQ_equationtype_int=6 \else:
7711 \kern-\@mathmargin
7712 \fi:
7713 \fi:
7714 \usebox{\EQ_mathdisplay_box}}\fi%
7715 \or:
7716 \if@RTL\makebox[\l_EQ_displaywidth_dim][r]{%
7717 \if_num:w \l_EQ_equationtype_int=5 \else:
7718 \if_num:w \l_EQ_equationtype_int=6 \else:
7719 \kern-\@mathmargin
7720 \fi:
7721 \fi:
7722 \usebox{\EQ_mathdisplay_box}}
7723 \else\makebox[\l_EQ_displaywidth_dim][l]{%
7724 \if_num:w \l_EQ_equationtype_int=5 \else:
7725 \if_num:w \l_EQ_equationtype_int=6 \else:
7726 \kern-\@mathmargin
7727 \fi:
7728 \fi:
7729 \usebox{\EQ_mathdisplay_box}}\fi%
7730 \fi:}%
7731 \EQ_right_side:$}%
7732 \begin{AmSequation*}
7733 \@nameuse{EQ_place_display_
7734 \romannumeral\l_EQ_equationtype_int\EQ_next: :}
7735 \if_dim:w \g_EQ_widesttag_dim>\z@
7736 \MH_set_boolean_T:n {show_manual_tags}
7737 \if_case:w \l_EQ_alignmentmode_int
7738 \or: \if@RTL\EQ_place_tag:N l\else\EQ_place_tag:N r\fi %\#1
7739 \or: \if@RTL\EQ_place_tag:N r\else\EQ_place_tag:N l\fi %\#2
7740 \or: \if@RTL\EQ_place_tag:N l\else\EQ_place_tag:N r\fi %\#3
7741 \or: \if@RTL\EQ_place_tag:N r\else\EQ_place_tag:N l\fi %\#4
7742 \fi:
7743 \fi:
7744 \end{AmSequation*}
7745 \global\c@equation=\l_EQ_equation_fint\relax
7746 }
7747 \AtBeginDocument{%

```



```

7748 \ifpackageloaded{fancybox}{%
7749   \ifpackageloaded{color}{\definecolor{shadowcolor}{rgb}{0,0,0}}%
7750   {\renewcommand*\textcolor[2]{\normalcolor{#2}}}%
7751   \renewcommand*\shadowbox{%
7752     \ifstar{\MH_set_boolean_T:n {shadowbox_star}
7753       \VerbBox\EQ_shadowbox:n}
7754     {\MH_set_boolean_F:n {shadowbox_star}
7755       \VerbBox\EQ_shadowbox:n}}
7756   \def\EQ_shadowbox:n #1{%
7757     \sbox{z@}{\fbox{#1}}%
7758     \MH_if_boolean:nTF {shadowbox_star}{
7759       \MH_setlength:dn \@tempdima{z@}%
7760     }{
7761       \MH_setlength:dn \@tempdima{\dp z@+\shadowsize}%
7762     }
7763     \raisebox{\@tempdima}{%
7764       \if@RTL\makebox[z@][r]{%
7765         \kern\shadowsize \textcolor{shadowcolor}{%
7766           \rule[-\dp z@-\shadowsize]{\wd z@}{\shadowsize}}%
7767       }%
7768       \else\makebox[z@][l]{%
7769         \kern\shadowsize \textcolor{shadowcolor}{%
7770           \rule[-\dp z@-\shadowsize]{\wd z@}{\shadowsize}}%
7771       }%
7772       \usebox{z@}\textcolor{shadowcolor}{%
7773         \rule[-\dp z@-\shadowsize]{\shadowsize}{\ht z@+\dp z@}}}%
7774     }%
7775   }
7776 \MHInternalSyntaxOff

```

## 7.51 extarticle-xetex-bidi.def

```

7777 \ProvidesFile{extarticle-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for extarticle clas
7778 \renewcommand*\l@section[2]{%
7779   \ifnum \c@tocdepth > z@
7780     \addpenalty\@secpenalty
7781     \addvspace{1.0em \@plus\p@}%
7782     \setlength\@tempdima{1.5em}%
7783     \begingroup
7784       \parindent z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
7785       \parfillskip -\@pnumwidth
7786       \leavevmode \bfseries
7787       \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
7788       \hskip -\if@RTL\rightskip\else\leftskip\fi
7789       #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
7790     \endgroup
7791   \fi}
7792 \renewcommand*\l@part[2]{%
7793   \ifnum \c@tocdepth > -2\relax
7794     \addpenalty\@secpenalty

```



```

7795 \addvspace{2.25em \@plus\p@}%
7796 \begingroup
7797   \setlength\@tempdima{3em}%
7798   \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
7799   \parfillskip -\@pnumwidth
7800   {\leavevmode
7801     \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
7802   \nobreak
7803 \endgroup
7804 \fi}
7805 \def\@part[#1]#2{%
7806   \ifnum \c@secnumdepth >\m@ne
7807     \refstepcounter{part}%
7808     \addcontentsline{toc}{part}{\thepart\hspace{1em}#1}%
7809   \else
7810     \addcontentsline{toc}{part}{#1}%
7811   \fi
7812   {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
7813     \interlinepenalty \@M
7814     \normalfont
7815     \ifnum \c@secnumdepth >\m@ne
7816       \Large\bfseries \partname~\thepart
7817     \par\nobreak
7818     \fi
7819     \huge \bfseries #2%
7820     \markboth{}{}\par}%
7821   \nobreak
7822   \vskip 3ex
7823   \@afterheading}
7824 \def\@spart#1{%
7825   {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
7826     \interlinepenalty \@M
7827     \normalfont
7828     \huge \bfseries #1\par}%
7829   \nobreak
7830   \vskip 3ex
7831   \@afterheading}
7832 \renewenvironment{thebibliography}[1]
7833   {\section*{\refname
7834     \@mkboth{\MakeUppercase\refname}{\MakeUppercase\refname}}%
7835     \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
7836     \bidi@thebibliography@font@hook%
7837     \list{\@biblabel{\@arabic\c@enumiv}}%
7838     {\settowidth\labelwidth{\@biblabel{#1}}%
7839       \leftmargin\labelwidth
7840       \advance\leftmargin\labelsep
7841       \@openbib@code
7842       \usecounter{enumiv}%
7843       \let\p@enumiv\@empty
7844       \renewcommand\theenumiv{\@arabic\c@enumiv}}%

```



```

7845     \sloppy\clubpenalty4000\widowpenalty4000%
7846     \sfcode`.\@m}
7847     {\def\@noitemerr
7848       {\@latex@warning{Empty `thebibliography' environment}}}%
7849     \endlist}
7850 \renewcommand\left@footnoterule{%
7851   \kern-3\p@
7852   \hrule\@width.4\columnwidth
7853   \kern2.6\p@}
7854 \renewcommand\right@footnoterule{%
7855   \kern-3\p@
7856   \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
7857   \kern2.6\p@}
7858   \if@titlepage
7859     \renewcommand\maketitle{\begin{titlepage}%
7860       \let\footnotesize\small
7861       \let\right@footnoterule\relax
7862       \let\left@footnoterule\relax
7863       \let\textwidth\footnoterule\relax
7864       \let \footnote \thanks
7865       \null\vfil
7866       \vskip 60\p@
7867       \begin{center}%
7868         {\LARGE \@title \par}%
7869         \vskip 3em%
7870         {\large
7871           \lineskip .75em%
7872           \begin{tabular}[t]{c}%
7873             \@author
7874             \end{tabular}\par}%
7875           \vskip 1.5em%
7876           {\large \@date \par}%           % Set date in \large size.
7877       \end{center}\par
7878       \@thanks
7879       \vfil\null
7880     \end{titlepage}%
7881     \setcounter{footnote}{0}%
7882     \global\let\thanks\relax
7883     \global\let\maketitle\relax
7884     \global\let\@thanks\@empty
7885     \global\let\@author\@empty
7886     \global\let\@date\@empty
7887     \global\let\@title\@empty
7888     \global\let\title\relax
7889     \global\let\author\relax
7890     \global\let\date\relax
7891     \global\let\and\relax
7892   }
7893 \else
7894 \renewcommand\maketitle{\par

```



```

7895 \beginngroup
7896 \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
7897 \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
7898 \long\def\@makefntext##1{\parindent 1em\noindent
7899     \hb@xt@1.8em{%
7900         \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
7901 \if@twocolumn
7902     \ifnum \col@number=\@ne
7903         \@maketitle
7904     \else
7905         \twocolumn[\@maketitle]%
7906     \fi
7907 \else
7908     \newpage
7909     \global\@topnum\z@    % Prevents figures from going at top of page.
7910     \@maketitle
7911 \fi
7912 \thispagestyle{plain}\@thanks
7913 \endgroup
7914 \setcounter{footnote}{0}%
7915 \global\let\thanks\relax
7916 \global\let\maketitle\relax
7917 \global\let\@maketitle\relax
7918 \global\let\@thanks\@empty
7919 \global\let\@author\@empty
7920 \global\let\@date\@empty
7921 \global\let\@title\@empty
7922 \global\let\title\relax
7923 \global\let\author\relax
7924 \global\let\date\relax
7925 \global\let\and\relax
7926 }
7927 \def\@maketitle{%
7928     \newpage
7929     \null
7930     \vskip 2em%
7931     \begin{center}%
7932         \let \footnote \thanks
7933         {\LARGE \@title \par}%
7934         \vskip 1.5em%
7935         {\large
7936             \lineskip .5em%
7937             \begin{tabular}[t]{c}%
7938                 \@author
7939             \end{tabular}\par}%
7940         \vskip 1em%
7941         {\large \@date}%
7942     \end{center}%
7943     \par
7944     \vskip 1.5em}

```



```

7945 \fi
7946 \renewcommand\thesubsection {\thesection\@SepMark\@arabic\c@subsection}
7947 \renewcommand\thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
7948 \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
7949 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}%%

```

## 7.52 extbook-xetex-bidi.def

```

7950 \ProvidesFile{extbook-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for extbook class for
7951 \if@titlepage
7952 \renewcommand\maketitle{\begin{titlepage}%
7953 \let\footnotesize\small
7954 \let\right@footnoterule\relax
7955 \let\left@footnoterule\relax
7956 \let\textwidth\footnoterule\relax
7957 \let \footnote \thanks
7958 \let \LTRfootnote \LTRthanks
7959 \let \RTLfootnote \RTLthanks
7960 \null\vfil
7961 \vskip 60\p@
7962 \begin{center}%
7963 {\LARGE \@title \par}%
7964 \vskip 3em%
7965 {\large
7966 \lineskip .75em%
7967 \begin{tabular}[t]{c}%
7968 \@author
7969 \end{tabular}}\par}%
7970 \vskip 1.5em%
7971 {\large \@date \par}% % Set date in \large size.
7972 \end{center}\par
7973 \@thanks
7974 \vfil\null
7975 \end{titlepage}%
7976 \setcounter{footnote}{0}%
7977 \global\let\thanks\relax
7978 \global\let\LTRthanks\relax
7979 \global\let\RTLthanks\relax
7980 \global\let\maketitle\relax
7981 \global\let\@thanks\@empty
7982 \global\let\@author\@empty
7983 \global\let\@date\@empty
7984 \global\let\@title\@empty
7985 \global\let\title\relax
7986 \global\let\author\relax
7987 \global\let\date\relax
7988 \global\let\and\relax
7989 }
7990 \else
7991 \renewcommand\maketitle{\par

```



```

7992 \begin{group
7993 \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
7994 \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
7995 \long\def\@makefntext##1{\parindent 1em\noindent
7996     \hb@xt@1.8em{%
7997         \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
7998 \if@twocolumn
7999     \ifnum \col@number=\@ne
8000         \@maketitle
8001     \else
8002         \twocolumn[\@maketitle]%
8003     \fi
8004 \else
8005     \newpage
8006     \global\@topnum\z@ % Prevents figures from going at top of page.
8007     \@maketitle
8008     \fi
8009     \thispagestyle{plain}\@thanks
8010 \end{group}
8011 \setcounter{footnote}{0}%
8012 \global\let\thanks\relax
8013 \global\let\LTRthanks\relax
8014 \global\let\RTLthanks\relax
8015 \global\let\maketitle\relax
8016 \global\let\@maketitle\relax
8017 \global\let\@thanks\@empty
8018 \global\let\@author\@empty
8019 \global\let\@date\@empty
8020 \global\let\@title\@empty
8021 \global\let\title\relax
8022 \global\let\author\relax
8023 \global\let\date\relax
8024 \global\let\and\relax
8025 }
8026 \def\@maketitle{%
8027     \newpage
8028     \null
8029     \vskip 2em%
8030     \begin{center}%
8031         \let \footnote \thanks
8032         \let \LTRfootnote \LTRthanks
8033         \let \RTLfootnote \RTLthanks
8034         {\LARGE \@title \par}%
8035         \vskip 1.5em%
8036         {\large
8037             \lineskip .5em%
8038             \begin{tabular}[t]{c}%
8039                 \@author
8040             \end{tabular}\par}%
8041         \vskip 1em%

```



```

8042     {\large \@date}%
8043     \end{center}%
8044     \par
8045     \vskip 1.5em}
8046 \fi
8047 \renewcommand*\l@part[2]{%
8048     \ifnum \c@tocdepth >-2\relax
8049         \addpenalty{-\@highpenalty}%
8050         \addvspace{2.25em \@plus\p@}%
8051         \begingroup
8052             \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
8053             \parfillskip -\@pnumwidth
8054             {\leavevmode
8055                 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
8056                 \nobreak
8057                 \global\@nobreaktrue
8058                 \everypar{\global\@nobreakfalse\everypar{}}%
8059             \endgroup
8060     \fi}
8061 \renewcommand\theequation
8062     {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
8063 \renewcommand \thefigure
8064     {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
8065 \renewcommand \thetable
8066     {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
8067 \renewcommand \thechapter {\@arabic\c@chapter}
8068 \renewcommand \thesection {\thechapter\@SepMark\@arabic\c@section}
8069 \renewcommand\thesubsection {\thesection\@SepMark\@arabic\c@subsection}
8070 \renewcommand\thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
8071 \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
8072 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
8073 \def\@makechapterhead#1{%
8074     \vspace*{50\p@}%
8075     {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont
8076         \ifnum \c@secnumdepth >\m@ne
8077             \if@mainmatter
8078                 \huge\bfseries \@chapapp\space \thechapter
8079                 \par\nobreak
8080                 \vskip 20\p@
8081             \fi
8082         \fi
8083         \interlinepenalty\@M
8084         \Huge \bfseries #1\par\nobreak
8085         \vskip 40\p@
8086     }}
8087
8088 \def\@makeschapterhead#1{%
8089     \vspace*{50\p@}%
8090     {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
8091         \normalfont

```





```

8092 \interlinepenalty\@M
8093 \Huge \bfseries #1\par\nobreak
8094 \vskip 40\p@
8095 }
8096 \renewcommand\backmatter{%
8097 \if@openright
8098 \cleardoublepage
8099 \else
8100 \clearpage
8101 \fi
8102 \@mainmatterfalse}
8103 \renewenvironment{thebibliography}[1]
8104 {\chapter*{\bibname
8105 \mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}}%
8106 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
8107 \bidi@thebibliography@font@hook%
8108 \list{\@biblabel{\@arabic\c@enumiv}}%
8109 {\settowidth\labelwidth{\@biblabel{#1}}%
8110 \leftmargin\labelwidth
8111 \advance\leftmargin\labelsep
8112 \@openbib@code
8113 \usecounter{enumiv}%
8114 \let\p@enumiv\@empty
8115 \renewcommand\theenumiv{\@arabic\c@enumiv}}%
8116 \sloppy
8117 \clubpenalty4000
8118 \@clubpenalty \clubpenalty
8119 \widowpenalty4000%
8120 \sfcode\.\@m}
8121 {\def\@noitemerr
8122 {\@latex@warning{Empty `thebibliography' environment}}%
8123 \endlist}

```

## 7.53 extletter-xetex-bidi.def

```

8124 \ProvidesFile{extletter-xetex-bidi.def}[2015/11/14 v0.2 bidi adaptations for extletter class
8125 \renewcommand*\opening[1]{\ifx\@empty\fromaddress
8126 \thispagestyle{firstpage}%
8127 {\if@RTL\raggedright\else\raggedleft\fi\@date\par}%
8128 \else % home address
8129 \thispagestyle{empty}%
8130 {\if@RTL\raggedright\begin{tabular}{r@{}}\else\raggedleft\begin{tabular}{l@{}}\fi\ignores
8131 \fromaddress \*[2\parskip]%
8132 \@date \end{tabular}\par}%
8133 \fi
8134 \vspace{2\parskip}%
8135 {\if@RTL\raggedleft\else\raggedright\fi \toname \ \ toaddress \par}%
8136 \vspace{2\parskip}%
8137 #1\par\nobreak}
8138 \renewcommand{\closing}[1]{\par\nobreak\vspace{\parskip}%

```



```

8139 \stopbreaks
8140 \noindent
8141 \ifx\@empty\fromaddress\else
8142 \hspace*{\longindentation}\fi
8143 \parbox{\indentedwidth}{\ifRTL\raggedleft\else\raggedright\fi
8144 \ignorespaces #1\[\6\medskipamount]%
8145 \ifx\@empty\fromsig
8146 \fromname
8147 \else \fromsig \fi\strut}%
8148 \par}
8149 \renewcommand\left@footnoterule{%
8150 \kern-\p@
8151 \hrule \@width .4\columnwidth
8152 \kern .6\p@}
8153 \renewcommand\right@footnoterule{%
8154 \kern-\p@
8155 \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
8156 \kern .6\p@}

```

## 7.54 extrafootnotefeatures-xetex-bidi.def

```

8157 \ProvidesFile{extrafootnotefeatures-xetex-bidi.def}[2017/05/19 v1.1 bidi extra footnote featur
8158 \newcommand*{\@bidi@before@Hy@hyperfootnotes}{%
8159 \if@bidi@csundef{ifHy@hyperfootnotes}{}{-%
8160 \if@bidi@csundef{HLTR@@LTRfootnotetext}{}{-%
8161 \ifHy@hyperfootnotes
8162 \let\@@H@@footnotetext\@footnotetext
8163 \let\@@HLTR@@LTRfootnotetext\@LTRfootnotetext
8164 \let\@@HRTL@@RTLfootnotetext\@RTLfootnotetext
8165 \let\@@H@@mpfootnotetext\@mpfootnotetext
8166 \let\@@HLTR@@mpLTRfootnotetext\@mpLTRfootnotetext
8167 \let\@@HRTL@@mpRTLfootnotetext\@mpRTLfootnotetext
8168 \fi
8169 }%
8170 }%
8171 }
8172 \newcommand*{\@bidi@after@Hy@hyperfootnotes}{%
8173 \if@bidi@csundef{ifHy@hyperfootnotes}{}{-%
8174 \if@bidi@csundef{HLTR@@LTRfootnotetext}{}{-%
8175 \ifHy@hyperfootnotes
8176 \let\H@@footnotetext\@footnotetext
8177 \let\@footnotetext\@@H@@footnotetext
8178 \let\HLTR@@LTRfootnotetext\@LTRfootnotetext
8179 \let\@LTRfootnotetext\@@HLTR@@LTRfootnotetext
8180 \let\HRTL@@RTLfootnotetext\@RTLfootnotetext
8181 \let\@RTLfootnotetext\@@HRTL@@RTLfootnotetext
8182 \let\H@@mpfootnotetext\@mpfootnotetext
8183 \let\@mpfootnotetext\@@H@@mpfootnotetext
8184 \let\HLTR@@mpLTRfootnotetext\@mpLTRfootnotetext
8185 \let\@mpLTRfootnotetext\@@HLTR@@mpLTRfootnotetext

```



```

8186 \let\HRTL@mpRTLfootnotetext\mpRTLfootnotetext
8187 \let@mpRTLfootnotetext\@HRTL@mpRTLfootnotetext
8188 \fi
8189 }%
8190 }%
8191 }
8192 \let\autofooterule\relax
8193 \let\rightfootnoterule\relax
8194 \let\leftfootnoterule\relax
8195 \let\textwidthfootnoterule\relax
8196 \let\LRfootnoterule\relax
8197 \def\footnoterule{\kern-3\p@
8198 \hrule \width \columnwidth \kern 2.6\p@}
8199 \bidi@ensure@newcommand{\setRTLparagraphfootnotes}{\@parafootRTLtrue}
8200 \bidi@ensure@newcommand{\setLTRparagraphfootnotes}{\@parafootRTLfalse}
8201 \renewcommand{\@footnotetext}[1]{%
8202 \insert\footins{%
8203 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
8204 \def\baselinestretch{\m@m@footnote@spacing}%
8205 \reset@font
8206 \foottextfont
8207 \@preamfntext
8208 \hsize\columnwidth
8209 \protected@edef\@currentlabel{%
8210 \csname p@footnote\endcsname\@thefnmark}%
8211 \color@begingroup
8212 \@makefntext{%
8213 \rule\z@\footnotesep\ignorespaces{\foottextfont #1}%
8214 \@finalstrut\strutbox}%
8215 \color@endgroup}%
8216 \m@m@mmf@prepare}
8217 \renewcommand{\@RTLfootnotetext}[1]{%
8218 \insert\footins{%
8219 \@RTLtrue%
8220 \def\baselinestretch{\m@m@footnote@spacing}%
8221 \reset@font
8222 \RTLfoottextfont
8223 \@preamfntext
8224 \hsize\columnwidth
8225 \protected@edef\@currentlabel{%
8226 \csname p@footnote\endcsname\@thefnmark}%
8227 \color@begingroup
8228 \@makefntext{%
8229 \rule\z@\footnotesep\ignorespaces{\RTLfoottextfont #1}%
8230 \@finalstrut\strutbox}%
8231 \color@endgroup}%
8232 \m@m@mmf@prepare}
8233 \renewcommand{\@LTRfootnotetext}[1]{%
8234 \insert\footins{%
8235 \@RTLfalse%

```



```

8236 \def\baselinestretch{\m@m@footnote@spacing}%
8237 \reset@font
8238 \LTRfoottextfont
8239 \@preamfntext
8240 \hsize\columnwidth
8241 \protected@edef\@currentlabel{%
8242   \csname p@footnote\endcsname\@thefnmark}%
8243 \color@begingroup
8244 \makefntext{%
8245   \rule\z@\footnotesep\ignorespaces{\LTRfoottextfont #1}%
8246   \@finalstrut\strutbox}%
8247 \color@endgroup}%
8248 \m@mmf@prepare}
8249 \renewcommand{\@mpfootnotetext}[1]{%
8250 \global\setbox\@mpfootins\vbox{\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
8251 \unvbox\@mpfootins
8252 \def\baselinestretch{\m@m@footnote@spacing}%
8253 \foottextfont \hsize\columnwidth \@parboxrestore
8254 \protected@edef\@currentlabel{%
8255   \csname p@mpfootnote\endcsname\@thefnmark}%
8256 \color@begingroup
8257 \reset@font%
8258 \makefntext{%
8259   \rule\z@\footnotesep\ignorespaces{\foottextfont #1}%
8260   \@finalstrut\strutbox}%
8261 \color@endgroup}}
8262 \renewcommand{\@mpLTRfootnotetext}[1]{%
8263 \global\setbox\@mpfootins\vbox{\@RTLfalse%
8264 \unvbox\@mpfootins
8265 \def\baselinestretch{\m@m@footnote@spacing}%
8266 \LTRfoottextfont \hsize\columnwidth \@parboxrestore
8267 \protected@edef\@currentlabel{%
8268   \csname p@mpfootnote\endcsname\@thefnmark}%
8269 \color@begingroup
8270 \reset@font%
8271 \makefntext{%
8272   \rule\z@\footnotesep\ignorespaces{\LTRfoottextfont #1}%
8273   \@finalstrut\strutbox}%
8274 \color@endgroup}}
8275 \renewcommand{\@mpRTLfootnotetext}[1]{%
8276 \global\setbox\@mpfootins\vbox{\@RTLtrue%
8277 \unvbox\@mpfootins
8278 \def\baselinestretch{\m@m@footnote@spacing}%
8279 \RTLfoottextfont \hsize\columnwidth \@parboxrestore
8280 \protected@edef\@currentlabel{%
8281   \csname p@mpfootnote\endcsname\@thefnmark}%
8282 \color@begingroup
8283 \reset@font%
8284 \makefntext{%
8285   \rule\z@\footnotesep\ignorespaces{\RTLfoottextfont #1}%

```



```

8286      \@finalstrut\strutbox}%
8287      \color@endgroup}}
8288      \let\m@mold@footnotetext\@footnotetext
8289      \let\m@mold@LTRfootnotetext\@LTRfootnotetext
8290      \let\m@mold@RTLfootnotetext\@RTLfootnotetext
8291      \let\m@mold@mpfootnotetext\@mpfootnotetext
8292      \let\m@mold@mpLTRfootnotetext\@mpLTRfootnotetext
8293      \let\m@mold@mpRTLfootnotetext\@mpRTLfootnotetext
8294      \bidi@ensure@newcommand{\normalfootnotes}{%
8295        \@bidi@before@Hy@hyperfootnotes
8296        \let\@footnotetext\m@mold@footnotetext
8297        \let\@LTRfootnotetext\m@mold@LTRfootnotetext
8298        \let\@RTLfootnotetext\m@mold@RTLfootnotetext
8299        \let\@mpfootnotetext\m@mold@mpfootnotetext
8300        \let\@mpLTRfootnotetext\m@mold@mpLTRfootnotetext
8301        \let\@mpRTLfootnotetext\m@mold@mpRTLfootnotetext
8302        \@bidi@after@Hy@hyperfootnotes}
8303      \ifclassloaded{memoir}{\let\plainfootnotes\normalfootnotes}{}}
8304      \bidi@ensure@newcommand*{\RTLcolumnfootnotes}{\@RTLcolumnfootnotestrue}
8305      \bidi@ensure@newcommand*{\LTRcolumnfootnotes}{\@RTLcolumnfootnotestrue}
8306      \bidi@ensure@newcommand*{\setSingleSpace}[1]{%
8307        \def\m@m@singlespace{#1}%
8308        \def\m@m@footnote@spacing{#1}%
8309        \def\m@m@float@spacing{#1} %
8310      }
8311      \setSingleSpace{1}
8312      \bidi@ensure@newcommand*{\multiplefootnotemarker}{3sp}
8313      \bidi@ensure@newcommand*{\m@m@mmf@prepare}{%
8314        \kern-\multiplefootnotemarker
8315        \kern\multiplefootnotemarker\relax}
8316      \bidi@ensure@newlength{\footmarkwidth}
8317      \bidi@ensure@newlength{\footmarksep}
8318      \bidi@ensure@newlength{\footparindent}
8319      \bidi@ensure@newcommand*{\footmarkstyle}[1]{\def\footscript##1{#1}}
8320      \bidi@ensure@newcommand*{\LTRfootmarkstyle}[1]{\def\LTRfootscript##1{#1}}
8321      \bidi@ensure@newcommand*{\RTLfootmarkstyle}[1]{\def\RTLfootscript##1{#1}}
8322      \bidi@ensure@newcommand{\footfootmark}{%
8323        \ifdim\footmarkwidth < \z@
8324          \llap{\hb@xt@ -\footmarkwidth{%
8325            \hss\normalfont\footscript{\@thefnmark}}}%
8326          \hspace*{-\footmarkwidth}}%
8327        \else
8328          \ifdim\footmarkwidth = \z@
8329            {\normalfont\footscript{\@thefnmark}}%
8330          \else
8331            \hb@xt@\footmarkwidth{\hss\normalfont\footscript{\@thefnmark}}%
8332          \fi
8333        \fi}
8334      \bidi@ensure@newcommand{\LTRfootfootmark}{%
8335        \ifdim\footmarkwidth < \z@

```



```

8336 \llap{\hb@xt@ -\footmarkwidth{%
8337 \hss\normalfont\LTRfootscript{\@thefnmark}}%
8338 \hspace*{-\footmarkwidth}}%
8339 \else
8340 \ifdim\footmarkwidth = \z@
8341 {\normalfont\LTRfootscript{\@thefnmark}}%
8342 \else
8343 \hb@xt@\footmarkwidth{\hss\normalfont\LTRfootscript{\@thefnmark}}%
8344 \fi
8345 \fi}
8346 \bidi@ensure@newcommand{\RTLfootfootmark}{%
8347 \ifdim\footmarkwidth < \z@
8348 \llap{\hb@xt@ -\footmarkwidth{%
8349 \hss\normalfont\RTLfootscript{\@thefnmark}}%
8350 \hspace*{-\footmarkwidth}}%
8351 \else
8352 \ifdim\footmarkwidth = \z@
8353 {\normalfont\RTLfootscript{\@thefnmark}}%
8354 \else
8355 \hb@xt@\footmarkwidth{\hss\normalfont\RTLfootscript{\@thefnmark}}%
8356 \fi
8357 \fi}
8358 \footmarkstyle{\textsuperscript{#1}}
8359 \LTRfootmarkstyle{\textsuperscript{#1}}
8360 \RTLfootmarkstyle{\textsuperscript{#1}}
8361 \setlength{\footmarkwidth}{1em plus.4em minus.4em}
8362 \setlength{\footparindent}{1em}
8363 \bidi@ensure@newcommand{\m@mmdoextrafeet}{\extrafeetins}
8364 \bidi@ensure@newcommand*{\extrafeetins}{%
8365 \setbox\@outputbox \vbox{%
8366 \boxmaxdepth \@maxdepth
8367 \unvbox\@outputbox
8368 \ifvoid\footinsv@r\else\@footstartv@r\@footgroupv@r\fi
8369 \extrafeetinshook}}
8370 \bidi@ensure@newcommand{\extrafeetinshook}{%
8371 \bidi@ensure@newcommand{\foottextfont}{\footnotesize}
8372 \bidi@ensure@newcommand{\LTRfoottextfont}{\footnotesize}
8373 \bidi@ensure@newcommand{\RTLfoottextfont}{\footnotesize}
8374 \bidi@ensure@newlength{\footinsdim}
8375 \setlength{\footinsdim}{8in} % standard for \dimen\footins
8376 \bidi@ensure@newcommand{\@preamfntext}{%
8377 \interlinepenalty\interfootnotelinepenalty
8378 \floatingpenalty \@MM
8379 \splittopskip=\footnotesep
8380 \splitmaxdepth=\dp\strutbox
8381 \@parboxrestore}
8382 \bidi@ensure@newcommand{\m@mmdoextrafeetmini}{%
8383 \extrafeetminihook}
8384 \bidi@ensure@newcommand{\extrafeetendmini}{%
8385 \ifvoid\@mpfootinsv@r\else

```



```

8386 \vskip\skip\@mpfootins
8387 \normalcolor\footnoterule\mp@footgroupv@r
8388 \fi
8389 \extrafeetendminihook}
8390 \bidi@ensure@newcommand{\extrafeetendminihook}{}
8391 \bidi@ensure@newcommand{\m@mdoextrafeetendmini}{\extrafeetendmini}
8392 \def\endminipage{%
8393 \par
8394 \unskip
8395 \ifvoid\@mpfootins\else
8396 \vskip\skip\@mpfootins
8397 \normalcolor
8398 \footnoterule
8399 \unvbox\@mpfootins
8400 \fi
8401 \m@mdoextrafeetendmini
8402 \@minipagefalse
8403 \color@endgroup
8404 \egroup
8405 \expandafter\@iiparbox\@mpargs{\unvbox\@tempboxa}}
8406 \bidi@ensure@newcommand{\m@make@footstart}[1]{%
8407 \@namedef{@footstart#1}{%
8408 \bidi@mopfn@bottom
8409 \vskip\bigskipamount
8410 \leftskip=\z@
8411 \rightskip=\z@
8412 \footnoterule}}
8413 \newinsert\footinsv@r
8414 \skip\footinsv@r\bigskipamount
8415 \count\footinsv@r=1000 % no magnification
8416 \dimen\footinsv@r=\footinsdim
8417 \m@make@footstart{v@r}
8418 \bidi@ensure@newcommand{\@footgroupv@r}{}
8419 \newinsert\@mpfootinsv@r
8420 \bidi@ensure@newcommand{\mp@footgroupv@r}{}
8421 \newcount\m@m@k \newdimen\m@m@h
8422 \ifpackageloaded{multicol}{%
8423 \bidi@ensure@newcommand*{\m@mrigidbalance}[3]{\setbox0=\box#1 \m@m@k=#2 \m@m@h=#3
8424 \hsize\textwidth
8425 @@line{\if@RTLcolumnfootnotes\beginR\fi\splittopskip=\m@m@h \vbadness=\@M \hfilneg
8426 \valign{##\vfill\cr\m@mdosplits}\if@RTLcolumnfootnotes\endR\fi}}
8427 }{%
8428 \bidi@ensure@newcommand*{\m@mrigidbalance}[3]{\setbox0=\box#1 \m@m@k=#2 \m@m@h=#3
8429 @@line{\if@RTLcolumnfootnotes\beginR\fi\splittopskip=\m@m@h \vbadness=\@M \hfilneg
8430 \valign{##\vfill\cr\m@mdosplits}\if@RTLcolumnfootnotes\endR\fi}}
8431 \bidi@ensure@newcommand*{\m@mdosplits}{\ifnum\m@m@k>0 \noalign{\hfil}\m@msplitoff
8432 \global\advance\m@m@k-1\cr\m@mdosplits\fi}
8433 \bidi@ensure@newcommand*{\m@msplitoff}{\dimen0=\ht0
8434 \divide\dimen0 by\m@m@k \advance\dimen0 by\m@m@h
8435 \setbox2 \vsplit0 to \dimen0

```



```

8436 \unvbox2 }
8437 \bidi@ensure@newcommand{\twocolumnfootnotes}{%
8438 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
8439 \@bidi@before@Hy@hyperfootnotes
8440 \let\@footnotetext\@twocolfootnotetext
8441 \let\@LTRfootnotetext\@twocolLTRfootnotetext
8442 \let\@RTLfootnotetext\@twocolRTLfootnotetext
8443 \dimen\footinsv@r=2\footinsdim
8444 \count\footinsv@r=500\relax
8445 \m@make@twocol@footgroup{v@r}%
8446 \let\@footgroupv@r\@twocol@footgroupv@r
8447 \let\@mpfootnotetext\@mptwocolfootnotetext
8448 \let\@mpLTRfootnotetext\@mptwocolLTRfootnotetext
8449 \let\@mpRTLfootnotetext\@mptwocolRTLfootnotetext
8450 \@bidi@after@Hy@hyperfootnotes
8451 \m@make@mptwocol@footgroup{v@r}%
8452 \let\mp@footgroupv@r\@mptwocol@footgroupv@r
8453 \bidi@ensure@newcommand{\@twocolfootnotetext}[1]{\insert\footinsv@r{\if@RTL@footnote\@RTLtrue%
8454 \def\baselinestretch{\m@m@footnote@spacing}%
8455 \reset@font\foottextfont
8456 \@preamfntext
8457 \protected@edef\@currentlabel{%
8458 \csname p@footnote\endcsname\@thefnmark}%
8459 \color@begingroup
8460 \@twocolfootfmt{#1}%
8461 \color@endgroup}%
8462 \m@mmf@prepare}
8463 \bidi@ensure@newcommand{\@twocolLTRfootnotetext}[1]{\insert\footinsv@r{\if@RTLcolumnfootnotes
8464 \def\baselinestretch{\m@m@footnote@spacing}%
8465 \reset@font\LTRfoottextfont
8466 \@preamfntext
8467 \protected@edef\@currentlabel{%
8468 \csname p@footnote\endcsname\@thefnmark}%
8469 \color@begingroup
8470 \@twocolLTRfootfmt{#1}%
8471 \color@endgroup}%
8472 \m@mmf@prepare}
8473 \bidi@ensure@newcommand{\@twocolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
8474 \def\baselinestretch{\m@m@footnote@spacing}%
8475 \reset@font\RTLfoottextfont
8476 \@preamfntext
8477 \protected@edef\@currentlabel{%
8478 \csname p@footnote\endcsname\@thefnmark}%
8479 \color@begingroup
8480 \@twocolRTLfootfmt{#1}%
8481 \color@endgroup}%
8482 \m@mmf@prepare}
8483 \bidi@ensure@newcommand{\@preamtwofmt}{%
8484 \hspace{.45\hspace}
8485 \parindent=\z@

```





```

8486 \tolerance=5000\relax
8487 \leavevmode}
8488 \bidi@ensure@newcommand{\@twocolfootfmt}[1]{%
8489 \@preamtwofmt
8490 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
8491 \bidi@ensure@newcommand{\@twocolLTRfootfmt}[1]{%
8492 \@preamtwofmt
8493 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
8494 \bidi@ensure@newcommand{\@twocolRTLfootfmt}[1]{%
8495 \@preamtwofmt
8496 {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
8497 \bidi@ensure@newcommand{\@mptwocolfootnotetext}[1]{%
8498 \global\setbox\@mpfootinsv@r\vbox{\if@RTL@footnote@RTLtrue\else\@RTLfalse\fi%
8499 \unvbox\@mpfootinsv@r
8500 \def\baselinestretch{\m@m@footnote@spacing}%
8501 \reset@font\foottextfont
8502 \hsize\columnwidth \@parboxrestore
8503 \protected@edef\@currentlabel{%
8504 \csname p@mpfootnote\endcsname\@thefnmark}%
8505 \color@begingroup
8506 \@twocolfootfmt{#1}%
8507 \color@endgroup}%
8508 \m@mmf@prepare}
8509 \bidi@ensure@newcommand{\@mptwocolLTRfootnotetext}[1]{%
8510 \global\setbox\@mpfootinsv@r\vbox{\@RTLfalse%
8511 \unvbox\@mpfootinsv@r
8512 \def\baselinestretch{\m@m@footnote@spacing}%
8513 \reset@font\LTRfoottextfont
8514 \hsize\columnwidth \@parboxrestore
8515 \if@RTLcolumnfootnotes\beginL\fi
8516 \protected@edef\@currentlabel{%
8517 \csname p@mpfootnote\endcsname\@thefnmark}%
8518 \color@begingroup
8519 \@twocolLTRfootfmt{#1}%
8520 \color@endgroup}%
8521 \m@mmf@prepare}
8522 \bidi@ensure@newcommand{\@mptwocolRTLfootnotetext}[1]{%
8523 \global\setbox\@mpfootinsv@r\vbox{\@RTLtrue%
8524 \unvbox\@mpfootinsv@r
8525 \def\baselinestretch{\m@m@footnote@spacing}%
8526 \reset@font\RTLfoottextfont
8527 \hsize\columnwidth \@parboxrestore
8528 \protected@edef\@currentlabel{%
8529 \csname p@mpfootnote\endcsname\@thefnmark}%
8530 \color@begingroup
8531 \@twocolRTLfootfmt{#1}%
8532 \color@endgroup}%
8533 \m@mmf@prepare}
8534 \bidi@ensure@newcommand{\twocolumnfootstyle}[1]{%
8535 \m@make@twocolfootnotetext{#1}%

```



```

8536 \m@make@mptwocolfootnotetext{#1}%
8537 \m@make@twocolfootfmt{#1}%
8538 \m@make@twocol@footgroup{#1}%
8539 \m@make@mptwocol@footgroup{#1}%
8540 \m@make@footstart{#1}%
8541 \bidi@namelongdef{@footnotetext#1}##1{%
8542     \@nameuse{@twocolfootnotetext#1}{##1}}%
8543 \bidi@namelongdef{@mpfootnotetext#1}##1{%
8544     \@nameuse{@mptwocolfootnotetext#1}{##1}}%
8545 \@namedef{@footgroup#1}{\@nameuse{@twocol@footgroup#1}}%
8546 \@namedef{@mp@footgroup#1}{\@nameuse{@mptwocol@footgroup#1}}%
8547 \expandafter\dimen\csname footins#1\endcsname=2\footinsdim
8548 \expandafter\count\csname footins#1\endcsname=500\relax}
8549 \bidi@ensure@newcommand{\m@make@twocolfootnotetext}[1]{%
8550     \bidi@namelongdef{@twocolfootnotetext#1}##1{%
8551         \insert\@nameuse{footins#1}{%
8552             \def\baselinestretch{\m@m@footnote@spacing}%
8553             \reset@font\@nameuse{foottextfont#1}%
8554             \@preamfntext
8555             \protected@edef\@currentlabel{%
8556                 \csname p@footnote#1\endcsname \@nameuse{@thefnmark#1}}%
8557             \color@begingroup
8558                 \@nameuse{@twocolfootfmt#1}{##1}%
8559             \color@endgroup}%
8560             \m@m@mmf@prepare}}
8561 \bidi@ensure@newcommand{\m@make@mptwocolfootnotetext}[1]{%
8562 \bidi@namelongdef{@mptwocolfootnotetext#1}##1{%
8563     \global\setbox\@nameuse{@mpfootins#1}\vbox{%
8564         \unvbox\@nameuse{@mpfootins#1}
8565         \def\baselinestretch{\m@m@footnote@spacing}%
8566         \reset@font\@nameuse{foottextfont#1}%
8567         \hsize\columnwidth \@parboxrestore
8568         \protected@edef\@currentlabel{%
8569             \csname p@mpfootnote#1\endcsname\@nameuse{@thefnmark#1}}%
8570         \color@begingroup
8571             \@nameuse{@twocolfootfmt#1}{##1}%
8572         \color@endgroup}\m@m@mmf@prepare}}
8573 \bidi@ensure@newcommand{\m@make@twocolfootfmt}[1]{%
8574     \@namedef{@twocolfootfmt#1}##1{%
8575         \@preamtwofmt
8576         {\@nameuse{footfootmark#1}\strut
8577             {\@nameuse{foottextfont#1}##1}\strut\par}\allowbreak}}
8578 \bidi@ensure@newcommand{\m@make@twocol@footgroup}[1]{%
8579     \@namedef{@twocol@footgroup#1}{%
8580         \def\baselinestretch{\m@m@footnote@spacing}%
8581         \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
8582         \m@m@rigidbalance{\@nameuse{footins#1}}{\tw@}{\splittopskip}}}}
8583 \bidi@ensure@newcommand{\m@make@mptwocol@footgroup}[1]{%
8584     \@namedef{@mptwocol@footgroup#1}{%
8585         \def\baselinestretch{\m@m@footnote@spacing}%

```



```

8586 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
8587 \m@rigrigidbodybalance{\@nameuse{@mpfootins#1}}{\tw@}{\splittopskip}}
8588 \bidi@ensure@newcommand{\threecolumnfootnotes}{%
8589 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
8590 \@bidi@before@Hy@hyperfootnotes
8591 \let\@footnotetext\@threecolfootnotetext
8592 \let\@LTRfootnotetext\@threecolLTRfootnotetext
8593 \let\@RTLfootnotetext\@threecolRTLfootnotetext
8594 \dimen\footinsv@r=3\footinsdim
8595 \count\footinsv@r=333\relax
8596 \m@make@threecol@footgroup{v@r}%
8597 \let\@footgroupv@r\@threecol@footgroupv@r
8598 \let\@mpfootnotetext\@mpthreecolfootnotetext
8599 \let\@mpLTRfootnotetext\@mpthreecolLTRfootnotetext
8600 \let\@mpRTLfootnotetext\@mpthreecolRTLfootnotetext
8601 \@bidi@after@Hy@hyperfootnotes
8602 \m@make@mpthreecol@footgroup{v@r}%
8603 \let\mp@footgroupv@r\@mpthreecol@footgroupv@r
8604 \bidi@ensure@newcommand{\@threecolfootnotetext}[1]{\insert\footinsv@r{\if@RTL@footnote\@RTLtr
8605 \def\baselinestretch{\m@m@footnote@spacing}%
8606 \reset@font\foottextfont
8607 \@preamfntext
8608 \protected@edef\@currentlabel{%
8609 \csname p@footnote\endcsname\@thefnmark}%
8610 \color@begingroup
8611 \@threecolfootfmt{#1}%
8612 \color@endgroup}\m@mmf@prepare}
8613 \bidi@ensure@newcommand{\@threecolLTRfootnotetext}[1]{\insert\footinsv@r{\if@RTLcolumnfootnot
8614 \def\baselinestretch{\m@m@footnote@spacing}%
8615 \reset@font\LTRfoottextfont
8616 \@preamfntext
8617 \protected@edef\@currentlabel{%
8618 \csname p@footnote\endcsname\@thefnmark}%
8619 \color@begingroup
8620 \@threecolLTRfootfmt{#1}%
8621 \color@endgroup}\m@mmf@prepare}
8622 \bidi@ensure@newcommand{\@threecolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
8623 \def\baselinestretch{\m@m@footnote@spacing}%
8624 \reset@font\RTLfoottextfont
8625 \@preamfntext
8626 \protected@edef\@currentlabel{%
8627 \csname p@footnote\endcsname\@thefnmark}%
8628 \color@begingroup
8629 \@threecolRTLfootfmt{#1}%
8630 \color@endgroup}\m@mmf@prepare}
8631 \bidi@ensure@newcommand{\@preamthreelfmt}{%
8632 \hsize .3\hsize
8633 \parindent=\z@
8634 \tolerance=5000\relax
8635 \leavevmode}

```



```

8636 \bidi@ensure@newcommand{\@threecolfootfmt}[1]{%
8637   \@preamthreelfmt
8638   {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
8639 \bidi@ensure@newcommand{\@threecolLTRfootfmt}[1]{%
8640   \@preamthreelfmt
8641   {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
8642 \bidi@ensure@newcommand{\@threecolRTLfootfmt}[1]{%
8643   \@preamthreelfmt
8644   {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
8645 \bidi@ensure@newcommand{\@mpthreecolfootnotetext}[1]{%
8646   \global\setbox\@mpfootinsv\@r\@vbox{\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
8647     \unvbox\@mpfootinsv\@r
8648     \def\baselinestretch{\m@m@footnote@spacing}%
8649     \reset@font\foottextfont
8650     \hsize\columnwidth \@parboxrestore
8651     \protected@edef\@currentlabel{%
8652       \csname p@mpfootnote\endcsname\@thefnmark}%
8653   \color@begingroup
8654     \@threecolfootfmt{#1}%
8655   \color@endgroup}\m@m@m@prepare}
8656 \bidi@ensure@newcommand{\@mpthreecolLTRfootnotetext}[1]{%
8657   \global\setbox\@mpfootinsv\@r\@vbox{\@RTLfalse%
8658     \unvbox\@mpfootinsv\@r
8659     \def\baselinestretch{\m@m@footnote@spacing}%
8660     \reset@font\LTRfoottextfont
8661     \hsize\columnwidth \@parboxrestore
8662     \if@RTLcolumnfootnotes\beginL\fi
8663     \protected@edef\@currentlabel{%
8664       \csname p@mpfootnote\endcsname\@thefnmark}%
8665   \color@begingroup
8666     \@threecolLTRfootfmt{#1}%
8667   \color@endgroup}\m@m@m@prepare}
8668 \bidi@ensure@newcommand{\@mpthreecolRTLfootnotetext}[1]{%
8669   \global\setbox\@mpfootinsv\@r\@vbox{\@RTLtrue%
8670     \unvbox\@mpfootinsv\@r
8671     \def\baselinestretch{\m@m@footnote@spacing}%
8672     \reset@font\RTLfoottextfont
8673     \hsize\columnwidth \@parboxrestore
8674     \protected@edef\@currentlabel{%
8675       \csname p@mpfootnote\endcsname\@thefnmark}%
8676   \color@begingroup
8677     \@threecolRTLfootfmt{#1}%
8678   \color@endgroup}\m@m@m@prepare}
8679 \bidi@ensure@newcommand{\threecolumnfootstyle}[1]{%
8680   \m@make@threecolfootnotetext{#1}%
8681   \m@make@mpthreecolfootnotetext{#1}%
8682   \m@make@threecolfootfmt{#1}%
8683   \m@make@threecol@footgroup{#1}%
8684   \m@make@mpthreecol@footgroup{#1}%
8685   \m@make@footstart{#1}%

```



```

8686 \bidi@namelongdef{@footnotetext#1}##1{%
8687 \@nameuse{@threecolfootnotetext#1}{##1}}%
8688 \bidi@namelongdef{@mpfootnotetext#1}##1{%
8689 \@nameuse{@mpthreecolfootnotetext#1}{##1}}%
8690 \@namedef{@footgroup#1}{\@nameuse{@threecol@footgroup#1}}%
8691 \@namedef{@mp@footgroup#1}{\@nameuse{@mpthreecol@footgroup#1}}%
8692 \expandafter\dimen\csname footins#1\endcsname=3\footinsdim
8693 \expandafter\count\csname footins#1\endcsname=333\relax}
8694 \bidi@ensure@newcommand{\m@make@threecolfootnotetext}[1]{%
8695 \bidi@namelongdef{@threecolfootnotetext#1}##1{%
8696 \insert\@nameuse{footins#1}{%
8697 \def\baselinestretch{\m@m@footnote@spacing}%
8698 \reset@font\@nameuse{foottextfont#1}%
8699 \preamfntext
8700 \protected@edef\@currentlabel{%
8701 \csname p@footnote#1\endcsname \@nameuse{@thefnmark#1}}%
8702 \color@begingroup
8703 \@nameuse{@threecolfootfmt#1}{##1}%
8704 \color@endgroup}\m@m@mmf@prepare}}
8705 \bidi@ensure@newcommand{\m@make@mpthreecolfootnotetext}[1]{%
8706 \bidi@namelongdef{@mpthreecolfootnotetext#1}##1{%
8707 \global\setbox\@nameuse{@mpfootins#1}\vbox{%
8708 \unvbox\@nameuse{@mpfootins#1}
8709 \def\baselinestretch{\m@m@footnote@spacing}%
8710 \reset@font\@nameuse{foottextfont#1}%
8711 \hsize\columnwidth \@parboxrestore
8712 \protected@edef\@currentlabel{%
8713 \csname p@mpfootnote#1\endcsname\@nameuse{@thefnmark#1}}%
8714 \color@begingroup
8715 \@nameuse{@threecolfootfmt#1}{##1}%
8716 \color@endgroup}\m@m@mmf@prepare}}
8717 \bidi@ensure@newcommand{\m@make@threecolfootfmt}[1]{%
8718 \bidi@namelongdef{@threecolfootfmt#1}##1{%
8719 \@preamthreefmt
8720 {\@nameuse{footfootmark#1}\strut
8721 {\@nameuse{foottextfont#1}##1}\strut\par}\allowbreak}}
8722 \bidi@ensure@newcommand{\m@make@threecol@footgroup}[1]{%
8723 \@namedef{@threecol@footgroup#1}{%
8724 \def\baselinestretch{\m@m@footnote@spacing}%
8725 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
8726 \m@m@rigidbalance{\@nameuse{footins#1}}{\thr@@}{\splittopskip}}}}
8727 \bidi@ensure@newcommand{\m@make@mpthreecol@footgroup}[1]{%
8728 \@namedef{@mpthreecol@footgroup#1}{%
8729 \def\baselinestretch{\m@m@footnote@spacing}%
8730 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
8731 \m@m@rigidbalance{\@nameuse{@mpfootins#1}}{\thr@@}{\splittopskip}}}}
8732 \bidi@ensure@newcommand{\fourcolumnfootnotes}{%
8733 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
8734 \@bidi@before@Hy@hyperfootnotes
8735 \let\@footnotetext\@fourcolfootnotetext

```



```

8736 \let\LTRfootnotetext\@fourcolLTRfootnotetext
8737 \let\RTLfootnotetext\@fourcolRTLfootnotetext
8738 \dimen\footinsv@r=4\footinsdim
8739 \count\footinsv@r=250\relax
8740 \m@make@fourcol@footgroup{v@r}%
8741 \let\@footgroupv@r\@fourcol@footgroupv@r
8742 \let\@mpfootnotetext\@mpfourcolfootnotetext
8743 \let\@mpLTRfootnotetext\@mpfourcolLTRfootnotetext
8744 \let\@mpRTLfootnotetext\@mpfourcolRTLfootnotetext
8745 \@bidi@after@Hy@hyperfootnotes
8746 \m@make@mpfourcol@footgroup{v@r}%
8747 \let\mp@footgroupv@r\@mpfourcol@footgroupv@r
8748 \bidi@ensure@newcommand{\@fourcolfootnotetext}[1]{\insert\footinsv@r{\ifRTL@footnote\RTLtru
8749 \def\baselinestretch{\m@m@footnote@spacing}%
8750 \reset@font\foottextfont
8751 \@preamfntext
8752 \protected@edef\@currentlabel{%
8753   \csname p@footnote\endcsname\@thefnmark}%
8754 \color@begingroup
8755   \@fourcolfootfmt{#1}%
8756 \color@endgroup}%
8757 \m@mmf@prepare}
8758 \bidi@ensure@newcommand{\@fourcolLTRfootnotetext}[1]{\insert\footinsv@r{\ifRTLcolumnfootnote
8759 \def\baselinestretch{\m@m@footnote@spacing}%
8760 \reset@font\LTRfoottextfont
8761 \@preamfntext
8762 \protected@edef\@currentlabel{%
8763   \csname p@footnote\endcsname\@thefnmark}%
8764 \color@begingroup
8765   \@fourcolLTRfootfmt{#1}%
8766 \color@endgroup}%
8767 \m@mmf@prepare}
8768 \bidi@ensure@newcommand{\@fourcolRTLfootnotetext}[1]{\insert\footinsv@r{\RTLtrue%
8769 \def\baselinestretch{\m@m@footnote@spacing}%
8770 \reset@font\RTLfoottextfont
8771 \@preamfntext
8772 \protected@edef\@currentlabel{%
8773   \csname p@footnote\endcsname\@thefnmark}%
8774 \color@begingroup
8775   \@fourcolRTLfootfmt{#1}%
8776 \color@endgroup}%
8777 \m@mmf@prepare}
8778 \bidi@ensure@newcommand{\@preamfourfmt}{%
8779 \hspace{.25\hspace}
8780 \parindent=\z@
8781 \tolerance=5000\relax
8782 \leavevmode}
8783 \bidi@ensure@newcommand{\@fourcolfootfmt}[1]{%
8784 \@preamfourfmt
8785 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}

```



```

8786 \bidi@ensure@newcommand{\@fourcolLTRfootfmt}[1]{%
8787   \@preamfourfmt
8788   {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
8789 \bidi@ensure@newcommand{\@fourcolRTLfootfmt}[1]{%
8790   \@preamfourfmt
8791   {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
8792 \bidi@ensure@newcommand{\@mpfourcolfootnotetext}[1]{%
8793   \global\setbox\@mpfootinsv\@r\@vbox{\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
8794     \unvbox\@mpfootinsv\@r
8795     \def\baselinestretch{\m@m@footnote@spacing}%
8796     \reset@font\foottextfont
8797     \hsize\columnwidth \@parboxrestore
8798     \protected@edef\@currentlabel{%
8799       \csname p@mpfootnote\endcsname\@thefnmark}%
8800   \color@begingroup
8801     \@fourcolfootfmt{#1}%
8802   \color@endgroup}%
8803   \m@mmf@prepare}
8804 \bidi@ensure@newcommand{\@mpfourcolLTRfootnotetext}[1]{%
8805   \global\setbox\@mpfootinsv\@r\@vbox{\@RTLfalse%
8806     \unvbox\@mpfootinsv\@r
8807     \def\baselinestretch{\m@m@footnote@spacing}%
8808     \reset@font\LTRfoottextfont
8809     \hsize\columnwidth \@parboxrestore
8810     \if@RTLcolumnfootnotes\beginL\fi
8811     \protected@edef\@currentlabel{%
8812       \csname p@mpfootnote\endcsname\@thefnmark}%
8813   \color@begingroup
8814     \@fourcolLTRfootfmt{#1}%
8815   \color@endgroup}%
8816   \m@mmf@prepare}
8817 \bidi@ensure@newcommand{\@mpfourcolRTLfootnotetext}[1]{%
8818   \global\setbox\@mpfootinsv\@r\@vbox{\@RTLtrue%
8819     \unvbox\@mpfootinsv\@r
8820     \def\baselinestretch{\m@m@footnote@spacing}%
8821     \reset@font\RTLfoottextfont
8822     \hsize\columnwidth \@parboxrestore
8823     \protected@edef\@currentlabel{%
8824       \csname p@mpfootnote\endcsname\@thefnmark}%
8825   \color@begingroup
8826     \@fourcolRTLfootfmt{#1}%
8827   \color@endgroup}%
8828   \m@mmf@prepare}
8829 \bidi@ensure@newcommand{\fourcolumnfootstyle}[1]{%
8830   \m@make@fourcolfootnotetext{#1}%
8831   \m@make@mpfourcolfootnotetext{#1}%
8832   \m@make@fourcolfootfmt{#1}%
8833   \m@make@fourcol@footgroup{#1}%
8834   \m@make@mpfourcol@footgroup{#1}%
8835   \m@make@footstart{#1}%

```





```

8836 \bidi@namelongdef{@footnotetext#1}##1{%
8837   \@nameuse{@fourcolfootnotetext#1}{##1}}%
8838 \bidi@namelongdef{@mpfootnotetext#1}##1{%
8839   \@nameuse{@mpfourcolfootnotetext#1}{##1}}%
8840 \@namedef{@footgroup#1}{\@nameuse{@fourcol@footgroup#1}}%
8841 \@namedef{mp@footgroup#1}{\@nameuse{@mpfourcol@footgroup#1}}%
8842 \expandafter\dimen\csname footins#1\endcsname=2\footinsdim
8843 \expandafter\count\csname footins#1\endcsname=500\relax}
8844 \bidi@ensure@newcommand{\m@make@fourcolfootnotetext}[1]{%
8845   \bidi@namelongdef{@fourcolfootnotetext#1}##1{%
8846     \insert\@nameuse{footins#1}{%
8847       \def\baselinestretch{\m@m@footnote@spacing}%
8848       \reset@font\@nameuse{foottextfont#1}%
8849       \@preamfntext
8850       \protected@edef\@currentlabel{%
8851         \csname p@footnote#1\endcsname \@nameuse{@thefnmark#1}}%
8852       \color@begingroup
8853       \@nameuse{@fourcolfootfmt#1}{##1}%
8854       \color@endgroup}%
8855       \m@mmf@prepare}}
8856 \bidi@ensure@newcommand{\m@make@mpfourcolfootnotetext}[1]{%
8857 \bidi@namelongdef{@mpfourcolfootnotetext#1}##1{%
8858   \global\setbox\@nameuse{@mpfootins#1}\vbox{%
8859     \unvbox\@nameuse{@mpfootins#1}
8860     \def\baselinestretch{\m@m@footnote@spacing}%
8861     \reset@font\@nameuse{foottextfont#1}%
8862     \hsize\columnwidth \@parboxrestore
8863     \protected@edef\@currentlabel{%
8864       \csname p@mpfootnote#1\endcsname\@nameuse{@thefnmark#1}}%
8865     \color@begingroup
8866     \@nameuse{@fourcolfootfmt#1}{##1}%
8867     \color@endgroup}\m@mmf@prepare}}
8868 \bidi@ensure@newcommand{\m@make@fourcolfootfmt}[1]{%
8869   \@namedef{@fourcolfootfmt#1}##1{%
8870     \@preamfourfmt
8871     {\@nameuse{footfootmark#1}\strut
8872      {\@nameuse{foottextfont#1}##1}\strut\par}\allowbreak}}
8873 \bidi@ensure@newcommand{\m@make@fourcol@footgroup}[1]{%
8874   \@namedef{@fourcol@footgroup#1}{%
8875     \def\baselinestretch{\m@m@footnote@spacing}%
8876     \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
8877     \m@mrigidbalance{\@nameuse{footins#1}}{4}{\splittopskip}}}%
8878 \bidi@ensure@newcommand{\m@make@mpfourcol@footgroup}[1]{%
8879   \@namedef{@mpfourcol@footgroup#1}{%
8880     \def\baselinestretch{\m@m@footnote@spacing}%
8881     \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
8882     \m@mrigidbalance{\@nameuse{@mpfootins#1}}{4}{\splittopskip}}}%
8883 \bidi@ensure@newcommand{\fivecolumnfootnotes}{%
8884   \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
8885   \@bidi@before@Hy@hyperfootnotes

```





```

8886 \let\@footnotetext\@fivecolfootnotetext
8887 \let\@LTRfootnotetext\@fivecolLTRfootnotetext
8888 \let\@RTLfootnotetext\@fivecolRTLfootnotetext
8889 \dimen\footinsv@r=5\footinsdim
8890 \count\footinsv@r=200\relax
8891 \m@make@fivecol@footgroup{v@r}%
8892 \let\@footgroupv@r\@fivecol@footgroupv@r
8893 \let\@mpfootnotetext\@mpfivecolfootnotetext
8894 \let\@mpLTRfootnotetext\@mpfivecolLTRfootnotetext
8895 \let\@mpRTLfootnotetext\@mpfivecolRTLfootnotetext
8896 \@bidi@after@Hy@hyperfootnotes
8897 \m@make@mpfivecol@footgroup{v@r}%
8898 \let\mp@footgroupv@r\@mpfivecol@footgroupv@r
8899 \bidi@ensure@newcommand{\@fivecolfootnotetext}[1]{\insert\footinsv@r{\if@RTL@footnote\@RTLtru
8900 \def\baselinestretch{\m@m@footnote@spacing}%
8901 \reset@font\foottextfont
8902 \@preamfntext
8903 \protected@edef\@currentlabel{%
8904   \csname p@footnote\endcsname\@thefnmark}%
8905 \color@begingroup
8906   \@fivecolfootfmt{#1}%
8907 \color@endgroup}%
8908 \m@m@mmf@prepare}
8909 \bidi@ensure@newcommand{\@fivecolLTRfootnotetext}[1]{\insert\footinsv@r{\if@RTLcolumnfootnote
8910 \def\baselinestretch{\m@m@footnote@spacing}%
8911 \reset@font\LTRfoottextfont
8912 \@preamfntext
8913 \protected@edef\@currentlabel{%
8914   \csname p@footnote\endcsname\@thefnmark}%
8915 \color@begingroup
8916   \@fivecolLTRfootfmt{#1}%
8917 \color@endgroup}%
8918 \m@m@mmf@prepare}
8919 \bidi@ensure@newcommand{\@fivecolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
8920 \def\baselinestretch{\m@m@footnote@spacing}%
8921 \reset@font\RTLfoottextfont
8922 \@preamfntext
8923 \protected@edef\@currentlabel{%
8924   \csname p@footnote\endcsname\@thefnmark}%
8925 \color@begingroup
8926   \@fivecolRTLfootfmt{#1}%
8927 \color@endgroup}%
8928 \m@m@mmf@prepare}
8929 \bidi@ensure@newcommand{\@preamfivefmt}{%
8930 \hsize .2\hsize
8931 \parindent=\z@
8932 \tolerance=5000\relax
8933 \leavevmode}
8934 \bidi@ensure@newcommand{\@fivecolfootfmt}[1]{%
8935 \@preamfivefmt

```



```

8936 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
8937 \bidi@ensure@newcommand{\@fivecolLTRfootfmt}[1]{%
8938   \@preamfivefmt
8939   {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
8940 \bidi@ensure@newcommand{\@fivecolRTLfootfmt}[1]{%
8941   \@preamfivefmt
8942   {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
8943 \bidi@ensure@newcommand{\@mpfivecolfootnotetext}[1]{%
8944   \global\setbox\@mpfootinsv\@r\@vbox{\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
8945     \unvbox\@mpfootinsv\@r
8946     \def\baselinestretch{\m@m@footnote@spacing}%
8947     \reset@font\foottextfont
8948     \hsize\columnwidth \@parboxrestore
8949     \protected@edef\@currentlabel{%
8950       \csname p@mpfootnote\endcsname\@thefnmark}%
8951   \color@begingroup
8952     \@fivecolfootfmt{#1}%
8953   \color@endgroup}%
8954   \m@m@mmf@prepare}
8955 \bidi@ensure@newcommand{\@mpfivecolLTRfootnotetext}[1]{%
8956   \global\setbox\@mpfootinsv\@r\@vbox{\@RTLfalse%
8957     \unvbox\@mpfootinsv\@r
8958     \def\baselinestretch{\m@m@footnote@spacing}%
8959     \reset@font\LTRfoottextfont
8960     \hsize\columnwidth \@parboxrestore
8961     \if@RTLcolumnfootnotes\beginL\fi
8962     \protected@edef\@currentlabel{%
8963       \csname p@mpfootnote\endcsname\@thefnmark}%
8964   \color@begingroup
8965     \@fivecolLTRfootfmt{#1}%
8966   \color@endgroup}%
8967   \m@m@mmf@prepare}
8968 \bidi@ensure@newcommand{\@mpfivecolRTLfootnotetext}[1]{%
8969   \global\setbox\@mpfootinsv\@r\@vbox{\@RTLtrue%
8970     \unvbox\@mpfootinsv\@r
8971     \def\baselinestretch{\m@m@footnote@spacing}%
8972     \reset@font\RTLfoottextfont
8973     \hsize\columnwidth \@parboxrestore
8974     \protected@edef\@currentlabel{%
8975       \csname p@mpfootnote\endcsname\@thefnmark}%
8976   \color@begingroup
8977     \@fivecolRTLfootfmt{#1}%
8978   \color@endgroup}%
8979   \m@m@mmf@prepare}
8980 \bidi@ensure@newcommand{\fivecolumnfootstyle}[1]{%
8981   \m@m@make@fivecolfootnotetext{#1}%
8982   \m@m@make@mpfivecolfootnotetext{#1}%
8983   \m@m@make@fivecolfootfmt{#1}%
8984   \m@m@make@fivecol@footgroup{#1}%
8985   \m@m@make@mpfivecol@footgroup{#1}%

```



```

8986 \m@make@footstart{#1}%
8987 \bidi@namelongdef{@footnotetext#1}##1{%
8988     \@nameuse{@fivecolfootnotetext#1}{##1}}%
8989 \bidi@namelongdef{@mpfootnotetext#1}##1{%
8990     \@nameuse{@mpfivecolfootnotetext#1}{##1}}%
8991 \@namedef{@footgroup#1}{\@nameuse{@fivecol@footgroup#1}}%
8992 \@namedef{@mp@footgroup#1}{\@nameuse{@mpfivecol@footgroup#1}}%
8993 \expandafter\dimen\csname footins#1\endcsname=2\footinsdim
8994 \expandafter\count\csname footins#1\endcsname=500\relax}
8995 \bidi@ensure@newcommand{\m@make@fivecolfootnotetext}[1]{%
8996     \bidi@namelongdef{@fivecolfootnotetext#1}##1{%
8997         \insert\@nameuse{footins#1}{%
8998             \def\baselinestretch{\m@m@footnote@spacing}%
8999             \reset@font\@nameuse{foottextfont#1}%
9000             \@preamfntext
9001             \protected@edef\@currentlabel{%
9002                 \csname p@footnote#1\endcsname \@nameuse{@thefnmark#1}}%
9003             \color@begingroup
9004             \@nameuse{@fivecolfootfmt#1}{##1}%
9005             \color@endgroup}%
9006             \m@m@mmf@prepare}}
9007 \bidi@ensure@newcommand{\m@make@mpfivecolfootnotetext}[1]{%
9008 \bidi@namelongdef{@mpfivecolfootnotetext#1}##1{%
9009     \global\setbox\@nameuse{@mpfootins#1}\vbox{%
9010         \unvbox\@nameuse{@mpfootins#1}
9011         \def\baselinestretch{\m@m@footnote@spacing}%
9012         \reset@font\@nameuse{foottextfont#1}%
9013         \hsize\columnwidth \@parboxrestore
9014         \protected@edef\@currentlabel{%
9015             \csname p@mpfootnote#1\endcsname\@nameuse{@thefnmark#1}}%
9016         \color@begingroup
9017         \@nameuse{@fivecolfootfmt#1}{##1}%
9018         \color@endgroup}\m@m@mmf@prepare}}
9019 \bidi@ensure@newcommand{\m@make@fivecolfootfmt}[1]{%
9020     \@namedef{@fivecolfootfmt#1}##1{%
9021         \@preamfivefmt
9022         {\@nameuse{footfootmark#1}\strut
9023             {\@nameuse{foottextfont#1}##1}\strut\par}\allowbreak}}
9024 \bidi@ensure@newcommand{\m@make@fivecol@footgroup}[1]{%
9025     \@namedef{@fivecol@footgroup#1}{%
9026         \def\baselinestretch{\m@m@footnote@spacing}%
9027         \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
9028         \m@m@rigidbalance{\@nameuse{footins#1}}{5}{\splittopskip}}}}
9029 \bidi@ensure@newcommand{\m@make@mpfivecol@footgroup}[1]{%
9030     \@namedef{@mpfivecol@footgroup#1}{%
9031         \def\baselinestretch{\m@m@footnote@spacing}%
9032         \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
9033         \m@m@rigidbalance{\@nameuse{@mpfootins#1}}{5}{\splittopskip}}}}
9034 \bidi@ensure@newcommand{\sixcolumnfootnotes}{%
9035     \@namedef{foottextfontv@r}{\foottextfont}% % [RS]

```



```

9036 \@bidi@before@Hy@hyperfootnotes
9037 \let\@footnotetext\@sixcolfootnotetext
9038 \let\@LTRfootnotetext\@sixcolLTRfootnotetext
9039 \let\@RTLfootnotetext\@sixcolRTLfootnotetext
9040 \dimen\footinsv@r=6\footinsdim
9041 \count\footinsv@r=166\relax
9042 \m@make@sixcol@footgroup{v@r}%
9043 \let\@footgroupv@r\@sixcol@footgroupv@r
9044 \let\@mpfootnotetext\@mpsixcolfootnotetext
9045 \let\@mpLTRfootnotetext\@mpsixcolLTRfootnotetext
9046 \let\@mpRTLfootnotetext\@mpsixcolRTLfootnotetext
9047 \@bidi@after@Hy@hyperfootnotes
9048 \m@make@mpsixcol@footgroup{v@r}%
9049 \let\mp@footgroupv@r\@mpsixcol@footgroupv@r
9050 \bidi@ensure@newcommand{\@sixcolfootnotetext}[1]{\insert\footinsv@r{\if@RTL@footnote\@RTLtrue%
9051 \def\baselinestretch{\m@mm@footnote@spacing}%
9052 \reset@font\foottextfont
9053 \@preamfntext
9054 \protected@edef\@currentlabel{%
9055 \csname p@footnote\endcsname\@thefnmark}%
9056 \color@begingroup
9057 \@sixcolfootfmt{#1}%
9058 \color@endgroup}%
9059 \m@mmf@prepare}
9060 \bidi@ensure@newcommand{\@sixcolLTRfootnotetext}[1]{\insert\footinsv@r{\if@RTLcolumnfootnotes%
9061 \def\baselinestretch{\m@mm@footnote@spacing}%
9062 \reset@font\LTRfoottextfont
9063 \@preamfntext
9064 \protected@edef\@currentlabel{%
9065 \csname p@footnote\endcsname\@thefnmark}%
9066 \color@begingroup
9067 \@sixcolLTRfootfmt{#1}%
9068 \color@endgroup}%
9069 \m@mmf@prepare}
9070 \bidi@ensure@newcommand{\@sixcolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
9071 \def\baselinestretch{\m@mm@footnote@spacing}%
9072 \reset@font\RTLfoottextfont
9073 \@preamfntext
9074 \protected@edef\@currentlabel{%
9075 \csname p@footnote\endcsname\@thefnmark}%
9076 \color@begingroup
9077 \@sixcolRTLfootfmt{#1}%
9078 \color@endgroup}%
9079 \m@mmf@prepare}
9080 \bidi@ensure@newcommand{\@preamsixfmt}{%
9081 \hsize .16\hsize
9082 \parindent=\z@
9083 \tolerance=5000\relax
9084 \leavevmode}
9085 \bidi@ensure@newcommand{\@sixcolfootfmt}[1]{%

```



```

g086 \@preamsixfmt
g087 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
g088 \bidi@ensure@newcommand{\@sixcolLTRfootfmt}[1]{%
g089 \@preamsixfmt
g090 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
g091 \bidi@ensure@newcommand{\@sixcolRTLfootfmt}[1]{%
g092 \@preamsixfmt
g093 {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
g094 \bidi@ensure@newcommand{\@mpsixcolfootnotetext}[1]{\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi}
g095 \global\setbox\@mpfootinsv@r\vbox{%
g096 \unvbox\@mpfootinsv@r
g097 \def\baselinestretch{\m@m@footnote@spacing}%
g098 \reset@font\foottextfont
g099 \hsize\columnwidth \@parboxrestore
g100 \protected@edef\@currentlabel{%
g101 \csname p@mpfootnote\endcsname\@thefnmark}%
g102 \color@begingroup
g103 \@sixcolfootfmt{#1}%
g104 \color@endgroup}%
g105 \m@mmf@prepare}
g106 \bidi@ensure@newcommand{\@mpsixcolLTRfootnotetext}[1]{\@RTLfalse%
g107 \global\setbox\@mpfootinsv@r\vbox{%
g108 \unvbox\@mpfootinsv@r
g109 \def\baselinestretch{\m@m@footnote@spacing}%
g110 \reset@font\LTRfoottextfont
g111 \hsize\columnwidth \@parboxrestore
g112 \if@RTLcolumnfootnotes\beginL\fi
g113 \protected@edef\@currentlabel{%
g114 \csname p@mpfootnote\endcsname\@thefnmark}%
g115 \color@begingroup
g116 \@sixcolLTRfootfmt{#1}%
g117 \color@endgroup}%
g118 \m@mmf@prepare}
g119 \bidi@ensure@newcommand{\@mpsixcolRTLfootnotetext}[1]{\@RTLtrue%
g120 \global\setbox\@mpfootinsv@r\vbox{%
g121 \unvbox\@mpfootinsv@r
g122 \def\baselinestretch{\m@m@footnote@spacing}%
g123 \reset@font\RTLfoottextfont
g124 \hsize\columnwidth \@parboxrestore
g125 \protected@edef\@currentlabel{%
g126 \csname p@mpfootnote\endcsname\@thefnmark}%
g127 \color@begingroup
g128 \@sixcolRTLfootfmt{#1}%
g129 \color@endgroup}%
g130 \m@mmf@prepare}
g131 \bidi@ensure@newcommand{\sixcolumnfootstyle}[1]{%
g132 \m@make@sixcolfootnotetext{#1}%
g133 \m@make@mpsixcolfootnotetext{#1}%
g134 \m@make@sixcolfootfmt{#1}%
g135 \m@make@sixcol@footgroup{#1}%

```



```

g136 \m@make@mpsixcol@footgroup{#1}%
g137 \m@make@footstart{#1}%
g138 \bidi@namelongdef{@footnotetext#1}##1{%
g139 \@nameuse{@sixcolfootnotetext#1}{##1}}%
g140 \bidi@namelongdef{@mpfootnotetext#1}##1{%
g141 \@nameuse{@mpsixcolfootnotetext#1}{##1}}%
g142 \@namedef{@footgroup#1}{\@nameuse{@sixcol@footgroup#1}}%
g143 \@namedef{@mp@footgroup#1}{\@nameuse{@mpsixcol@footgroup#1}}%
g144 \expandafter\dimen\csname footins#1\endcsname=2\footinsdim
g145 \expandafter\count\csname footins#1\endcsname=500\relax}
g146 \bidi@ensure@newcommand{\m@make@sixcolfootnotetext}[1]{%
g147 \bidi@namelongdef{@sixcolfootnotetext#1}##1{%
g148 \insert\@nameuse{footins#1}{%
g149 \def\baselinestretch{\m@m@footnote@spacing}%
g150 \reset@font\@nameuse{foottextfont#1}%
g151 \@preamfntext
g152 \protected@edef\@currentlabel{%
g153 \csname p@footnote#1\endcsname \@nameuse{@thefnmark#1}}%
g154 \color@begingroup
g155 \@nameuse{@sixcolfootfmt#1}{##1}%
g156 \color@endgroup}%
g157 \m@m@mmf@prepare}}
g158 \bidi@ensure@newcommand{\m@make@mpsixcolfootnotetext}[1]{%
g159 \bidi@namelongdef{@mpsixcolfootnotetext#1}##1{%
g160 \global\setbox\@nameuse{@mpfootins#1}\vbox{%
g161 \unvbox\@nameuse{@mpfootins#1}
g162 \def\baselinestretch{\m@m@footnote@spacing}%
g163 \reset@font\@nameuse{foottextfont#1}%
g164 \hsize\columnwidth \@parboxrestore
g165 \protected@edef\@currentlabel{%
g166 \csname p@mpfootnote#1\endcsname\@nameuse{@thefnmark#1}}%
g167 \color@begingroup
g168 \@nameuse{@sixcolfootfmt#1}{##1}%
g169 \color@endgroup}\m@m@mmf@prepare}}
g170 \bidi@ensure@newcommand{\m@make@sixcolfootfmt}[1]{%
g171 \@namedef{@sixcolfootfmt#1}##1{%
g172 \@preamsixfmt
g173 {\@nameuse{footfootmark#1}\strut
g174 {\@nameuse{foottextfont#1}##1}\strut\par}\allowbreak}}
g175 \bidi@ensure@newcommand{\m@make@sixcol@footgroup}[1]{%
g176 \@namedef{@sixcol@footgroup#1}{%
g177 \def\baselinestretch{\m@m@footnote@spacing}%
g178 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
g179 \m@m@rigidbalance{\@nameuse{footins#1}}{6}{\splittopskip}}}}
g180 \bidi@ensure@newcommand{\m@make@mpsixcol@footgroup}[1]{%
g181 \@namedef{@mpsixcol@footgroup#1}{%
g182 \def\baselinestretch{\m@m@footnote@spacing}%
g183 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
g184 \m@m@rigidbalance{\@nameuse{@mpfootins#1}}{6}{\splittopskip}}}}
g185 \bidi@ensure@newcommand{\sevendcolumnfootnotes}{%

```



```

g186 \namedef{foottextfontv@r}{\foottextfont}% % [RS]
g187 \@bidi@before@Hy@hyperfootnotes
g188 \let\@footnotetext\@sevendcolfootnotetext
g189 \let\@LTRfootnotetext\@sevendcolLTRfootnotetext
g190 \let\@RTLfootnotetext\@sevendcolRTLfootnotetext
g191 \dimen\footinsv@r=7\footinsdim
g192 \count\footinsv@r=142\relax
g193 \m@make@sevendcol@footgroup{v@r}%
g194 \let\@footgroupv@r\@sevendcol@footgroupv@r
g195 \let\@mpfootnotetext\@mpsevendcolfootnotetext
g196 \let\@mpLTRfootnotetext\@mpsevendcolLTRfootnotetext
g197 \let\@mpRTLfootnotetext\@mpsevendcolRTLfootnotetext
g198 \@bidi@after@Hy@hyperfootnotes
g199 \m@make@mpsevendcol@footgroup{v@r}%
g200 \let\mp@footgroupv@r\@mpsevendcol@footgroupv@r}
g201 \bidi@ensure@newcommand{\@sevendcolfootnotetext}[1]{\insert\footinsv@r{\if@RTL@footnote\@RTLtr
g202 \def\baselinestretch{\m@mm@footnote@spacing}%
g203 \reset@font\foottextfont
g204 \@preamfntext
g205 \protected@edef\@currentlabel{%
g206 \csname p@footnote\endcsname\@thefnmark}%
g207 \color@begingroup
g208 \@sevendcolfootfmt{#1}%
g209 \color@endgroup}%
g210 \m@mmf@prepare}
g211 \bidi@ensure@newcommand{\@sevendcolLTRfootnotetext}[1]{\insert\footinsv@r{\if@RTLcolumnfootnot
g212 \def\baselinestretch{\m@mm@footnote@spacing}%
g213 \reset@font\LTRfoottextfont
g214 \@preamfntext
g215 \protected@edef\@currentlabel{%
g216 \csname p@footnote\endcsname\@thefnmark}%
g217 \color@begingroup
g218 \@sevendcolLTRfootfmt{#1}%
g219 \color@endgroup}%
g220 \m@mmf@prepare}
g221 \bidi@ensure@newcommand{\@sevendcolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
g222 \def\baselinestretch{\m@mm@footnote@spacing}%
g223 \reset@font\RTLfoottextfont
g224 \@preamfntext
g225 \protected@edef\@currentlabel{%
g226 \csname p@footnote\endcsname\@thefnmark}%
g227 \color@begingroup
g228 \@sevendcolRTLfootfmt{#1}%
g229 \color@endgroup}%
g230 \m@mmf@prepare}
g231 \bidi@ensure@newcommand{\@preamsevenfmt}{%
g232 \hsize .142\hsize
g233 \parindent=\z@
g234 \tolerance=5000\relax
g235 \leavevmode}

```



```

9236 \bidi@ensure@newcommand{\@sevendcolfootfmt}[1]{%
9237   \@preamsevenfmt
9238   {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
9239 \bidi@ensure@newcommand{\@sevendcolLTRfootfmt}[1]{%
9240   \@preamsevenfmt
9241   {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
9242 \bidi@ensure@newcommand{\@sevendcolRTLfootfmt}[1]{%
9243   \@preamsevenfmt
9244   {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
9245 \bidi@ensure@newcommand{\@mpsevendcolfootnotetext}[1]{\if@RTL@footnote\@RTLtrue\else\@RTLfalse%
9246   \global\setbox\@mpfootinsv@r\vbox{%
9247     \unvbox\@mpfootinsv@r
9248     \def\baselinestretch{\m@m@footnote@spacing}%
9249     \reset@font\foottextfont
9250     \hsize\columnwidth \@parboxrestore
9251     \protected@edef\@currentlabel{%
9252       \csname p@mpfootnote\endcsname\@thefnmark}%
9253     \color@begingroup
9254       \@sevendcolfootfmt{#1}%
9255     \color@endgroup}%
9256     \m@m@mmf@prepare}
9257 \bidi@ensure@newcommand{\@mpsevendcolLTRfootnotetext}[1]{\@RTLfalse%
9258   \global\setbox\@mpfootinsv@r\vbox{%
9259     \unvbox\@mpfootinsv@r
9260     \def\baselinestretch{\m@m@footnote@spacing}%
9261     \reset@font\LTRfoottextfont
9262     \hsize\columnwidth \@parboxrestore
9263     \if@RTLcolumnfootnotes\beginL\fi
9264     \protected@edef\@currentlabel{%
9265       \csname p@mpfootnote\endcsname\@thefnmark}%
9266     \color@begingroup
9267       \@sevendcolLTRfootfmt{#1}%
9268     \color@endgroup}%
9269     \m@m@mmf@prepare}
9270 \bidi@ensure@newcommand{\@mpsevendcolRTLfootnotetext}[1]{\@RTLtrue%
9271   \global\setbox\@mpfootinsv@r\vbox{%
9272     \unvbox\@mpfootinsv@r
9273     \def\baselinestretch{\m@m@footnote@spacing}%
9274     \reset@font\RTLfoottextfont
9275     \hsize\columnwidth \@parboxrestore
9276     \protected@edef\@currentlabel{%
9277       \csname p@mpfootnote\endcsname\@thefnmark}%
9278     \color@begingroup
9279       \@sevendcolRTLfootfmt{#1}%
9280     \color@endgroup}%
9281     \m@m@mmf@prepare}
9282 \bidi@ensure@newcommand{\sevendcolumnfootstyle}[1]{%
9283   \m@make@sevendcolfootnotetext{#1}%
9284   \m@make@mpsevendcolfootnotetext{#1}%
9285   \m@make@sevendcolfootfmt{#1}%

```





```

9286 \m@make@sevenscol@footgroup{#1}%
9287 \m@make@mpsevenscol@footgroup{#1}%
9288 \m@make@footstart{#1}%
9289 \bidi@namelongdef{@footnotetext#1}##1{%
9290     \@nameuse{@sevenscolfootnotetext#1}{##1}}%
9291 \bidi@namelongdef{@mpfootnotetext#1}##1{%
9292     \@nameuse{@mpsevenscolfootnotetext#1}{##1}}%
9293 \@namedef{@footgroup#1}{\@nameuse{@sevenscol@footgroup#1}}%
9294 \@namedef{@mpfootgroup#1}{\@nameuse{@mpsevenscol@footgroup#1}}%
9295 \expandafter\dimen\csname footins#1\endcsname=2\footinsdim
9296 \expandafter\count\csname footins#1\endcsname=500\relax}
9297 \bidi@ensure@newcommand{\m@make@sevenscolfootnotetext}[1]{%
9298     \bidi@namelongdef{@sevenscolfootnotetext#1}##1{%
9299         \insert\@nameuse{footins#1}{%
9300             \def\baselinestretch{\m@m@footnote@spacing}%
9301             \reset@font\@nameuse{foottextfont#1}%
9302             \@preamfntext
9303             \protected@edef\@currentlabel{%
9304                 \csname p@footnote#1\endcsname \@nameuse{@thefnmark#1}}%
9305             \color@begingroup
9306                 \@nameuse{@sevenscolfootfmt#1}{##1}%
9307             \color@endgroup}%
9308             \m@m@mmf@prepare}}
9309 \bidi@ensure@newcommand{\m@make@mpsevenscolfootnotetext}[1]{%
9310     \bidi@namelongdef{@mpsevenscolfootnotetext#1}##1{%
9311         \global\setbox\@nameuse{@mpfootins#1}\vbox{%
9312             \unvbox\@nameuse{@mpfootins#1}
9313             \def\baselinestretch{\m@m@footnote@spacing}%
9314             \reset@font\@nameuse{foottextfont#1}%
9315             \hsize\columnwidth \@parboxrestore
9316             \protected@edef\@currentlabel{%
9317                 \csname p@mpfootnote#1\endcsname\@nameuse{@thefnmark#1}}%
9318             \color@begingroup
9319                 \@nameuse{@sevenscolfootfmt#1}{##1}%
9320             \color@endgroup}\m@m@mmf@prepare}}
9321 \bidi@ensure@newcommand{\m@make@sevenscolfootfmt}[1]{%
9322     \@namedef{@sevenscolfootfmt#1}##1{%
9323         \@preamsevenfmt
9324         {\@nameuse{footfootmark#1}\strut
9325         {\@nameuse{foottextfont#1}##1}\strut\par}\allowbreak}}
9326 \bidi@ensure@newcommand{\m@make@sevenscol@footgroup}[1]{%
9327     \@namedef{@sevenscol@footgroup#1}{%
9328         \def\baselinestretch{\m@m@footnote@spacing}%
9329         \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
9330         \m@m@rigidbalance{\@nameuse{footins#1}}{7}{\splittopskip}}}}
9331 \bidi@ensure@newcommand{\m@make@mpsevenscol@footgroup}[1]{%
9332     \@namedef{@mpsevenscol@footgroup#1}{%
9333         \def\baselinestretch{\m@m@footnote@spacing}%
9334         \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
9335         \m@m@rigidbalance{\@nameuse{@mpfootins#1}}{7}{\splittopskip}}}}

```



```

9336 \bidi@ensure@newcommand{\eightcolumnfootnotes}{%
9337   \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
9338   \@bidi@before@Hy@hyperfootnotes
9339   \let\@footnotetext\@eightcolfootnotetext
9340   \let\@LTRfootnotetext\@eightcolLTRfootnotetext
9341   \let\@RTLfootnotetext\@eightcolRTLfootnotetext
9342   \dimen\footinsv@r=8\footinsdim
9343   \count\footinsv@r=125\relax
9344   \m@make@eightcol@footgroup{v@r}%
9345   \let\@footgroupv@r\@eightcol@footgroupv@r
9346   \let\@mpfootnotetext\@mpeightcolfootnotetext
9347   \let\@mpLTRfootnotetext\@mpeightcolLTRfootnotetext
9348   \let\@mpRTLfootnotetext\@mpeightcolRTLfootnotetext
9349   \@bidi@after@Hy@hyperfootnotes
9350   \m@make@mpeightcol@footgroup{v@r}%
9351   \let\mp@footgroupv@r\@mpeightcol@footgroupv@r}
9352 \bidi@ensure@newcommand{\@eightcolfootnotetext}[1]{\insert\footinsv@r{\if@RTL@footnote\@RTLtr
9353   \def\baselinestretch{\m@m@footnote@spacing}%
9354   \reset@font\foottextfont
9355   \@preamfntext
9356   \protected@edef\@currentlabel{%
9357     \csname p@footnote\endcsname\@thefnmark}%
9358   \color@begingroup
9359     \@eightcolfootfmt{#1}%
9360   \color@endgroup}%
9361   \m@mmf@prepare}
9362 \bidi@ensure@newcommand{\@eightcolLTRfootnotetext}[1]{\insert\footinsv@r{\if@RTLcolumnfootnot
9363   \def\baselinestretch{\m@m@footnote@spacing}%
9364   \reset@font\LTRfoottextfont
9365   \@preamfntext
9366   \protected@edef\@currentlabel{%
9367     \csname p@footnote\endcsname\@thefnmark}%
9368   \color@begingroup
9369     \@eightcolLTRfootfmt{#1}%
9370   \color@endgroup}%
9371   \m@mmf@prepare}
9372 \bidi@ensure@newcommand{\@eightcolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
9373   \def\baselinestretch{\m@m@footnote@spacing}%
9374   \reset@font\RTLfoottextfont
9375   \@preamfntext
9376   \protected@edef\@currentlabel{%
9377     \csname p@footnote\endcsname\@thefnmark}%
9378   \color@begingroup
9379     \@eightcolRTLfootfmt{#1}%
9380   \color@endgroup}%
9381   \m@mmf@prepare}
9382 \bidi@ensure@newcommand{\@preameightfmt}{%
9383   \hsize .125\hsize
9384   \parindent=\z@
9385   \tolerance=5000\relax

```



```

9386 \leavevmode}
9387 \bidi@ensure@newcommand{\@eightcolfootfmt}[1]{%
9388 \@preameightfmt
9389 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
9390 \bidi@ensure@newcommand{\@eightcolLTRfootfmt}[1]{%
9391 \@preameightfmt
9392 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
9393 \bidi@ensure@newcommand{\@eightcolRTLfootfmt}[1]{%
9394 \@preameightfmt
9395 {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
9396 \bidi@ensure@newcommand{\@mpeightcolfootnotetext}[1]{%
9397 \global\setbox\@mpfootinsv\@r\@vbox{\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
9398 \unvbox\@mpfootinsv\@r
9399 \def\baselinestretch{\m@m@footnote@spacing}%
9400 \reset@font\foottextfont
9401 \hsize\columnwidth \@parboxrestore
9402 \protected@edef\@currentlabel{%
9403 \csname p@mpfootnote\endcsname\@thefnmark}%
9404 \color@begingroup
9405 \@eightcolfootfmt{#1}%
9406 \color@endgroup}%
9407 \m@mmf@prepare}
9408 \bidi@ensure@newcommand{\@mpeightcolLTRfootnotetext}[1]{%
9409 \global\setbox\@mpfootinsv\@r\@vbox{\@RTLfalse%
9410 \unvbox\@mpfootinsv\@r
9411 \def\baselinestretch{\m@m@footnote@spacing}%
9412 \reset@font\LTRfoottextfont
9413 \hsize\columnwidth \@parboxrestore
9414 \if@RTLcolumnfootnotes\beginL\fi
9415 \protected@edef\@currentlabel{%
9416 \csname p@mpfootnote\endcsname\@thefnmark}%
9417 \color@begingroup
9418 \@eightcolLTRfootfmt{#1}%
9419 \color@endgroup}%
9420 \m@mmf@prepare}
9421 \bidi@ensure@newcommand{\@mpeightcolRTLfootnotetext}[1]{%
9422 \global\setbox\@mpfootinsv\@r\@vbox{\@RTLtrue%
9423 \unvbox\@mpfootinsv\@r
9424 \def\baselinestretch{\m@m@footnote@spacing}%
9425 \reset@font\RTLfoottextfont
9426 \hsize\columnwidth \@parboxrestore
9427 \protected@edef\@currentlabel{%
9428 \csname p@mpfootnote\endcsname\@thefnmark}%
9429 \color@begingroup
9430 \@eightcolRTLfootfmt{#1}%
9431 \color@endgroup}%
9432 \m@mmf@prepare}
9433 \bidi@ensure@newcommand{\eightcolumnfootstyle}[1]{%
9434 \m@make@eightcolfootnotetext{#1}%
9435 \m@make@mpeightcolfootnotetext{#1}%

```



```

9436 \m@make@eightcolfootfmt{#1}%
9437 \m@make@eightcol@footgroup{#1}%
9438 \m@make@mpeightcol@footgroup{#1}%
9439 \m@make@footstart{#1}%
9440 \bidi@namelongdef{@footnotetext#1}##1{%
9441   \@nameuse{@eightcolfootnotetext#1}{##1}}%
9442 \bidi@namelongdef{@mpfootnotetext#1}##1{%
9443   \@nameuse{@mpeightcolfootnotetext#1}{##1}}%
9444 \@namedef{@footgroup#1}{\@nameuse{@eightcol@footgroup#1}}%
9445 \@namedef{@mp@footgroup#1}{\@nameuse{@mpeightcol@footgroup#1}}%
9446 \expandafter\dimen\csname footins#1\endcsname=2\footinsdim
9447 \expandafter\count\csname footins#1\endcsname=500\relax}
9448 \bidi@ensure@newcommand{\m@make@eightcolfootnotetext}[1]{%
9449   \bidi@namelongdef{@eightcolfootnotetext#1}##1{%
9450     \insert\@nameuse{footins#1}{%
9451       \def\baselinestretch{\m@m@footnote@spacing}%
9452       \reset@font\@nameuse{foottextfont#1}%
9453       \@preamfntext
9454       \protected@edef\@currentlabel{%
9455         \csname p@footnote#1\endcsname \@nameuse{@thefnmark#1}}%
9456       \color@begingroup
9457         \@nameuse{@eightcolfootfmt#1}{##1}%
9458       \color@endgroup}%
9459     \m@m@mmf@prepare}}
9460 \bidi@ensure@newcommand{\m@make@mpeightcolfootnotetext}[1]{%
9461   \bidi@namelongdef{@mpeightcolfootnotetext#1}##1{%
9462     \global\setbox\@nameuse{@mpfootins#1}\vbox{%
9463       \unvbox\@nameuse{@mpfootins#1}
9464       \def\baselinestretch{\m@m@footnote@spacing}%
9465       \reset@font\@nameuse{foottextfont#1}%
9466       \hsize\columnwidth \@parboxrestore
9467       \protected@edef\@currentlabel{%
9468         \csname p@mpfootnote#1\endcsname \@nameuse{@thefnmark#1}}%
9469       \color@begingroup
9470         \@nameuse{@eightcolfootfmt#1}{##1}%
9471       \color@endgroup}\m@m@mmf@prepare}}
9472 \bidi@ensure@newcommand{\m@make@eightcolfootfmt}[1]{%
9473   \@namedef{@eightcolfootfmt#1}##1{%
9474     \@preameightfmt
9475     {\@nameuse{footfootmark#1}\strut
9476     {\@nameuse{foottextfont#1}##1}\strut\par}\allowbreak}}
9477 \bidi@ensure@newcommand{\m@make@eightcol@footgroup}[1]{%
9478   \@namedef{@eightcol@footgroup#1}{%
9479     \def\baselinestretch{\m@m@footnote@spacing}%
9480     \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
9481     \m@m@rigidbalance{\@nameuse{footins#1}}{8}{\splittopskip}}}}
9482 \bidi@ensure@newcommand{\m@make@mpeightcol@footgroup}[1]{%
9483   \@namedef{@mpeightcol@footgroup#1}{%
9484     \def\baselinestretch{\m@m@footnote@spacing}%
9485     \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox

```



```

9486 \m@mrigidbalance{\@nameuse{@mpfootins#1}}{8}{\splittopskip}}
9487 \bidi@ensure@newcommand{\necolfootnotes}{%
9488 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
9489 \@bidi@before@Hy@hyperfootnotes
9490 \let\@footnotetext\@necolfootnotetext
9491 \let\@LTRfootnotetext\@necolLTRfootnotetext
9492 \let\@RTLfootnotetext\@necolRTLfootnotetext
9493 \dimen\footinsv@r=9\footinsdim
9494 \count\footinsv@r=111\relax
9495 \m@make@necol@footgroup{v@r}%
9496 \let\@footgroupv@r\@necol@footgroupv@r
9497 \let\@mpfootnotetext\@mpnecolfootnotetext
9498 \let\@mpLTRfootnotetext\@mpnecolLTRfootnotetext
9499 \let\@mpRTLfootnotetext\@mpnecolRTLfootnotetext
9500 \@bidi@after@Hy@hyperfootnotes
9501 \m@make@mpnecol@footgroup{v@r}%
9502 \let\mp@footgroupv@r\@mpnecol@footgroupv@r
9503 \bidi@ensure@newcommand{\@necolfootnotetext}[1]{\insert\footinsv@r{\if@RTL@footnote\@RTLtru
9504 \def\baselinestretch{\m@m@footnote@spacing}%
9505 \reset@font\foottextfont
9506 \@preamfntext
9507 \protected@edef\@currentlabel{%
9508 \csname p@footnote\endcsname\@thefnmark}%
9509 \color@begingroup
9510 \@necolfootfmt{#1}%
9511 \color@endgroup}%
9512 \m@mmf@prepare}
9513 \bidi@ensure@newcommand{\@necolLTRfootnotetext}[1]{\insert\footinsv@r{\if@RTLcolumnfootnote
9514 \def\baselinestretch{\m@m@footnote@spacing}%
9515 \reset@font\LTRfoottextfont
9516 \@preamfntext
9517 \protected@edef\@currentlabel{%
9518 \csname p@footnote\endcsname\@thefnmark}%
9519 \color@begingroup
9520 \@necolLTRfootfmt{#1}%
9521 \color@endgroup}%
9522 \m@mmf@prepare}
9523 \bidi@ensure@newcommand{\@necolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
9524 \def\baselinestretch{\m@m@footnote@spacing}%
9525 \reset@font\RTLfoottextfont
9526 \@preamfntext
9527 \protected@edef\@currentlabel{%
9528 \csname p@footnote\endcsname\@thefnmark}%
9529 \color@begingroup
9530 \@necolRTLfootfmt{#1}%
9531 \color@endgroup}%
9532 \m@mmf@prepare}
9533 \bidi@ensure@newcommand{\@preamninefmt}{%
9534 \hspace{.1\hspace}
9535 \parindent=\z@

```



```

9536 \tolerance=5000\relax
9537 \leavevmode}
9538 \bidi@ensure@newcommand{\@ninecolfootfmt}[1]{%
9539 \preamninefmt
9540 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
9541 \bidi@ensure@newcommand{\@ninecolLTRfootfmt}[1]{%
9542 \preamninefmt
9543 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
9544 \bidi@ensure@newcommand{\@ninecolRTLfootfmt}[1]{%
9545 \preamninefmt
9546 {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
9547 \bidi@ensure@newcommand{\@mpninecolfootnotetext}[1]{%
9548 \global\setbox\@mpfootinsv@r\vbox{\if@RTL@footnote@RTLtrue\else\@RTLfalse\fi%
9549 \unvbox\@mpfootinsv@r
9550 \def\baselinestretch{\m@{footnote@spacing}}%
9551 \reset@font\foottextfont
9552 \hsize\columnwidth \@parboxrestore
9553 \protected@edef\@currentlabel{%
9554 \csname p@mpfootnote\endcsname\@thefnmark}%
9555 \color@begingroup
9556 \@ninecolfootfmt{#1}%
9557 \color@endgroup}%
9558 \m@mmf@prepare}
9559 \bidi@ensure@newcommand{\@mpninecolLTRfootnotetext}[1]{%
9560 \global\setbox\@mpfootinsv@r\vbox{\@RTLfalse%
9561 \unvbox\@mpfootinsv@r
9562 \def\baselinestretch{\m@{footnote@spacing}}%
9563 \reset@font\LTRfoottextfont
9564 \hsize\columnwidth \@parboxrestore
9565 \if@RTLcolumnfootnotes\beginL\fi
9566 \protected@edef\@currentlabel{%
9567 \csname p@mpfootnote\endcsname\@thefnmark}%
9568 \color@begingroup
9569 \@ninecolLTRfootfmt{#1}%
9570 \color@endgroup}%
9571 \m@mmf@prepare}
9572 \bidi@ensure@newcommand{\@mpninecolRTLfootnotetext}[1]{%
9573 \global\setbox\@mpfootinsv@r\vbox{\@RTLtrue%
9574 \unvbox\@mpfootinsv@r
9575 \def\baselinestretch{\m@{footnote@spacing}}%
9576 \reset@font\RTLfoottextfont
9577 \hsize\columnwidth \@parboxrestore
9578 \protected@edef\@currentlabel{%
9579 \csname p@mpfootnote\endcsname\@thefnmark}%
9580 \color@begingroup
9581 \@ninecolRTLfootfmt{#1}%
9582 \color@endgroup}%
9583 \m@mmf@prepare}
9584 \bidi@ensure@newcommand{\ninecolumnfootstyle}[1]{%
9585 \m@make@ninecolfootnotetext{#1}%

```



```

9586 \m@make@mpninecolfootnotetext{#1}%
9587 \m@make@ninecolfootfmt{#1}%
9588 \m@make@ninecol@footgroup{#1}%
9589 \m@make@mpninecol@footgroup{#1}%
9590 \m@make@footstart{#1}%
9591 \bidi@namelongdef{@footnotetext#1}##1{%
9592     \@nameuse{@ninecolfootnotetext#1}{##1}}%
9593 \bidi@namelongdef{@mpfootnotetext#1}##1{%
9594     \@nameuse{@mpninecolfootnotetext#1}{##1}}%
9595 \@namedef{@footgroup#1}{\@nameuse{@ninecol@footgroup#1}}%
9596 \@namedef{@mp@footgroup#1}{\@nameuse{@mpninecol@footgroup#1}}%
9597 \expandafter\dimen\csname footins#1\endcsname=2\footinsdim
9598 \expandafter\count\csname footins#1\endcsname=500\relax}
9599 \bidi@ensure@newcommand{\m@make@ninecolfootnotetext}[1]{%
9600     \bidi@namelongdef{@ninecolfootnotetext#1}##1{%
9601         \insert\@nameuse{footins#1}{%
9602             \def\baselinestretch{\m@m@footnote@spacing}%
9603             \reset@font\@nameuse{foottextfont#1}%
9604             \@preamfntext
9605             \protected@edef\@currentlabel{%
9606                 \csname p@footnote#1\endcsname \@nameuse{@thefnmark#1}}%
9607             \color@begingroup
9608                 \@nameuse{@ninecolfootfmt#1}{##1}%
9609             \color@endgroup}%
9610             \m@m@m@prepare}}
9611 \bidi@ensure@newcommand{\m@make@mpninecolfootnotetext}[1]{%
9612     \bidi@namelongdef{@mpninecolfootnotetext#1}##1{%
9613         \global\setbox\@nameuse{@mpfootins#1}\vbox{%
9614             \unvbox\@nameuse{@mpfootins#1}
9615             \def\baselinestretch{\m@m@footnote@spacing}%
9616             \reset@font\@nameuse{foottextfont#1}%
9617             \hsize\columnwidth \@parboxrestore
9618             \protected@edef\@currentlabel{%
9619                 \csname p@mpfootnote#1\endcsname\@nameuse{@thefnmark#1}}%
9620             \color@begingroup
9621                 \@nameuse{@ninecolfootfmt#1}{##1}%
9622             \color@endgroup}\m@m@m@prepare}}
9623 \bidi@ensure@newcommand{\m@make@ninecolfootfmt}[1]{%
9624     \@namedef{@ninecolfootfmt#1}##1{%
9625         \@preamninefmt
9626         {\@nameuse{footfootmark#1}\strut
9627             {\@nameuse{foottextfont#1}##1}\strut\par}\allowbreak}}
9628 \bidi@ensure@newcommand{\m@make@ninecol@footgroup}[1]{%
9629     \@namedef{@ninecol@footgroup#1}{%
9630         \def\baselinestretch{\m@m@footnote@spacing}%
9631         \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
9632         \m@m@rigidbalance{\@nameuse{footins#1}}{9}{\splittopskip}}}%
9633 \bidi@ensure@newcommand{\m@make@mpninecol@footgroup}[1]{%
9634     \@namedef{@mpninecol@footgroup#1}{%
9635         \def\baselinestretch{\m@m@footnote@spacing}%

```



```

9636 \nameuse{foottextfont#1} \splittopskip=\ht\strutbox
9637 \m@rigrigidbodybalance{\@nameuse{@mpfootins#1}}{9}{\splittopskip}}
9638 \bidi@ensure@newcommand{\tencolumnfootnotes}{%
9639 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
9640 \@bidi@before@Hy@hyperfootnotes
9641 \let\@footnotetext\@tencolfootnotetext
9642 \let\@LTRfootnotetext\@tencolLTRfootnotetext
9643 \let\@RTLfootnotetext\@tencolRTLfootnotetext
9644 \dimen\footinsv@r=10\footinsdim
9645 \count\footinsv@r=100\relax
9646 \m@make@tencol@footgroup{v@r}%
9647 \let\@footgroupv@r\@tencol@footgroupv@r
9648 \let\@mpfootnotetext\@mptencolfootnotetext
9649 \let\@mpLTRfootnotetext\@mptencolLTRfootnotetext
9650 \let\@mpRTLfootnotetext\@mptencolRTLfootnotetext
9651 \@bidi@after@Hy@hyperfootnotes
9652 \m@make@mptencol@footgroup{v@r}%
9653 \let\mp@footgroupv@r\@mptencol@footgroupv@r
9654 \bidi@ensure@newcommand{\@tencolfootnotetext}[1]{\insert\footinsv@r{\if@RTL@footnote\@RTLtrue%
9655 \def\baselinestretch{\m@m@footnote@spacing}%
9656 \reset@font\foottextfont
9657 \@preamfntext
9658 \protected@edef\@currentlabel{%
9659 \csname p@footnote\endcsname\@thefnmark}%
9660 \color@begingroup
9661 \@tencolfootfmt{#1}%
9662 \color@endgroup}%
9663 \m@mmf@prepare}
9664 \bidi@ensure@newcommand{\@tencolLTRfootnotetext}[1]{\insert\footinsv@r{\if@RTLcolumnfootnotes%
9665 \def\baselinestretch{\m@m@footnote@spacing}%
9666 \reset@font\LTRfoottextfont
9667 \@preamfntext
9668 \protected@edef\@currentlabel{%
9669 \csname p@footnote\endcsname\@thefnmark}%
9670 \color@begingroup
9671 \@tencolLTRfootfmt{#1}%
9672 \color@endgroup}%
9673 \m@mmf@prepare}
9674 \bidi@ensure@newcommand{\@tencolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
9675 \def\baselinestretch{\m@m@footnote@spacing}%
9676 \reset@font\RTLfoottextfont
9677 \@preamfntext
9678 \protected@edef\@currentlabel{%
9679 \csname p@footnote\endcsname\@thefnmark}%
9680 \color@begingroup
9681 \@tencolRTLfootfmt{#1}%
9682 \color@endgroup}%
9683 \m@mmf@prepare}
9684 \bidi@ensure@newcommand{\@preamtenfmt}{%
9685 \hspace .1\hspace

```





```

9686 \parindent=\z@
9687 \tolerance=5000\relax
9688 \leavevmode}
9689 \bidi@ensure@newcommand{\@tencolfootfmt}[1]{%
9690 \@preamtenfmt
9691 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
9692 \bidi@ensure@newcommand{\@tencolLTRfootfmt}[1]{%
9693 \@preamtenfmt
9694 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
9695 \bidi@ensure@newcommand{\@tencolRTLfootfmt}[1]{%
9696 \@preamtenfmt
9697 {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
9698 \bidi@ensure@newcommand{\@mptencolfootnotetext}[1]{%
9699 \global\setbox\@mpfootinsv\@r\@vbox{\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
9700 \unvbox\@mpfootinsv\@r
9701 \def\baselinestretch{\m@m@footnote@spacing}%
9702 \reset@font\foottextfont
9703 \hsize\columnwidth \@parboxrestore
9704 \protected@edef\@currentlabel{%
9705 \csname p@mpfootnote\endcsname\@thefnmark}%
9706 \color@begingroup
9707 \@tencolfootfmt{#1}%
9708 \color@endgroup}%
9709 \m@m@mmf@prepare}
9710 \bidi@ensure@newcommand{\@mptencolLTRfootnotetext}[1]{%
9711 \global\setbox\@mpfootinsv\@r\@vbox{\@RTLfalse%
9712 \unvbox\@mpfootinsv\@r
9713 \def\baselinestretch{\m@m@footnote@spacing}%
9714 \reset@font\LTRfoottextfont
9715 \hsize\columnwidth \@parboxrestore
9716 \if@RTLcolumnfootnotes\beginL\fi
9717 \protected@edef\@currentlabel{%
9718 \csname p@mpfootnote\endcsname\@thefnmark}%
9719 \color@begingroup
9720 \@tencolLTRfootfmt{#1}%
9721 \color@endgroup}%
9722 \m@m@mmf@prepare}
9723 \bidi@ensure@newcommand{\@mptencolRTLfootnotetext}[1]{%
9724 \global\setbox\@mpfootinsv\@r\@vbox{\@RTLtrue%
9725 \unvbox\@mpfootinsv\@r
9726 \def\baselinestretch{\m@m@footnote@spacing}%
9727 \reset@font\RTLfoottextfont
9728 \hsize\columnwidth \@parboxrestore
9729 \protected@edef\@currentlabel{%
9730 \csname p@mpfootnote\endcsname\@thefnmark}%
9731 \color@begingroup
9732 \@tencolRTLfootfmt{#1}%
9733 \color@endgroup}%
9734 \m@m@mmf@prepare}
9735 \bidi@ensure@newcommand{\tencolumnfootstyle}[1]{%

```



```

9736 \m@make@tencolfootnotetext{#1}%
9737 \m@make@mptencolfootnotetext{#1}%
9738 \m@make@tencolfootfmt{#1}%
9739 \m@make@tencol@footgroup{#1}%
9740 \m@make@mptencol@footgroup{#1}%
9741 \m@make@footstart{#1}%
9742 \bidi@namelongdef{@footnotetext#1}##1{%
9743   \@nameuse{@tencolfootnotetext#1}{##1}}%
9744 \bidi@namelongdef{@mpfootnotetext#1}##1{%
9745   \@nameuse{@mptencolfootnotetext#1}{##1}}%
9746 \@namedef{@footgroup#1}{\@nameuse{@tencol@footgroup#1}}%
9747 \@namedef{mp@footgroup#1}{\@nameuse{@mptencol@footgroup#1}}%
9748 \expandafter\dimen\csname footins#1\endcsname=2\footinsdim
9749 \expandafter\count\csname footins#1\endcsname=500\relax}
9750 \bidi@ensure@newcommand{\m@make@tencolfootnotetext}[1]{%
9751   \bidi@namelongdef{@tencolfootnotetext#1}##1{%
9752     \insert\@nameuse{footins#1}{%
9753       \def\baselinestretch{\m@m@footnote@spacing}%
9754       \reset@font\@nameuse{foottextfont#1}%
9755       \@preamfntext
9756       \protected@edef\@currentlabel{%
9757         \csname p@footnote#1\endcsname \@nameuse{@thefnmark#1}}%
9758       \color@begingroup
9759         \@nameuse{@tencolfootfmt#1}{##1}%
9760       \color@endgroup}%
9761       \m@mmf@prepare}}
9762 \bidi@ensure@newcommand{\m@make@mptencolfootnotetext}[1]{%
9763   \bidi@namelongdef{@mptencolfootnotetext#1}##1{%
9764     \global\setbox\@nameuse{@mpfootins#1}\vbox{%
9765       \unvbox\@nameuse{@mpfootins#1}
9766       \def\baselinestretch{\m@m@footnote@spacing}%
9767       \reset@font\@nameuse{foottextfont#1}%
9768       \hsize\columnwidth \@parboxrestore
9769       \protected@edef\@currentlabel{%
9770         \csname p@mpfootnote#1\endcsname\@nameuse{@thefnmark#1}}%
9771       \color@begingroup
9772         \@nameuse{@tencolfootfmt#1}{##1}%
9773       \color@endgroup}\m@mmf@prepare}}
9774 \bidi@ensure@newcommand{\m@make@tencolfootfmt}[1]{%
9775   \@namedef{@tencolfootfmt#1}##1{%
9776     \@preamtenfmt
9777     {\@nameuse{footfootmark#1}\strut
9778      {\@nameuse{foottextfont#1}##1}\strut\par}\allowbreak}}
9779 \bidi@ensure@newcommand{\m@make@tencol@footgroup}[1]{%
9780   \@namedef{@tencol@footgroup#1}{%
9781     \def\baselinestretch{\m@m@footnote@spacing}%
9782     \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
9783     \m@mrigidbalance{\@nameuse{footins#1}}{10}{\splittopskip}}}%
9784 \bidi@ensure@newcommand{\m@make@mptencol@footgroup}[1]{%
9785   \@namedef{@mptencol@footgroup#1}{%

```



```

9786 \def\baselinestretch{\m@m@footnote@spacing}%
9787 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
9788 \m@mrigidbalance{\@nameuse{@mpfootins#1}}{10}{\splittopskip}}}}
9789 \bidi@ensure@newcommand{\m@munvxh}[1]{%
9790   \setbox0=\vbox{\unvbox#1%
9791     \global\setbox1=\lastbox}%
9792   \unhbox1
9793   \unskip
9794   \unskip
9795   \unpenalty
9796   \hskip\m@mipn@skip}
9797 \bidi@ensure@newcommand{\m@mungebox}{%
9798   \setbox0=\hbox{\m@munvxh0}%
9799   \dp0=\z@
9800   \ht0=\footfudgefactor\wd0
9801   \box0
9802   \penalty0}
9803 \newskip\m@mipn@skip
9804 \bidi@ensure@newcommand*{\m@minterparanoteglua}[1]{%
9805   {\foottextfont\global\m@mipn@skip=#1\relax}}
9806 \m@minterparanoteglua{1em plus.4em minus.4em}
9807 \@ifpackageloaded{multicol}{%
9808 \bidi@ensure@newcommand*{\m@mmakehboxofhboxes}{%
9809   \if@parafootRTL\@RTLtrue\else\@RTLfalse\fi%
9810   \hsize\textwidth%
9811   \setbox0=\hbox{}%
9812   \loop
9813     \unpenalty
9814     \setbox2=\lastbox
9815     \ifhbox2
9816       \setbox0=\hbox{\box2\unhbox0}
9817     \repeat}%
9818 }{%
9819 \bidi@ensure@newcommand*{\m@mmakehboxofhboxes}{%
9820   \if@parafootRTL\@RTLtrue\else\@RTLfalse\fi%
9821   \setbox0=\hbox{}%
9822   \loop
9823     \unpenalty
9824     \setbox2=\lastbox
9825     \ifhbox2
9826       \setbox0=\hbox{\box2\unhbox0}
9827     \repeat}}
9828 \bidi@ensure@newcommand*{\m@mremovehboxes}{\setbox0=\lastbox
9829   \ifhbox0{\m@mremovehboxes}\unhbox0 \fi}
9830 \bidi@ensure@newcommand*{\footfudgefiddle}{64}
9831 \bidi@ensure@newcommand{\paragraphfootnotes}{%
9832   \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
9833   \@bidi@before@Hy@hyperfootnotes
9834   \let\@footnotetext\@parafootnotetext
9835   \let\@LTRfootnotetext\@paraLTRfootnotetext

```



```

9836 \let\@RTLfootnotetext\@paraRTLfootnotetext
9837 \dimen\footinsv@r=\footinsdim
9838 \count\footinsv@r=1000\relax
9839 \m@make@para@footgroup{v@r}%
9840 \let\@footgroupv@r\@para@footgroupv@r
9841 \let\@mpfootnotetext\@mpparafootnotetext
9842 \let\@mpLTRfootnotetext\@mpparaLTRfootnotetext
9843 \let\@mpRTLfootnotetext\@mpparaRTLfootnotetext
9844 \@bidi@after@Hy@hyperfootnotes
9845 \m@make@mppara@footgroup{v@r}%
9846 \let\mp@footgroupv@r\@mppara@footgroupv@r
9847 \begingroup
9848 \def\baselinestretch{\m@m@footnote@spacing}%
9849 \foottextfont
9850 \@tempdima\normalbaselineskip
9851 \multiply \@tempdima \@cclvi
9852 \@tempdimb \columnwidth
9853 \divide \@tempdimb \@cclvi
9854 \divide \@tempdima \@tempdimb
9855 \xdef\footfudgefactor{\strip@pt\@tempdima}%
9856 \endgroup
9857 }
9858 \bidi@ensure@newcommand{\@parafootnotetext}[1]{\insert\footinsv@r{%
9859 \let\bidi@RTL@everypar\@empty%
9860 \def\baselinestretch{\m@m@footnote@spacing}%
9861 \reset@font\foottextfont
9862 \@preamfntext
9863 \protected@edef\@currentlabel{%
9864 \csname p@footnote\endcsname\@thefnmark}%
9865 \setbox0=\vbox{\hsize=\maxdimen
9866 \color@begingroup
9867 \noindent \@parafootfmt{\if@RTL@footnote\beginR\else\beginL\fi#1\if@RTL@footnote\endR\else\beginL\fi}%
9868 \color@endgroup}%
9869 \m@mungebox}\m@m@mmf@prepare}
9870 \bidi@ensure@newcommand{\@paraLTRfootnotetext}[1]{\insert\footinsv@r{%
9871 \let\bidi@RTL@everypar\@empty%
9872 \def\baselinestretch{\m@m@footnote@spacing}%
9873 \reset@font\LTRfoottextfont
9874 \@preamfntext
9875 \protected@edef\@currentlabel{%
9876 \csname p@footnote\endcsname\@thefnmark}%
9877 \setbox0=\vbox{\hsize=\maxdimen
9878 \color@begingroup
9879 \noindent \@paraLTRfootfmt{\beginL#1\endL}%
9880 \color@endgroup}%
9881 \m@mungebox}\m@m@mmf@prepare}
9882 \bidi@ensure@newcommand{\@paraRTLfootnotetext}[1]{\insert\footinsv@r{%
9883 \let\bidi@RTL@everypar\@empty%
9884 \def\baselinestretch{\m@m@footnote@spacing}%
9885 \reset@font\RTLfoottextfont

```



```

9886 \@preamfntext
9887 \protected@edef\@currentlabel{%
9888   \csname p@footnote\endcsname\@thefnmark}%
9889 \setbox0=\vbox{\hsize=\maxdimen
9890   \color@begingroup
9891     \noindent \@paraRTLfootfmt{\beginR#1\endR}%
9892   \color@endgroup}%
9893 \m@mungebox}\m@mmf@prepare}
9894 \bidi@ensure@newcommand{\@parafootfmt}[1]{%
9895   \parindent=\z@
9896   \parfillskip=0pt \@plus 1fil
9897   {\footfootmark\strut {\foottextfont #1}\penalty-10}}
9898 \bidi@ensure@newcommand{\@paraLTRfootfmt}[1]{%
9899   \parindent=\z@
9900   \parfillskip=0pt \@plus 1fil
9901   {\LTRfootfootmark\strut {\LTRfoottextfont #1}\penalty-10}}
9902 \bidi@ensure@newcommand{\@paraRTLfootfmt}[1]{%
9903   \parindent=\z@
9904   \parfillskip=0pt \@plus 1fil
9905   {\RTLfootfootmark\strut {\RTLfoottextfont #1}\penalty-10}}
9906 \bidi@ensure@newcommand{\@mpparafootnotetext}[1]{%
9907   \global\setbox\@mpfootinsv\vbox{%
9908     \let\bidi@RTL@everypar\@empty%
9909     \def\baselinestretch{\m@m@footnote@spacing}%
9910     \unvbox\@mpfootinsv@r
9911     \reset@font\foottextfont
9912     \hsize\columnwidth \@parboxrestore
9913     \protected@edef\@currentlabel{%
9914       \csname p@mpfootnote\endcsname\@thefnmark}%
9915     \setbox0=\vbox{\hsize=\maxdimen
9916       \color@begingroup
9917         \noindent \@parafootfmt{\if@RTL@footnote\beginR\else\beginL\fi#1\if@RTL@footnote\endR\else\beginL\fi#1\endL}%
9918       \color@endgroup}%
9919     \m@mungebox}\m@mmf@prepare}
9920 \bidi@ensure@newcommand{\@mpparaLTRfootnotetext}[1]{%
9921   \global\setbox\@mpfootinsv\vbox{%
9922     \let\bidi@RTL@everypar\@empty%
9923     \def\baselinestretch{\m@m@footnote@spacing}%
9924     \unvbox\@mpfootinsv@r
9925     \reset@font\LTRfoottextfont
9926     \hsize\columnwidth \@parboxrestore
9927     \protected@edef\@currentlabel{%
9928       \csname p@mpfootnote\endcsname\@thefnmark}%
9929     \setbox0=\vbox{\hsize=\maxdimen
9930       \color@begingroup
9931         \noindent \@paraLTRfootfmt{\beginL#1\endL}%
9932       \color@endgroup}%
9933     \m@mungebox}\m@mmf@prepare}
9934 \bidi@ensure@newcommand{\@mpparaRTLfootnotetext}[1]{%
9935   \global\setbox\@mpfootinsv\vbox{%

```



```

9936 \let\bidirTL@everypar\@empty%
9937 \def\baselinestretch{\m@m@footnote@spacing}%
9938 \unvbox\@mpfootinsv@r
9939 \reset@font\RTLfoottextfont
9940 \hsize\columnwidth \@parboxrestore
9941 \protected@edef\@currentlabel{%
9942   \csname p@mpfootnote\endcsname\@thefnmark}%
9943 \setbox0=\vbox{\hsize=\maxdimen
9944   \color@begingroup
9945   \noindent \@paraRTLfootfmt{\beginR#1\endR}%
9946   \color@endgroup}%
9947 \m@mungebox\m@mmf@prepare}
9948 \bidi@ensure@newcommand{\paragraphfootstyle}[1]{%
9949   \m@make@parafootnotetext{#1}%
9950   \m@make@mpparafootnotetext{#1}%
9951   \m@make@parafootfmt{#1}%
9952   \m@make@para@footgroup{#1}%
9953   \m@make@mppara@footgroup{#1}%
9954   \m@make@para@footstart{#1}%
9955   \bidi@namelongdef{\@footnotetext#1}##1{%
9956     \@nameuse{\@parafootnotetext#1}{##1}}%
9957   \bidi@namelongdef{\@mpfootnotetext#1}##1{%
9958     \@nameuse{\@mpparafootnotetext#1}{##1}}%
9959   \@namedef{\@footgroup#1}{\@nameuse{\@para@footgroup#1}}%
9960   \@namedef{\mp@footgroup#1}{\@nameuse{\@mppara@footgroup#1}}%
9961   \@namedef{\@footstart#1}{\@nameuse{\@para@footstart#1}}%
9962   \expandafter\dimen\csname footins#1\endcsname=\footinsdim
9963   \expandafter\count\csname footins#1\endcsname=1000\relax
9964   \begingroup
9965   \def\baselinestretch{\m@m@footnote@spacing}%
9966   \@nameuse{\foottextfont#1}%
9967   \@tempdima\normalbaselineskip
9968   \multiply \@tempdima \cclvi
9969   \@tempdimb \columnwidth
9970   \divide \@tempdimb \cclvi
9971   \divide \@tempdima \@tempdimb
9972   \xdef\footfudgefactor{\strip@pt\@tempdima}%
9973   \endgroup
9974 }
9975 \bidi@ensure@newcommand{\m@make@parafootnotetext}[1]{%
9976 \bidi@namelongdef{\@parafootnotetext#1}##1{%
9977   \insert\@nameuse{\footins#1}{
9978 \def\baselinestretch{\m@m@footnote@spacing}%
9979 \reset@font\@nameuse{\foottextfont#1}%
9980 \@preamfntext
9981 \protected@edef\@currentlabel{%
9982   \csname p@footnote#1\endcsname \@nameuse{\@thefnmark#1}}%
9983 \setbox0=\vbox{\hsize=\maxdimen
9984   \color@begingroup
9985   \noindent \@nameuse{\@parafootfmt#1}{##1}%

```



```

9986 \color@endgroup}%
9987 \m@mungebox}\m@mmf@prepare}}
9988 \bidi@ensure@newcommand{\m@make@mpparafootnotetext}[1]{%
9989 \bidi@namelongdef{@mpparafootnotetext#1}##1{%
9990 \global\setbox\@nameuse{@mpfootins#1}\vbox{%
9991 \unvbox\@nameuse{@mpfootins#1}
9992 \def\baselinestretch{\m@m@footnote@spacing}%
9993 \reset@font\@nameuse{foottextfont#1}%
9994 \hsize\columnwidth \@parboxrestore
9995 \protected@edef\@currentlabel{%
9996 \csname p@mpparfootnote#1\endcsname\@nameuse{@thefnmark#1}}%
9997 \setbox0=\vbox{\hsize=\maxdimen
9998 \color@begingroup
9999 \noindent \@nameuse{@parafootfmt#1}##1}%
10000 \color@endgroup}%
10001 \m@mungebox}\m@mmf@prepare}}
10002 \bidi@ensure@newcommand{\m@make@parafootfmt}[1]{%
10003 \bidi@namelongdef{@parafootfmt#1}##1{%
10004 \parindent=\z@
10005 \parfillskip=0pt \@plus 1fil
10006 {\@nameuse{footfootmark#1}\strut
10007 {\@nameuse{foottextfont#1}##1}\penalty-10}}
10008 \bidi@ensure@newcommand{\m@make@para@footgroup}[1]{%
10009 \@namedef{@para@footgroup#1}{%
10010 \unvbox\@nameuse{footins#1}
10011 \m@mmakehboxofhboxes
10012 \setbox0=\hbox{\unhbox0 \m@mremovehboxes}%
10013 \@parboxrestore%
10014 \def\baselinestretch{\m@m@footnote@spacing}%
10015 \@nameuse{foottextfont#1}%
10016 \noindent\unhbox0\par}}
10017 \bidi@ensure@newcommand{\m@make@mppara@footgroup}[1]{%
10018 \@namedef{@mppara@footgroup#1}{%
10019 \unvbox\@nameuse{@mpfootins#1}
10020 \m@mmakehboxofhboxes
10021 \setbox0=\hbox{\unhbox0 \m@mremovehboxes}%
10022 \def\baselinestretch{\m@m@footnote@spacing}%
10023 \@nameuse{foottextfont#1}%
10024 \noindent\unhbox0\par}}
10025 \bidi@ensure@newcommand{\m@make@para@footstart}[1]{%
10026 \@namedef{@para@footstart#1}{%
10027 \vskip\bigskipamount
10028 \leftskip=\z@
10029 \rightskip=\z@
10030 \parindent=\z@
10031 \vskip\skip\@nameuse{footins#1}%
10032 \footnoterule}}
10033 \bidi@ensure@newcommand*{\m@m@makecolfloats}{%
10034 \xdef\@freelist{\@freelist\@midlist}%
10035 \global\let\@midlist\@empty

```



```

10036 \@combinefloats}
10037 \bidi@ensure@newcommand*{\m@m@makecoltext}{%
10038   \ifvbox\@kludgeins
10039     \@makespecialcolbox
10040   \else
10041     \setbox\@outputbox \vbox to\@colht{%
10042       \@texttop
10043       \dimen@ \dp\@outputbox
10044       \unvbox \@outputbox
10045       \vskip -\dimen@
10046       \@textbottom}%
10047   \fi}
10048 \bidi@ensure@newcommand*{\m@m@makecolintro}{%
10049 \bidi@ensure@newcommand*{\m@mopfootnote}{\setbox\@outputbox \vbox{%
10050   \boxmaxdepth\@maxdepth
10051   \@tempdima\dp\@cclv
10052   \unvbox\@cclv
10053   \vskip-\@tempdima
10054   \bidi@mopfn@bottom
10055   \vskip \skip\footins
10056   \color@begingroup
10057     \normalcolor
10058     \footnoterule
10059     \unvbox \footins
10060   \color@endgroup}}
10061 \newcommand*{\bidi@mopfootnotebf}{%
10062   \setbox\@outputbox \vbox{%
10063     \boxmaxdepth\@maxdepth
10064     \unvbox\@outputbox
10065     \bidi@mopfn@bottom
10066     \vskip\skip\footins
10067     \color@begingroup
10068       \normalcolor
10069       \footnoterule
10070       \unvbox \footins
10071     \color@endgroup}}
10072 \gdef\mem@makecol{%
10073   \m@m@makecolintro
10074   \ifvoid\footins
10075     \setbox\@outputbox \box\@cclv
10076   \else
10077     \m@mopfootnote
10078   \fi
10079   \m@mdoextrafeet
10080   \m@m@makecolfloats
10081   \m@m@makecoltext
10082   \global \maxdepth \@maxdepth}
10083 \gdef\bidi@makecolbf{%
10084   \m@m@makecolintro
10085   \setbox\@outputbox \box\@cclv

```





```

10086 \m@m@makecolfloats
10087 \ifvoid\footins
10088 \else
10089 \bidi@mopfootnotebf
10090 \fi
10091 \m@mdoextrafeet
10092 \m@m@makecoltext
10093 \global \maxdepth \@maxdepth}
10094 \newcommand{\FeetAboveFloat}{\gdef\@makecol{\mem@makecol}}
10095 \newcommand{\FeetBelowFloat}{\gdef\@makecol{\bidi@makecolbf}}
10096 \newcommand\FeetAtBottom{\def\bidi@mopfn@bottom{\vfill\relax}}
10097 \newcommand\FeetBelowRagged{\let\bidi@mopfn@bottom\relax}
10098 \FeetAboveFloat
10099 \FeetBelowRagged

```

## 7.55 extreport-xetex-bidi.def

```

10100 \ProvidesFile{extreport-xetex-bidi.def}[2017/06/09 v0.3 bidi adaptations for extreport class]
10101 \renewcommand*\l@part[2]{%
10102 \ifnum \c@tocdepth >-2\relax
10103 \addpenalty{-\@highpenalty}%
10104 \addvspace{2.25em \@plus\p@}%
10105 \begingroup
10106 \setlength\@tempdima{3em}%
10107 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
10108 \parfillskip -\@pnumwidth
10109 {\leavevmode
10110 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
10111 \nobreak
10112 \global\@nobreaktrue
10113 \everypar{\global\@nobreakfalse\everypar{}}%
10114 \endgroup
10115 \fi}
10116 \renewcommand*\l@chapter[2]{%
10117 \ifnum \c@tocdepth >\m@ne
10118 \addpenalty{-\@highpenalty}%
10119 \vskip 1.0em \@plus\p@
10120 \setlength\@tempdima{1.5em}%
10121 \begingroup
10122 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
10123 \parfillskip -\@pnumwidth
10124 \leavevmode \bfseries
10125 \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
10126 \hskip -\if@RTL\rightskip\else\leftskip\fi
10127 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
10128 \penalty\@highpenalty
10129 \endgroup
10130 \fi}
10131 \def\@makechapterhead#1{%
10132 \vspace*{50\p@}%

```



```

10133 {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont
10134 \ifnum \c@secnumdepth >\m@ne
10135 \huge\bfseries \@chapapp\space \thechapter
10136 \par\nobreak
10137 \vskip 20\p@
10138 \fi
10139 \interlinepenalty\@M
10140 \Huge \bfseries #1\par\nobreak
10141 \vskip 40\p@
10142 }}
10143 \def\@makeschapterhead#1{%
10144 \vspace*{50\p@}%
10145 {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
10146 \normalfont
10147 \interlinepenalty\@M
10148 \Huge \bfseries #1\par\nobreak
10149 \vskip 40\p@
10150 }}
10151 \renewcommand\left@footnoterule{%
10152 \kern-3\p@
10153 \hrule\@width.4\columnwidth
10154 \kern2.6\p@}
10155 \renewcommand\right@footnoterule{%
10156 \kern-3\p@
10157 \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
10158 \kern2.6\p@}
10159 \renewenvironment{thebibliography}[1]
10160 {\chapter*{\bibname
10161 \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}}%
10162 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
10163 \bidi@thebibliography@font@hook%
10164 \list{\@biblabel{\@arabic\c@enumiv}}%
10165 {\settowidth\labelwidth{\@biblabel{#1}}%
10166 \leftmargin\labelwidth
10167 \advance\leftmargin\labelsep
10168 \@openbib@code
10169 \usecounter{enumiv}%
10170 \let\p@enumiv\@empty
10171 \renewcommand\theenumiv{\@arabic\c@enumiv}}%
10172 \sloppy\clubpenalty4000\widowpenalty4000%
10173 \sfcode`. \.\@m}
10174 {\def\@noitemerr
10175 {\@latex@warning{Empty `thebibliography' environment}}%
10176 \endlist}
10177 \if@titlepage
10178 \renewcommand\maketitle{\begin{titlepage}%
10179 \let\footnotesize\small
10180 \let\right@footnoterule\relax
10181 \let\left@footnoterule\relax
10182 \let\textwidth\footnoterule\relax

```



```

10183 \let \footnote \thanks
10184 \null\vfil
10185 \vskip 60\p@
10186 \begin{center}%
10187   {\LARGE \@title \par}%
10188   \vskip 3em%
10189   {\large
10190    \lineskip .75em%
10191    \begin{tabular}[t]{c}%
10192     \@author
10193     \end{tabular}\par}%
10194   \vskip 1.5em%
10195   {\large \@date \par}%           % Set date in \large size.
10196 \end{center}\par
10197 \@thanks
10198 \vfil\null
10199 \end{titlepage}%
10200 \setcounter{footnote}{0}%
10201 \global\let\thanks\relax
10202 \global\let\maketitle\relax
10203 \global\let\@thanks\@empty
10204 \global\let\@author\@empty
10205 \global\let\@date\@empty
10206 \global\let\@title\@empty
10207 \global\let\ttitle\relax
10208 \global\let\author\relax
10209 \global\let\date\relax
10210 \global\let\and\relax
10211 }
10212 \else
10213 \renewcommand\maketitle{\par
10214   \begingroup
10215     \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
10216     \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
10217     \long\def\@makefntext##1{\parindent 1em\noindent
10218       \hb@xt@1.8em{%
10219         \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
10220     \if@twocolumn
10221       \ifnum \col@number=\@one
10222         \@maketitle
10223       \else
10224         \twocolumn[\@maketitle]%
10225       \fi
10226     \else
10227       \newpage
10228       \global\@topnum\z@   % Prevents figures from going at top of page.
10229       \@maketitle
10230     \fi
10231     \thispagestyle{plain}\@thanks
10232   \endgroup

```



```

10233 \setcounter{footnote}{0}%
10234 \global\let\thanks\relax
10235 \global\let\maketitle\relax
10236 \global\let\@maketitle\relax
10237 \global\let\@thanks\@empty
10238 \global\let\@author\@empty
10239 \global\let\@date\@empty
10240 \global\let\@title\@empty
10241 \global\let\title\relax
10242 \global\let\author\relax
10243 \global\let\date\relax
10244 \global\let\and\relax
10245 }
10246 \def\@maketitle{%
10247   \newpage
10248   \null
10249   \vskip 2em%
10250   \begin{center}%
10251     \let \footnote \thanks
10252     {\LARGE \@title \par}%
10253     \vskip 1.5em%
10254     {\large
10255       \lineskip .5em%
10256       \begin{tabular}[t]{c}%
10257         \@author
10258       \end{tabular}\par}%
10259     \vskip 1em%
10260     {\large \@date}%
10261   \end{center}%
10262   \par
10263   \vskip 1.5em}
10264 \fi
10265 \renewcommand\thesection {\thechapter\@SepMark\@arabic\c@section}
10266 \renewcommand\thesubsection {\thesection\@SepMark\@arabic\c@subsection}
10267 \renewcommand\thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
10268 \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
10269 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
10270 \renewcommand\theequation{%
10271   \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@equation}
10272 \renewcommand\thefigure{%
10273   \ifnum \c@chapter>\z@\thechapter\@SepMark\fi \@arabic\c@figure}
10274 \renewcommand\thetable{%
10275   \ifnum \c@chapter>\z@\thechapter\@SepMark\fi\@arabic\c@table}

```

## 7.56 fancybox-xetex-bidi.def

```

10276 \ProvidesFile{fancybox-xetex-bidi.def}[2013/05/01 v0.1 bidi adaptations for fancybox package]
10277 \def\fancy@oval#1#2#3{%
10278   \boxmaxdepth \maxdimen
10279   \@ovttrue \@ovbtrue \@ovltrue \@ovrtrue

```



```

10280 \@tfor\@tempa :=#3\do{\csname @ov\@tempa false\endcsname}%
10281 \@ovxx#1\relax
10282 \advance\@ovxx-\@wholewidth
10283 \@ovyy#2\relax
10284 \advance\@ovyy-\@wholewidth
10285 \@tempdimb \ifdim \@ovyy >\@ovxx \@ovxx\else \@ovyy \fi
10286 \advance\@tempdimb-2\p@
10287 \ifdim\@tempdimb>\the@cornersize\relax
10288 \@tempdimb=\the@cornersize
10289 \fi
10290 \@getcirc\@tempdimb
10291 \@ovro\ht\@tempboxa \@ovri\dp\@tempboxa
10292 \@ovdx\@ovxx \advance\@ovdx-\@tempdima \divide\@ovdx \tw@
10293 \@ovdy\@ovyy \advance\@ovdy-\@tempdima \divide\@ovdy \tw@
10294 \@circlefnt
10295 \setbox\@tempboxa\hbox{\beginL%
10296   \if@ovr \@ovvert32\kern -\@tempdima \fi
10297   \if@ovl \kern \@ovxx \@ovvert01\kern -\@tempdima \kern -\@ovxx \fi
10298   \if@ovt \@ovhorz \kern -\@ovxx \fi
10299   \if@ovb \raise \@ovyy \@ovhorz \fi\endL}%
10300 \advance\@ovdx\@ovro
10301 \advance\@ovdy\@ovro
10302 \advance\@ovxx\@wholewidth
10303 \wd\@tempboxa=\@ovxx
10304 \dp\@tempboxa=\z@}

```

## 7.57 fancyhdr-xetex-bidi.def

```

10305 \ProvidesFile{fancyhdr-xetex-bidi.def}[2016/11/30 v0.6 bidi adaptations for fancyhdr package]
10306
10307 \let\fnch@everypar\everypar%
10308
10309 \def\@fancyhead#1#2#3#4#5{#1\hbox to\headwidth{\fancy@reset
10310   \@fancyvbox\headheight{\hbox
10311     {\rlap{\parbox[b]{\headwidth}{\bidi@raggedright#2}}\hfill
10312     \parbox[b]{\headwidth}{\centering#3}\hfill
10313     \llap{\parbox[b]{\headwidth}{\bidi@raggedleft#4}}}\headrule}}#5}
10314
10315 \def\@fancyfoot#1#2#3#4#5{#1\hbox to\headwidth{\fancy@reset
10316   \@fancyvbox\footskip{\footrule
10317     \hbox{\rlap{\parbox[t]{\headwidth}{\bidi@raggedright#2}}\hfill
10318     \parbox[t]{\headwidth}{\centering#3}\hfill
10319     \llap{\parbox[t]{\headwidth}{\bidi@raggedleft#4}}}\footrule}}#5}
10320

```

## 7.58 fix2col-xetex-bidi.def

```

10321 \ProvidesFile{fix2col-xetex-bidi.def}[2017/05/06 v0.4 bidi adaptations for fix2col package]
10322 \def\RTL@outputdblcol{%
10323   \if@firstcolumn
10324     \global\@firstcolumnfalse

```



```

10325 \global\setbox\@leftcolumn\copy\@outputbox
10326 \splitmaxdepth\maxdimen
10327 \vbadness\maxdimen
10328 \setbox\@outputbox\vsplit\@outputbox to\maxdimen
10329 \toks@\expandafter{\topmark}%
10330 \xdef\@firstcoltopmark{\the\toks@}%
10331 \toks@\expandafter{\splitfirstmark}%
10332 \xdef\@firstcolfirstmark{\the\toks@}%
10333 \ifx\@firstcolfirstmark\@empty
10334 \global\let\@setmarks\relax
10335 \else
10336 \gdef\@setmarks{%
10337 \let\firstmark\@firstcolfirstmark
10338 \let\topmark\@firstcoltopmark}%
10339 \fi
10340 \else \global\@firstcolumntrue
10341 \setbox\@outputbox \vbox {\hbox to\textwidth {%
10342 \hskip \columnwidth
10343 \hfil \vrule width\columnseprule \hfil
10344 \hbox to\columnwidth {%
10345 \bidi@firstcolumn@status@write%
10346 \box\@leftcolumn \hss}%
10347 \hskip -\textwidth
10348 \hbox to\columnwidth{%
10349 \bidi@lastcolumn@status@write%
10350 \box\@outputbox \hss}%
10351 \hskip \columnsep
10352 \hskip \columnwidth }}%
10353 \@combinedblfloats \@setmarks \@outputpage
10354 \begingroup \@dblfloatplacement \@startdblcolumn
10355 \@whiles\if@fcolmade \fi
10356 {\@outputpage \@startdblcolumn }\endgroup
10357 \fi}
10358 \def\LTR@outputdblcol{%
10359 \if@firstcolumn
10360 \global\@firstcolumnfalse
10361 \global\setbox\@leftcolumn\copy\@outputbox
10362 \splitmaxdepth\maxdimen
10363 \vbadness\maxdimen
10364 \setbox\@outputbox\vsplit\@outputbox to\maxdimen
10365 \toks@\expandafter{\topmark}%
10366 \xdef\@firstcoltopmark{\the\toks@}%
10367 \toks@\expandafter{\splitfirstmark}%
10368 \xdef\@firstcolfirstmark{\the\toks@}%
10369 \ifx\@firstcolfirstmark\@empty
10370 \global\let\@setmarks\relax
10371 \else
10372 \gdef\@setmarks{%
10373 \let\firstmark\@firstcolfirstmark
10374 \let\topmark\@firstcoltopmark}%

```



```

10375 \fi
10376 \else
10377 \global\@firstcolumntrue
10378 \setbox\@outputbox\vbox{%
10379 \hb@xt@\textwidth{%
10380 \hb@xt@\columnwidth{%
10381 \bidi@firstcolumn@status@write%
10382 \box\@leftcolumn \hss}%
10383 \hfil
10384 \vrule \@width\columnseprule
10385 \hfil
10386 \hb@xt@\columnwidth{%
10387 \bidi@lastcolumn@status@write%
10388 \box\@outputbox \hss}}}%
10389 \@combinedblfloats
10390 \@setmarks
10391 \@outputpage
10392 \begingroup
10393 \@dblfloatplacement
10394 \@startdblcolumn
10395 \@whiles\if@fcolmade \fi{\@outputpage\@startdblcolumn}%
10396 \endgroup
10397 \fi}

```

## 7.59 fleqn-xetex-bidi.def

```

10398 \ProvidesFile{fleqn-xetex-bidi.def}[2010/03/01 v0.1 bidi adaptations for fleqn tag for XeTeX]
10399 \renewcommand\{\relax
10400 \ifmmode\@badmath
10401 \else
10402 \begin{trivlist}%
10403 \beginparpenalty\predisplaypenalty
10404 \endparpenalty\postdisplaypenalty
10405 \item[]\leavevmode
10406 \hb@xt@\linewidth\group \beginL$\m@th\displaystyle %$
10407 \hskip\mathindent\group
10408 \fi}
10409 \renewcommand\}{\relax
10410 \ifmmode
10411 \egroup $\hfil% $
10412 \endL\egroup
10413 \end{trivlist}%
10414 \else \@badmath
10415 \fi}
10416 \renewenvironment{equation}%
10417 {\beginparpenalty\predisplaypenalty
10418 \endparpenalty\postdisplaypenalty
10419 \refstepcounter{equation}%
10420 \trivlist \item[]\leavevmode
10421 \hb@xt@\linewidth\group\beginL $\m@th% $

```



```

10422         \displaystyle
10423         \hskip\mathindent}%
10424         {\$ \hfil % $
10425         \displaywidth\linewidth\hbox{\@eqnnum}%
10426         \endL\egroup
10427     \endtrivlist}

```

## 7.60 float-xetex-bidi.def

```

10428 \ProvidesFile{float-xetex-bidi.def}[2013/04/04 v0.2 bidi adaptations for float package for Xe
10429 \renewcommand\floatc@plain[2]{\setbox\@tempboxa\hbox{\@fs@cfont #1:} #2}%
10430 \ifdim\wd\@tempboxa>\hsize {\@fs@cfont #1:} #2\par
10431 \else\hbox to\hsize{\ifRTL\beginR\fi\hfil\box\@tempboxa\hfil\ifRTL\endR\fi}\fi}
10432 \def\float@newx#1[#2]{\@ifundefined{c@#1}{\newcounter{#1}[#2]%
10433 \expandafter\edef\csname the#1\endcsname{%
10434 \expandafter\noexpand\csname
10435 the#2\endcsname\@SepMark\noexpand\arabic{#1}}}%
10436 {\PackageWarning{float}{Can't redefine counter variable for #1.}}}

```

## 7.61 floatrow-xetex-bidi.def

```

10437 \ProvidesFile{floatrow-xetex-bidi.def}[2013/04/08 v0.1 bidi adaptations for floatrow package
10438 \renewcommand\flnew@within[1]{\@addtoreset{FB@captype}{#1}%
10439 \expandafter\edef\csname theFB@captype\endcsname{%
10440 \expandafter\noexpand\csname
10441 the#1\endcsname\@SepMark\noexpand\arabic{FB@captype}}}

```

## 7.62 flowfram-xetex-bidi.def

```

10442 \ProvidesFile{flowfram-xetex-bidi.def}[2010/07/25 v0.2 bidi adaptations for flowfram package
10443 \def\@outputdblcol{%
10444 \@nxtcol=\c@thisframe
10445 \c@curpg=\c@page
10446 \@g@tnextcol{\@nxtcol}%
10447 \if@ff@nwp@ % next flow frame starts on new page
10448 \global\@firstcolumntrue
10449 \@setcolbox\c@thisframe
10450 \if@specialpage
10451 \global\@specialpagefalse
10452 \@nameuse{ps@\@specialstyle}\relax
10453 \fi
10454 \if@twoside
10455 \ifodd\count\z@
10456 \let\@thehead\@oddhead
10457 \let\@thefoot\@oddfoot
10458 \else
10459 \let\@thehead\@evenhead
10460 \let\@thefoot\@evenfoot
10461 \fi
10462 \else
10463 \let\@thehead\@oddhead
10464 \let\@thefoot\@oddfoot

```





```

10465 \fi
10466 \@beginndvi
10467 \@dodynamicthehead\@dodynamictheftot
10468 \vbadness=\@M
10469 \setbox\@outputbox\vbox{\hbox to \textwidth{\@ffdo@allframes}}}%
10470 \@combinedblfloats
10471 \@outputpage
10472 \advance\c@curpg by -\c@page\relax
10473 \whiledo{\c@curpg>0}{\advance\c@curpg by -1\relax
10474 \setbox\@outputbox\vbox{\hbox to \textwidth{\@ffdo@allframes}}}%
10475 \@outputpage}
10476 \beginngroup
10477 \@dblfloatplacement
10478 \@startdblcolumn
10479 \@whiles\@if@colmade \fi
10480 {\@outputpage \@startdblcolumn }\endgroup
10481 \@resetst@tics
10482 \@resetdyn@mics
10483 \else % still on same page, save contents of box255
10484 \global\@firstcolumnfalse
10485 \@setcolbox\c@thisframe
10486 \fi
10487 \global\c@thisframe=\@nxtcol
10488 \@setcol{\c@thisframe}\relax
10489 \global\@colht\vsiz
10490 }
10491 \def\@outputpage{%
10492 \beginngroup
10493 \let\protect\noexpand
10494 \@resetactivechars
10495 \global\let\@if@newlist\if@newlist
10496 \global\@newlistfalse\@parboxrestore
10497 \shipout\vbox{\set@typeset@protect
10498 \aftergroup
10499 \endgroup
10500 \aftergroup
10501 \set@typeset@protect
10502 \reset@font\normalsize\normalsfcodes
10503 \let\label\@gobble
10504 \let\index\@gobble
10505 \let\glossary\@gobble
10506 \baselineskip\z@skip
10507 \lineskip\z@skip
10508 \lineskiplimit\z@
10509 \vskip\topmargin\moveright\@themargin
10510 \vbox{%
10511 \vskip\headheight
10512 \vskip\headsep
10513 \box\@outputbox
10514 }}%

```



```

10515 \global\let\if@newlist\@if@newlist
10516 \stepcounter{page}%
10517 \setcounter{displayedframe}{0}%
10518 \let\firstmark\botmark}
10519
10520
10521 \newcommand*\bidi@s@tfftextcol{\ifthenelse{\equal{\ff@txtcol}{}}{}{%
10522 \expandafter\bidicolor\ff@txtcol}}
10523
10524 \newcommand{\bidi@ff@box}[3]{\@ffbackground{\vbox to#2
10525 {\hb@xt@ #1{\hss{\bidi@s@tfftextcol #3}\hss}\vss\kern\z@}}}%
10526
10527
10528 \renewcommand*\@docolbox}[1]{%
10529 \edef\ff@frametype{%
10530 \csname @ff@frametype@\romannumeral#1\endcsname}%
10531 \edef\ff@col{\csname @ff@col@\romannumeral#1\endcsname}%
10532 \edef\ff@txtcol{\csname @ff@txtcol@\romannumeral#1\endcsname}%
10533 \edef\ff@backcol{\csname @ff@backcol@\romannumeral#1\endcsname}%
10534 \@ff@setoffset{#1}%
10535 \rotateframe{\csname @ff@angle@\romannumeral#1\endcsname}{%
10536 \ifthenelse{\boolean{columnframe\romannumeral#1}}{%
10537 \@ff@fbox{\csname colwidth\romannumeral#1\endcsname}%
10538 {\csname colheight\romannumeral#1\endcsname}{%
10539 \expandafter\box\csname column\romannumeral#1\endcsname}{%
10540 \csname\ff@frametype\endcsname}%
10541 }-}%
10542 \bidi@ff@box{\csname colwidth\romannumeral#1\endcsname}%
10543 {\csname colheight\romannumeral#1\endcsname}{%
10544 \expandafter\box\csname column\romannumeral#1\endcsname}%
10545 }}}
10546 \ifclassloaded{book}{%
10547 \renewcommand\theequation
10548 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
10549 \renewcommand \thefigure
10550 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
10551 \renewcommand \thetable
10552 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
10553 \renewcommand \thechapter {\@arabic\c@chapter}
10554 \renewcommand \thesection {\thechapter\@SepMark\@arabic\c@section}
10555 \renewcommand\thesubsection {\thesection\@SepMark\@arabic\c@subsection}
10556 \renewcommand\thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
10557 \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
10558 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}}{}
10559 \ifclassloaded{report}{%
10560 \renewcommand\theequation
10561 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
10562 \renewcommand \thefigure
10563 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
10564 \renewcommand \thetable

```



```

10565      {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
10566 \renewcommand \thechapter {\@arabic\c@chapter}
10567 \renewcommand \thesection {\thechapter\@SepMark\@arabic\c@section}
10568 \renewcommand \thesubsection {\thesection\@SepMark\@arabic\c@subsection}
10569 \renewcommand \thesubsubsection {\thesubsection \@SepMark\@arabic\c@subsubsection}
10570 \renewcommand \theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
10571 \renewcommand \thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}}{}
10572 \renewcommand{\rotateframe}[2]{\if@ttb@rotate
10573 \rotatebox{#1}{\if@RTL\beginL\fi#2\if@RTL\endL\fi}%
10574 \else
10575 #2\relax
10576 \fi}

```

## 7.63 footnote-xetex-bidi.def

```

10577 \ProvidesFile{footnote-xetex-bidi.def}[2017/08/09 v1.1 bidi footnote macros for XeTeX engine]
10578 \if@RTLmain\@RTL@footnotetrue\else\@RTL@footnotefalse\fi
10579 \newif\ifbidi@autofootnoterule
10580 \def\bidi@mpfootnoterule{\footnoterule}
10581 \newcounter{footdir@label}
10582 \renewcommand*{\thefootdir@label}{\footdir@the\value{footdir@label}}
10583 \newcommand*{\footdir@write}{%
10584   \stepcounter{footdir@label}%
10585   \zref@labelbyprops{\thefootdir@label}{abspage}%
10586 }
10587 \newif\iffootdir@debug
10588 \newcommand*{\debugfootnotedirection}{\footdir@debugtrue}
10589 \newtoks\footdir@toks
10590 \newcommand*{\footdir@debug}[1]{%
10591   \iffootdir@debug
10592     \typeout{[footdir] #1}%
10593   \fi
10594 }
10595 %\@ifpackagelater{zref-abspage}{2012/10/27}{%
10596 %  \newcommand*{\footdir@LeftRightElse}{%
10597 %    \ltx@ifundefined{footdir@the\value{zabspage}}{%
10598 %      \footdir@debug{abspage \the\value{zabspage}: else}%
10599 %      \ltx@thirdofthree
10600 %    }{%
10601 %      \if\csname footdir@the\value{zabspage}\endcsname L%
10602 %        \footdir@debug{abspage \the\value{zabspage}: left}%
10603 %        \expandafter\ltx@firstofthree
10604 %      \else
10605 %        \footdir@debug{abspage \the\value{zabspage}: right}%
10606 %        \expandafter\ltx@secondofthree
10607 %      \fi
10608 %    }%
10609 %  }%
10610 %}%
10611 \providecommand*\c@zabspage{\c@abspage}%

```



```

10612 \newcommand*{\footdir@LeftRightElse}{%
10613   \footdir@write
10614   \zifrefundefined{\thefootdir@label}{%
10615     \footdir@debug{abspage ??: else}%
10616     \ltx@thirdofthree
10617   }{%
10618     \edef\footdir@abspage{%
10619       \zref@extractdefault{\thefootdir@label}{abspage}{0}%
10620     }%
10621     \ltx@ifundefined{footdir@\footdir@abspage}{%
10622       \footdir@debug{\footdir@abspage: else}%
10623       \ltx@thirdofthree
10624     }{%
10625       \if\csname footdir@\footdir@abspage\endcsname L%
10626         \footdir@debug{\footdir@abspage: left}%
10627         \expandafter\ltx@firstofthree
10628       \else
10629         \footdir@debug{\footdir@abspage: right}%
10630         \expandafter\ltx@secondofthree
10631       \fi
10632     }%
10633   }%
10634 }%
10635 %}
10636 \newcommand*{\footdir@fntext}[1]{%
10637   \zifrefundefined{\thefootdir@label}{%
10638     {%
10639       \edef\footdir@name{%
10640         footdir@\zref@extractdefault{\thefootdir@label}{abspage}{0}%
10641       }%
10642       \@ifundefined{\footdir@name}{%
10643         \expandafter\gdef\csname\footdir@name\endcsname{#1}%
10644       }{%
10645         }%
10646     }
10647 }
10648 \newcommand*{\footdir@temp}[3]{%
10649   \@ifdefinable{#1}{%
10650     \let#1#2%
10651     \renewcommand{#2}[1]{%
10652       \footdir@write
10653       \footdir@fntext{#3}%
10654       \stepcounter{footdir@label}%
10655       \footdir@fntext{#3}%
10656       \footdir@toks{##1}%
10657       \footdir@toks\expandafter{%
10658         \the\expandafter\footdir@toks
10659       }\expandafter
10660       \zref@labelbyprops\expandafter{\thefootdir@label}{abspage}%
10661     }%

```



```

10662     \expandafter#1\expandafter{\the\footdir@toks}%
10663     }%
10664   }%
10665 }
10666
10667 \def\right@footnoterule{%
10668   \kern-3\p@
10669   \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
10670   \kern2.6\p@}
10671 \def\left@footnoterule{\kern-3\p@
10672   \hrule \@width .4\columnwidth \kern 2.6\p@}
10673 \def\textwidth@footnoterule{\kern-3\p@
10674   \hrule \@width \columnwidth \kern 2.6\p@}
10675 \def\leftfootnoterule{%
10676   \bidi@autofootnoterulefalse%
10677   \def\footnoterule{\left@footnoterule}}
10678 \let\LRfootnoterule=\leftfootnoterule
10679 \def\rightfootnoterule{%
10680   \bidi@autofootnoterulefalse%
10681   \def\footnoterule{\right@footnoterule}}
10682 \def\textwidthfootnoterule{%
10683   \bidi@autofootnoterulefalse%
10684   \def\footnoterule{\textwidth@footnoterule}}
10685
10686
10687
10688 \def\auto@footnoterule{%
10689   \footdir@LeftRightElse%
10690   \left@footnoterule%
10691   \right@footnoterule%
10692   \left@footnoterule%
10693 }
10694
10695
10696
10697 \def\autofootnoterule{%
10698   \bidi@autofootnoteruletrue%
10699   \def\footnoterule{\auto@footnoterule}%
10700 }
10701
10702 \newcommand*\SplitFootnoteRule{%
10703   \gdef\split@prev{0}
10704   \let\pagefootnoterule\footnoterule
10705   \let\mpfootnoterule\footnoterule
10706   \def\splitfootnoterule{\kern-3\p@ \hrule \kern2.6\p@}
10707   \def\footnoterule{\relax
10708     \ifx \@listdepth\@mplistdepth
10709       \mpfootnoterule
10710     \else
10711       \ifnum\split@prev=\z@

```



```

10712         \pagefootnoterule
10713     \else
10714         \splitfootnoterule
10715     \fi
10716     \xdef\split@prev{\the\insertpenalties}%
10717 \fi
10718 }%
10719 }
10720
10721
10722
10723
10724 \def\RTLfootnote{\@ifnextchar[\@xRTLfootnote{\stepcounter\@mpfn
10725     \protected@xdef\@thefnmark{\thempfn}%
10726     \@footnotemark\@RTLfootnotetext}}
10727 \def\@xRTLfootnote[#1]{%
10728     \begingroup
10729     \csname c@\@mpfn\endcsname #1\relax
10730     \unrestored@protected@xdef\@thefnmark{\thempfn}%
10731     \endgroup
10732     \@footnotemark\@RTLfootnotetext}
10733 \def\LTRfootnote{\@ifnextchar[\@xLTRfootnote{\stepcounter\@mpfn
10734     \protected@xdef\@thefnmark{\thempfn}%
10735     \@footnotemark\@LTRfootnotetext}}
10736 \def\@xLTRfootnote[#1]{%
10737     \begingroup
10738     \csname c@\@mpfn\endcsname #1\relax
10739     \unrestored@protected@xdef\@thefnmark{\thempfn}%
10740     \endgroup
10741     \@footnotemark\@LTRfootnotetext}
10742
10743
10744 \def\setfootnoteRL{\@RTL@footnotetrue}
10745 \def\unsetfootnoteRL{\@RTL@footnotefalse}
10746 \def\setfootnoteLR{\unsetfootnoteRL}
10747
10748 \newcommand*{\bidi@footnotetext@font}{\footnotesize}
10749 \newcommand*{\bidi@LTRfootnotetext@font}{\footnotesize}
10750 \newcommand*{\bidi@RTLfootnotetext@font}{\footnotesize}
10751
10752 \long\def\@footnotetext#1{\insert\footins{%
10753     \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
10754     \reset@font%
10755     \bidi@footnotetext@font% \reset@font\footnotesize
10756     \interlinepenalty\interfootnotelinepenalty
10757     \splittopskip\footnotesep
10758     \splitmaxdepth \dp\strutbox \floatingpenalty \@MM
10759     \hsize\columnwidth \@parboxrestore
10760     \protected@edef\@currentlabel{%
10761         \csname p@footnote\endcsname\@thefnmark

```



```

10762 }%
10763 \color@begingroup
10764 \makefnintext{%
10765 \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}%
10766 \color@endgroup}}%
10767
10768
10769 \long\def\@RTLfootnotetext#1{\insert\footins{%
10770 \RTLtrue%
10771 \reset@font%
10772 \bidi@RTLfootnotetext@font% \reset@font\footnotesize
10773 \interlinepenalty\interfootnotelinepenalty
10774 \splittopskip\footnotesep
10775 \splitmaxdepth \dp\strutbox \floatingpenalty \MM
10776 \hsize\columnwidth \@parboxrestore
10777 \protected@edef\@currentlabel{%
10778 \csname p@footnote\endcsname\@thefnmark
10779 }%
10780 \color@begingroup
10781 \makefnintext{%
10782 \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}%
10783 \color@endgroup}}%
10784
10785 \long\def\@LTRfootnotetext#1{\insert\footins{%
10786 \RTLfalse%
10787 \reset@font%
10788 \bidi@LTRfootnotetext@font% \reset@font\footnotesize
10789 \interlinepenalty\interfootnotelinepenalty
10790 \splittopskip\footnotesep
10791 \splitmaxdepth \dp\strutbox \floatingpenalty \MM
10792 \hsize\columnwidth \@parboxrestore
10793 \protected@edef\@currentlabel{%
10794 \csname p@footnote\endcsname\@thefnmark
10795 }%
10796 \color@begingroup
10797 \makefnintext{%
10798 \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}%
10799 \color@endgroup}}%
10800
10801 \AtBeginDocument{%
10802 \if@RTL@footnote
10803 \newcommand*{\bidi@footdir@footnote}{R}
10804 \else
10805 \newcommand*{\bidi@footdir@footnote}{L}
10806 \fi%
10807 }
10808
10809 \footdir@temp\footdir@ORG\bidi@footnotetext\@footnotetext{\bidi@footdir@footnote}%
10810 \footdir@temp\footdir@ORG\bidi@RTLfootnotetext\@RTLfootnotetext{R}%
10811 \footdir@temp\footdir@ORG\bidi@LTRfootnotetext\@LTRfootnotetext{L}%

```



```

10812
10813 \long\def\@mpRTLfootnotetext#1{%
10814   \ifbidi@autofootnoterule\ifnum\c@mpfootnote=\@ne\global\let\bidi@mpfootnoterule\right@footnot
10815   \global\setbox\@mpfootins\vbox{\@RTLtrue%
10816     \unvbox\@mpfootins
10817     \reset@font%
10818     \bidi@RTLfootnotetext@font% \reset@font\footnotesize
10819     \hsize\columnwidth
10820     \@parboxrestore
10821     \protected@edef\@currentlabel
10822       {\csname p@mpfootnote\endcsname\@thefnmark}%
10823     \color@begingroup
10824       \makefnintext{%
10825         \rule\z@{\footnotesep\ignorespaces#1\@finalstrut\strutbox}%
10826       \color@endgroup}}
10827 \long\def\@mpLTRfootnotetext#1{%
10828   \ifbidi@autofootnoterule\ifnum\c@mpfootnote=\@ne\global\let\bidi@mpfootnoterule\left@footnot
10829   \global\setbox\@mpfootins\vbox{\@RTLfalse%
10830     \unvbox\@mpfootins
10831     \reset@font%
10832     \bidi@LTRfootnotetext@font% \reset@font\footnotesize
10833     \hsize\columnwidth
10834     \@parboxrestore
10835     \protected@edef\@currentlabel
10836       {\csname p@mpfootnote\endcsname\@thefnmark}%
10837     \color@begingroup
10838       \makefnintext{%
10839         \rule\z@{\footnotesep\ignorespaces#1\@finalstrut\strutbox}%
10840       \color@endgroup}}
10841 \long\def\@mpfootnotetext#1{%
10842   \ifbidi@autofootnoterule\ifnum\c@mpfootnote=\@ne\ifRTL@footnote\global\let\bidi@mpfootnoterule\right@footnot
10843   \global\setbox\@mpfootins\vbox{\ifRTL@footnote\@RTLtrue\else\@RTLfalse\fi%
10844     \unvbox\@mpfootins
10845     \reset@font%
10846     \bidi@footnotetext@font% \reset@font\footnotesize
10847     \hsize\columnwidth
10848     \@parboxrestore
10849     \protected@edef\@currentlabel
10850       {\csname p@mpfootnote\endcsname\@thefnmark}%
10851     \color@begingroup
10852       \makefnintext{%
10853         \rule\z@{\footnotesep\ignorespaces#1\@finalstrut\strutbox}%
10854       \color@endgroup}}
10855 \def\@iiiminipage#1#2[#3]#4{%
10856   \leavevmode
10857   \@pboxswfalse
10858   \ifhboxRconstruct\@bidi@list@minipage@parbox@not@nobtrue\fi
10859   \ifRTL\if#1t\@bidi@list@minipage@parboxtrue\else\if#1b\@bidi@list@minipage@parboxtrue\fi\fi
10860   \setlength\@tempdima{#4}%
10861   \def\@mpargs{{#1}{#2}{#3}{#4}}%

```





```

10862 \setbox\@tempboxa\vbox\bgroup
10863 \color@begingroup
10864 \hsize\@tempdima
10865 \textwidth\hsize \columnwidth\hsize
10866 \@parboxrestore
10867 \def\@mpfn{mpfootnote}\def\thempfn{\thempfootnote}\c@mpfootnote\z@
10868 \let\@footnotetext\@mpfootnotetext
10869 \let\@LTRfootnotetext\@mpLTRfootnotetext
10870 \let\@RTLfootnotetext\@mpRTLfootnotetext
10871 \let\@listdepth\@mplistdepth \@mplistdepth\z@
10872 \@minipagerestore
10873 \setminipage}
10874 \def\endminipage{%
10875 \par
10876 \unskip
10877 \ifvoid\@mpfootins\else
10878 \vskip\skip\@mpfootins
10879 \normalcolor
10880 \bidi@mpfootnoterule
10881 \unvbox\@mpfootins
10882 \fi
10883 \@minipagefalse %% added 24 May 89
10884 \color@endgroup
10885 \egroup
10886 \expandafter\@iiiparbox\@mpargs{\unvbox\@tempboxa}}
10887 \def\LTRthanks#1{\footnotemark
10888 \protected@xdef\@thanks{\@thanks
10889 \protect\LTRfootnotetext[\the\c@footnote]{#1}}%
10890 }
10891 \def\LTRfootnotetext{%
10892 \@ifnextchar [\@xLTRfootnotenext
10893 {\protected@xdef\@thefnmark{\thempfn}%
10894 \@LTRfootnotetext}}
10895 \def\@xLTRfootnotenext[#1]{%
10896 \begingroup
10897 \csname c@\@mpfn\endcsname #1\relax
10898 \unrestored@protected@xdef\@thefnmark{\thempfn}%
10899 \endgroup
10900 \@LTRfootnotetext}
10901 \def\RTLthanks#1{\footnotemark
10902 \protected@xdef\@thanks{\@thanks
10903 \protect\RTLfootnotetext[\the\c@footnote]{#1}}%
10904 }
10905 \let\@thanks\@empty
10906 \def\RTLfootnotetext{%
10907 \@ifnextchar [\@xRTLfootnotenext
10908 {\protected@xdef\@thefnmark{\thempfn}%
10909 \@RTLfootnotetext}}
10910 \def\@xRTLfootnotenext[#1]{%
10911 \begingroup

```



```

10912     \csname c@\@mpfn\endcsname #1\relax
10913     \unrestored@protected@xdef\@thefnmark{\thempfn}%
10914     \endgroup
10915     \@RTLfootnotetext}
10916 \leftfootnoterule

```

## 7.64 framed-xetex-bidi.def

```

10917 \ProvidesFile{framed-xetex-bidi.def}[2012/06/05 v0.3 bidi adaptations for framed package for
10918 \renewcommand\TitleBarFrame[3][\begingroup
10919   \ifx\delimiter#1\delimiter
10920     \let\TF@conlab\@empty
10921   \else
10922     \def\TF@conlab{% continuation label
10923       \nointerlineskip
10924       \smash{\rlap{\kern\wd\@tempboxa\kern\fboxrule\kern\fboxsep #1}}}%
10925   \fi
10926   %\let\TF@savecolor\current@color
10927   \textcolor{TF@FrameColor}{%
10928     \CustomFBox
10929     {\TF@Title{#2}}{\TF@conlab}%
10930     \fboxrule\fboxrule\fboxrule\fboxrule
10931     %{\let\current@color\TF@savecolor\set@color #3}%
10932     {\normalcolor #3}%
10933   }\endgroup
10934 }
10935 \renewenvironment{titled-frame}[1]{%
10936   \def\FrameCommand{\fboxsep8pt\fboxrule2pt
10937     \TitleBarFrame{\textbf{#1}}}%
10938   \def\FirstFrameCommand{\fboxsep8pt\fboxrule2pt
10939     \TitleBarFrame[$\if@RTL\blacktriangleleft\else\blacktriangleright\fi$]{\textbf{#1}}}%
10940   \def\MidFrameCommand{\fboxsep8pt\fboxrule2pt
10941     \TitleBarFrame[$\if@RTL\blacktriangleleft\else\blacktriangleright\fi$]{\textbf{#1} (cont
10942   \def\LastFrameCommand{\fboxsep8pt\fboxrule2pt
10943     \TitleBarFrame{\textbf{#1} (cont)}}}%
10944   \MakeFramed{\advance\hsize-20pt \FrameRestore}}%
10945 % note: 8 + 2 + 8 + 2 = 20. Don't use \width because the frame title
10946 % could interfere with the width measurement.
10947 {\endMakeFramed}
10948 \chardef\FrameRestore=\catcode`\| % for debug
10949 \catcode`\|=\catcode`\% (debug: insert space after backslash)
10950 \def\fb@put@frame#1#2{\relax
10951   \ifdim\pagegoal=\maxdimen \pagegoal\vsz \fi
10952   | \message{===== Entering putframe =====^^J
10953   | \pagegoal=\the\pagegoal, \pagetotal=\the\pagetotal. }%
10954   \ifinner
10955     \fb@putboxa#1%
10956     \fb@afterframe
10957   \else
10958     \dimen@\pagegoal \advance\dimen@-\pagetotal % natural space left on page

```



```

10959 \ifdim\dimen@<2\baselineskip % Too little room on page
10960 | \message{Page has only \the\dimen@\space room left; eject. }%
10961 \eject \fb@adjheight \fb@put@frame#1#2%
10962 \else % there's appreciable room left on the page
10963 \fb@sizeofframe#1%
10964 | \message{\string\pagetotal=\the\pagetotal,
10965 | \string\pagegoal=\the\pagegoal,
10966 | \string\pagestretch=\the\pagestretch,
10967 | \string\pageshrink=\the\pageshrink,
10968 | \string\fb@frh=\the\fb@frh. \space}
10969 | \message{^^JBox of size \the\ht\@tempboxa\space}%
10970 \begingroup % temporarily set \dimen@ to be...
10971 \advance\dimen@.8\pageshrink % maximum space available on page
10972 \advance\dimen@-\fb@frh\relax % max space available for frame's contents
10973 %%% LOOKS SUBTRACTED AND ADDED, SO DOUBLE ACCOUNTING!
10974 \expandafter\endgroup
10975 % expand \ifdim, then restore \dimen@ to real room left on page
10976 \ifdim\dimen@>\ht\@tempboxa % whole box does fit
10977 | \message{fits in \the\dimen@. }%
10978 % ToDo: Change this to use vsplit anyway to capture the marks
10979 % MERGE THIS WITH THE else CLAUSE!!!
10980 \fb@putboxa#1%
10981 \fb@afterframe
10982 \else % box must be split
10983 | \message{must be split to fit in \the\dimen@. }%
10984 % update frame measurement to use \FirstFrameCommand or \MidFrameCommand
10985 \fb@sizeofframe#2%
10986 \setbox\@tempboxa\vbox{% simulate frame and flexibility of the page:
10987 \vskip \fb@frh \@plus\pagestretch \@minus.8\pageshrink
10988 \kern137sp\kern-137sp\penalty-30
10989 \unvbox\@tempboxa}%
10990 \edef\fb@resto@set{\boxmaxdepth\the\boxmaxdepth
10991 \splittopskip\the\splittopskip}%
10992 \boxmaxdepth\z@ \splittopskip\z@
10993 | \message{^^JPadded box of size \the\ht\@tempboxa\space split to \the\dimen@}%
10994 % Split box here
10995 \setbox\tw@\vsplit\@tempboxa to\dimen@
10996 | \toks99\expandafter{\splitfirstmark}%
10997 | \toks98\expandafter{\splitbotmark}%
10998 | \message{Marks are: \the\toks99, \the\toks98. }%
10999 \setbox\tw@\vbox{\unvbox\tw@}% natural-sized
11000 | \message{Natural height of split box is \the\ht\tw@, leaving
11001 | \the\ht\@tempboxa\space remainder. }%
11002 % If the split-to size > (\vsize-\topskip), then set box to full size.
11003 \begingroup
11004 \advance\dimen@\topskip
11005 \expandafter\endgroup
11006 \ifdim\dimen@>\pagegoal
11007 | \message{Frame is big -- Use up the full column. }%
11008 \dimen@ii\pagegoal

```



```

11009         \advance\dimen@ii -\topskip
11010         \advance\dimen@ii \FrameHeightAdjust\relax
11011     \else % suspect this is implemented incorrectly:
11012         % If the split-to size > feasible room_on_page, rebox it smaller.
11013         \advance\dimen@.8\pageshrink
11014         \ifdim\ht\tw@>\dimen@
11015 |         \message{Box too tall; rebox it to \the\dimen@. }%
11016         \dimen@ii\dimen@
11017         \else % use natural size
11018             \dimen@ii\ht\tw@
11019         \fi
11020     \fi
11021     % Re-box contents to desired size \dimen@ii
11022     \advance\dimen@ii -\fb@frh
11023     \setbox\tw@\vbox to\dimen@ii \bgroup
11024     % remove simulated frame and page flexibility:
11025     \vskip -\fb@frh \@plus-\pagestretch \@minus-.8\pageshrink
11026     \unvbox\tw@ \unpenalty\unpenalty
11027     \ifdim\lastkern=-137sp % whole box went to next page
11028 |         \message{box split at beginning! }%
11029         % need work here???
11030         \egroup \fb@resto@set \eject % (\vskip for frame size was discarded)
11031         \fb@adjheight
11032         \fb@put@frame#1#2% INSERTED ???
11033     \else % Got material split off at the head
11034         \egroup \fb@resto@set
11035         \ifvoid\@tempboxa % it all fit after all
11036 |         \message{box split at end! }%
11037         \setbox\@tempboxa\box\tw@
11038         \fb@putboxa#1%
11039         \fb@afterframe
11040     \else % it really did split
11041 |         \message{box split as expected. Its reboxed height is \the\ht\tw@. }%
11042         \ifdim\wd\tw@>\z@
11043             \wd\tw@\wd\@tempboxa
11044             \centerline{#2{\hboxL{\box\tw@}}}% ??? \centerline bad idea
11045         \else
11046 |         \message{Zero width means likely blank. Don't frame it (guess)}%
11047         \box\tw@
11048         \fi
11049         \hrule \@height\z@ \@width\hsize
11050         \eject
11051         \fb@adjheight
11052         \fb@put@frame\LastFrameCommand\MidFrameCommand
11053     \fi\fi\fi\fi\fi
11054 }
11055 \def\fb@putboxa#1{%
11056     \ifvoid\@tempboxa
11057         \PackageWarning{framed}{Boxa is void -- discard it. }%
11058     \else

```



```

11059 | \message{Frame and place boxa. }%
11060 | {%\showoutput\showbox\@tempboxa}%
11061 | \centerline{#1{\hboxL{\box\@tempboxa}}}%
11062 | \fi
11063 }
11064 \catcode`\|=\FrameRestore
11065 \def\FrameRestore{%
11066 | \let\if@nbreak\iffalse
11067 | \let\if@noskipsec\iffalse
11068 | \let\-\@dischyph
11069 | \let'\@acci\let'\@accii\let=\@acciii
11070 | % \message{FrameRestore:
11071 | % \totalleftmargin=\the \totalleftmargin,
11072 | % \rightmargin=\the\rightmargin,
11073 | % \listdepth=\the\listdepth. }%
11074 | % Test if we are in a list (or list-like paragraph)
11075 | \ifnum \ifdim\totalleftmargin>\z@ 1\fi
11076 | | \ifdim\rightmargin>\z@ 1\fi
11077 | | \ifnum\listdepth>\z@ 1\fi 0>\z@
11078 | % \message{In a list: \linewidth=\the\linewidth, \totalleftmargin=\the\totalleftmargin,
11079 | % \parshape=\the\parshape, \columnwidth=\the\columnwidth, \hsize=\the\hsize,
11080 | % \labelwidth=\the\labelwidth. }%
11081 | \@setminipage % snug fit around the item
11082 | % Now try to propagate changes of width from \hsize to list parameters.
11083 | % This is deficient, but a more advanced way to indicate modification to text
11084 | % dimensions is not (yet) provided; in particular, no separate left/right
11085 | % adjustment.
11086 | \advance\linewidth-\columnwidth \advance\linewidth\hsize
11087 | \parshape\@ne \totalleftmargin \linewidth
11088 | \else % Not in list
11089 | | \linewidth=\hsize
11090 | | %\message{No list, set \string\linewidth=\the\hsize. }%
11091 | \fi
11092 | \sloppy
11093 }

```

## 7.65 ftnright-xetex-bidi.def

```

11094 \ProvidesFile{ftnright-xetex-bidi.def}[2017/05/06 v0.5 bidi adaptations for ftnright package]
11095
11096 \def\LTR@outputdblcol{%
11097 | \if@firstcolumn
11098 | | \global\@firstcolumnfalse
11099 | | \global\setbox\@leftcolumn\copy\@outputbox
11100 | | \global\count\footins\@m
11101 | | \global\skip\footins\rcol\footinsskip
11102 | | \splitmaxdepth\maxdimen
11103 | | \vbadness\maxdimen
11104 | | \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
11105 | | \setbox\@outputbox\vsplit\@outputbox to\maxdimen

```



```

11106 \toks@\expandafter{\topmark}%
11107 \xdef\@firstcoltopmark{\the\toks@}%
11108 \toks@\expandafter{\splitfirstmark}%
11109 \xdef\@firstcolfirstmark{\the\toks@}%
11110 \ifx\@firstcolfirstmark\@empty
11111 \global\let\@setmarks\relax
11112 \else
11113 \gdef\@setmarks{%
11114 \let\firstmark\@firstcolfirstmark
11115 \let\topmark\@firstcoltopmark}%
11116 \fi
11117 \else
11118 \preparefootins
11119 \global\@firstcolumntrue
11120 \setbox\@outputbox\vbox{%
11121 \hb@xt@\textwidth{%
11122 \hb@xt@\columnwidth{%
11123 \bidi@firstcolumn@status@write%
11124 \box\@leftcolumn \hss}%
11125 \hfil
11126 {\normalcolor\vrule \@width\columnseprule}%
11127 \hfil
11128 \hb@xt@\columnwidth{%
11129 \bidi@lastcolumn@status@write%
11130 \box\@outputbox \hss}}}%
11131 \@combinedblfloats
11132 \@setmarks
11133 \@outputpage
11134 \begingroup
11135 \@dblfloatplacement
11136 \@startdblcolumn
11137 \@whilesw\if@colmade \fi{\@outputpage
11138 \@startdblcolumn}%
11139 \endgroup
11140 \fi}%
11141
11142
11143
11144 \def\RTL@outputdblcol{%
11145 \if@firstcolumn
11146 \global\@firstcolumnfalse
11147 \global\setbox\@leftcolumn\copy\@outputbox
11148 \global\count\footins\@m
11149 \global\skip\footins\rcol@footinsskip
11150 \splitmaxdepth\maxdimen
11151 \vbadness\maxdimen
11152 \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
11153 \setbox\@outputbox\vsplit\@outputbox to\maxdimen
11154 \toks@\expandafter{\topmark}%
11155 \xdef\@firstcoltopmark{\the\toks@}%

```



```

11156 \toks@\expandafter{\splitfirstmark}%
11157 \xdef\@firstcolfirstmark{\the\toks@}%
11158 \ifx\@firstcolfirstmark\@empty
11159 \global\let\@setmarks\relax
11160 \else
11161 \gdef\@setmarks{%
11162 \let\firstmark\@firstcolfirstmark
11163 \let\topmark\@firstcoltopmark}%
11164 \fi
11165 \else
11166 \preparefootins
11167 \global\@firstcolumntrue
11168 \setbox\@outputbox\vbox{%
11169 \hb@xt@\textwidth{%
11170 \hskip \columnwidth
11171 \hfil
11172 {\normalcolor\vrule \@width\columnseprule}%
11173 \hfil
11174 \hb@xt@\columnwidth{%
11175 \bidi@firstcolumn@status@write%
11176 \box\@leftcolumn \hss}%
11177 \hskip -\textwidth
11178 \hb@xt@\columnwidth{%
11179 \bidi@lastcolumn@status@write%
11180 \box\@outputbox \hss}%
11181 \hskip \columnsep
11182 \hskip \columnwidth }}%
11183 \@combinedblfloats
11184 \@setmarks
11185 \@outputpage
11186 \begingroup
11187 \@dblfloatplacement
11188 \@startdblcolumn
11189 \@whiles\if@fcolmade \fi{\@outputpage
11190 \@startdblcolumn}%
11191 \endgroup
11192 \fi}%
11193
11194
11195
11196 \let\leftfootnoterule\@empty
11197 \let\rightfootnoterule\@empty
11198 \let\textwidthfootnoterule\@empty
11199 \let\autofootnoterule\@empty
11200 \let\footnoterule\@empty
11201 \long\def\@makefnmark#1{\parindent 1em
11202 \noindent\hbox to 2em{}}
11203 \llap{\@thefnmark\hbox{.}\,\,\,}\#1}

```



## 7.66 graphicx-xetex-bidi.def

```

11204 \ProvidesFile{graphicx-xetex-bidi.def}[2017/06/17 v0.5 bidi adaptations for graphicx package
11205 \def\Grot@box@std#1#2{\ifmmode\else\if@RTL\beginL\fi\fi%
11206   \Grot@setangle{#1}%
11207   \setbox\z@\hbox{\ifmmode\if@RTL\beginR\fi#2\if@RTL\endR\fi\else\if@RTL\beginR\fi#2\if@RTL\
11208   \Grot@x\z@
11209   \Grot@y\z@
11210   \Grot@box\ifmmode\else\if@RTL\endL\fi\fi}
11211 \long\def\Grot@box@kv[#1]#2#3{\ifmmode\else\if@RTL\beginL\fi\fi%
11212   \@begin@tempboxa\hbox{\ifmmode\if@RTL\beginR\fi#3\if@RTL\endR\fi\else\if@RTL\beginR\fi#3\if
11213     \Grot@x\width \divide\Grot@x\tw@
11214     \Grot@y\height \advance\Grot@y-\depth \divide\Grot@y\tw@
11215     \setkeys{Grot}{#1}%
11216     \setbox\z@\box\@tempboxa
11217     \Grot@setangle{#2}%
11218     \Grot@box\ifmmode\else\if@RTL\endL\fi\fi
11219   \@end@tempboxa}
11220 \long\def\Gscale@box#1[#2]#3{\ifmmode\else\if@RTL\beginL\fi\fi%
11221   \leavevmode
11222   \def\Gscale@x{#1}\def\Gscale@y{#2}%
11223   \setbox\z@\hbox{\ifmmode\if@RTL\beginR\fi#3\if@RTL\endR\fi\else\if@RTL\beginR\fi#3\if
11224   \setbox\tw@\hbox{\Gscale@start\rlap{\copy\z@}\Gscale@end}%
11225   \ifdim#2\p<\z@
11226     \ht\tw@-#2\dp\z@
11227     \dp\tw@-#2\ht\z@
11228   \else
11229     \ht\tw@#2\ht\z@
11230     \dp\tw@#2\dp\z@
11231   \fi
11232   \ifdim#1\p<\z@
11233     \hb@xt@-#1\wd\z@{\kern-#1\wd\z@\box\tw@\hss}%
11234   \else
11235     \wd\tw@#1\wd\z@
11236     \box\tw@
11237   \fi\ifmmode\else\if@RTL\endL\fi\fi}
11238 \def\Gin@iii[#1,#2][#3,#4]#5{%
11239   \begingroup
11240   \ifmmode\else\if@RTL\beginL\fi\fi
11241   \Gin@bboxtrue
11242   \Gin@defaultbp\Gin@llx{#1}%
11243   \Gin@defaultbp\Gin@lly{#2}%
11244   \Gin@defaultbp\Gin@urx{#3}%
11245   \Gin@defaultbp\Gin@ury{#4}%
11246   \Gin@include@graphics{#5}%
11247   \ifmmode\else\if@RTL\endL\fi\fi
11248   \endgroup}
11249 \def\Gin@ii[#1]#2{%
11250   \def\@tempa{[]}\def\@tempb{#2}%
11251   \ifx\@tempa\@tempb

```





```

11252     \def\@tempa{\Gin@iii[#1] []}%
11253     \expandafter\@tempa
11254   \else
11255     \begingroup
11256       \ifmmode\else\if@RTL\beginL\fi\fi
11257       \@tempswafalse
11258       \toks@{\Gin@graphics{#2}}%
11259       \setkeys{Gin}{#1}%
11260       \Gin@esetsize
11261       \the\toks@
11262       \ifmmode\else\if@RTL\endL\fi\fi
11263     \endgroup
11264   \fi}
11265 \def\reflectbox{\bidiGscale@box-1[1]}
11266 \long\def\bidiGscale@box#1[#2]#3{\ifmmode\else\if@RTL\beginL\fi\fi%
11267   \leavevmode
11268   \def\Gscale@x{#1}\def\Gscale@y{#2}%
11269   \setbox\z@\hbox{\ifmmode\if@RTL\beginR\fi#3\if@RTL\endR\fi\else\if@RTL\beginR\fi#3\if@RTL\endR\fi}%
11270   \setbox\tw@\hbox{\Gscale@start\rlap{\copy\z@}\Gscale@end}%
11271   \ifdim#2\p@<\z@
11272     \ht\tw@-#2\dp\z@
11273     \dp\tw@-#2\ht\z@
11274   \else
11275     \ht\tw@#2\ht\z@
11276     \dp\tw@#2\dp\z@
11277   \fi
11278   \ifdim#1\p@<\z@
11279     \hbext@-#1\wd\z@{\kern-#1\wd\z@\box\tw@\hss}%
11280   \else
11281     \wd\tw@#1\wd\z@
11282     \box\tw@
11283   \fi\ifmmode\else\if@RTL\endL\fi\fi}
11284 \def\scalebox#1{%
11285   \@ifnextchar[{\bidiGscale@box{#1}}{\bidiGscale@box{#1}[#1]}}
11286 \def\resizebox{%
11287   \leavevmode
11288   \@ifstar{\bidiGscale@@box\totalheight}{\bidiGscale@@box\height}}
11289 \def\bidiGscale@@box#1#2#3{%
11290   \let\@tempa\Gin@exclamation
11291   \expandafter\def\expandafter\@tempb\expandafter{\string#2}%
11292   \expandafter\def\expandafter\@tempc\expandafter{\string#3}%
11293   \ifx\@tempb\@tempa
11294     \ifx\@tempc\@tempa
11295       \toks@{\mbox}%
11296     \else
11297       \toks@{\bidiGscale@box@dd{#3}#1}%
11298     \fi
11299   \else
11300     \ifx\@tempc\@tempa
11301       \toks@{\bidiGscale@box@dd{#2}\width}%

```



```

11302 \else
11303 \toks@{\bidiGscale@box@dddd{#2}\width{#3}#1}%
11304 \fi
11305 \fi
11306 \the\toks@}
11307 \long\def\bidiGscale@box@dd#1#2#3{%
11308 \@begin@tempboxa\hbox{\ifmmode\if@RTL\beginR\fi#3\if@RTL\endR\fi\else\if@RTL\beginR\fi#3\if
11309 \setlength\@tempdima{#1}%
11310 \setlength\@tempdimb{#2}%
11311 \Gscale@div\@tempa\@tempdima\@tempdimb
11312 \Gscale@box\@tempa[\@tempa]{\box\@tempboxa}%
11313 \@end@tempboxa}
11314 \long\def\bidiGscale@box@dddd#1#2#3#4#5{%
11315 \@begin@tempboxa\hbox{\ifmmode\if@RTL\beginR\fi#5\if@RTL\endR\fi\else\if@RTL\beginR\fi#5\if
11316 \setlength\@tempdima{#1}%
11317 \setlength\@tempdimb{#2}%
11318 \Gscale@div\@tempa\@tempdima\@tempdimb
11319 \setlength\@tempdima{#3}%
11320 \setlength\@tempdimb{#4}%
11321 \Gscale@div\@tempb\@tempdima\@tempdimb
11322 \ifGin@iso
11323 \ifdim\@tempa\p@>\@tempb\p@
11324 \let\@tempa\@tempb
11325 \else
11326 \let\@tempb\@tempa
11327 \fi
11328 \fi
11329 \Gscale@box\@tempa[\@tempb]{\box\@tempboxa}%
11330 \@end@tempboxa}

```

## 7.67 geometry-xetex-bidi.def

```

11331 \ProvidesFile{geometry-xetex-bidi.def}[2017/01/14 v0.2 bidi adaptations for geometry package]
11332 \renewcommand*{\Gm@vrules@mpi}{%
11333 \if@RTLmain%
11334 \hb@xt@\@tempdima{\hskip-\marginparwidth\hskip-\marginparsep
11335 \llap{\Gm@vrule}\ignorespaces
11336 \hskip \marginparwidth\rlap{\Gm@vrule}\hskip \marginparsep
11337 \llap{\Gm@vrule}\hskip\textwidth\rlap{\Gm@vrule}\hss}%
11338 \else%
11339 \hb@xt@\@tempdima{\llap{\Gm@vrule}\ignorespaces
11340 \hskip \textwidth\Gm@vrule\hskip \marginparsep
11341 \llap{\Gm@vrule}\hfil\Gm@vrule}\fi}%
11342 \renewcommand*{\Gm@vrules@mpii}{%
11343 \if@RTLmain%
11344 \hb@xt@\@tempdima{\llap{\Gm@vrule}\ignorespaces
11345 \hskip \textwidth\Gm@vrule\hskip \marginparsep
11346 \llap{\Gm@vrule}\hfil\Gm@vrule}%
11347 \else%
11348 \hb@xt@\@tempdima{\hskip-\marginparwidth\hskip-\marginparsep

```



```

11349 \llap{\Gm@vrule}\ignorespaces
11350 \hskip \marginparwidth\rlap{\Gm@vrule}\hskip \marginparsep
11351 \llap{\Gm@vrule}\hskip\textwidth\rlap{\Gm@vrule}\hss}\fi}%
11352 \bidi@patchcmd{\Gm@pageframes}{%
11353     \ifodd\count\z@
11354     \let\@themargin\oddsidemargin
11355     \else
11356     \let\@themargin\evensidemargin
11357     \fi
11358 }{%
11359     \ifodd\count\z@
11360     \if@RTLmain
11361     \let\@themargin\evensidemargin
11362     \else
11363     \let\@themargin\oddsidemargin
11364     \fi
11365     \else
11366     \if@RTLmain
11367     \let\@themargin\oddsidemargin
11368     \else
11369     \let\@themargin\evensidemargin
11370     \fi
11371     \fi
11372 }{}{}

```

## 7.68 hvfloat-xetex-bidi.def

```

11373 \ProvidesFile{hvfloat-xetex-bidi.def}[2012/04/18 v0.2 bidi adaptations for hvfloat package fo
11374 \def\do@hvFloat[#1]#2#3{%
11375 \def\hv@shortCap{#1}
11376 \def\hv@longCap{#2}
11377 \def\hv@label{#3}
11378 %\newcommand*{\hvFloat}[5][]{%
11379 % [#1]: keyvalues
11380 % #2: type figure | table | ...
11381 % #3: float contents
11382 % [#4]: short caption
11383 % #5: caption
11384 % #6: label
11385 % \setDefault%
11386 % \def\@tempa{#1}%
11387 % \ifx\@tempa\empty\else\setkeys{hvSet}{#1}\fi% set options, only when not empty
11388 \def\@tempa{90}%
11389 \ifx\hvSet@rotAngle\@tempa \setlength{\hvMaxCapWidth}{\textheight}
11390 \else \setlength{\hvMaxCapWidth}{\linewidth}
11391 \fi
11392 %
11393 % First we save the object in \hvObjectBox
11394 %
11395 \ifx\hvSet@objectAngle\hv@Zero % rotate the object?

```



```

11396 \savebox{\hvObjectBox}{\ifhv@useOBox\usebox{\hvOBox}\else\hv@floatObject\fi}
11397 \else
11398 \savebox{\hvObjectBox}{%
11399 \rotatebox{\hvSet@objectAngle}{%
11400 \ifhv@useOBox\usebox{\hvOBox}\else\hv@floatObject\fi}}
11401 \fi
11402 \setlength{\hvObjectWidth}{\wd\hvObjectBox}
11403 %
11404 % Now we save the caption with its defined \hvCapWidth
11405 %
11406 \ifx\hvSet@capWidth\hv@Width\setlength{\hvCapWidth}{\hvObjectWidth}
11407 \else
11408 \ifx\hvSet@capWidth\hv@Height\setlength{\hvCapWidth}{\ht\hvObjectBox}
11409 \else
11410 \setlength{\hvCapWidth}{\hvObjectWidth}
11411 \ifx\hvSet@capPos\hv@Left\addtolength{\hvMaxCapWidth}{-\hvObjectWidth}\fi
11412 \ifx\hvSet@capPos\hv@Right\addtolength{\hvMaxCapWidth}{-\hvObjectWidth}\fi
11413 \ifdim\hvSet@capWidth\columnwidth<\hvMaxCapWidth
11414 \setlength{\hvCapWidth}{\hvSet@capWidth\columnwidth}
11415 \else
11416 \setlength{\hvCapWidth}{\hvMaxCapWidth}
11417 \fi
11418 \fi
11419 \fi
11420 %
11421 % now we have the object and the caption with the right
11422 % rotated angles saved in boxes
11423 %
11424 \def\fps@figure{\hvSet@floatPos}
11425 \ifhv@nonFloat\begin{group}% Start the nonfloat part
11426 \else \begin{\hv@floatType}% Start the floating environment
11427 \fi%
11428 \saveCaptionSkip% we put this space ourselves
11429 \ifx\hvSet@capAngle\hv@Width % need rotation?
11430 \sbox{\hvCaptionBox}{%
11431 \begin{minipage}[b]{\hvCapWidth}% minipage, to get hyphenation
11432 \ifhv@nonFloat%
11433 \ifhv@onlyText#2%
11434 \else%
11435 \ifx\hv@floatType\hv@figure
11436 \ifx\relax#1\relax \figcaption{#2}\else\figcaption[#1]{#2}\fi
11437 \else
11438 \ifx\relax#1\relax \tabcaption{#2}\else\tabcaption[#1]{#2}\fi%
11439 \fi
11440 \fi
11441 \else\ifx\relax\hv@shortCap\relax\caption{#2}\else\caption[#1]{#2}\fi%
11442 \fi%
11443 \label{#3}%
11444 \end{minipage}%
11445 }%

```



```

11446 \else%
11447 \sbox{\hvCaptionBox}{%
11448 \rotatebox{\hvSet@capAngle}{%
11449 \begin{minipage}[b]{\hvCapWidth}% minipage, to get hyphenation
11450 \ifhv@nonFloat%
11451 \ifhv@onlyText#2%
11452 \else%
11453 \ifx\hv@floatType\hv@figure
11454 \ifx\relax#1\relax \figcaption{#2}\else\figcaption[#1]{#2}\fi
11455 \else
11456 \ifx\relax#1\relax \tabcaption{#2}\else\tabcaption[#1]{#2}\fi%
11457 \fi
11458 \fi
11459 \else\ifx\relax\hv@shortCap\relax\caption{#2}\else\caption[#1]{#2}\fi%
11460 \fi%
11461 \label{#3}%
11462 \end{minipage}%
11463 }%
11464 }%
11465 \fi%
11466 %%
11467 \restoreCaptionSkip% save old values
11468 \ifx\hvSet@objectPos\hv@Right\bidiraggedleft%
11469 \else%
11470 \ifx\hvSet@objectPos\hv@Center
11471 \ifhv@nonFloat\hspace*{\fill}\else\centering\fi%
11472 \fi%
11473 \fi%
11474 %
11475 % to rotate object and caption together, we save all in another box
11476 % the caption comes first, if its on the left or the top
11477 %
11478 \savebox{\@tempboxa}{%
11479 \ifx\hvSet@capPos\hv@Left % caption on left side
11480 \if@RTL%
11481 \ifx\hvSet@capVPos\hv@Center%
11482 \ifhv@fbox
11483 \fbox{\parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}}
11484 \else
11485 \parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}
11486 \fi%
11487 \hspace{\hvSet@floatCapSep pt}%
11488 \ifhv@fbox
11489 \fbox{\parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}}%
11490 \else
11491 \parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}
11492 \fi%
11493 \else%
11494 \ifx\hvSet@capVPos\hv@Top
11495 \ifhv@fbox

```



```

11496 \fbox{\raisebox{-\height}{\usebox{\hvObjectBox}}}%
11497 \else
11498 \raisebox{-\height}{\usebox{\hvObjectBox}}%
11499 \fi%
11500 \hspace{\hvSet@floatCapSep pt}%
11501 \ifhv@fbox
11502 \fbox{\raisebox{-\height}{\usebox{\hvCaptionBox}}}%
11503 \else
11504 \raisebox{-\height}{\usebox{\hvCaptionBox}}%
11505 \fi
11506 \else
11507 \ifhv@fbox
11508 \fbox{\usebox{\hvObjectBox}}%
11509 \else
11510 \usebox{\hvObjectBox}%
11511 \fi
11512 \hspace{\hvSet@floatCapSep pt}%
11513 \ifhv@fbox
11514 \fbox{\usebox{\hvCaptionBox}}%
11515 \else
11516 \usebox{\hvCaptionBox}%
11517 \fi%
11518 \fi%
11519 \fi%
11520 \else% not RTL
11521 \ifx\hvSet@capVPos\hv@Center%
11522 \ifhv@fbox\fbox{\parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}}%
11523 \else \parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}%
11524 \fi%
11525 \hspace{\hvSet@floatCapSep pt}% capfloatsep
11526 \ifhv@fbox\fbox{\parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}}
11527 \else \parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}
11528 \fi%
11529 \else%
11530 \ifx\hvSet@capVPos\hv@Top % caption at top
11531 \ifhv@fbox\fbox{\raisebox{-\height}{\usebox{\hvCaptionBox}}}%
11532 \else \raisebox{-\height}{\usebox{\hvCaptionBox}}%
11533 \fi
11534 \hspace{\hvSet@floatCapSep pt}% capfloatsep
11535 \ifhv@fbox\fbox{\raisebox{-\height}{\usebox{\hvObjectBox}}}%
11536 \else \raisebox{-\height}{\usebox{\hvObjectBox}}%
11537 \fi%
11538 \else% caption on bottom
11539 \ifhv@fbox\fbox{\usebox{\hvCaptionBox}}
11540 \else\usebox{\hvCaptionBox}
11541 \fi%
11542 \hspace{\hvSet@floatCapSep pt}%
11543 \ifhv@fbox\fbox{\usebox{\hvObjectBox}}
11544 \else \usebox{\hvObjectBox}
11545 \fi%

```



```

11546     \fi%
11547 \fi% end of RTL
11548     \fi%
11549     \else
11550 \ifx\hvSet@capPos\hv@Top
11551 \ifdim\wd\hvCaptionBox>\wd\hvObjectBox
11552 \begin{minipage}{\wd\hvCaptionBox}
11553 \else
11554 \begin{minipage}{\wd\hvObjectBox}
11555 \fi
11556 \centering
11557 \ifhv@fbox
11558 \fbox{\usebox{\hvCaptionBox}}\[\hvBelowCaptionSkip]
11559 \fbox{\usebox{\hvObjectBox}}
11560 \else
11561 \usebox{\hvCaptionBox}\[\hvBelowCaptionSkip]
11562 \usebox{\hvObjectBox}
11563 \fi%
11564 \end{minipage}
11565 \else
11566 \ifx\hvSet@capPos\hv@Bottom
11567 \ifdim\wd\hvCaptionBox>\wd\hvObjectBox
11568 \begin{minipage}{\wd\hvCaptionBox}
11569 \else
11570 \begin{minipage}{\wd\hvObjectBox}
11571 \fi
11572 \centering
11573 \ifhv@fbox
11574 \fbox{\usebox{\hvObjectBox}}\[\hvAboveCaptionSkip]
11575 \fbox{\usebox{\hvCaptionBox}}
11576 \else
11577 \usebox{\hvObjectBox}\[\hvAboveCaptionSkip]
11578 \usebox{\hvCaptionBox}
11579 \fi%
11580 \end{minipage}
11581 \else% the last option: put the caption on the right
11582 \if@RTL%
11583     \ifx\hvSet@capVPos\hv@Center%
11584         \ifhv@fbox\fbox{\parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}}%
11585         \else     \parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}%
11586         \fi%
11587         \hspace{\hvSet@floatCapSep pt}% capfloatsep
11588         \ifhv@fbox\fbox{\parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}}
11589         \else     \parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}
11590         \fi%
11591     \else%
11592         \ifx\hvSet@capVPos\hv@Top % caption at top
11593             \ifhv@fbox\fbox{\raisebox{-\height}{\usebox{\hvCaptionBox}}}%
11594             \else     \raisebox{-\height}{\usebox{\hvCaptionBox}}%
11595             \fi

```



```

11596      \hspace{\hvSet@floatCapSep pt}% capfloatsep
11597      \ifhv@fbox\fbbox{\raisebox{-\height}{\usebox{\hvObjectBox}}}%
11598      \else      \raisebox{-\height}{\usebox{\hvObjectBox}}%
11599      \fi%
11600  \else% caption on bottom
11601      \ifhv@fbox\fbbox{\usebox{\hvCaptionBox}}
11602      \else\usebox{\hvCaptionBox}
11603      \fi%
11604      \hspace{\hvSet@floatCapSep pt}%
11605      \ifhv@fbox\fbbox{\usebox{\hvObjectBox}}
11606      \else      \usebox{\hvObjectBox}
11607      \fi%
11608  \fi%
11609  \fi%
11610  \else% not RTL
11611  \ifx\hvSet@capVPos\hv@Center%
11612  \ifhv@fbox
11613  \fbbox{\parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}}%
11614  \else
11615  \parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}
11616  \fi%
11617  \hspace{\hvSet@floatCapSep pt}%
11618  \ifhv@fbox
11619  \fbbox{\parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}}%
11620  \else
11621  \parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}
11622  \fi%
11623  \else%
11624  \ifx\hvSet@capVPos\hv@Top
11625  \ifhv@fbox
11626  \fbbox{\raisebox{-\height}{\usebox{\hvObjectBox}}}%
11627  \else
11628  \raisebox{-\height}{\usebox{\hvObjectBox}}%
11629  \fi%
11630  \hspace{\hvSet@floatCapSep pt}%
11631  \ifhv@fbox
11632  \fbbox{\raisebox{-\height}{\usebox{\hvCaptionBox}}}%
11633  \else
11634  \raisebox{-\height}{\usebox{\hvCaptionBox}}%
11635  \fi
11636  \else
11637  \ifhv@fbox
11638  \fbbox{\usebox{\hvObjectBox}}%
11639  \else
11640  \usebox{\hvObjectBox}%
11641  \fi
11642  \hspace{\hvSet@floatCapSep pt}%
11643  \ifhv@fbox
11644  \fbbox{\usebox{\hvCaptionBox}}%
11645  \else

```





```

11646 \usebox{\hvCaptionBox}%
11647 \fi%
11648 \fi%
11649 \fi
11650 \fi% end of RTL
11651 \fi
11652 \fi
11653 \fi
11654 }% End savebox Object and caption
11655 %
11656 % now we rotate the object and caption, if needed
11657 %
11658 \ifx\hvSet@rotAngle\hv@Zero
11659 \usebox{\@tempboxa}
11660 \else
11661 \rotatebox{\hvSet@rotAngle}{\usebox{\@tempboxa}}
11662 \fi
11663 \ifhv@nonFloat
11664 \ifx\hvSet@objectPos\hv@Center
11665 \ifhv@nonFloat
11666 \hspace{\fill}
11667 \fi
11668 \fi
11669 \endgroup% End the nonfloat part
11670 \else
11671 \end{\hv@floatType}% End the floating environment
11672 \fi
11673 }

```

## 7.69 hyperref-xetex-bidi.def

```

11674 \ProvidesFile{hyperref-xetex-bidi.def}[2017/08/09 v1.0 bidi adaptations for hyperref package]
11675 \AtBeginDocument{%
11676 \def\contentsline#1#2#3#4{%
11677   \ifx\#4\%
11678     \csname l@#1\endcsname{#2}{#3}%
11679   \else
11680     \ifcase\Hy@linktoc % none
11681       \csname l@#1\endcsname{#2}{#3}%
11682     \or % section
11683       \csname l@#1\endcsname{%
11684         \hyper@linkstart{link}{#4}{\if@RTL\beginR\fi#2\if@RTL\endR\fi}\hyper@linkend
11685       }{#3}%
11686     \or % page
11687       \csname l@#1\endcsname{#2}{#3}%
11688       \hyper@linkstart{link}{#4}{#3}\hyper@linkend
11689     }%
11690   \else % all
11691     \csname l@#1\endcsname{%
11692       \hyper@linkstart{link}{#4}{\if@RTL\beginR\fi#2\if@RTL\endR\fi}\hyper@linkend

```



```

11693     }{%
11694         \hyper@linkstart{link}{#4}{#3}\hyper@linkend
11695     }%
11696     \fi
11697 \fi
11698 }
11699 \ifHy@hyperfootnotes
11700     \let\H@@footnotetext\@footnotetext
11701     \let\HRTL@@RTLfootnotetext\@RTLfootnotetext
11702     \let\HLTR@@LTRfootnotetext\@LTRfootnotetext
11703     \def\@xfootnotenext[#1]{%
11704         \begingroup
11705             \csname c@\@mpfn\endcsname #1\relax
11706             \unrestored@protected@xdef\@thefnmark{\thempfn}%
11707         \endgroup
11708         \ifx\@footnotetext\@mpfootnotetext
11709             \expandafter\H@@mpfootnotetext
11710         \else
11711             \expandafter\H@@footnotetext
11712         \fi
11713     }%
11714     \def\@xRTLfootnotenext[#1]{%
11715         \begingroup
11716             \csname c@\@mpfn\endcsname #1\relax
11717             \unrestored@protected@xdef\@thefnmark{\thempfn}%
11718         \endgroup
11719         \ifx\@RTLfootnotetext\@mpRTLfootnotetext
11720             \expandafter\HRTL@@mpRTLfootnotetext
11721         \else
11722             \expandafter\HRTL@@RTLfootnotetext
11723         \fi
11724     }%
11725     \def\@xLTRfootnotenext[#1]{%
11726         \begingroup
11727             \csname c@\@mpfn\endcsname #1\relax
11728             \unrestored@protected@xdef\@thefnmark{\thempfn}%
11729         \endgroup
11730         \ifx\@LTRfootnotetext\@mpLTRfootnotetext
11731             \expandafter\HLTR@@mpLTRfootnotetext
11732         \else
11733             \expandafter\HLTR@@LTRfootnotetext
11734         \fi
11735     }%
11736     \def\@xfootnotemark[#1]{%
11737         \begingroup
11738             \c@footnote #1\relax
11739             \unrestored@protected@xdef\@thefnmark{\thefootnote}%
11740         \endgroup
11741         \H@@footnotemark
11742     }%

```



```

11743 \let\H@mpfootnotetext\@mpfootnotetext
11744 \let\HRTL@mpRTLfootnotetext\@mpRTLfootnotetext
11745 \let\HLTR@mpLTRfootnotetext\@mpLTRfootnotetext
11746 \long\def\@mpfootnotetext#1{%
11747   \H@mpfootnotetext{%
11748     \ifHy@nesting
11749       \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
11750     \else
11751       \Hy@raisedlink{%
11752         \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
11753       }#1%
11754     \fi
11755   }%
11756 }%
11757 \long\def\@mpRTLfootnotetext#1{%
11758   \HRTL@mpRTLfootnotetext{%
11759     \ifHy@nesting
11760       \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
11761     \else
11762       \Hy@raisedlink{%
11763         \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
11764       }#1%
11765     \fi
11766   }%
11767 }%
11768 \long\def\@mpLTRfootnotetext#1{%
11769   \HLTR@mpLTRfootnotetext{%
11770     \ifHy@nesting
11771       \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
11772     \else
11773       \Hy@raisedlink{%
11774         \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
11775       }#1%
11776     \fi
11777   }%
11778 }%
11779 \long\def\@footnotetext#1{%
11780   \H@@footnotetext{%
11781     \ifHy@nesting
11782       \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
11783     \else
11784       \Hy@raisedlink{%
11785         \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
11786       }%
11787       \let\@currentHlabel\Hy@footnote@currentHlabel
11788       \let\@currentHref\Hy@footnote@currentHref
11789       \let\@currentlabelname\@empty
11790       #1%
11791     \fi
11792   }%

```



```

11793 }%
11794 \long\def\@RTLfootnotetext#1{%
11795 \HRTL@@RTLfootnotetext{%
11796   \ifHy@nesting
11797     \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
11798   \else
11799     \Hy@raisedlink{%
11800       \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
11801     }%
11802     \let\@currentHlabel\Hy@footnote@currentHlabel
11803     \let\@currentHref\Hy@footnote@currentHref
11804     \let\@currentlabelname\@empty
11805     #1%
11806   \fi
11807 }%
11808 }%
11809 \long\def\@LTRfootnotetext#1{%
11810 \HLTR@@LTRfootnotetext{%
11811   \ifHy@nesting
11812     \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
11813   \else
11814     \Hy@raisedlink{%
11815       \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
11816     }%
11817     \let\@currentHlabel\Hy@footnote@currentHlabel
11818     \let\@currentHref\Hy@footnote@currentHref
11819     \let\@currentlabelname\@empty
11820     #1%
11821   \fi
11822 }%
11823 }%
11824 \@ifpackageloaded{tabularx}{%
11825 \let\HyOrg@TX@endtabularx\TX@endtabularx
11826 \def\Hy@tabularx@hook{%
11827   \let\@footnotetext\H@@footnotetext
11828   \let\@LTRfootnotetext\HLTR@@LTRfootnotetext
11829   \let\@RTLfootnotetext\HRTL@@RTLfootnotetext
11830   \let\@footnotemark\H@@footnotemark
11831   \let\@mpfootnotetext\H@@mpfootnotetext
11832   \let\@mpLTRfootnotetext\HLTR@@mpLTRfootnotetext
11833   \let\@mpRTLfootnotetext\HRTL@@mpRTLfootnotetext
11834 }%
11835 \begingroup
11836   \toks@\expandafter{\TX@endtabularx}%
11837   \xdef\Hy@gtemp{%
11838     \noexpand\Hy@tabularx@hook
11839     \the\toks@
11840   }%
11841 \endgroup
11842 \let\TX@endtabularx\Hy@gtemp

```



```

11843 }{}%
11844 \ifpackageloaded{longtable}{%
11845 \CheckCommand*{\LT@p@LTRftntext}[1]{%
11846 \edef\@tempa{%
11847 \the\LT@p@ftn
11848 \noexpand\LTRfootnotetext[\the\c@footnote]%
11849 }%
11850 \global\LT@p@ftn\expandafter{\@tempa{#1}}%
11851 }%
11852 \long\def\LT@p@LTRftntext#1{%
11853 \edef\@tempa{%
11854 \the\LT@p@ftn
11855 \begingroup
11856 \noexpand\c@footnote=\the\c@footnote\relax
11857 \noexpand\protected@xdef\noexpand\@thefnmark{%
11858 \noexpand\thempfn
11859 }%
11860 \noexpand\Hy@LT@LTRfootnotetext{%
11861 \Hy@footnote@currentHref
11862 }%
11863 }%
11864 \global\LT@p@ftn\expandafter{%
11865 \@tempa{#1}%
11866 \endgroup
11867 }%
11868 }%
11869 \long\def\Hy@LT@LTRfootnotetext#1#2{%
11870 \HLTR@@LTRfootnotetext{%
11871 \ifHy@nesting
11872 \hyper@@anchor{#1}{#2}%
11873 \else
11874 \Hy@raisedlink{%
11875 \hyper@@anchor{#1}{\relax}%
11876 }%
11877 \def\@currentHref{#1}%
11878 \let\@currentlabelname\@empty
11879 #2%
11880 \fi
11881 }%
11882 }%
11883 \CheckCommand*{\LT@p@RTLftntext}[1]{%
11884 \edef\@tempa{%
11885 \the\LT@p@ftn
11886 \noexpand\RTLfootnotetext[\the\c@footnote]%
11887 }%
11888 \global\LT@p@ftn\expandafter{\@tempa{#1}}%
11889 }%
11890 \long\def\LT@p@RTLftntext#1{%
11891 \edef\@tempa{%
11892 \the\LT@p@ftn

```



```

11893     \begingroup
11894     \noexpand\c@footnote=\the\c@footnote\relax
11895     \noexpand\protected@xdef\noexpand\@thefnmark{%
11896         \noexpand\thempfn
11897     }%
11898     \noexpand\Hy@LT@RTLfootnotetext{%
11899         \Hy@footnote@currentHref
11900     }%
11901 }%
11902 \global\LT@p@ftn\expandafter{%
11903     \@tempa{#1}%
11904 }%
11905 \endgroup
11906 }%
11907 \long\def\Hy@LT@RTLfootnotetext#1#2{%
11908     \HRTL@RTLfootnotetext{%
11909         \ifHy@nesting
11910             \hyper@@anchor{#1}{#2}%
11911         \else
11912             \Hy@raisedlink{%
11913                 \hyper@@anchor{#1}{\relax}%
11914             }%
11915             \def\@currentHref{#1}%
11916             \let\@currentlabelname\@empty
11917             #2%
11918         \fi
11919     }%
11920 }%
11921 }{}%
11922 \@ifpackageloaded{bidipoem}{%
11923     \long\def\bidipoem@p@ftntext#1{%
11924         \edef\@tempx{%
11925             \the\bidipoem@p@ftn
11926         }%
11927         \begingroup
11928         \noexpand\csname c@\@mpfn\endcsname=\the\csname c@\@mpfn\endcsname\relax
11929         \noexpand\protected@xdef\noexpand\@thefnmark{%
11930             \noexpand\thempfn
11931         }%
11932         \noexpand\Hy@bidipoem@footnotetext{%
11933             \Hy@footnote@currentHref
11934         }%
11935     }%
11936     \global\bidipoem@p@ftn\expandafter{%
11937         \@tempx{#1}%
11938     }%
11939 }%
11940 \long\def\Hy@bidipoem@footnotetext#1#2{%
11941     \H@footnotetext{%
11942         \ifHy@nesting

```



```

11943         \hyper@@anchor{#1}{#2}%
11944     \else
11945         \Hy@raisedlink{%
11946             \hyper@@anchor{#1}{\relax}%
11947         }%
11948     \def\@currentHref{#1}%
11949     \let\@currentlabelname\@empty
11950     #2%
11951     \fi
11952 }%
11953 }%
11954     \long\def\bidipoem@p@LTRftntext#1{%
11955     \edef\@tempxi{%
11956         \the\bidipoem@p@ftn
11957         \begingroup
11958             \noexpand\csname c@\@mpfn\endcsname=\the\csname c@\@mpfn\endcsname\relax
11959             \noexpand\protected@xdef\noexpand\@thefnmark{%
11960                 \noexpand\thempfn
11961             }%
11962             \noexpand\Hy@bidipoem@LTRfootnotetext{%
11963                 \Hy@footnote@currentHref
11964             }%
11965         }%
11966         \global\bidipoem@p@ftn\expandafter{%
11967             \@tempxi{#1}%
11968         \endgroup
11969     }%
11970 }%
11971 \long\def\Hy@bidipoem@LTRfootnotetext#1#2{%
11972     \HLTR@@@LTRfootnotetext{%
11973         \ifHy@nesting
11974             \hyper@@anchor{#1}{#2}%
11975         \else
11976             \Hy@raisedlink{%
11977                 \hyper@@anchor{#1}{\relax}%
11978             }%
11979             \def\@currentHref{#1}%
11980             \let\@currentlabelname\@empty
11981             #2%
11982         \fi
11983     }%
11984 }%
11985     \long\def\bidipoem@p@RTLftntext#1{%
11986     \edef\@tempxii{%
11987         \the\bidipoem@p@ftn
11988         \begingroup
11989             \noexpand\csname c@\@mpfn\endcsname=\the\csname c@\@mpfn\endcsname\relax
11990             \noexpand\protected@xdef\noexpand\@thefnmark{%
11991                 \noexpand\thempfn
11992             }%

```



```

11993         \noexpand\Hy@bidipoem@RTLfootnotetext{%
11994             \Hy@footnote@currentHref
11995         }%
11996     }%
11997     \global\bidipoem@p@ftn\expandafter{%
11998         \@tempxi{#1}%
11999     \endgroup
12000 }%
12001 }%
12002 \long\def\Hy@bidipoem@RTLfootnotetext#1#2{%
12003     \HRTL@RTLfootnotetext{%
12004         \ifHy@nesting
12005             \hyper@@anchor{#1}{#2}%
12006         \else
12007             \Hy@raisedlink{%
12008                 \hyper@@anchor{#1}{\relax}%
12009             }%
12010             \def\@currentHref{#1}%
12011             \let\@currentlabelname\@empty
12012             #2%
12013         \fi
12014     }%
12015 }%
12016 }{%
12017     \let\HyOrg@maketitle\maketitle
12018     \def\maketitle{%
12019         \let\Hy@saved@footnotemark\@footnotemark
12020         \let\Hy@saved@footnotetext\@footnotetext
12021         \let\HyRTL@saved@RTLfootnotetext\@RTLfootnotetext
12022         \let\HyLTR@saved@LTRfootnotetext\@LTRfootnotetext
12023         \let\@footnotemark\H@@footnotemark
12024         \let\@footnotetext\H@@footnotetext
12025         \let\@RTLfootnotetext\HRTL@RTLfootnotetext
12026         \let\@LTRfootnotetext\HLTR@LTRfootnotetext
12027         \@ifnextchar[\Hy@maketitle@optarg{% ]
12028             \HyOrg@maketitle
12029             \Hy@maketitle@end
12030         }%
12031     }%
12032     \def\Hy@maketitle@optarg[#1]{%
12033         \HyOrg@maketitle[{#1}]%
12034         \Hy@maketitle@end
12035     }%
12036     \def\Hy@maketitle@end{%
12037         \ifx\@footnotemark\H@@footnotemark
12038             \let\@footnotemark\Hy@saved@footnotemark
12039         \fi
12040         \ifx\@footnotetext\H@@footnotetext
12041             \let\@footnotetext\Hy@saved@footnotetext
12042         \fi

```





```

12043 \ifx\@RTLfootnotetext\HRTL\@RTLfootnotetext
12044 \let\@RTLfootnotetext\HyRTL@saved@RTLfootnotetext
12045 \fi
12046 \ifx\@LTRfootnotetext\HLTR\@LTRfootnotetext
12047 \let\@LTRfootnotetext\HyLTR@saved@LTRfootnotetext
12048 \fi
12049 }%
12050 \def\realfootnote{%
12051 \ifnextchar[\@xfootnote{%
12052 \stepcounter{\@mpfn}%
12053 \protected@xdef\@thefnmark{\thempfn}%
12054 \H@footnotemark\H@footnotetext
12055 }%
12056 }%
12057 \fi
12058 \def\Hy@BeginAnnot#1{%
12059 \ifmmode\else\beginL\fi%
12060 \global\advance\c@Hy@AnnotLevel\@ne
12061 \ifnum\c@Hy@AnnotLevel=\@ne
12062 #1%
12063 \fi
12064 }
12065 \def\Hy@EndAnnot{%
12066 \ifnum\c@Hy@AnnotLevel=\@ne
12067 \Hy@endcolorlink
12068 \@pdfmark{eann}%
12069 \fi
12070 \global\advance\c@Hy@AnnotLevel\m@ne
12071 \ifmmode\else\endL\fi%
12072 }
12073 \def\hyper@link#1#2#3{%
12074 \hyper@linkstart{#1}{#2}\ifmmode\else\if@RTL\beginR\fi\fi#3\ifmmode\else\if@RTL\endR\fi\fi%
12075 }
12076 \def\hyper@linkfile#1#2#3{%
12077 \leavevmode
12078 \Hy@BeginAnnot{%
12079 \def\Hy@pstringF{#2}%
12080 \Hy@CleanupFile\Hy@pstringF
12081 \Hy@pstringdef\Hy@pstringF\Hy@pstringF
12082 \Hy@pstringdef\Hy@pstringD{#3}%
12083 \Hy@MakeRemoteAction
12084 \@pdfmark{%
12085 bann<<%
12086 /Type/Annot%
12087 /Subtype/Link%
12088 \ifHy@pdfa /F 4\fi
12089 \Hy@setpdfborder
12090 \ifx\@filebordercolor\relax
12091 \else
12092 /C[\@filebordercolor]%

```



```

12093     \fi
12094     /A<<%
12095     /S/GoToR%
12096     /F(\Hy@pstringF)%
12097     /D%
12098     \ifx\#3\%
12099         [\Hy@href@page\@pdfremotestartview]%
12100     \else
12101         (\Hy@pstringD)%
12102     \fi
12103     \Hy@SetNewWindow
12104     \Hy@href@nextactionraw
12105     >>%
12106     >>%
12107     }%
12108     \Hy@colorlink\@filecolor
12109     }%
12110     \ifmode\else\if@RTL\beginR\fi\fi#1\ifmode\else\if@RTL\endR\fi\fi\Hy@xspace@end
12111     \Hy@endAnnot
12112 }
12113 \def\@hyper@launch run:#1\#2#3{% filename, anchor text linkname
12114     \leavevmode
12115     \Hy@BeginAnnot{%
12116         \Hy@pstringdef\Hy@pstringF{#1}%
12117         \Hy@pstringdef\Hy@pstringP{#3}%
12118         \@pdfm@mark{%
12119             bann<<%
12120             /Type/Annot%
12121             /Subtype/Link%
12122             \ifHy@pdfa /F 4\fi
12123             \Hy@setpdfborder
12124             \ifx\@runbordercolor\relax
12125             \else
12126                 /C[\@runbordercolor]%
12127             \fi
12128             /A<<%
12129             /F(\Hy@pstringF)%
12130             /S/Launch%
12131             \Hy@SetNewWindow
12132             \ifx\#3\%
12133             \else
12134                 /Win<</P(\Hy@pstringP)/F(\Hy@pstringF)>>%
12135             \fi
12136             \Hy@href@nextactionraw
12137             >>%
12138             >>%
12139             }%
12140             \Hy@colorlink\@runcolor
12141         }%
12142         \ifmode\else\if@RTL\beginR\fi\fi#2\ifmode\else\if@RTL\endR\fi\fi\Hy@xspace@end

```



```

12143 \Hy@EndAnnot
12144 }
12145 \def\hyper@linkurl#1#2{%
12146 \leavevmode
12147 \Hy@BeginAnnot{%
12148 \Hy@pstringdef\Hy@pstringURI{#2}%
12149 \@pdfm@mark{%
12150 bann<<%
12151 /Type/Annot%
12152 /Subtype/Link%
12153 \ifHy@pdfa /F 4\fi
12154 \Hy@setpdfborder
12155 \ifx\@urlbordercolor\relax
12156 \else
12157 /C[\@urlbordercolor]%
12158 \fi
12159 /A<<%
12160 /S/URI%
12161 /URI(\Hy@pstringURI)%
12162 \ifHy@href@ismap
12163 /IsMap true%
12164 \fi
12165 \Hy@href@nextactionraw
12166 >>%
12167 >>%
12168 }%
12169 \Hy@colorlink\@urlcolor
12170 }%
12171 \ifmmode\else\if@RTL\beginR\fi\fi#1\ifmmode\else\if@RTL\endR\fi\fi\Hy@xspace@end
12172 \Hy@EndAnnot
12173 }
12174 \def\Acrobatmenu#1#2{%
12175 \Hy@Acrobatmenu{#1}{#2}%
12176 \Hy@BeginAnnot{%
12177 \EdefEscapeName\Hy@temp@menu{#1}%
12178 \@pdfm@mark{%
12179 bann<<%
12180 /Type/Annot%
12181 /Subtype/Link%
12182 \ifHy@pdfa /F 4\fi
12183 \Hy@setpdfborder
12184 \ifx\@menubordercolor\relax
12185 \else
12186 /C[\@menubordercolor]%
12187 \fi
12188 /A<<%
12189 /S/Named%
12190 /N/\Hy@temp@menu
12191 \Hy@href@nextactionraw
12192 >>%

```



```

12193         >>%
12194     }%
12195     \Hy@colorlink\@menucolor
12196 }%
12197 \ifmmode\else\if@RTL\beginR\fi\fi#2\ifmmode\else\if@RTL\endR\fi\fi\Hy@xspace@end
12198 \Hy@EndAnnot
12199 }%
12200 }
12201 \def\hyper@natlinkstart#1{%
12202     \Hy@backout{#1}%
12203     \hyper@linkstart{cite}{cite.#1}\if@RTL\beginR\fi%
12204     \def\hyper@nat@current{#1}%
12205 }
12206 \def\hyper@natlinkend{%
12207     \if@RTL\endR\fi\hyper@linkend
12208 }
12209 \def\hyper@natlinkbreak#1#2{%
12210     \if@RTL\endR\fi\hyper@linkend#1\hyper@linkstart{cite}{cite.#2}\if@RTL\beginR\fi%
12211 }%
12212 }
12213 \pdfstringdefDisableCommands{%
12214     \let\LRE\@firstofone
12215     \let\LR\@firstofone
12216     \let\RLE\@firstofone
12217     \let\RL\@firstofone
12218     \def\XeTeX{Xe\TeX}
12219     \def\XeLaTeX{Xe\LaTeX}
12220 }
12221 \ifpackageloaded{longtable}{%
12222     \begingroup
12223     \def\y{\LT@array}%
12224     \ifundefined{scrLT@array}{%
12225         \ifundefined{adlLT@array}{\def\y{\adlLT@array}}%
12226     }\def\y{\scrLT@array}%
12227     \long\def\x\refstepcounter#1#2\sharp#3#4\@nil{%
12228         \expandafter\endgroup
12229         \expandafter\def\y[##1]##2{%
12230             \H@refstepcounter{#1}%
12231             \hyper@makecurrent{table}%
12232             \let\Hy@LT@currentHref\@currentHref
12233             #2\sharp####4%
12234         }%
12235     }%
12236     \expandafter\expandafter\expandafter\x\y[#1]{#2}\@nil
12237     \begingroup
12238     \def\x#1\ifvoid\LT@foot#2\fi#3\@nil{%
12239         \endgroup
12240         \def\LT@start{%
12241             #1%
12242             \ifvoid\LT@foot#2\fi

```



```

12243         \let\@currentHref\Hy@LT@currentHref
12244         \Hy@raisedlink{%
12245             \hyper@anchorstart{\@currentHref}\hyper@anchorend
12246         }%
12247         #3%
12248     }%
12249 }%
12250 \expandafter\x\LT@start\@nil
12251 }{}

```

## 7.70 imspc-xetex-bidi.def

```

12252 \ProvidesFile{imspc-xetex-bidi.def}[2017/06/09 v0.1 bidi adaptations for imspc class for
12253 \newenvironment{thebibliography}[1]{%
12254     \@bibtitlestyle
12255     \normalfont\bibliofont\labelsep .5em\relax
12256     \renewcommand\theenumiv{\arabic{enumiv}}\let\p@enumiv\@empty
12257     \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
12258     \bidi@thebibliography@font@hook
12259     \list{\@biblabel{\theenumiv}}{\settowidth\labelwidth{\@biblabel{#1}}%
12260         \leftmargin\labelwidth \advance\leftmargin\labelsep
12261         \usecounter{enumiv}}}%
12262     \sloppy \clubpenalty\@M \widowpenalty\clubpenalty
12263     \sfcode\.\@m
12264 }{%
12265     \def\@noitemerr{\@latex@warning{Empty `thebibliography' environment}}%
12266     \endlist
12267 }
12268
12269 \def\theindex{\@restonecoltrue\if@twocolumn\@restonecolfalse\fi
12270     \columnseprule\z@ \columnsep 35\p@
12271     \@indextitlestyle
12272     \thispagestyle{plain}%
12273     \let\item\@idxitem
12274     \parindent\z@ \parskip\z@\@plus.3\p@\relax
12275     \if@RTL\raggedleft\else\raggedright\fi
12276     \hyphenpenalty\@M
12277     \footnotesize}
12278 \def\@idxitem{\par\hangindent \if@RTL-\fi2em}
12279 \def\subitem{\par\hangindent \if@RTL-\fi2em\hspace*{1em}}
12280 \def\subsubitem{\par\hangindent \if@RTL-\fi3em\hspace*{2em}}
12281
12282 \def\right@footnoterule{%
12283     \kern-.4\p@
12284     \hbox to \columnwidth{\hskip \dimexpr\columnwidth-5pc\relax \hrulefill }
12285     \kern11\p@\kern-\footnotesep}
12286 \def\left@footnoterule{\kern-.4\p@
12287     \hrule\@width 5pc\kern11\p@\kern-\footnotesep}
12288 \def\@makefnmark{%
12289     \leavevmode

```



```

12290 \raise.9ex\hbox{\fontsize\sf@size\z@\normalfont\@thefnmark}%
12291 }
12292
12293 \def\part{\@startsection{part}{0}%
12294 \z@\linespacing\@plus\linespacing}{.5\linespacing}%
12295 {\normalfont\bfseries\if@RTL\raggedleft\else\raggedright\fi}}
12296 \def\@tocline#1#2#3#4#5#6#7{\relax
12297 \ifnum #1>\c@tocdepth % then omit
12298 \else
12299 \par \addpenalty\@secpenalty\addvspace{#2}%
12300 \begingroup \hyphenpenalty\@M
12301 \@ifempty{#4}{%
12302 \@tempdima\csname r@tocindent\number#1\endcsname\relax
12303 }{%
12304 \@tempdima#4\relax
12305 }%
12306 \parindent\z@ \if@RTL\righskip\else\leftskip\fi#3\relax \advance\if@RTL\righskip\else\l
12307 \if@RTL\leftskip\else\righskip\fi\@pnumwidth plus4em \parfillskip-\@pnumwidth
12308 #5\leavevmode\hskip-\@tempdima #6\nobreak\relax
12309 \hfil\hbox to\@pnumwidth{\@tocpagenum{#7}}\par
12310 \nobreak
12311 \endgroup
12312 \fi}
12313 \renewcommand\thesubsection {\thesection\@SepMark\arabic{subsection}}
12314 \renewcommand\thesubsubsection {\thesubsection \@SepMark\arabic{subsubsection}}
12315 \renewcommand\theparagraph {\thesubsubsection\@SepMark\arabic{paragraph}}
12316 \renewcommand\thesubparagraph {\theparagraph\@SepMark\arabic{subparagraph}}
12317 \def\maketitle{\par
12318 \@topnum\z@ % this prevents figures from falling at the top of page 1
12319 \@setcopyright
12320 \thispagestyle{firstpage}% this sets first page specifications
12321 \uppercase\nonmath\shorttitle
12322 \ifx\@empty\shortauthors \let\shortauthors\shorttitle
12323 \else \andify\shortauthors
12324 \fi
12325 \@maketitle@hook
12326 \begingroup
12327 \@maketitle
12328 \toks@{\xp{\shortauthors}}\@temptokena{\xp{\shorttitle}}%
12329 \toks4{\def\{\ \ignorespaces}}% defend against questionable usage
12330 \edef\@tempa{%
12331 \nx\markboth{\the\toks4
12332 \nx\MakeUppercase{\the\toks@}}{\the\@temptokena}}%
12333 \@tempa
12334 \endgroup
12335 \c@footnote\z@
12336 \cleartopmattertags
12337 }

```



## 7.71 leqno-xetex-bidi.def

```
12338 \ProvidesFile{leqno-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for leqno tag for XeTeX
12339 \renewcommand\@eqnnum{\hb@xt@.01\p@{}}%
12340 \rlap{
12341 \hskip -\displaywidth{\normalfont\normalcolor\if@RTL\beginR\fi(\theeq
```

## 7.72 letter-xetex-bidi.def

```
12342 \ProvidesFile{letter-xetex-bidi.def}[2015/11/14 v0.3 bidi adaptations for standard letter cla
12343 \renewcommand*\@opening{[1]{\ifx\@empty\fromaddress
12344 \thispagestyle{firstpage}%
12345 {\if@RTL\raggedright\else\raggedleft\fi\@date\par}%
12346 \else % home address
12347 \thispagestyle{empty}%
12348 {\if@RTL\raggedright\else\raggedleft\fi\if@RTL\begin{tabular}{r@{}}\else\begin{tabular}{l
12349 \fromaddress \*[2\parskip]%
12350 \@date \end{tabular}\par}%
12351 \fi
12352 \vspace{2\parskip}%
12353 {\if@RTL\raggedleft\else\raggedright\fi \toname \ \ toaddress \par}%
12354 \vspace{2\parskip}%
12355 #1\par\nobreak}
12356 \renewcommand\left@footnoterule{%
12357 \kern-\p@
12358 \hrule \@width .4\columnwidth
12359 \kern .6\p@}
12360 \renewcommand\right@footnoterule{%
12361 \kern-\p@
12362 \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
12363 \kern .6\p@}
```

## 7.73 lettrine-xetex-bidi.def

```
12364 \ProvidesFile{lettrine-xetex-bidi.def}[2015/02/17 v0.5 bidi adaptations for lettrine package
12365 \def\@lettrine[#1]#2#3{%
12366 \setcounter{L@lines}{\theDefaultLines}%
12367 \setcounter{L@depth}{\theDefaultDepth}%
12368 \renewcommand*\@L@hang{\DefaultLhang}%
12369 \renewcommand*\@L@oversize{\DefaultLoversize}%
12370 \renewcommand*\@L@raise{\DefaultLraise}%
12371 \renewcommand*\@L@ante{\}%
12372 \setlength{\@L@Findent}{\DefaultFindent}%
12373 \setlength{\@L@Nindent}{\DefaultNindent}%
12374 \setlength{\@L@slope}{\DefaultSlope}%
12375 \setlength{\@L@novskip}{\DiscardVskip}%
12376 \ifLettrineImage\L@imagetrue\else\L@imagefalse\fi
12377 \ifLettrineOnGrid\L@gridtrue\else\L@gridfalse\fi
12378 \if\DefaultOptionsFile\relax
12379 \else
12380 \begingroup
12381 \InputIfFileExists{\DefaultOptionsFile}%
```



```

12382     {}%
12383     {\PackageWarning{lettrine.sty}%
12384       {File \DefaultOptionsFile\space not found}%
12385     }%
12386     \def\color##1##{\l@color{##1}}%
12387     \let\l@color\@gobbletwo
12388     \def\textcolor##1##{\l@textcolor{##1}}%
12389     \def\l@textcolor##1##2##3{##3}%
12390     \expandafter\ifx\csname l@#2-keys\endcsname\relax
12391       \gdef\l@L@Keys{}%
12392     \else
12393       \xdef\l@L@Keys{\csname l@#2-keys\endcsname}%
12394     \fi
12395     \endgroup
12396     \def\KV@prefix{KV@L@}%
12397     \let\@tempc\relax
12398     \expandafter\KV@do\l@L@Keys,\relax,
12399     \sbox{\L@lbox}{\LettrineFont #2}%
12400     \setlength{\LettrineWidth}{\wd\L@lbox}%
12401     \def\KV@prefix{KV@L@}%
12402     \let\@tempc\relax
12403     \expandafter\KV@do\l@L@Keys,\relax,
12404     \fi
12405     \setkeys{L}{#1}%
12406     \ifL@image
12407       \sbox{\L@lbox}{\LettrineFontEPS{#2}}%
12408     \else
12409       \sbox{\L@lbox}{\LettrineFont #2}%
12410     \fi
12411     \sbox{\L@tbox}{\LettrineTextFont{#3}}%
12412     \@tempdima=\baselineskip
12413     \ifnum\theL@lines=1
12414       \setlength{\L@first}{\ht\L@lbox}%
12415       \addtolength{\L@first}{-\ht\L@tbox}%
12416       \setlength{\L@lraise}{\z@}%
12417     \else
12418       \setlength{\L@first}{-\theL@lines\@tempdima}%
12419       \addtolength{\L@first}{\@tempdima}%
12420       \sbox{\@tempboxa}{\LettrineTextFont x}%
12421       \addtolength{\L@first}{-\ht\@tempboxa}%
12422       \setlength{\L@lraise}{-\L@raise\L@first}%
12423       \addtolength{\L@first}{\L@lraise}%
12424       \addtolength{\L@first}{\ht\L@lbox}%
12425       \addtolength{\L@lraise}{-\theL@lines\@tempdima}%
12426       \addtolength{\L@lraise}{\@tempdima}%
12427     \fi
12428     \par
12429     \ifdim\L@first>\L@novskip
12430       \ifL@grid
12431         \@tempdima=\baselineskip

```





```

12432     \@tempdimb=\@tempdima
12433     \advance\@tempdimb by \L@novskip
12434     \@tempcnta=1
12435     \loop\ifdim\L@first>\@tempdimb
12436         \advance\@tempcnta by 1
12437         \advance\L@first by -\@tempdima
12438     \repeat
12439     \vskip\@tempcnta\baselineskip
12440 \else
12441     \vskip\L@first
12442 \fi
12443 \fi
12444 \setlength{\L@Pindent}{\wd\L@lbox}%
12445 \addtolength{\L@Pindent}{-\L@hang\wd\L@lbox}%
12446 \settowidth{\L@first}{\L@ante}%
12447 \addtolength{\L@Pindent}{\L@first}%
12448 \addtolength{\L@Pindent}{\L@Findent}%
12449 \setlength{\L@first}{\linewidth}%
12450 \addtolength{\L@first}{-\L@Pindent}%
12451 \addtolength{\L@Nindent}{\L@Pindent}%
12452 \setlength{\L@next}{\linewidth}%
12453 \addtolength{\L@next}{-\L@Nindent}%
12454 \addtolength{\L@Pindent}{\rightmargin}%
12455 \addtolength{\L@Nindent}{\rightmargin}%
12456 \setlength{\LettrineWidth}{\wd\L@lbox}%
12457 \setlength{\LettrineHeight}{\ht\L@lbox}%
12458 \setlength{\LettrineDepth}{\dp\L@lbox}%
12459 \addtocounter{L@lines}{1}%
12460 \addtocounter{L@lines}{\the\c@L@depth}%
12461 \if@RTL\def\L@parshape{\c@L@lines Opt \the\L@first}\else\def\L@parshape{\c@L@lines \the\L@P
12462 \@tempcnta=\tw@
12463 \@whilenum \@tempcnta<\c@L@lines\do{%
12464     \if@RTL\edef\L@parshape{\L@parshape Opt \the\L@next}\else\edef\L@parshape{\L@parshape \t
12465     \addtolength{\L@Nindent}{\L@slope}%
12466     \addtolength{\L@next}{-\L@slope}%
12467     \advance\@tempcnta\@ne}%
12468 \if@RTL \edef\L@parshape{\L@parshape Opt \the\linewidth}\else\edef\L@parshape{\L@parshape \
12469 \noindent
12470 \parshape=\L@parshape\relax
12471 \smash{\llap{\mbox{\L@ante}\raisebox{\L@lraise}{\usebox{\L@lbox}}}%
12472     \hskip \the\L@Findent}}%
12473 \usebox{\L@tbox}%
12474 }

```

## 7.74 listings-xetex-bidi.def

```

12475 \ProvidesFile{listings-xetex-bidi.def}[2017/01/14 v1.4 bidi adaptations for listings package]
12476 \lst@Key{captiondirection}{textdirection}{%
12477     \lstKV@SwitchCases{#1}%
12478     {textdirection&\\%

```



```

12479     RTL&\chardef\bidi@lst@caption@direction\@ne\\%
12480     LTR&\chardef\bidi@lst@caption@direction\z@%
12481     }\PackageError{Listings}{direction #1 unknown}\@ehc}}
12482
12483 \lst@Key{captionscript}{textscript}{%
12484     \lstKV@SwitchCases{#1}%
12485     {textscript&\\%
12486     latin&\chardef\bidi@lst@caption@script\@ne\\%
12487     nonlatin&\chardef\bidi@lst@caption@script\z@%
12488     }\PackageError{Listings}{direction #1 unknown}\@ehc}}
12489
12490 \newcommand*{\bidi@lst@ensure@caption@direction}[2]{%
12491     \@ifundefined{bidi@lst@caption@direction}{%
12492         \ifnum\bidi@lst@caption@direction=\z@%
12493             #1%
12494         \else%
12495             \ifnum\bidi@lst@caption@direction=\@ne%
12496                 #2%
12497             \fi%
12498         \fi%
12499     }}
12500
12501 \newcommand*{\bidi@lst@ensure@caption@script}[2]{%
12502     \@ifundefined{bidi@lst@caption@script}{%
12503         \ifnum\bidi@lst@caption@script=\z@%
12504             #1%
12505         \else%
12506             \ifnum\bidi@lst@caption@script=\@ne%
12507                 #2%
12508             \fi%
12509         \fi%
12510     }}
12511
12512 \long\def\@bidi@lst@makecaption#1#2{%
12513     \bidi@lst@ensure@caption@script{\@nonlatintrue}{\@nonlatinfalse}%
12514     \vskip\abovecaptionskip
12515     \bidi@lst@ensure@caption@direction{\@RTLfalse}{\@RTLtrue}%
12516     \sbox\@tempboxa{%
12517         \bidi@lst@ensure@caption@direction{\beginL}{\beginR}%
12518         #1: #2%
12519         \bidi@lst@ensure@caption@direction{\endL}{\endR}%
12520     }%
12521     \ifdim \wd\@tempboxa >\hsize
12522         #1: #2\par
12523     \else
12524         \global \@minipagefalse
12525         \hb@xt@\hsize{\hfil\box\@tempboxa\hfil}%
12526     \fi
12527     \vskip\belowcaptionskip}%
12528 \def\lst@makecaption{\@bidi@lst@makecaption}

```



```

12529 \def\lst@maketitle{\@bidi@lst@makecaption\lst@title@dropdelim}
12530 \bidi@AtEndPreamble{%
12531 \bidi@patchcmd{\lst@MakeCaption}{%
12532     \ifx #1%
12533         \ifx\lst@caption\@empty\expandafter\lst@HRefStepCounter \else
12534             \expandafter\refstepcounter
12535         \fi {lstlisting}%
12536 }{%
12537     \ifx #1%
12538         \bidi@lst@ensure@caption@direction{\@RTLfalse}{\@RTLtrue}%
12539         \ifx\lst@caption\@empty\expandafter\lst@HRefStepCounter \else
12540             \expandafter\refstepcounter
12541         \fi {lstlisting}%
12542         \bidi@lst@ensure@caption@direction{\@RTLfalse}{\@RTLfalse}%
12543 }{}{}%
12544 \bidi@patchcmd{\lst@MakeCaption}{%
12545     \addcontentsline{lol}{lstlisting}%
12546     {\protect\numberline{\thelstlisting}\lst@caption}%
12547 }{%
12548 \begingroup%
12549     \bidi@lst@ensure@caption@direction{\@RTLfalse}{\@RTLtrue}%
12550     \addcontentsline{lol}{lstlisting}%
12551     {\protect\numberline{\thelstlisting}\lst@caption}%
12552 \endgroup%
12553 }{}{}%
12554 }
12555 \@ifpackageloaded{caption}{%
12556     \AtBeginCaption{%
12557         \bidi@lst@ensure@caption@script{\@nonlatintrue}{\@nonlatinfalse}%
12558         \bidi@lst@ensure@caption@direction{\@RTLfalse}{\@RTLtrue}%
12559     }
12560     \let\@bidi@lst@makecaption\caption@makecaption%
12561     \def\lst@makecaption{\caption@starfalse\@bidi@lst@makecaption}%
12562     \def\lst@maketitle{\caption@startrue\@bidi@lst@makecaption\@empty}%
12563 }{%
12564 \AtBeginDocument{%
12565     \@ifundefined{captionlabelfalse}{}{}%
12566     \def\lst@maketitle{\captionlabelfalse\@bidi@lst@makecaption\@empty}%
12567     \@ifundefined{caption@startrue}{}{}%
12568     \def\lst@maketitle{\caption@startrue\@bidi@lst@makecaption\@empty}%
12569 }%
12570 }
12571 \AtBeginDocument{
12572     \@ifundefined{thechapter}{\let\lst@ifnumberbychapter\iffalse}{}
12573     \lst@ifnumberbychapter
12574         \gdef\thelstlisting%
12575             {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@lstlisting}
12576     \else
12577         \gdef\thelstlisting{\@arabic\c@lstlisting}
12578     \fi}

```



## 7.75 loadingorder-xetex-bidi.def

```
12579 \ProvidesFile{loadingorder-xetex-bidi.def}[2015/10/16 v0.96 making sure that bidi is the last
12580 \bidi@isloaded{amsmath}
12581 \bidi@isloaded{amstext}
12582 \bidi@isloaded{amsthm}
12583 \bidi@isloaded{animate}
12584 \bidi@isloaded{breqn}
12585 \bidi@isloaded{cals}
12586 \bidi@isloaded{caption}
12587 \bidi@isloaded{crop}
12588 \bidi@isloaded{cuted}
12589 \bidi@isloaded{cutwin}
12590 \bidi@isloaded{color}
12591 \bidi@isloaded{dblfnote}
12592 \bidi@isloaded{xcolor}
12593 \bidi@isloaded{colortbl}
12594 \bidi@isloaded{float}
12595 \bidi@isloaded{floatrow}
12596 \bidi@isloaded{flowfram}
12597 \bidi@isloaded{framed}
12598 \bidi@isloaded{ftnright}
12599 \bidi@isloaded{xltextra}
12600 \bidi@isloaded{xunicode}
12601 \bidi@isloaded{wrapfig}
12602 \bidi@isloaded{graphicx}
12603 \bidi@isloaded{geometry}
12604 \bidi@isloaded{hvfloating}
12605 \bidi@isloaded{mdframed}
12606 \bidi@isloaded{midfloat}
12607 \bidi@isloaded{ntheorem}
12608 \bidi@isloaded{ntheorem-hyper}
12609 \bidi@isloaded{hyperref}
12610 \bidi@isloaded{fancybox}
12611 \bidi@isloaded{fancyhdr}
12612 \bidi@isloaded{fix2col}
12613 \bidi@isloaded{draftwatermark}
12614 \bidi@isloaded{empheq}
12615 \bidi@isloaded{overpic}
12616 \bidi@isloaded{pdfpages}
12617 \bidi@isloaded{listings}
12618 \bidi@isloaded{lettrine}
12619 \bidi@isloaded{media9}
12620 \bidi@isloaded{pstricks}
12621 \bidi@isloaded{pgf}
12622 \bidi@isloaded{pictinpar}
12623 \bidi@isloaded{quotchap}
12624 \bidi@isloaded{tikz}
12625 \bidi@isloaded{titlesec}
12626 \bidi@isloaded{titletoc}
```



```

12627 \bidi@isloaded{array}
12628 \bidi@isloaded{soul}
12629 \bidi@isloaded{stabular}
12630 \bidi@isloaded{subfig}
12631 \bidi@isloaded{subfigure}
12632 \bidi@isloaded{supertabular}
12633 \bidi@isloaded{xtab}
12634 \bidi@isloaded{longtable}
12635 \bidi@isloaded{arydshln}
12636 \bidi@isloaded{multicol}
12637 \bidi@isloaded{multienum}
12638 \bidi@isloaded{minitoc}
12639 \bidi@isloaded{natbib}
12640 \bidi@isloaded{newfloat}
12641 \bidi@isloaded{ragged2e}
12642 \bidi@isloaded{rotating}
12643 \bidi@isloaded{tbls}
12644 \bidi@isloaded{tabulary}
12645 \bidi@isloaded{tocbasic}
12646 \bidi@isloaded{tocstyle}
12647 \bidi@isloaded{tocbibind}
12648 \bidi@isloaded{fontspec}
12649 \bidi@isloaded{arabxetex}
12650 \bidi@isloaded{polyglossia}
12651 \bidi@isloaded{fancyvrb}
12652 \AtBeginDocument{
12653   \if@bidi@amsmathloaded@else
12654     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package amsmath after bidi packa
12655   \fi%
12656   \if@bidi@amstextloaded@else
12657     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package amstext after bidi packa
12658   \fi%
12659   \if@bidi@amsthmloaded@else
12660     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package amsthm after bidi packag
12661   \fi%
12662   \if@bidi@animateloaded@else
12663     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package animate after bidi packa
12664   \fi%
12665   \if@bidi@breqnloaded@else
12666     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package breqn after bidi package
12667   \fi%
12668   \if@bidi@calsloaded@else
12669     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package cals after bidi package.
12670   \fi%
12671   \if@bidi@captionloaded@else
12672     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package caption after bidi packa
12673   \fi%
12674   \if@bidi@croploaded@else
12675     \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package crop after bidi package.
12676   \fi%

```



```

12677 \if@bidi@colorloaded@else
12678 \ifpackageloaded{hyperref}{\%
12679 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package color after bidi package
12680 \fi%
12681 \if@bidi@cutwinloaded@else
12682 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package cutwin after bidi package
12683 \fi%
12684 \if@bidi@cutedloaded@else
12685 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package cuted after bidi package
12686 \fi%
12687 \if@bidi@dblfnoteloaded@else
12688 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package dblfnote after bidi pack
12689 \fi%
12690 \if@bidi@xcolorloaded@else
12691 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package xcolor after bidi packag
12692 \fi%
12693 \if@bidi@colortblloaded@else
12694 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package colortbl after bidi pack
12695 \fi%
12696 \if@bidi@floatloaded@else
12697 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package float after bidi package
12698 \fi%
12699 \if@bidi@floatrowloaded@else
12700 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package floatrow after bidi pack
12701 \fi%
12702 \if@bidi@flowframloaded@else
12703 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package flowfram after bidi pack
12704 \fi%
12705 \if@bidi@framedloaded@else
12706 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package framed after bidi packag
12707 \fi%
12708 \if@bidi@ftnrightloaded@else
12709 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package ftnright after bidi pack
12710 \fi%
12711 \if@bidi@xltxttrloaded@else
12712 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package xltextra after bidi packa
12713 \fi%
12714 \if@bidi@xunicodeloaded@else
12715 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package xunicode after bidi pack
12716 \fi%
12717 \if@bidi@wrapfigloaded@else
12718 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package wrapfig after bidi packa
12719 \fi%
12720 \if@bidi@graphicxloaded@else
12721 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package graphicx after bidi pack
12722 \fi%
12723 \if@bidi@geometryloaded@else
12724 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package geometry after bidi pack
12725 \fi%
12726 \if@bidi@hvfloaded@else

```



```

12727 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package hvfloat after bidi packa
12728 \fi%
12729 \if@bidi@mdframedloaded@else
12730 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package mdframed after bidi pack
12731 \fi%
12732 \if@bidi@midfloatloaded@else
12733 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package midfloat after bidi pack
12734 \fi%
12735 \if@bidi@ntheoremloaded@else
12736 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package ntheorem after bidi pack
12737 \fi%
12738 \if@bidi@hyperrefloaded@else
12739 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package hyperref after bidi pack
12740 \fi%
12741 \if@bidi@fancyboxloaded@else
12742 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package fancybox after bidi pack
12743 \fi%
12744 \if@bidi@fancyhdrloaded@else
12745 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package fancyhdr after bidi pack
12746 \fi%
12747 \if@bidi@draftwatermarkloaded@else
12748 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package draftwatermark after bid
12749 \fi%
12750 \if@bidi@empheqloaded@else
12751 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package empheq after bidi packag
12752 \fi%
12753 \if@bidi@overpicloaded@else
12754 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package overpic after bidi packa
12755 \fi%
12756 \if@bidi@pdfpagesloaded@else
12757 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package pdfpages after bidi pack
12758 \fi%
12759 \if@bidi@lettrineloaded@else
12760 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package lettrine after bidi pack
12761 \fi%
12762 \if@bidi@listingsloaded@else
12763 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package listings after bidi pack
12764 \fi%
12765 \csname if@bidi@media9loaded@endcsname\else
12766 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package media9 after bidi packag
12767 \fi%
12768 \if@bidi@pstricksloaded@else
12769 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package pstricks after bidi pack
12770 \fi%
12771 \if@bidi@pgfloaded@else
12772 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package pgf after bidi package.
12773 \fi%
12774 \if@bidi@picinparloaded@else
12775 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package picinpar after bidi pack
12776 \fi%

```



```

12777 \if@bidi@quotchaploaded@\else
12778   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package quotchap after bidi pack
12779 \fi%
12780 \if@bidi@tikzloaded@\else
12781   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package tikz after bidi package.
12782 \fi%
12783 \if@bidi@titlesecloaded@\else
12784   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package titlesec after bidi pack
12785 \fi%
12786 \if@bidi@titletocloaded@\else
12787   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package titletoc after bidi pack
12788 \fi%
12789 \if@bidi@arrayloaded@\else
12790   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package array after bidi package
12791 \fi%
12792 \if@bidi@stabularloaded@\else
12793   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package stabular after bidi pack
12794 \fi%
12795 \if@bidi@soulloaded@\else
12796   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package soul after bidi package.
12797 \fi%
12798 \if@bidi@subfigloaded@\else
12799   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package subfig after bidi packag
12800 \fi%
12801 \if@bidi@subfigureloaded@\else
12802   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package subfigure after bidi pac
12803 \fi%
12804 \if@bidi@supertabularloaded@\else
12805   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package supertabular after bidi
12806 \fi%
12807 \if@bidi@xtabloaded@\else
12808   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package xtab after bidi package.
12809 \fi%
12810 \if@bidi@longtableloaded@\else
12811   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package longtable after bidi pac
12812 \fi%
12813 \if@bidi@arydshlnloaded@\else
12814   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package arydshln after bidi pack
12815 \fi%
12816 \if@bidi@multicolloaded@\else
12817   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package multicol after bidi pack
12818 \fi%
12819 \if@bidi@multienumloaded@\else
12820   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package multienum after bidi pac
12821 \fi%
12822 \if@bidi@minitocloaded@\else
12823   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package minitoc after bidi packa
12824 \fi%
12825 \if@bidi@natbibloaded@\else
12826   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package natbib after bidi packag

```





```

12827 \fi%
12828 \if@bidi@newfloatloaded@else
12829 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package newfloat after bidi pack
12830 \fi%
12831 \csname if@bidi@ragged2eloaded@endcsname\else
12832 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package ragged2e after bidi pack
12833 \fi%
12834 \if@bidi@rotatingloaded@else
12835 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package rotating after bidi pack
12836 \fi%
12837 \if@bidi@tblsloaded@else
12838 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package tbls after bidi package
12839 \fi%
12840 \if@bidi@tabularyloaded@else
12841 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package tabulary after bidi pack
12842 \fi%
12843 \if@bidi@tocbasicloaded@else
12844 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package tocbasic after bidi pack
12845 \fi%
12846 \if@bidi@tocstyleloaded@else
12847 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package tocstyle after bidi pack
12848 \fi%
12849 \if@bidi@tocbibindloaded@else
12850 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package tocbibind after bidi pac
12851 \fi%
12852 \if@bidi@fontspecloaded@else
12853 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package fontspec after bidi pack
12854 \fi%
12855 \if@bidi@arabxetexloaded@else
12856 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package arabxetex after bidi pac
12857 \fi%
12858 \if@bidi@polyglossialloaded@else
12859 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package polyglossia after bidi p
12860 \fi%
12861 \if@bidi@fancyvrbloaded@else
12862 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package fancyvrb after bidi pack
12863 \fi%
12864 }

```

## 7.76 longtable-xetex-bidi.def

```

12865 \ProvidesFile{longtable-xetex-bidi.def}[2016/09/09 v0.4 bidi adaptations for longtable packag
12866 \def\LT@array[#1]#2{%
12867 \refstepcounter{table}\stepcounter{LT@tables}%
12868 \if l#1%
12869 \if@RTLtab\LTleft\fill \LTright\z@else\LTleft\z@ \LTright\fill\fi
12870 \else\if r#1%
12871 \if@RTLtab\LTleft\z@ \LTright\fill\else\LTleft\fill \LTright\z@\fi
12872 \else\if c#1%
12873 \LTleft\fill \LTright\fill

```



```

12874 \fi\fi\fi
12875 \let\LT@mccl\multicolumn
12876 \let\LT@tabarray\@tabarray
12877 \let\LT@hl\hline
12878 \def\@tabarray{%
12879   \let\hline\LT@hl
12880   \LT@tabarray}%
12881 \let\\LT@tabularcr\let\tabularnewline\\%
12882 \def\newpage{\noalign{\break}}%
12883 \def\pagebreak{\noalign{\ifnum`}=0\fi\@testopt{\LT@no@pgbk-}4}%
12884 \def\nopagebreak{\noalign{\ifnum`}=0\fi\@testopt{\LT@no@pgbk4}}%
12885 \let\hline\LT@hl \let\kill\LT@kill\let\caption\LT@caption
12886 \@tempdima\ht\strutbox
12887 \let\@endpbox\LT@endpbox
12888 \ifx\extrarowheight\@undefined
12889   \let\@acol\@tabacol
12890   \let\@classz\@tabclassz \let\@classiv\@tabclassiv
12891   \def\@startpbox{\vtop\LT@startpbox}%
12892   \let\@startpbox\@startpbox
12893   \let\@endpbox\@endpbox
12894   \let\LT@LL@FM@cr\@tabularcr
12895 \else
12896   \advance\@tempdima\extrarowheight
12897   \col@sep\tabcolsep
12898   \let\@startpbox\LT@startpbox\let\LT@LL@FM@cr\@arraycr
12899 \fi
12900 \setbox\@arstrutbox\hbox{\vrule
12901   \@height \arraystretch \@tempdima
12902   \@depth \arraystretch \dp \strutbox
12903   \@width \z@}%
12904 \let\@sharp#\let\protect\relax
12905 \begingroup
12906 \mkpream{#2}%
12907 \xdef\LT@bchunk{%
12908   \global\advance\c@LT@chunks\@ne
12909   \global\LT@rows\z@\setbox\z@\vbox\bgroup
12910   \LT@setprevdepth
12911   \tabskip\LTleft \noexpand\halign to\hsize\bgroup
12912   \tabskip\z@ \@arstrut \@preamble \tabskip\LTRight \cr}%
12913 \endgroup
12914 \expandafter\LT@nofcols\LT@bchunk&\LT@nofcols
12915 \LT@make@row
12916 \m@th\let\par\@empty
12917 \everycr{\lineskip\z@\baselineskip\z@
12918 \LT@bchunk}
12919 \def\LT@makecaption#1#2#3{%
12920 \LT@mccl\LT@cols c{\hbox to\z@{\hss\parbox[t]\LTcapwidth{
12921   \sbox\@tempboxa{\if@RTL\beginR\fi#1{#2: }#3\if@RTL\endR\fi}}%
12922   \ifdim\wd\@tempboxa>\hsize
12923     #1{#2: }#3%

```



```

12924 \else
12925 \hbox to\hsize{\hfil\box\@tempboxa\hfil}%
12926 \fi
12927 \endgraf\vskip\baselineskip}%
12928 \hss}}
12929 \@ifpackageloaded{caption}{%
12930 \renewcommand\LT@makecaption[3]{%
12931 \caption@LT@make{%
12932 \caption@settype*\LTcaptiontype
12933 \ifdim\LTcapwidth=4in \else
12934 \setcaptionwidth\LTcapwidth
12935 \fi
12936 \caption@setoptions{longtable}%
12937 \caption@setoptions{@longtable}%
12938 \caption@LT@setup
12939 \caption@setautoposition{\ifcase\LT@rows t\else b\fi}%
12940 \caption@startrue#1\caption@starfalse
12941 \caption@prepare@stepcounter\LTcaptiontype{LT}%
12942 \caption@begin\LTcaptiontype
12943 \caption@normalsize
12944 \vskip-\ht\strutbox
12945 \caption@iftop{\vskip\belowcaptionskip}{\vskip\abovecaptionskip}%
12946 \caption@@make{#2}{#3}\endgraf
12947 \caption@iftop{\vskip\abovecaptionskip}{\vskip\belowcaptionskip}%
12948 \caption@end}}%
12949 }{}
12950 \def\LT@startpbox#1{%
12951 \bgroup
12952 \let\@footnotetext\LT@p@fnttext
12953 \let\@LTRfootnotetext\LT@p@LTRfnttext
12954 \let\@RTLfootnotetext\LT@p@RTLfnttext
12955 \setlength\hsize{#1}%
12956 \@arrayparboxrestore
12957 \vrule \@height \ht\@arstrutbox \@width \z@}
12958 \def\LT@p@LTRfnttext#1{%
12959 \edef\@tempa{\the\LT@p@fnt\noexpand\LTRfootnotetext[\the\c@footnote]]}%
12960 \global\LT@p@fnt\expandafter{\@tempa{#1}}}%
12961 \def\LT@p@RTLfnttext#1{%
12962 \edef\@tempa{\the\LT@p@fnt\noexpand\RTLfootnotetext[\the\c@footnote]]}%
12963 \global\LT@p@fnt\expandafter{\@tempa{#1}}}%
12964
12965
12966 \def\LT@output{%
12967 \ifnum\outputpenalty <-\@Mi
12968 \ifnum\outputpenalty > -\LT@end@pen
12969 \LT@err{floats and marginpars not allowed in a longtable}\@ehc
12970 \else
12971 \setbox\z@\vbox{\unvbox\@cclv}%
12972 \ifdim \ht\LT@lastfoot>\ht\LT@foot
12973 \dimen@ \pagegoal

```



```

12974      \advance\dimen@-\ht\LT@lastfoot
12975      \ifdim\dimen@<\ht\z@
12976        \setbox\@cclv\vbox{\unvbox\z@\copy\LT@foot\vss}%
12977        \makecol
12978        \@outputpage
12979        \setbox\z@\vbox{\box\LT@head}%
12980      \fi
12981    \fi
12982    \global\@colroom\@colht
12983    \global\vsizel\@colht
12984    \vbox
12985      {\ifRTLtab\hbox\bgroup\beginR\vbox\bgroup\fi\unvbox\z@\box\ifvoid\LT@lastfoot\LT@foot
12986    \fi
12987  \else
12988    \setbox\@cclv\vbox{\ifRTLtab\hbox\bgroup\beginR\vbox\bgroup\fi\unvbox\@cclv\copy\LT@foot
12989    \makecol
12990    \@outputpage
12991    \global\vsizel\@colroom
12992    \copy\LT@head\nobreak
12993  \fi}

```

## 7.77 mdframed-xetex-bidi.def

```

12994 \ProvidesFile{mdframed-xetex-bidi.def}[2013/09/22 v0.4 bidi adaptations for mdframed package
12995 \newif\if@bidi@mdf@RTL
12996 \def\mdf@lrbox#1{%
12997   \mdf@patchamsthm%patch amsthm
12998   \ifRTL\@bidi@mdf@RTLtrue\fi%
12999   \RTLfalse%
13000   \setbox#1\vbox\bgroup%
13001     \color@begingroup%
13002     \if@bidi@mdf@RTL\RTLtrue\fi%
13003     \mdf@horizontalmargin@equation%
13004     \columnwidth=\hsize%
13005     \textwidth=\hsize%
13006     \let\if@nobreak\iffalse%
13007     \let\if@noskipsec\iffalse%
13008     \let\par\@par%
13009     \let-\@dischyph%
13010     \let'\@acci\let'\@accii\let\=\@acciii%
13011     \parindent\z@ \parskip\z@skip%
13012     \linewidth\hsize%
13013     \@totalleftmargin\z@%
13014     \leftskip\z@skip \rightskip\z@skip \@rightskip\z@skip%
13015     \parfillskip\@flushglue \lineskip\normallineskip%
13016     \baselineskip\normalbaselineskip%
13017 %% \sloppy%
13018     \let\\\@normalcr%
13019     \mdf@par@local%New feature to restore parskip/parindent local in save box
13020     \ifbool{mdf@suppressfirstparskip}{\vspace*{-\parskip}}{}%

```



```

13021     \@afterindentfalse%
13022     %\@afterheading%
13023 }
13024 \renewrobustcmd\mdfframetitleenv[1]{%
13025     \mdf@lrbox{\mdf@frametitlebox}%
13026     \mdf@frametitlealignment%
13027     \leavevmode{\color{\mdf@frametitlefontcolor}%
13028         \normalfont\mdf@frametitlefont{#1}
13029     \ifbool{mdf@ignorelastdescenders}%
13030         {%
13031             \par\strut\par
13032             \unskip\unskip\setbox0=\lastbox
13033             \vspace*{\dimexpr\ht\strutbox-\baselineskip\relax}%
13034         }{}}%
13035     \par\unskip\ifvmode\nointerlineskip\hrule \@height\z@ \@width\hsize\fi%%
13036     \endmdf@lrbox\relax%
13037     \mdf@ignorevbadness%
13038     \setbox\mdf@frametitlebox=\vbox{\unvbox\mdf@frametitlebox}%
13039     \mdfframetitleboxwidth=\wd\mdf@frametitlebox\relax%
13040     \mdfframetitleboxheight=\ht\mdf@frametitlebox\relax%
13041     \mdfframetitleboxdepth=\dp\mdf@frametitlebox\relax%
13042     \mdfframetitleboxtotalheight=\dimexpr
13043         \ht\mdf@frametitlebox
13044         +\dp\mdf@frametitlebox%
13045         +\mdf@frametitleaboveskip@length
13046         +\mdf@frametitlebelowskip@length
13047         \relax%
13048 }
13049
13050 \renewrobustcmd*\mdf@footnoteoutput{%
13051     \ifvoid\@mpfootins\else%
13052         \nobreak%
13053         \vskip\mdf@footnotedistance@length%
13054         \normalcolor%
13055         \bidi@mpfootnoterule%
13056         \unvbox\@mpfootins%
13057     \fi%
13058 }
13059
13060
13061 \renewrobustcmd*\mdf@footnoteinput{%
13062     \def\@mpfn{mpfootnote}%
13063     \def\thempfn{\thempfootnote}%
13064     \c@mpfootnote\z@%
13065     \let\@footnotetext\@mpfootnotetext%
13066     \let\@LTRfootnotetext\@mpLTRfootnotetext%
13067     \let\@RTLfootnotetext\@mpRTLfootnotetext%
13068 }

```



## 7.78 bidi-media9.sty

```

13069 \ProvidesExplPackage{bidi-media9}{2016/05/03}{0.2}
13070 {bidi fixes for media9 package for the XeTeX engine}
13071
13072 \keys_define:nn{media9/mbtn}{
13073   draft .code:n = {},
13074   final .code:n = {},
13075
13076   tooltip .tl_gset_x:N = \g_mix_tooltip_tl,
13077   tooltip .value_required:n = {true},
13078
13079   overface .code:n = {
13080     \%hbox_set:Nn\l_mix_poster_box{#1}
13081     \sbox\l_mix_poster_box{\if@RTL\beginR\fi#1\if@RTL\endR\fi}
13082     \mix_pdfxform:n{\l_mix_poster_box}
13083     \tl_gset:Nx\g_mix_overbtn_tl{\mix_pdflastxform:}
13084   },
13085   overface .value_required:n = {true},
13086
13087   downface .code:n = {
13088     \%hbox_set:Nn\l_mix_poster_box{#1}
13089     \sbox\l_mix_poster_box{\if@RTL\beginR\fi#1\if@RTL\endR\fi}
13090     \mix_pdfxform:n{\l_mix_poster_box}
13091     \tl_gset:Nx\g_mix_downbtn_tl{\mix_pdflastxform:}
13092   },
13093   downface .value_required:n = {true},
13094
13095   3Dgotoview .code:n = {
13096     \tl_set:Nx\l_tmpa_tl{#1} %extract ref
13097     \regex_replace_once:nnN{([~:]+):??.*}{\1}\l_tmpa_tl
13098     \tl_trim_spaces:N\l_tmpa_tl
13099     \tl_if_exist:cTF{ann@\l_tmpa_tl}{
13100       \str_if_eq_x:nnF{\tl_use:c{ann@\l_tmpa_tl}}{draft}{
13101         \tl_set:Nx\l_tmpb_tl{#1} %extract idx
13102         \regex_replace_once:nnN{([~:]+:?)}{\1}\l_tmpb_tl
13103         \tl_trim_spaces:N\l_tmpb_tl
13104         \tl_if_blank:VF\l_tmpb_tl{
13105           \regex_match:nVTF{^[DFLNP]$}\l_tmpb_tl{
13106             \tl_set:Nx\l_mix_vidx_tl{/}\l_tmpb_tl}
13107         }{
13108           \regex_match:nVTF{^~\d+}$}\l_tmpb_tl{
13109             \tl_set:Nx\l_mix_vidx_tl{~}\l_tmpb_tl}
13110         }{
13111           \regex_replace_once:nnN{^~\(\s*\)}{\1}\l_tmpb_tl
13112           \regex_replace_once:nnN{\s*\)}{\1}\l_tmpb_tl
13113           \tl_set:Nx\l_mix_vidx_tl{~(\l_tmpb_tl)}
13114         }
13115       }
13116     }

```



```

13117 \mix_pdfobj:nnn{}{dict}{
13118   /S/JavaScript/JS~(
13119     if(typeof(annotRM)=='undefined'){annotRM=new~Array();}
13120     if(typeof(annotRM['\l_tmpa_tl'])=='undefined'){
13121       annotRM['\l_tmpa_tl']=
13122       this.getAnnotRichMedia(\tl_use:c{page@\l_tmpa_tl},'\l_tmpa_tl');
13123     }
13124     annotRM['\l_tmpa_tl'].activated=true;
13125   )
13126   \tl_if_blank:VF\l_tmpb_tl{
13127     /Next~<<
13128     /S/GoTo3DView
13129     /TA~\tl_use:c{ann@\l_tmpa_tl}
13130     /V\l_mix_vidx_tl
13131     >>
13132   }
13133 }
13134 \tl_gput_right:Nx\g_mix_btnactions_tl{~\mix_pdflastobj:}
13135 }
13136 }{
13137   \msg_warning:nnx{media9}{undefined~reference}{\l_tmpa_tl}
13138   \cs_if_exist:NF\g_mix_refundefwarned_tl{
13139     \tl_new:N\g_mix_refundefwarned_tl
13140     \AtEndDocument{\msg_warning:nn{media9}{undefined~references}}
13141   }
13142 }
13143 },
13144 3Dgotoview .value_required:n = {true},
13145
13146 mediacommand .code:n = {
13147   \tl_set:Nx\l_tmpa_tl{#1}
13148   \regex_replace_once:nnN{([~:]+):??.*}{\1}\l_tmpa_tl %extract ref
13149   \tl_trim_spaces:N\l_tmpa_tl
13150   \tl_if_exist:cTF{ann@\l_tmpa_tl}{
13151     \str_if_eq_x:nnF{\tl_use:c{ann@\l_tmpa_tl}}{draft}{
13152       \tl_set:Nx\l_tmpb_tl{#1}
13153       \regex_replace_once:nnN{[~:]+\.:?}{\1}\l_tmpb_tl
13154       \tl_trim_spaces:N\l_tmpb_tl
13155       \regex_replace_all:nnN{^{\|\\}$}{\1}\l_tmpb_tl
13156       \tl_set:Nx\l_mix_cmd_tl{
13157         \exp_after:wN\mix_separate_cmd_from_actn:w\l_tmpb_tl[]\q_stop}
13158       \tl_trim_spaces:N\l_mix_cmd_tl
13159       \tl_set:Nx\l_mix_arg_tl{
13160         \exp_after:wN\mix_separate_arg_from_actn:w\l_tmpb_tl[]\q_stop}
13161       \tl_trim_spaces:N\l_mix_arg_tl
13162       \mix_pdfobj:nnn{}{dict}{
13163         /S/JavaScript/JS~(
13164           if(typeof(annotRM)=='undefined'){annotRM=new~Array();}
13165           if(typeof(annotRM['\l_tmpa_tl'])=='undefined'){
13166             annotRM['\l_tmpa_tl']=

```



```

13167         this.getAnnotRichMedia(\tl_use:c{page@\l_tmpa_tl},'\l_tmpa_tl');
13168     }
13169     annotRM['\l_tmpa_tl'].activated=true;
13170 )
13171 \tl_if_blank:VF\l_mix_cmd_tl{
13172     /Next~<<
13173     /S/RichMediaExecute
13174     /TA~\tl_use:c{ann@\l_tmpa_tl}
13175     /TI~\tl_use:c{main@\l_tmpa_tl}
13176     /CMD~<<
13177     /C~(\l_mix_cmd_tl)
13178     \tl_if_blank:VF\l_mix_arg_tl{
13179         /A~[\l_mix_arg_tl]
13180     }
13181     >>
13182     >>
13183 }
13184 }
13185 \tl_gput_right:Nx\g_mix_btnactions_tl{~\mix_pdflastobj:}
13186 }
13187 }{
13188     \msg_warning:nnx{media9}{undefined~reference}{\l_tmpa_tl}
13189     \cs_if_exist:NF\g_mix_refundefwarned_tl{
13190         \tl_new:N\g_mix_refundefwarned_tl
13191         \AtEndDocument{\msg_warning:nn{media9}{undefined~references}}
13192     }
13193 }
13194 },
13195 mediacommand .value_required:n = {true},
13196
13197 jsaction .code:n = {
13198     \tl_set:Nx\l_tmpa_tl{#1}
13199     \regex_match:nVTF{~[\^:]+:.*$}\l_tmpa_tl{
13200         \regex_replace_once:nnN{([\^:]+):??.*}{\1}\l_tmpa_tl %extract ref
13201         \tl_trim_spaces:N\l_tmpa_tl
13202     }{\tl_clear:N\l_tmpa_tl}
13203     \tl_set:Nx\l_tmpb_tl{#1}
13204     \tl_if_blank:VF\l_tmpa_tl{
13205         \tl_if_exist:cF{ann@\l_tmpa_tl}{
13206             \msg_warning:nnx{media9}{undefined~reference}{\l_tmpa_tl}
13207             \cs_if_exist:NF\g_mix_refundefwarned_tl{
13208                 \tl_new:N\g_mix_refundefwarned_tl
13209                 \AtEndDocument{\msg_warning:nn{media9}{undefined~references}}
13210             }
13211         }
13212         \regex_replace_once:nnN{[\^:]+:}{\1}\l_tmpb_tl
13213     }
13214     \tl_set:Nx\l_tmpb_tl{\exp_after:wN\use:n\l_tmpb_tl}
13215     \tl_trim_spaces:N\l_tmpb_tl
13216     \tl_if_blank:VF\l_tmpb_tl{

```





```

13217 \mix_pdfobj:nnn{}{dict}{
13218   /S/JavaScript/JS~(
13219     try{\l_tmpb_tl}catch(e){console.show();console.println(e)}}}
13220 \bool_if:nT{
13221   \tl_if_exist_p:c{ann@\l_tmpa_tl}&&
13222   !\str_if_eq_x_p:nn{\tl_use:c{ann@\l_tmpa_tl}}{draft}
13223 }{
13224   \mix_pdfobj:nnn{}{dict}{
13225     /S/JavaScript/JS~(
13226       if(typeof(annotRM)=='undefined'){annotRM=new~Array();}
13227       if(typeof(annotRM['\l_tmpa_tl'])=='undefined'){
13228         annotRM['\l_tmpa_tl']=
13229           this.getAnnotRichMedia(\tl_use:c{page@\l_tmpa_tl},'\l_tmpa_tl');
13230       }
13231       annotRM['\l_tmpa_tl'].activated=true;
13232     )
13233     \tl_if_blank:VF\l_tmpb_tl{/Next~\mix_pdflastobj:}
13234   }
13235 }
13236 \bool_if:nT{
13237   \tl_if_exist_p:c{ann@\l_tmpa_tl}&&
13238   !\str_if_eq_x_p:nn{\tl_use:c{ann@\l_tmpa_tl}}{draft}||
13239   !\tl_if_blank_p:V\l_tmpb_tl
13240 }{
13241   \tl_gput_right:Nx\g_mix_btnactions_tl{~\mix_pdflastobj:}
13242 }
13243 },
13244 jsaction .value_required:n = {true},
13245
13246 unknown .code:n = {
13247   \msg_error:nnx{media9}{unknown~option}{\l_keys_key_tl}
13248 }
13249 }
13250
13251
13252 \RenewDocumentCommand\includemedia{0{}mm}{%#1 options, #2 text/image #3 media file
13253   \mix_uriend:
13254   \group_begin:
13255   \beginL
13256   \leavevmode
13257   %empty stream as appearance dummy
13258   \cs_if_exist:NF\g_mix_appearance_tl{
13259     \hbox_set:Nn\l_mix_poster_box{\phantom{\rule{1pt}{1pt}}}
13260     \mix_pdfxform:n{\l_mix_poster_box}
13261     \tl_gset:Nx\g_mix_appearance_tl{\mix_pdflastxform:}
13262   }
13263   \mix_reset:
13264   \mix_uribegin: %treat URI characters correctly
13265   \keys_set:nn{media9/user}{#1}
13266   \mix_uriend:

```



```

13267 \tl_greplace_all:Nnn\g_mix_flashvars_tl{~&}{&}
13268 \tl_greplace_all:Nnn\g_mix_flashvars_tl{&~}{&}
13269 \tl_greplace_all:Nnn\g_mix_flashvars_tl{~=}{=}
13270 \tl_greplace_all:Nnn\g_mix_flashvars_tl{~=}{=}
13271 \tl_gtrim_spaces:N\g_mix_flashvars_tl
13272
13273 \cs_if_exist:NT\Ginput@path{\cs_set_eq:NN\input@path\Ginput@path}
13274
13275 %\hbox_set:Nn\l_mix_poster_box{\group_begin:#2\group_end:}
13276 %\hbox_set:Nn\l_mix_poster_box{#2}
13277 \sbox\l_mix_poster_box{\if@RTL\beginR\fi#2\if@RTL\endR\fi}
13278 \mix_scale:n{\l_mix_poster_box}
13279 \bool_if:nT{
13280   \dim_compare_p:n{\g_mix_tt_tl=\c_zero_dim}||
13281   \dim_compare_p:n{\g_mix_wd_tl=\c_zero_dim}
13282 }{
13283   \tl_gset:Nn\g_mix_usrpbtn_tl{none}
13284 }
13285 \bool_if:NTF\g_mix_usrdraft_bool{
13286   \tl_if_empty:NF\g_mix_usrlabel_tl{
13287     \mix_keytoaux_now:nn{ann@\g_mix_usrlabel_tl}{draft}
13288   }
13289   \tl_if_blank:oTF{#2}{
13290     \mix_uribegin: %treat URI characters correctly
13291     \mix_draftbox:n{\tl_to_str:n{#3}}
13292     \mix_uriend:
13293   }{
13294     \hbox_to_wd:nn{\g_mix_wd_tl}{
13295       \vrule~width~\c_zero_dim~height~\g_mix_ht_tl~depth~\g_mix_dp_tl
13296       \box_use:N\l_mix_poster_box\hss
13297     }
13298   }
13299 }{
13300   \bool_if:nF{\str_if_eq_p:Vn\g_mix_usrpbtn_tl{none}}{
13301     %attach script that switches off play button overlay upon activation
13302     \mix_pdfobj:nnn{}{stream}{
13303       {}{
13304         var~ocgs=host.getOCGs(host.pageNum);
13305         for(var~i=0;i<ocgs.length;i++){
13306           if(ocgs[i].name=='MediaPlayerButton\int_use:N\g_mix_rmcnt_int'){
13307             ocgs[i].state=false;
13308           }
13309         }
13310       }
13311     }
13312     \mix_pdfobj:nnn{}{dict}{
13313       /Type/Filespec/EF~<</F~\mix_pdflastobj:>>/F~(btnoff)%/UF~(btnoff)
13314     }
13315     \tl_gset:Nx\g_mix_assets_tl{(btnoff)~\mix_pdflastobj:}
13316     \tl_set:Nx\l_mix_scripts_tl{~\mix_pdflastobj:~}

```



```

13317      %enforce plain playbutton overlay for XeTeX
13318      \sys_if_engine_xetex:T{\tl_gset:Nn\g_mix_usrpbtn_tl{plain}}
13319    }
13320    %embed main asset
13321    \mix_uribegin:
13322    \mix_embedasset:n{#3}
13323    \bool_if:nTF{
13324      \str_if_eq_p:Vn\l_mix_ext_tl{prc}||\str_if_eq_p:Vn\l_mix_ext_tl{u3d}
13325    }{
13326      \bool_gset_true:N\g_mix_iiid_bool
13327      \tl_gset:Nn\g_mix_mainassetsub_tl{3D}
13328    }{
13329      \str_case_x:nnF{\l_mix_base_tl}{
13330        {APlayer}{\tl_gset:Nn\g_mix_mainassetsub_tl{Sound}}
13331        {AudioPlayer}{\tl_gset:Nn\g_mix_mainassetsub_tl{Sound}}
13332        {VPlayer}{\tl_gset:Nn\g_mix_mainassetsub_tl{Video}}
13333        {VideoPlayer}{\tl_gset:Nn\g_mix_mainassetsub_tl{Video}}
13334        {StrobeMediaPlayback}{\tl_gset:Nn\g_mix_mainassetsub_tl{Video}}
13335        }{\tl_gset:Nn\g_mix_mainassetsub_tl{Flash}}
13336      }
13337      \tl_gset:Nx\g_mix_mainasset_tl{~\g_mix_lastasset_tl}
13338      \mix_uriend:
13339      %secondary assets (added by addresource)
13340      \seq_map_function:NN\g_mix_res_seq\mix_embedasset:n
13341      \seq_map_inline:Nn\g_mix_script_seq{
13342        \mix_embedasset:n{##1}
13343        \tl_put_right:Nx\l_mix_scripts_tl{~\g_mix_lastasset_tl}
13344      }
13345      %attach 3D calculation script
13346      \bool_if:nT{\g_mix_iiid_bool && \g_mix_iiidcalc_bool}{
13347        \mix_embedasset:n{3Dmenu.js}
13348        \tl_put_left:Nx\l_mix_scripts_tl{\g_mix_lastasset_tl~}
13349      }
13350      %create 3D views from file (option 3Dviews)
13351      \bool_if:nT{\g_mix_iiid_bool && !(\tl_if_blank_p:V\g_mix_vfile_tl)}{
13352        \tl_set:Nn\l_mix_level_tl{\c_minus_one}
13353        \int_zero:N\l_mix_viewcnt_int
13354        \int_zero:N\l_mix_lineno_int
13355
13356        \ior_open:Nn\l_mix_vfile_stream{\g_mix_vfile_tl}
13357        \ior_map_inline:Nn\l_mix_vfile_stream{
13358          \int_incr:N\l_mix_lineno_int
13359          \keys_set:nn{media9/views}{##1} %process input line
13360        }
13361        \ior_close:N\l_mix_vfile_stream
13362      }
13363      \bool_if:nT{ %create default 3D view if required
13364        \g_mix_iiid_bool &&
13365        (\g_mix_opt_iiidview_bool || \tl_if_blank_p:V\l_mix_iiidviewarray_tl)
13366      }{

```



```

13367 \tl_set_eq:NN\l_mix_bg_tl\g_mix_opt_bg_tl
13368 \tl_set_eq:NN\l_mix_ls_tl\g_mix_opt_ls_tl
13369 \tl_set_eq:NN\l_mix_rm_tl\g_mix_opt_rm_tl
13370 \tl_set_eq:NN\l_mix_psob_tl\g_mix_opt_psob_tl
13371 \tl_set_eq:NN\l_mix_coo_tl\g_mix_opt_coo_tl
13372 \tl_set_eq:NN\l_mix_ctoc_tl\g_mix_opt_ctoc_tl
13373 \tl_set_eq:NN\l_mix_ciiw_tl\g_mix_opt_ciiw_tl
13374
13375 \fp_set_eq:NN\l_mix_roo_fp\g_mix_opt_roo_fp
13376 \fp_set_eq:NN\l_mix_aac_fp\g_mix_opt_aac_fp
13377 \fp_set_eq:NN\l_mix_oscale_fp\g_mix_opt_oscale_fp
13378 \fp_set_eq:NN\l_mix_roll_fp\g_mix_opt_roll_fp
13379
13380 \bool_set_eq:NN\l_mix_ciiw_bool\g_mix_opt_ciiw_bool
13381 \bool_set_eq:NN\l_mix_iiidortho_bool\g_mix_opt_iiidortho_bool
13382 \tl_clear:N\l_mix_naarray_tl
13383
13384 \bool_if:NF\l_mix_ciiw_bool{
13385   \tl_set:Nx\l_mix_args_tl{\l_mix_coo_tl\space\l_mix_ctoc_tl\space}
13386   \exp_after:wN\mix_calc_ciiw:w\l_mix_args_tl\q_stop
13387 }
13388
13389 \tl_clear:N\l_mix_naarray_tl
13390 \tl_clear:N\l_mix_saarray_tl
13391 \tl_set_eq:NN\l_mix_nr_tl\g_mix_nrdflt_tl
13392
13393 \mix_view:n{Default}
13394 \tl_set:Nx\l_mix_dfltview_tl{\mix_pdflastobj:}
13395
13396 }
13397 \mix_pdfobj:nnn{}{dict}{
13398   /Type/RichMediaInstance
13399   /Subtype/\g_mix_mainassetsub_tl
13400   /Asset~\g_mix_mainasset_tl
13401   \bool_if:NF\g_mix_iiid_bool{
13402     /Params~<<
13403     /Binding\str_if_eq:VnTF\g_mix_transp_tl{true}{
13404       /Foreground
13405     }{
13406       /Background
13407     }
13408     \tl_if_blank:VF\g_mix_flashvars_tl{
13409       /FlashVars~(\g_mix_flashvars_tl)
13410     }
13411     >>
13412   }
13413 }
13414 \tl_if_empty:NF\g_mix_usrlabel_tl{
13415   \mix_keytoaux_now:nn{main@\g_mix_usrlabel_tl}{\mix_pdflastobj:}
13416 }

```



```

13417 \mix_pdfobj:nnn{}{dict}{
13418   /Type/RichMediaConfiguration
13419   /Subtype/\g_mix_mainassetsub_tl
13420   /Instances~[\mix_pdflastobj:]
13421 }
13422 \mix_pdfobj:nnn{}{dict}{
13423   /Type/RichMediaContent
13424   /Assets~<</Names~[\g_mix_assets_tl]>>
13425   /Configurations~[\mix_pdflastobj:]
13426   \bool_if:NT{
13427     \g_mix_iiid_bool && !(\tl_if_empty_p:V\l_mix_iiidviewarray_tl)
13428   }{
13429     /Views~[\l_mix_iiidviewarray_tl]
13430   }
13431 }
13432 \tl_set:Nx\l_mix_content_tl{\mix_pdflastobj:}
13433 \bool_if:NT{
13434   \g_mix_iiid_bool && \str_if_eq_p:Vn\g_mix_playtpe_tl{Oscillating}
13435 }{
13436   \tl_gset:Nx\g_mix_playcnt_tl{\int_eval:n{\g_mix_playcnt_tl*2}}
13437 }
13438 %determine floating window size
13439 \bool_if:NT\g_mix_opt_windowed_bool{
13440   \exp_after:wN\mix_parse_winsizearg:w\g_mix_winsize_tl\q_stop
13441 }
13442 \mix_pdfobj:nnn{}{dict}{
13443   /Activation~<<
13444   /Condition\g_mix_act_tl
13445   \bool_if:NT{
13446     \g_mix_iiid_bool &&
13447     !(\str_if_eq_p:Vn\g_mix_playtpe_tl{None})
13448   }{%seems to work only with 3D content
13449     /Animation~<<
13450     /Subtype/\g_mix_playtpe_tl
13451     /PlayCount~\g_mix_playcnt_tl
13452     /Speed~\g_mix_playspd_tl
13453     >>
13454   }
13455   \bool_if:NT{
13456     \g_mix_iiid_bool && (
13457       \g_mix_opt_iiidview_bool || \tl_if_blank_p:V\l_mix_iiidviewarray_tl
13458     )
13459   }{/View~\l_mix_dfltview_tl}
13460   /Presentation~<<
13461   /Transparent~\g_mix_transp_tl
13462   \bool_if:NTF\g_mix_opt_windowed_bool{
13463     /Style/Windowed
13464   }/Window~<<
13465     /Width~<</Default~\tl_mix_fltd>>
13466     /Height~<</Default~\tl_mix_fltht>>

```



```

13467         /Position~<<
13468         /HOffset~0/VOffset~0
13469         \str_case_x:nnF{\g_mix_winpos_tl}{
13470             {tl}{/VAlign/Near/HAlign/Near}
13471             {cl}{/VAlign/Center/HAlign/Near}
13472             {bl}{/VAlign/Far/HAlign/Near}
13473             {bc}{/VAlign/Far/HAlign/Center}
13474             {br}{/VAlign/Far/HAlign/Far}
13475             {cr}{/VAlign/Center/HAlign/Far}
13476             {tr}{/VAlign/Near/HAlign/Far}
13477             {tc}{/VAlign/Near/HAlign/Center}
13478             }{/HAlign/Center/VAlign/Center}
13479         >>
13480     >>
13481     }{
13482         /Style/Embedded
13483     }
13484     \bool_if:NTF\g_mix_iid_bool{
13485         /Toolbar~\g_mix_tools_tl
13486         /NavigationPane~\g_mix_nav_tl
13487     }{
13488         /PassContextClick~\g_mix_contextclick_tl
13489     }
13490     >>
13491     \tl_if_blank:VF\l_mix_scripts_tl{/Scripts~[\l_mix_scripts_tl]}
13492     >>
13493     /Deactivation~<</Condition\g_mix_deact_tl>>
13494 }
13495 \tl_set:Nx\l_mix_settings_tl{\mix_pdflastobj:}
13496 \tl_if_empty:NF\g_mix_usrlabel_tl{
13497     \tl_gset_eq:NN\g_mix_label_tl\g_mix_usrlabel_tl
13498 }
13499 % #1:width, #2:height, #3:depth, #4:content (key-value)
13500 \mix_pdfannot:nnnn{\g_mix_wd_tl}{\g_mix_ht_tl}{\g_mix_dp_tl}{
13501     /Subtype/RichMedia
13502     /F~4\cs_if_exist_use:N\ocgxii@insert@OC
13503     /BS~<</W~0/S/S>>
13504     /Contents~(media~embedded~by~media9~[\g_mix_version_tl~(\g_mix_date_tl)])
13505     /NM~(\g_mix_label_tl)
13506     /AP~<</N~\g_mix_appearance_tl>>
13507     /RichMediaSettings~\l_mix_settings_tl
13508     /RichMediaContent~\l_mix_content_tl
13509 }
13510 \tl_if_empty:NF\g_mix_usrlabel_tl{
13511     \mix_keytoaux_now:nn{ann@\g_mix_usrlabel_tl}{\mix_pdflastann:}
13512     \mix_keytoaux_shipout:nn{page@\g_mix_usrlabel_tl}{
13513         \noexpand\the\g@mix@page@int}
13514 }
13515 \mix_pdfobj:nnn{}{dict}{
13516     /S/JavaScript/JS~(

```



```

13517     try{
13518         if(typeof(annotRM)=='undefined'){annotRM=new~Array();}
13519         if(typeof(annotRM['\g_mix_label_tl'])=='undefined'){
13520             annotRM['\g_mix_label_tl']=
13521                 this.getAnnotRichMedia(this.pageNum,'\g_mix_label_tl');
13522         }
13523         \str_if_eq_x:nnF{\g_mix_usrpbtn_tl}{none}{
13524             if(typeof(ocgBtn\int_use:N\g_mix_rmcnt_int)=='undefined'){
13525                 var~ocgs=this.getOCGs(this.pageNum);
13526                 for(var~i=0;i<ocgs.length;i++){
13527                     if(ocgs[i].name=='MediaPlayerButton\int_use:N\g_mix_rmcnt_int'){
13528                         var~ocgBtn\int_use:N\g_mix_rmcnt_int=ocgs[i];
13529                     }
13530                 }
13531             }
13532             if(
13533                 !annotRM['\g_mix_label_tl'].activated&&(
13534                     app.viewerType=='Reader' ||
13535                     app.viewerType=='Exchange' ||
13536                     app.viewerType=='Exchange-Pro'
13537                 )&&app.viewerVersion>=9
13538             ){
13539                 ocgBtn\int_use:N\g_mix_rmcnt_int.state=true;
13540             }
13541         }
13542     }catch(e){}
13543     this.dirty=false;
13544 )
13545 }
13546 \mix_pdfannot:nnnn{Opt}{Opt}{Opt}{
13547     /Subtype/Widget
13548     /FT/Btn/Ff~65537/F~2
13549     /BS~<</W~0>>
13550     /T~(fd@\g_mix_label_tl)
13551     /AA~<</PO~\mix_pdflastobj:~/PV~\mix_pdflastobj:>>
13552 }
13553 \mix_appendtofields:n{\mix_pdflastann:}
13554 \hbox_overlap_right:n{\box_use:N\l_mix_poster_box}
13555 \str_if_eq_x:nnTF{\g_mix_usrpbtn_tl}{none}{
13556     \hbox_to_wd:nn{\g_mix_wd_tl}{
13557         \vrule~width~\c_zero_dim~height~\g_mix_ht_tl~depth~\g_mix_dp_tl\hss
13558     }
13559 }{%insert play button overlay
13560     \mix_insert_btnocg: %create OCG
13561     \cs_gset_eq:Nc\mix_pbtn:NN{g@mix@pbtn@\g_mix_usrpbtn_tl @tl}
13562     %\hbox_set:Nn\l_mix_pbtn_box{\mix_pbtn:NN\g_mix_wd_tl\g_mix_tt_tl}
13563     \sbox\l_mix_pbtn_box{\mix_pbtn:NN\g_mix_wd_tl\g_mix_tt_tl}
13564     \box_move_down:nn{\g_mix_dp_tl}{
13565         \hbox_to_wd:nn{\g_mix_wd_tl}{
13566             \vbox_to_ht:nn{\g_mix_tt_tl}{

```



```

13567         \vss
13568         \ocgbase_oc_bdc:n{\g_mix_btnocg_tl}
13569         \box_use:N\l_mix_pbtn_box
13570         \ocgbase_oc_emc:
13571     }
13572 }
13573 }
13574 }
13575 \int_gincr:N\g_mix_rmcnt_int
13576 }
13577 \endL
13578 \group_end:
13579 }
13580 \tl_set_eq:NN\l_mix_includemedia_tl\includemedia
13581 \tl_set:Nn\includemedia{\mix_uribegin:\l_mix_includemedia_tl}
13582
13583
13584
13585 \RenewDocumentCommand\mediabutton{0{ }m}{%#1 options, #2 normal button text
13586     \mix_urriend:
13587     \group_begin:
13588     \beginL
13589     \leavevmode
13590     %reset various variables
13591     \tl_gclear:N\g_mix_overbtn_tl
13592     \tl_gclear:N\g_mix_downbtn_tl
13593     \tl_gclear:N\g_mix_btnactions_tl
13594     \tl_gclear:N\g_mix_tooltip_tl
13595     %process options
13596     \bool_gset_eq:NN\g_mix_btndraft_bool\g_mix_pkgdraft_bool
13597     \mix_uribegin: %treat URI characters correctly
13598     \keys_set:nn{media9/mbtndraft}{#1} %detect draft/final on first pass
13599     \bool_if:NF\g_mix_btndraft_bool{\keys_set:nn{media9/mbtn}{#1}}
13600     \mix_urriend:
13601     %normal button appearance
13602     %\hbox_set:Nn\l_mix_poster_box{#2}
13603     \sbox\l_mix_poster_box{\if@RTL\beginR\fi#2\if@RTL\endR\fi}
13604     \tl_set:Nx\width {\dim_use:N\box_wd:N\l_mix_poster_box}
13605     \tl_set:Nx\height{\dim_use:N\box_ht:N\l_mix_poster_box}
13606     \tl_set:Nx\depth {\dim_use:N\box_dp:N\l_mix_poster_box}
13607     \bool_if:NTF\g_mix_btndraft_bool{\box_use:N\l_mix_poster_box}{
13608         \mix_pdfxform:n{\l_mix_poster_box}
13609         \tl_set:Nx\g_mix_normalbtn_tl{\mix_pdflastxform:}
13610         \bool_if:nT{ %dummy Widget for ocgx2, AR seems to need it
13611             \cs_if_exist_p:N\ocgxii@insert@OC && !\tl_if_blank_p:V\ocgxii@insert@OC
13612             !\cs_if_exist:NTF\ocgxii@insert@OC{
13613                 \tl_if_blank_p:V\ocgxii@insert@OC
13614             }{
13615                 \c_true_bool
13616             }

```





```

13617 }{\mix_pdfannot:nnnn{\width}{\height}{\depth}{/Subtype/Widget/F-2}}
13618 %insert widget annotation
13619 \mix_pdfannot:nnnn{\width}{\height}{\depth}{
13620   /Subtype/Widget
13621   /T~(mbtn@int_use:N\g_mix_mbtncnt_int)
13622   \tl_if_empty:NF\g_mix_tooltip_tl{/TU~(\g_mix_tooltip_tl)}
13623   /FT/Btn/Ff~65536\cs_if_exist_use:N\ocgxii@insert@OC
13624   \tl_if_empty:NTF\g_mix_downbtn_tl{/H/I}{/H/P}
13625   /AP~<<
13626   /N~\g_mix_normalbtn_tl
13627   \tl_if_empty:NF\g_mix_overbtn_tl{/R~\g_mix_overbtn_tl}
13628   \tl_if_empty:NF\g_mix_downbtn_tl{/D~\g_mix_downbtn_tl}
13629   >>
13630   /MK~<<
13631   /TP~1~/IF~<</S/A/FB~true/A~[0.0~0.0]>>
13632   /I~\g_mix_normalbtn_tl
13633   \tl_if_empty:NF\g_mix_overbtn_tl{/RI~\g_mix_overbtn_tl}
13634   \tl_if_empty:NF\g_mix_downbtn_tl{/IX~\g_mix_downbtn_tl}
13635   >>
13636   /A~<<
13637   /S/JavaScript/JS~(app.focusRect=false;)
13638   %sequence of actions to perform
13639   \tl_if_empty:NF\g_mix_btnactions_tl{/Next~[\g_mix_btnactions_tl]}
13640   >>
13641 }
13642 \mix_appendtofields:n{\mix_pdflastann:}
13643 \hbox_to_wd:nn{\width}{
13644   \vrule~width~\c_zero_dim~height~\height~depth~\depth\hss
13645 }
13646 \int_gincr:N\g_mix_mbtncnt_int
13647 }
13648 \endL
13649 \group_end:
13650 }
13651 \tl_set_eq:NN\l_mix_mediabutton_tl\mediabutton
13652 \tl_set:Nn\mediabutton{\mix_urbegin:\l_mix_mediabutton_tl}
13653
13654
13655

```

## 7.79 memoir-xetex-bidi.def

```

13656 \ProvidesFile{memoir-xetex-bidi.def}[2017/06/09 v0.6 bidi adaptations for memoir class for Xe
13657 \renewcommand{\keepthetitle}{%
13658   \@bsmtitleempty
13659   \global\let\thanks\relax
13660   \global\let\LTRthanks\relax
13661   \global\let\RTLthanks\relax
13662   \global\let\and\relax
13663   \global\let\andnext\relax

```



```

13664 \global\let\@thanks\@empty
13665 \global\let\@title\@empty
13666 \global\let\@author\@empty
13667 \global\let\@date\@empty}
13668 \renewcommand{\maketitle}{\par
13669 \begingroup
13670   \@bsmarkseries
13671   \def\@makefnmark{\@textsuperscript{%
13672     \normalfont\@bsthanksheadpre \tamark \@bsthanksheadpost}}%
13673   \long\def\@makefntext##1{\makethanksmark ##1}
13674   \if@twocolumn
13675     \ifnum \col@number=\@ne
13676       \@maketitle
13677     \else
13678       \twocolumn[\@maketitle]%
13679     \fi
13680   \else
13681     \ifdim\pagetotal>z@
13682       \newpage
13683     \fi
13684     \global\@topnum\z@
13685     \@maketitle
13686   \fi
13687   \thispagestyle{title}\@thanks
13688 \endgroup
13689 \@bscontmark % \setcounter{footnote}{0}%
13690 }
13691 \renewcommand*{\memRTLleftskip}{\if@RTL\righskip\else\leftskip\fi}
13692 \renewcommand*{\memRTLrightskip}{\if@RTL\leftskip\else\righskip\fi}
13693 \renewcommand*{\memRTLvleftskip}{\if@RTL\vrightskip\else\vleftskip\fi}
13694 \renewcommand*{\memRTLvrighskip}{\if@RTL\vleftskip\else\vrightskip\fi}
13695 \renewcommand*{\memRTLraggedright}{\if@RTL\raggedleft\else\raggedright\fi}
13696 \renewcommand*{\memRTLraggedleft}{\if@RTL\raggedright\else\raggedleft\fi}
13697 \renewcommand*{\thesection}{\thechapter\@SepMark\@arabic\c@section}
13698 \renewcommand*{\thesubsection}{%
13699   \thesection\@SepMark\@arabic\c@subsection}
13700 \renewcommand*{\thesubsubsection}{%
13701   \thesubsection\@SepMark\@arabic\c@subsubsection}
13702 \renewcommand*{\theparagraph}{%
13703   \thesubsubsection\@SepMark\@arabic\c@paragraph}
13704 \renewcommand*{\thesubparagraph}{%
13705   \theparagraph\@SepMark\@arabic\c@subparagraph}
13706 \renewcommand{\setthesection}{\thechapter\@SepMark\Alph{section}}
13707 \renewcommand{\theequation}{%
13708   \ifnum \c@chapter>z@ \thechapter\@SepMark\fi \@arabic\c@equation}
13709 \renewcommand{\thefigure}{\thechapter\@SepMark\@arabic\c@figure}
13710 \renewcommand{\thetable}{\thechapter\@SepMark\@arabic\c@table}
13711 \ifartopt
13712   \chapterstyle{article}
13713   \counterwithout{figure}{chapter}

```



```

13714 \counterwithout{table}{chapter}
13715 \counterwithout{footnote}{chapter}
13716 \counterwithout{equation}{chapter}
13717 \renewcommand{\chaptername}{}
13718 \renewcommand{\maketitlehookb}{%
13719     \vskip -1.5\topsep\vskip -1.5\partopsep}
13720 \renewcommand{\maketitlehookc}{%
13721     \vskip -1.5\topsep\vskip -1.5\partopsep}
13722 \fi
13723 \long\def\@makecaption#1#2{\let\@memtempa\relax
13724     \ifdim\prevdepth>-99\p@ \vskip\abovecaptionskip
13725     \else \def\@memtempa{\vbox to\topskip{}}\fi
13726     \let\@contfnote\footnote \renewcommand{\footnote}[2] [] {}
13727     \let\@contfmark\footnotemark \renewcommand{\footnotemark}[1] [] {}
13728     \sbox\@tempboxa{\@contnfont #1\@contdelim \@conttfont #2\@contfinal}
13729     \let\footnote\@contfnote
13730     \let\footnotemark\@contfmark
13731     \ifdim\wd\@tempboxa<\linewidth \centering \fi
13732     \if@contcw
13733         \centering
13734         \parbox{\@contcwidth}{%
13735             \ifdim\wd\@tempboxa<\@contcwidth \centering \fi
13736         \fi
13737         \ifdim\wd\@tempboxa<\linewidth
13738             \@contpre
13739             {\@contnfont #1\@contdelim}\@memtempa
13740             {\@contcshortstyle \@conttfont #2\@contfinal\par}
13741         \else
13742             \if@conthang
13743                 \sbox\@tempboxa{\@contnfont #1\@contdelim}
13744                 \@contpre%
13745                 {\@contcstyle\hangindent=\wd\@tempboxa
13746                     \noindent\box\@tempboxa\@memtempa \@conttfont #2\@contfinal\par}
13747             \else
13748                 \if@contindent
13749                     \@contpre%
13750                     {\@contnfont #1\@contdelim}\@memtempa
13751                     {\@contcstyle\hangindent=\@contindw
13752                         \hangafter=\@ne\@conttfont #2\@contfinal\par}% <- v1.4
13753                 \else
13754                     \@contpre%
13755                     {\@contnfont #1\@contdelim}\@memtempa
13756                     {\@contcstyle \@conttfont #2\@contfinal\par}
13757                 \fi
13758             \fi
13759         \fi
13760         \@contpost
13761         \if@contcw
13762             \par
13763         } % end of the \parbox

```



```

13764 \fi
13765 \vskip\belowcaptionskip}
13766 \@ifpackageloaded{caption}{%
13767 \AtBeginPackage{caption}{
13768 \ClassWarningNoLine{memoir}{%
13769 You are using the caption package with the memoir \MessageBreak
13770 class. This may cause unexpected or inconsistent \MessageBreak
13771 results if you use any of memoir's captioning facilities}
13772
13773 \long\def\@makecaption##1##2{%
13774 \vskip\abovecaptionskip
13775 \sbox\@tempboxa{\if@RTL\beginR\fi##1: ##2\if@RTL\endR\fi}%
13776 \ifdim \wd\@tempboxa >\hsize
13777 \if@RTL\beginR\fi##1: ##2\if@RTL\endR\fi\par
13778 \else
13779 \global \@minipagefalse
13780 \hb@xt@\hsize{\hfil\box\@tempboxa\hfil}%
13781 \fi
13782 \vskip\belowcaptionskip}
13783
13784 \def\caption{%
13785 \ifx\@capttype\@undefined
13786 \latexerror{\noexpand\caption outside float}\@ehd
13787 \expandafter\@gobble
13788 \else
13789 \refstepcounter\@capttype
13790 \expandafter\@firstofone
13791 \fi
13792 {\@dblarg{\@caption\@capttype}}}%
13793 }
13794
13795 \long\def\@caption##1[##2]##3{%
13796 \par
13797 \addcontentsline{\csname ext@##1\endcsname}{##1}%
13798 {\protect\numberline{\csname the##1\endcsname}{\ignorespaces ##2}}%
13799 \begingroup
13800 \@parboxrestore
13801 \if@minipage
13802 \setminipage
13803 \fi
13804 \normalsize
13805 \@makecaption{\csname fnum@##1\endcsname}{\ignorespaces ##3}\par
13806 \endgroup}
13807 }}{}
13808 \renewenvironment{thebibliography}[1]{%
13809 \bibsection
13810 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
13811 \bidi@thebibliography@font@hook%
13812 \begin{bibitemlist}{#1}}{\end{bibitemlist}}\postbibhook}

```



## 7.80 midfloat-xetex-bidi.def

```

13813 \ProvidesFile{midfloat-xetex-bidi.def}[2017/05/06 v0.4 bidi adaptations for midfloat package
13814 \def\RTL@outputdblcol{%
13815   \if@firstcolumn
13816     \global \@firstcolumnfalse
13817     \global\setbox\@leftcolumn\copy\@outputbox
13818     \splitmaxdepth\maxdimen
13819     \vbadness\maxdimen
13820     \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
13821     \setbox\@outputbox\vsplit\@outputbox to\maxdimen
13822     \toks@\expandafter{\topmark}%
13823     \xdef\@firstcoltopmark{\the\toks@}%
13824     \toks@\expandafter{\splitfirstmark}%
13825     \xdef\@firstcolfirstmark{\the\toks@}%
13826     \ifx\@firstcolfirstmark\@empty
13827       \global\let\@setmarks\relax
13828     \else
13829       \gdef\@setmarks{%
13830         \let\firstmark\@firstcolfirstmark
13831         \let\topmark\@firstcoltopmark}%
13832     \fi
13833     \global\c@colht\@colht\global\c@addvipersep\z@
13834     \ifnum\j@o@sk>0
13835       \remove@strip\j@o@sar
13836       \global\@colht\the\j@o@pr
13837       \ifdim\right@cor>\z@
13838         \global\advance\@colht by\right@cor
13839       \fi
13840       \global\advance\@colht by\cor@height
13841       \global\cor@height=0pt
13842     \fi
13843     \global\setbox\@rightcolumn\vbox{%
13844   \else
13845     \ifdim\c@colht>\@colht
13846       \@tempdima\@colht
13847       \ifdim\@colht>\z@
13848         \global\setbox\@rightcolumn\vbox{%
13849           \unvbox\@rightcolumn
13850           \vbox to\@tempdima{%
13851             \vskip\c@addvipersep\unvbox\@outputbox}%
13852           \vskip\stripsep
13853           \vrule height\the\j@o@ht width 0pt depth 0pt
13854           \vskip\stripsep
13855         }%
13856         \global\c@addvipersep\m@addvipersep
13857       \else
13858         \global\setbox\@rightcolumn\vbox{%
13859           \unvbox\@rightcolumn
13860           \vrule height\the\j@o@ht width 0pt depth 0pt

```



```

13861             \vskip\stripsep
13862             }%
13863         \fi
13864         \ifnum\jua@sk>0
13865             \remove@strip\jua@sar
13866             \global\@colht\the\jua@pr
13867             \global\advance\@colht by -\ht\@rightcolumn
13868             \global\advance\@colht by\cor@height
13869             \global\cor@height=0pt
13870         \else
13871             \global\advance\c@colht by-\ht\@rightcolumn
13872             \global\@colht\c@colht
13873         \fi
13874     \else
13875     \global\@firstcolumntrue
13876     \global\setbox\@outputbox\vbox to\ht\@leftcolumn{%
13877         \unvbox\@rightcolumn
13878         \vskip\c@addvipersep
13879         \unvbox\@outputbox
13880     }%
13881     \setbox\@outputbox \vbox {%
13882         \hb@xt@\textwidth {%
13883             \hskip \columnwidth
13884             \hfil
13885             \vrule \@width\columnseprule
13886             \hfil
13887             \hb@xt@\columnwidth {%
13888                 \bidi@firstcolumn@status@write%
13889                 \box\@leftcolumn \hss}%
13890             \hskip-\textwidth
13891             \hb@xt@\columnwidth {%
13892                 \bidi@lastcolumn@status@write%
13893                 \box\@outputbox \hss}%
13894             \hskip\columnwidth
13895             \hskip\columnsep}%
13896         }%
13897     \@combinedblfloats
13898     \@setmarks
13899     \@outputpage
13900     \begingroup
13901         \@dblfloatplacement
13902         \@startdblcolumn
13903         \@whilesw\if@fcolmade \fi
13904         {\@outputpage
13905          \@startdblcolumn}%
13906     \endgroup
13907     \global\jua@sk=0\global\jua@sar={}
13908     \global\cor@height\z@\global\c@addvipersep\z@
13909     \fi
13910 \fi

```



```

13911 }
13912
13913
13914 \def\LTR@outputdblcol{%
13915   \if@firstcolumn
13916     \global \@firstcolumnfalse
13917     \global\setbox\@leftcolumn\copy\@outputbox
13918     \splitmaxdepth\maxdimen
13919     \vbadness\maxdimen
13920     \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
13921     \setbox\@outputbox\vsplit\@outputbox to\maxdimen
13922     \toks@\expandafter{\topmark}%
13923     \xdef\@firstcoltopmark{\the\toks@}%
13924     \toks@\expandafter{\splitfirstmark}%
13925     \xdef\@firstcolfirstmark{\the\toks@}%
13926     \ifx\@firstcolfirstmark\@empty
13927       \global\let\@setmarks\relax
13928     \else
13929       \gdef\@setmarks{%
13930         \let\firstmark\@firstcolfirstmark
13931         \let\topmark\@firstcoltopmark}%
13932     \fi
13933     \global\c@colht\@colht\global\c@addvipersep\z@
13934     \ifnum\jua@sk>0
13935       \remove@strip\jua@sar
13936       \global\@colht\the\jua@pr
13937       \ifdim\right@cor>\z@
13938         \global\advance\@colht by\right@cor
13939       \fi
13940       \global\advance\@colht by\cor@height
13941       \global\cor@height=0pt
13942     \fi
13943     \global \setbox\@rightcolumn \vbox{%
13944   \else
13945     \ifdim\c@colht>\@colht
13946       \@tempdima\@colht
13947       \ifdim\@colht>\z@
13948         \global\setbox\@rightcolumn \vbox{%
13949           \unvbox\@rightcolumn
13950           \vbox to\@tempdima{%
13951             \vskip\c@addvipersep\unvbox\@outputbox}%
13952           \vskip\stripsep
13953           \vrule height\the\jua@ht width 0pt depth 0pt
13954           \vskip\stripsep
13955           }%
13956         \global\c@addvipersep\m@addvipersep
13957       \else
13958         \global\setbox\@rightcolumn \vbox{%
13959           \unvbox\@rightcolumn
13960           \vrule height\the\jua@ht width 0pt depth 0pt

```



```

13961             \vskip\stripsep
13962             }%
13963         \fi
13964         \ifnum\juc@sk>0
13965             \remove@strip\juc@sar
13966             \global\@colht\the\juc@pr
13967             \global\advance\@colht by -\ht\@rightcolumn
13968             \global\advance\@colht by\cor@height
13969             \global\cor@height=0pt
13970         \else
13971             \global\advance\c@colht by-\ht\@rightcolumn
13972             \global\@colht\c@colht
13973         \fi
13974     \else
13975     \global\@firstcolumntrue
13976     \global\setbox\@outputbox\vbox to\ht\@leftcolumn{%
13977         \unvbox\@rightcolumn
13978         \vskip\c@addvipersep
13979         \unvbox\@outputbox
13980     }%
13981     \setbox\@outputbox \vbox {%
13982         \hb@xt@\textwidth {%
13983             \hb@xt@\columnwidth {%
13984                 \bidi@firstcolumn@status@write%
13985                 \box\@leftcolumn \hss}%
13986             \hfil
13987             \vrule \@width\columnseprule
13988             \hfil
13989             \hb@xt@\columnwidth {%
13990                 \bidi@lastcolumn@status@write%
13991                 \box\@outputbox \hss}%
13992             }%
13993         }%
13994     \@combinedblfloats
13995     \@setmarks
13996     \@outputpage
13997     \begingroup
13998         \@dblfloatplacement
13999         \@startdblcolumn
14000         \@whiles\if@fcolmade \fi
14001         {\@outputpage
14002          \startdblcolumn}%
14003     \endgroup
14004     \global\juc@sk=0\global\juc@sar={}
14005     \global\cor@height\z@\global\c@addvipersep\z@
14006     \fi
14007 \fi
14008 }
14009
14010

```





```

14011 \def\@strip[#1/#2]{\global\@tempdima=#1\global\@tempdimb=#2%
14012 \global \setbox\@viper\vbox\bgroup\if@RTLmain\moveleft\dimexpr(\columnwidth+\columnsep)\fi\
14013 \hsize\textwidth
14014 \parboxrestore
14015 \col@number \@ne
14016 \vrule height\topskip width0pt depth0pt
14017 }
14018
14019 \def\endstrip{%
14020 \egroup\egroup
14021 \if@firstcolumn
14022 \ifdim\pagetotal>\z@
14023 \vskip\stripsep
14024 \global\ht@strip\pagegoal
14025 \global\advance\ht@strip by-\pagetotal
14026 \global\advance\ht@strip by-\stripsep
14027 \global\advance\ht@strip by-\ht\@viper
14028 \global\advance\ht@strip by-\stripsep
14029 \global\jua@ht=\ht\@viper
14030 \else
14031 \global\ht@strip\z@
14032 \fi
14033 \ifdim\ht@strip>\z@
14034 \unvbox\@viper
14035 \vskip\stripsep
14036 \add@strip{\the\pagetotal}{\the\jua@ht}{\the\@tempdima}{\the\@tempdimb}%
14037 \global\advance\jua@sk by1
14038 \else
14039 \@latex@error{Strip needs more place!}\@ehc
14040 \if@vihproof
14041 \framebox[\columnwidth]{??? Strip ???}%
14042 \fi
14043 \fi
14044 \else
14045 \@latex@error{Strip is used only on left column!}\@ehc
14046 \if@vihproof
14047 \framebox[\columnwidth]{??? Strip ???}%
14048 \fi
14049 \fi
14050 }

```

## 7.81 minitoc-xetex-bidi.def

```

14051 \ProvidesFile{minitoc-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for minitoc package for
14052 \def\@undottedtocline#1#2#3#4#5{%
14053 \ifnum #1>\c@tocdepth\relax \else
14054 \vskip \z@ plus.2\p@
14055 {\if@RTL\rightskip\else\leftskip\fi #2\relax \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
14056 \parindent #2\relax\@afterindenttrue
14057 \interlinepenalty\@M

```



```

14058 \leavevmode
14059 \@tempdima #3\relax \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \hbox{}%
14060 \hskip -\if@RTL\rightskip\else\leftskip\fi
14061 #4\nobreak\hfill \nobreak
14062 \null\par}%
14063 \fi}
14064 \def\@Undottedtocline#1#2#3#4#5{%
14065 \ifnum #1>\c@tocdepth\relax \else
14066 \vskip \z@ \@plus.2\p@
14067 {\if@RTL\rightskip\else\leftskip\fi #2\relax \if@RTL\leftskip\else\rightskip\fi \@tocmar
14068 \parindent #2\relax\@afterindenttrue
14069 \interlinepenalty\@M
14070 \leavevmode
14071 \@tempdima #3\relax
14072 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
14073 {\coffefont #4}\nobreak \nobreak\null
14074 \par}%
14075 \fi}
14076 \def\@Undottedtoclinep#1#2#3#4#5{%
14077 \ifnum #1>\c@tocdepth\relax \else
14078 \vskip \z@ \@plus.2\p@
14079 {\if@RTL\rightskip\else\leftskip\fi #2\relax \if@RTL\leftskip\else\rightskip\fi \@tocmar
14080 \parindent #2\relax\@afterindenttrue
14081 \interlinepenalty\@M
14082 \leavevmode
14083 \@tempdima #3\relax
14084 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
14085 {#4}\nobreak \hfill \nobreak\null
14086 \hb@xt@\@pnumwidth{\hfil\normalfont \normalcolor #5}}%
14087 \par}%
14088 \fi}

```

## 7.82 multicol-xetex-bidi.def

```

14089 \ProvidesFile{multicol-xetex-bidi.def}[2016/11/27 v0.8 bidi adaptations for multicol package]
14090 \def\page@sofar{%
14091 \process@cols\mult@rightbox
14092 {\ifvoid\count@
14093 \setbox\count@\hbox to\hsize{}%
14094 \else
14095 \wd\count@\hsize
14096 \fi}%
14097 \count@\col@number \advance\count@\m@ne
14098 \mult@info\z@
14099 {Column spec: \the\full@width\space = indent
14100 + columns + sep =\MessageBreak
14101 \the\multicol@leftmargin\space
14102 + \the\col@number\space
14103 x \the\hsize\space
14104 + \the\count@\space

```



```

14105         x \the\columnsep
14106     }%
14107 \ifvmode\else\errmessage{Multicol Error}\fi
14108 \nointerlineskip
14109 \setbox\z@\hbox{p}\global\dimen\tw@\dp\z@
14110 \moveright\multicol@leftmargin
14111 \hbox to\full@width{%
14112     \bidi@multicol@align@columns
14113     \rlap{\phantom p}%
14114 }%
14115 \prevdepth\z@
14116 \kern-\dimen\tw@
14117 \ifdim\dimen\tw@ > \mc@gridwarn
14118 \PackageWarning{multicol}%
14119 {Very deep columns!\MessageBreak
14120 Grid alignment might be broken}%
14121 \fi
14122 }
14123 \def\LTR@column@boxes{%
14124     \process@cols\mult@gfirstbox{%
14125         \ifdim\dp\count@>\dimen\tw@
14126             \global\dimen\tw@\dp\count@ \fi
14127         \mc@col@status@write
14128         \box\count@
14129         \hss{\columnseprulecolor\vrule
14130             \@width\columnseprule}\hss}%
14131     \ifdim\dp\mult@rightbox>\dimen\tw@
14132         \global\dimen\tw@\dp\mult@rightbox \fi
14133     \mc@lastcol@status@write
14134     \box\mult@rightbox
14135 }
14136
14137 \def\RTL@column@boxes{%
14138     \ifnum\col@number<\tw@
14139         \LTR@column@boxes
14140     \else
14141         \process@cols\mult@gfirstbox{%
14142             \hskip\hsize
14143             \hss{\columnseprulecolor\vrule
14144                 \@width\columnseprule}\hss
14145         }%
14146         \hskip\hsize
14147         \process@cols\mult@gfirstbox{%
14148             \ifdim\dp\count@>\dimen\tw@
14149                 \global\dimen\tw@\dp\count@ \fi
14150             \hskip-\hsize
14151             \mc@col@status@write
14152             \box\count@
14153             \hskip-\hsize
14154             \hskip-\columnsep

```



```

14155     }%
14156     \ifdim\dp\mult@rightbox>\dimen\tw@
14157         \global\dimen\tw@\dp\mult@rightbox \fi
14158     \hskip-\hsize
14159     \mc@lastcol@status@write
14160     \box\mult@rightbox
14161     \hskip-\hsize
14162     \hskip\full@width
14163 \fi
14164 }
14165 \newcommand\RTLmulticolcolumns
14166     {\let\ bidi@multicol@align@columns
14167         \RTL@column@boxes}
14168 \newcommand\LTRmulticolcolumns
14169     {\let\ bidi@multicol@align@columns
14170         \LTR@column@boxes}
14171 \newcommand\ bidi@multicol@align@columns
14172     {\if@RTLmain\RTL@column@boxes\else\LTR@column@boxes\fi}
14173 \def\multicols#1{\col@number#1\relax
14174     \ifnum\col@number<\tw@
14175         \PackageWarning{multicol}%
14176             {Using ` \number\col@number'
14177             columns doesn't seem a good idea.^^J
14178             I therefore use two columns instead}%
14179         \col@number\tw@ \fi
14180     \ifnum\col@number>10
14181         \PackageError{multicol}%
14182             {Too many columns}%
14183             {Current implementation doesn't
14184             support more than 10 columns.%
14185             \MessageBreak
14186             I therefore use 10 columns instead}%
14187         \col@number10 \fi
14188     \ifx\@footnotetext\mult@footnotetext\else
14189         \let\orig@footnotetext\@footnotetext
14190         \let\@footnotetext\mult@footnotetext
14191     \fi
14192     \ifx\@LTRfootnotetext\mult@LTRfootnotetext\else
14193         \let\orig@LTRfootnotetext\@LTRfootnotetext
14194         \let\@LTRfootnotetext\mult@LTRfootnotetext
14195     \fi
14196     \ifx\@RTLfootnotetext\mult@RTLfootnotetext\else
14197         \let\orig@RTLfootnotetext\@RTLfootnotetext
14198         \let\@RTLfootnotetext\mult@RTLfootnotetext
14199     \fi
14200     \@ifnextchar[\mult@cols{\mult@cols[]}]
14201 \long\def\mult@footnotetext#1{\begingroup
14202     \hsize\textwidth
14203     \columnwidth\textwidth
14204     \orig@footnotetext{#1}\endgroup}

```



```

14205 \long\def\mult@LTRfootnotetext#1{\begingroup
14206         \hsize\textwidth
14207         \columnwidth\textwidth
14208         \orig@LTRfootnotetext{#1}\endgroup}
14209 \long\def\mult@RTLfootnotetext#1{\begingroup
14210         \hsize\textwidth
14211         \columnwidth\textwidth
14212         \orig@RTLfootnotetext{#1}\endgroup}
14213 \def\right@footnoterule{%
14214     \kern-3\p@
14215     \hbox to \textwidth{\hskip \dimexpr\textwidth-.4\columnwidth\relax \hrulefill }
14216     \kern2.6\p@}
14217 \def\textwidth@footnoterule{\kern-3\p@
14218     \hrule \@width \textwidth \kern 2.6\p@}

```

### 7.83 multienum-xetex-bidi.def

```

14219 \ProvidesFile{multienum-xetex-bidi.def}[2011/04/16 v0.1 bidi adaptations for multienum package]
14220 \renewcommand{\itemx}[1]{\parbox[t]{%
14221     {\labelwidth}{\hfill{\labelname}}\hskip\labelsep%
14222     \parbox[t]{\remainx}{\bidi@raggedright #1}\par}%\smallskip
14223 \renewcommand{\itemxx}[2]{\parbox[t]{%
14224     {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
14225     \parbox[t]{.5\remainxx}{\bidi@raggedright #1}\hfill\parbox[t]{%
14226     {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
14227     \parbox[t]{0.5\remainxx}{\bidi@raggedright #2}\smallskip
14228 \renewcommand{\itemxxx}[3]{\parbox[t]{%
14229     {\labelwidth}{\hfill{\labelname}}\hskip\labelsep%
14230     \parbox[t]{.3333\remainxxx}{\bidi@raggedright #1}\hfill\parbox[t]{%
14231     {\labelwidth}{\hfill {\labelname}}\hskip\labelsep%
14232     \parbox[t]{0.3333\remainxxx}{\bidi@raggedright #2}\hfill\parbox[t]{%
14233     {\labelwidth}{\hfill{\labelname}}\hskip\labelsep%
14234     \parbox[t]{0.3333\remainxxx}{\bidi@raggedright #3}\par}%\smallskip
14235 \renewcommand{\itemxxxx}[4]{\parbox[t]{%
14236     {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
14237     \parbox[t]{.25\remainxxxx}{\bidi@raggedright #1}\hfill\parbox[t]{%
14238     {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
14239     \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #2}\hfill%
14240     \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
14241     \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #3}\hfill%
14242     \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
14243     \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #4}\smallskip
14244 \renewcommand{\itemxxxxx}[5]{\parbox[t]{%
14245     {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
14246     \parbox[t]{0.2\remainxxxxx}{\bidi@raggedright #1}\hfill%
14247     \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
14248     \parbox[t]{0.2\remainxxxxx}{\bidi@raggedright #2}\hfill%
14249     \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
14250     \parbox[t]{0.2\remainxxxxx}{\bidi@raggedright #3}\hfill%
14251     \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep

```



```

14252 \parbox[t]{0.2\remainxxxxx}{\bidi@raggedright #4}\hfill%
14253 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
14254 \parbox[t]{0.2\remainxxxxx}{\bidi@raggedright #5}\smallskip}
14255 \renewcommand{\itemxox}[2]{\parbox[t]{%
14256 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
14257 \parbox[t]{\remainxox}{\bidi@raggedright #1}\hfill%
14258 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
14259 \parbox[t]{0.3333\remainxxx}{\bidi@raggedright #2}\smallskip}
14260 \renewcommand{\itemxxo}[2]{\parbox[t]{%
14261 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
14262 \parbox[t]{0.3333\remainxxx}{\bidi@raggedright #1}\hfill%
14263 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
14264 \parbox[t]{\remainxox}{\bidi@raggedright #2}\smallskip}
14265 \renewcommand{\itemxox}[3]{\parbox[t]{%
14266 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
14267 \parbox[t]{\remainxox}{\bidi@raggedright #1}\hfill%
14268 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
14269 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #2}\hfill%
14270 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
14271 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #3}\smallskip}
14272 \renewcommand{\itemxxox}[3]{\parbox[t]{%
14273 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
14274 \parbox[t]{.25\remainxxxx}{\bidi@raggedright #1}\hfill%
14275 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
14276 \parbox[t]{\remainxox}{\bidi@raggedright #2}\hfill%
14277 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
14278 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #3}\smallskip}
14279 \renewcommand{\itemxxox}[3]{\parbox[t]{%
14280 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
14281 \parbox[t]{.25\remainxxxx}{\bidi@raggedright #1}\hfill%
14282 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
14283 \parbox[t]{.25\remainxxxx}{\bidi@raggedright #2}\hfill%
14284 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
14285 \parbox[t]{\remainxox}{\bidi@raggedright #3}\smallskip}

```

## 7.84 natbib-xetex-bidi.def

```

14286 \ProvidesFile{natbib-xetex-bidi.def}[2017/06/09 v0.2 bidi adaptations for natbib package for
14287 \renewenvironment{thebibliography}[1]{%
14288 \bibsection
14289 \parindent\z@
14290 \bibpreamble
14291 \bibfont
14292 \ifRTL\ifLTRbibitems\@RTLfalse\else\fi\else\ifRTLBibitems\@RTLtrue\else\fi\fi
14293 \bidi@thebibliography@font@hook%
14294 \list{\biblabel{\the\c@NAT@ctr}}{\@bibsetup{#1}\global\c@NAT@ctr\z@}%
14295 \ifNAT@openbib
14296 \renewcommand\newblock{\par}%
14297 \else
14298 \renewcommand\newblock{\hskip .11em \@plus.33em \@minus.07em}%

```



```

14299 \fi
14300 \sloppy\clubpenalty4000\widowpenalty4000
14301 \sfcode`.\@m
14302 \let\NAT@bibitem@first@sw\@firstoftwo
14303 \let\citeN\cite \let\shortcite\cite
14304 \let\citeasnoun\cite
14305 }{%
14306 \bibitem@fin
14307 \bibpostamble
14308 \def\@noitemerr{%
14309 \PackageWarning{natbib}{Empty `thebibliography' environment}}%
14310 }%
14311 \endlist
14312 \bibcleanup
14313 }%

```

## 7.85 newfloat-xetex-bidi.def

```

14314 \ProvidesFile{newfloat-xetex-bidi.def}[2013/05/22 v0.1 bidi adaptations for newfloat package]
14315 \renewcommand*\newfloat@setwithin[2]{%
14316 \ifcsname c@chapter\endcsname
14317 \@removefromreset{#1}{chapter}%
14318 \fi
14319 \@removefromreset{#1}{section}%
14320 \edef\@tempa{#2}%
14321 \ifx\@tempa\@empty
14322 \def\@tempa{none}%
14323 \fi
14324 \def\@tempb{none}%
14325 \ifx\@tempa\@tempb
14326 \ifcsname c@chapter\endcsname
14327 \@chapterlistsgap@off{#1}%
14328 \fi
14329 \newfloat@@setwithin{#1}{\@tempa}%
14330 \else
14331 \def\@tempb{chapter}%
14332 \ifx\@tempa\@tempb
14333 \@addtoreset{#1}{chapter}%
14334 \@chapterlistsgap@on{#1}%
14335 \newfloat@@setwithin{#1}{\ifnum\c@chapter>\z@ \thechapter\@SepMark\fi}{\theHchapter\@SepMark}%
14336 \else
14337 \def\@tempb{section}%
14338 \ifx\@tempa\@tempb
14339 \@addtoreset{#1}{section}%
14340 \ifcsname c@chapter\endcsname
14341 \@addtoreset{#1}{chapter}%
14342 \@chapterlistsgap@on{#1}%
14343 \newfloat@@setwithin{#1}{\thesection\@SepMark}{\theHsection\@SepMark}%
14344 \else
14345 \newfloat@@setwithin{#1}{\ifnum\c@section>\z@ \thesection\@SepMark\fi}{\theHsection\@SepMark}%

```



```

14346         \fi
14347     \else
14348         \newfloat@Error{Invalid value `#2' for option `within'}%
14349     \fi
14350 \fi
14351 \fi}

```

## 7.86 ntheorem-xetex-bidi.def

```

14352 \ProvidesFile{ntheorem-xetex-bidi.def}[2012/05/01 v0.1 bidi adaptations for ntheorem package]
14353 \gdef\@thm#1#2#3{%
14354     \if@thmmarks
14355         \stepcounter{end\InTheoType ctr}%
14356     \fi
14357     \renewcommand{\InTheoType}{#1}%
14358     \if@thmmarks
14359         \stepcounter{curr#1ctr}%
14360         \setcounter{end#1ctr}{0}%
14361     \fi
14362     \refstepcounter{#2}%
14363     \theorem@prework
14364     \thm@topsepadd \theorempostskipamount % cf. latex.ltx: \@trivlist
14365     \ifvmode \advance\thm@topsepadd\partopsep\fi
14366     \trivlist
14367     \@topsep \theorempreskipamount
14368     \@topsepadd \thm@topsepadd % used by \@endparenv
14369     \advance\linewidth -\theorem@indent
14370     \advance\@totalleftmargin \theorem@indent
14371     \if@RTL\parshape \@one 0pt \linewidth\else \parshape \@one \@totalleftmargin \linewidth\fi
14372     \@ifnextchar[{\@ythm{#1}{#2}{#3}}{\@xthm{#1}{#2}{#3}}

```

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

```

14373 \ProvidesFile{ntheorem-hyper-xetex-bidi.def}[2012/05/01 v0.1 bidi adaptations for ntheorem-hyper]
14374 \gdef\@thm#1#2#3{%
14375     \if@thmmarks
14376         \stepcounter{end\InTheoType ctr}%
14377     \fi
14378     \renewcommand{\InTheoType}{#1}%
14379     \if@thmmarks
14380         \stepcounter{curr#1ctr}%
14381         \setcounter{end#1ctr}{0}%
14382     \fi
14383     \refstepcounter{#2}%
14384     \thm@topsepadd \theorempostskipamount % cf. latex.ltx: \@trivlist
14385     \ifvmode \advance\thm@topsepadd\partopsep\fi
14386     \trivlist
14387     \@topsep \theorempreskipamount
14388     \@topsepadd \thm@topsepadd % used by \@endparenv
14389     \advance\linewidth -\theorem@indent
14390     \advance\@totalleftmargin \theorem@indent

```





```

14391 \ifRTL\parshape \@ne Opt \linewidth\else \parshape \@ne \@totalleftmargin \linewidth\fi
14392 \@ifnextchar[{\@ythm{#1}{#2}{#3}}{\@xthm{#1}{#2}{#3}}

```

## 7.88 overpic-xetex-bidi.def

```

14393 \ProvidesFile{overpic-xetex-bidi.def}[2015/12/07 v0.1 bidi adaptations for overpic package fo
14394 \renewenvironment{overpic}[2] [] {%
14395   \sbox{\z@}{\includegraphics[#1]{#2}}%
14396   \settodepth{\@tempcnta}{\usebox{\z@}}%
14397   \settoheight{\@tempcntb}{\usebox{\z@}}%
14398   \advance\@tempcntb\@tempcnta%
14399   \settowidth{\@tempcnta}{\usebox{\z@}}%
14400   \setlength{\@tempdima}{\unitlength}%
14401   \count@=\z@\Gin@gridfalse\setkeys{Gin}{#1}%
14402 %
14403   \OVP@calc%
14404 %
14405   \begin{picture}(\@tempcnta,\@tempcntb)%
14406     \ifRTL\else\put(0,0){\makebox(0,0)[bl]{\usebox{\z@}}}%
14407     \ifGin@grid%
14408       \put(0,0){\normalfont\fontsize\@viipt\@viipt\selectfont%
14409         \grid(\@tempcnta,\@tempcntb)(\count@,\count@)[0,0]}%
14410     \fi\fi%
14411     % reset the graphics parameter
14412     \let\Gin@outer@scalex\relax
14413     \let\Gin@outer@scaley\relax
14414     \let\Gin@angle\relax
14415     \let\Gin@ewidth\Gin@exclamation
14416     \let\Gin@eheight\Gin@ewidth
14417     \def\Gin@scalex{1}
14418     \let\Gin@scaley\Gin@exclamation
14419   }{%
14420     \ifRTL\ifGin@grid%
14421       \put(0,0){\normalfont\fontsize\@viipt\@viipt\selectfont%
14422         \grid(\@tempcnta,\@tempcntb)(\count@,\count@)[0,0]}%
14423     \fi%
14424     \put(0,0){\makebox(0,0)[bl]{\usebox{\z@}}}\fi%
14425   \end{picture}%
14426 }%

```

## 7.89 pdfpages-xetex-bidi.def

```

14427 \ProvidesFile{pdfpages-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for pdfpages package
14428 \renewcommand*{\includepdf}[2] [] {%
14429   \begingroup
14430   \@RTLfalse
14431   \let\AM@threadname\relax
14432   \AM@split@options{pdfpages}{#1}%
14433   \edef\AM@temp{\pdfpages}{\the\@temptokena}%
14434   \expandafter\setkeys\AM@temp
14435   \ifthenelse{\boolean{AM@pkg@draft} \and \boolean{AM@survey}}{%

```



```

14436 \let\AM@currentdocname\relax
14437 \renewcommand\includegraphics[2][]{Survey in draft-mode}%
14438 \def\AM@pagecount{0}%
14439 }{%
14440 \AM@findfile{#2}%
14441 \if\AM@threadname\relax
14442 \def\AM@threadname{\AM@currentdocname}%
14443 \fi
14444 }%
14445 \ifAM@survey
14446 \def\AM@pagestemp{%
14447 \@tempcnta=0
14448 \def\foo{%
14449 \ifundefined{r@\AM@xrprefix pdfpages@page\the\@tempcnta}%
14450 {\let\foo\relax}
14451 {\expandafter\ifx\expandafter\\AM@pagestemp\\
14452 \edef\AM@pagestemp{%
14453 \AM@pageref{\AM@xrprefix pdfpages@page\the\@tempcnta}}%
14454 \else
14455 \edef\AM@pagestemp{\AM@pagestemp,%
14456 \AM@pageref{\AM@xrprefix pdfpages@page\the\@tempcnta}}%
14457 \fi
14458 \advance\@tempcnta 1\relax
14459 }%
14460 \foo
14461 }%
14462 \foo
14463 \expandafter\ifx\expandafter\\AM@pagestemp\\
14464 \def\AM@pagestemp{1}%
14465 \fi
14466 \fi
14467 \ifAM@output
14468 \expandafter\AM@readlist\expandafter{\AM@pagestemp}%
14469 \AM@output{#1}%
14470 \fi
14471 \AM@CheckAtEnd
14472 \endgroup
14473 \AM@ClearShipoutPicture
14474 }

```

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

```

14475 \ProvidesFile{pgfcorescopes.code-xetex-bidi.def}[2015/11/14 v0.1 bidi adaptations for pgf pac
14476 \def\pgfpicture{%
14477 \begingroup%
14478 \ifmmode\else\@RTLfalse\beginL\fi%
14479 \pgfpicturetrue%
14480 \global\advance\pgf@picture@serial@count by1\relax%
14481 \edef\pgfpictureid{pgfid\the\pgf@picture@serial@count}%
14482 \let\pgf@nodecallback=\pgfutil@gobble%

```



```

14483 \pgf@picmaxx=-16000pt\relax%
14484 \pgf@picminx=16000pt\relax%
14485 \pgf@picmaxy=-16000pt\relax%
14486 \pgf@picminy=16000pt\relax%
14487 \pgf@relevantforpicturesizetrue%
14488 \pgf@resetpathsizes%
14489 \pgfutil@ifnextchar\bgroup\pgf@oldpicture\pgf@picture}
14490 \def\endpgfpicture{%
14491     \ifpgfrememberpicturepositiononpage%
14492     \hbox to0pt{\pgfsys@markposition{\pgfpictureid}}%
14493     \fi%
14494     % ok, now let's position the box
14495     \ifdim\pgf@picmaxx=-16000pt\relax%
14496     % empty picture. make size 0.
14497     \global\pgf@picmaxx=0pt\relax%
14498     \global\pgf@picminx=0pt\relax%
14499     \global\pgf@picmaxy=0pt\relax%
14500     \global\pgf@picminy=0pt\relax%
14501     \fi%
14502     % Shift baseline outside:
14503     \pgf@relevantforpicturesizefalse%
14504     \pgf@process{\pgf@baseline}%
14505     \xdef\pgf@shift@baseline{\the\pgf@y}%
14506     %
14507     \pgf@process{\pgf@trimleft}%
14508     \global\advance\pgf@x by-\pgf@picminx
14509     % prepare \hskip\pgf@trimleft@final.
14510     % note that \pgf@trimleft@final is also queried
14511     % by the pgf image externalization.
14512     \xdef\pgf@trimleft@final{-\the\pgf@x}%
14513     %
14514     \pgf@process{\pgf@trimright}%
14515     \global\advance\pgf@x by-\pgf@picmaxx
14516     % prepare \hskip\pgf@trimright@final.
14517     % note that \pgf@trimright@final is also queried
14518     % by the pgf image externalization.
14519     \xdef\pgf@trimright@final{\the\pgf@x}%
14520     %
14521     \pgf@remember@layerlist@globally
14522     \endgroup%
14523     \hss%
14524     \egroup%
14525     \pgf@restore@layerlist@from@global
14526     \pgf@insertlayers%
14527     \endgroup%
14528     \pgfsys@discardpath%
14529     \endgroup%
14530     \pgfsys@endscope%
14531     \pgfsys@endpicture%
14532 \endgroup%

```



```

14533 \hss
14534 \egroup%
14535 \pgfsys@typesetpicturebox\pgfpic%
14536 \ifmmode\else\endL\fi%
14537 \endgroup%
14538 }

```

## 7.91 picinpar-xetex-bidi.def

```

14539 \ProvidesFile{picinpar-xetex-bidi.def}[2013/04/08 v0.2 bidi adaptations for picinpar package]
14540 \long\def\@makewincaption#1#2{%
14541 \setbox\@tempboxa\hbox{\footnotesize{\bf #1:\enspace}{#2}}%
14542 \ifdim\wd\@tempboxa>\picwd
14543 {\footnotesize{\bf #1:\enspace}{#2\par}}
14544 \else
14545 \hbox to\picwd{\if@RTL\beginR\fi\hfil\box\@tempboxa\hfil\if@RTL\endR\fi}
14546 \fi}
14547 \def\endwindow{%
14548 \global\tcd=\tcdsav
14549 \egroup\vskip\parskip\parshape=0 % reset parshape; end \box\rawtext
14550 \vbadness=10000
14551 \splittopskip=0pt
14552 %
14553 % Typeset the lines above the window
14554 %
14555 \ifnum\tcd>0\setbox\holder=\vsplit\rawtext to \tcd\baselineskip
14556 \tcn=\tcd
14557 \loop\advance\tcn -1
14558 \setbox\fslice=\vsplit\holder to\baselineskip
14559 \prune\fslice\linewidth
14560 \topheight=0pt
14561 \ifnum\dp\fslice>\dp\wstrutbox
14562 \advance\topheight-\dp\fslice
14563 \advance\topheight\dp\wstrutbox
14564 \advance\topheight\ilg\fi
14565 \hbox to\linewidth{\box\fslice}
14566 \vskip-\topheight
14567 \ifdim\ht\holder>0pt\repeat
14568 \fi
14569 %
14570 % Now we build the boxes beside the window
14571 %
14572 \global\topheight=\tc1\baselineskip
14573 \ifnum\cumpartcl>0\global\tcl=\cumtcl
14574 \global\topheight=\vpic
14575 \fi
14576 \ifnum\bl>0 \ifnum\br>0 \multiply\topheight by 2\fi\fi
14577 \ifnum\bl>0\setbox\holder=\vsplit\rawtext to\topheight
14578 \else\ifnum\br>0\setbox\holder=\vsplit\rawtext to\topheight\fi\fi
14579 \tcn=\tc1 \na=0 \nb=0

```



```

14580 \ifnum\bl>0 \ifnum\br>0 \multiply\tcn by 2\fi\fi
14581 \ifnum\bl>0\na=\tcn\ifnum\br>0\divide\na by 2\fi\fi
14582 \ifnum\br>0\nb=\tcn\ifnum\bl>0\divide\nb by 2\fi\fi
14583 \ifnum\na=0\ifnum\nb=0
14584     \setbox\waslice=\vbox to\vpic{\vss}
14585     \setbox\wbslice=\vbox to\vpic{\vss}
14586     \bl=1\br=1
14587     \vskip\ilg
14588 \fi\fi
14589 %
14590 % both sides
14591 %
14592 \ifnum\na>0 \ifnum\nb>0
14593 \loop\advance\nb -1
14594 \advance\na -1
14595 \if@RTL%
14596 \setbox\bslice=\vsplit\holder to\baselineskip
14597 \prune\bslice\rtside
14598 \setbox\wbslice=\vbox{\unvbox\wbslice\hbox
14599 to\rtside{\box\bslice\hfil}}
14600 \setbox\aslice=\vsplit\holder to\baselineskip
14601 \prune\aslice\lftside
14602 \setbox\waslice=\vbox{\unvbox\waslice\hbox
14603 to\lftside{\box\aslice\hfil}}
14604 \else%
14605 \setbox\aslice=\vsplit\holder to\baselineskip
14606 \prune\aslice\lftside
14607 \setbox\waslice=\vbox{\unvbox\waslice\hbox
14608 to\lftside{\box\aslice\hfil}}
14609 \setbox\bslice=\vsplit\holder to\baselineskip
14610 \prune\bslice\rtside
14611 \setbox\wbslice=\vbox{\unvbox\wbslice\hbox
14612 to\rtside{\box\bslice\hfil}}
14613 \fi%
14614 \ifnum\nb>0\repeat
14615 \fi\fi
14616 %
14617 % only text on the left side
14618 %
14619 \ifnum\na>0
14620     \loop\advance\na -1
14621     \setbox\aslice=\vsplit\holder to\baselineskip
14622     \prune\aslice\lftside
14623     \setbox\waslice=\vbox{\unvbox\waslice\hbox
14624 to\lftside{\box\aslice\hfil}}
14625     \ifdim\ht\holder>Opt\repeat
14626 \fi
14627 %
14628 % only text on the right side
14629 %

```



```

14630 \ifnum\nb>0
14631   \loop\advance\nb -1
14632   \setbox\bslice=\vsplit\holder to\baselineskip
14633   \prune\bslice\rtside
14634   \setbox\wbslice=\vbox{\unvbox\wbslice\hbox
14635   to\rtside{\box\bslice\hfil}}
14636   \ifdim\ht\holder>Opt\repeat
14637 \fi
14638 %
14639 % fixing the dimensions of the window part
14640 %
14641 \ifnum\bl=0\topheight=\ht\wbslice
14642 \else\ifnum\br=0\topheight=\ht\waslice
14643   \else\ifdim\ht\waslice>\ht\wbslice\topheight=\ht\waslice
14644   \else\topheight=\ht\wbslice\fi\fi\fi
14645 %
14646 % ship out the window material to the main vertical list
14647 %
14648 \ifnum\bl>0 \ifnum\br>0 \ifdim\ht\wbslice<\topheight
14649 \setbox\wbslice=\vbox to\topheight{\box\wbslice\vfill}
14650 \fi\fi\fi
14651 \setbox>windowbox=\vbox{\hbox to\linewidth{%
14652 \ifnum\bl>0\box\waslice\hfill\fi%
14653 \vbox to\topheight{\hrule width\picwd heightOpt depthOpt\vskipOpt%
14654 \vfill\unvbox\picbox%
14655 \ifnum\picwd>0\vfill\fi%
14656 \vss}\ifnum\br>0\hfill\vbox{\box\wbslice}\fi}}%
14657 \unvbox>windowbox%
14658 \loop
14659 \setbox\bslice=\vsplit\rawtext to\baselineskip
14660 \prune\bslice\linewidth
14661 \setbox\wbslice=\vbox{\hbox to\linewidth{\box\bslice\hfil}}
14662 \unvbox\wbslice
14663 \ifdim\ht\rawtext>Opt
14664 \repeat
14665 }% FINITO

```

## 7.92 plain-xetex-bidi.def

```

14666 \def\TeXXeTOn{\TeXXeTstate=1 }
14667 \def\TeXXeTOff{\TeXXeTstate=0 }
14668 \TeXXeTOn
14669 \def\usebox#1{\leavevmode\copy #1\relax}
14670 \def\bidi@RTL@everypar{{\setbox\z@\lastbox\if@RTL\beginR\else\beginL\fi\ifvoid\z@\else\usebox
14671   \let\bidi@o@everypar=\everypar
14672   \newtoks\bidi@n@everypar
14673   \bidi@n@everypar\expandafter{\the\bidi@o@everypar}
14674   \bidi@o@everypar{\bidi@RTL@everypar\the\bidi@n@everypar}
14675   \let\everypar=\bidi@n@everypar
14676 \def\moreLRE{\bracetext \aftergroup\endL \beginL\@RTLfalse}

```



```

14677 \def\moreRLE{\bracetext \aftergroup\endR \beginR\@RTLtrue}
14678 \protected\def\hboxR{\hbox\bgroup
14679 \everyhbox{%
14680 \aftergroup\egroup
14681 \everyhbox{}}%
14682 \beginR
14683 \@hboxRconstructtrue
14684 \bgroup
14685 \aftergroup\endR
14686 \aftergroup\egroup
14687 }\hbox}
14688 \protected\def\hboxL{\hbox\bgroup
14689 \everyhbox{%
14690 \aftergroup\egroup
14691 \everyhbox{}}%
14692 \beginL
14693 \@hboxRconstructfalse
14694 \bgroup
14695 \aftergroup\endL
14696 \aftergroup\egroup
14697 }\hbox}
14698 \protected\def\vboxR{\vbox\bgroup
14699 \everyvbox{%
14700 \aftergroup\egroup
14701 \everyvbox{}}%
14702 \@RTLtrue
14703 \bgroup
14704 \aftergroup\egroup
14705 }\vbox}
14706 \protected\def\vboxL{\vbox\bgroup
14707 \everyvbox{%
14708 \aftergroup\egroup
14709 \everyvbox{}}%
14710 \@RTLfalse
14711 \bgroup
14712 \aftergroup\egroup
14713 }\vbox}
14714 \def\LTR{\par\@RTLfalse\@RTL@footnotefalse\hsize\linewidth\parshape\z@}
14715 \def\endLTR{\par}
14716 \def\RTL{\par\@RTLtrue\@RTL@footnotetrue\hsize\linewidth\parshape\z@}
14717 \def\endRTL{\par}
14718 \def\setRTL{\@RTLtrue\@RTL@footnotetrue}
14719 \def\setLTR{\@RTLfalse\@RTL@footnotefalse}
14720 \let\unsetRTL=\setLTR
14721 \let\unsetLTR=\setRTL
14722 \let\LR=\LRE
14723 \let\RL=\RLE
14724 \def\@ensureRTL#1{\ifRTL#1\else\RLE{#1}\fi}
14725 \def\@ensureLTR#1{\ifRTL\LRE{#1}\else#1\fi}
14726 \let\@ensureRL=\@ensureRTL

```



```

14727 \let\@ensure@LR=\@ensure@LTR
14728 \def\@ensure@dir#1{\if@RTL\RLE{#1}\else{#1}\fi}
14729 \let\@ensure@maindir=\@ensure@dir
14730 \def\@RTL{RTL}
14731 \def\@LTR{LTR}
14732 \def\save@dir{\if@RTL\gdef\saved@dir{RTL}\else\gdef\saved@dir{LTR}\fi}
14733 \def\reset@dir{\ifx\saved@dir\@RTL\setRTL\else\ifx\saved@dir\@LTR\setLTR\else\relax\fi\fi}
14734 \let\@TeX\TeX
14735 \def\TeX{\@ensure@LTR{\@TeX}}
14736 \long\def\@bidi@reflect@box#1{%
14737   \leavevmode
14738   \setbox\z@\hbox{#1}%
14739   \setbox\tw@\hbox{\special{x:gsave}\special{x:scale -1 1}\rlap{\copy\z@}\special{x:grestore}}
14740   \hbox to \wd\z@{\kern\wd\z@\box\tw@\hss}%
14741 }
14742 \def\XeTeX{LR{\leavevmode$\smash{\hbox{X}\lower.5ex
14743   \hbox{\kern-.125em\@bidi@reflect@box{E}}\kern-.1667em \TeX}}$}}
14744 \let\setRL=\setRTL
14745 \let\setLR=\setLTR
14746 \let\unsetRL=\setLTR
14747 \let\@bidi@saved@eqno=\eqno
14748 \let\@bidi@saved@leqno=\leqno
14749 \def\eqno{\ifnum\pdisplaydirection<\z@ \@bidi@saved@leqno \else \@bidi@saved@eqno \fi}
14750 \def\leqno{\ifnum\pdisplaydirection<\z@ \@bidi@saved@eqno \else \@bidi@saved@leqno \fi}
14751 \def\centerline#1{\line{\hss\if@RTL\beginR\fi#1\if@RTL\endR\fi\hss}}
14752 \def\leftline#1{\line{\if@RTL\beginR\fi#1\if@RTL\endR\fi\hss}}
14753 \def\rightline#1{\line{\hss\if@RTL\beginR\fi#1\if@RTL\endR\fi}}

```

## 7.93 pstricks-xetex-bidi.def

```

14754 \ProvidesFile{pstricks-xetex-bidi.def}[2015/11/18 v0.5 bidi adaptations for pstricks package]
14755 \def\pspicture{\begingroup\ifmmode\else\@RTLfalse\beginL\fi\pst@ifstar\pst@picture}
14756 \def\endpspicture{%
14757   \ifshowgrid\ifnum\showgridp>0
14758     \psgrid[xunit=\sh@wgridXunit,yunit=\sh@wgridYunit,style=gridstyle]\fi\fi%
14759   \pst@killglue
14760 % \global\pst@shift=\pst@shift% in fact of the following endgroup
14761   \endgroup
14762   \egroup
14763   \ifdim\wd\pst@hbox=\z@\else
14764     %\@pstrickserr{Extraneous space in the pspicture environment}%
14765     %\Type \space <return> \space to proceed.}%
14766   \fi
14767   \ht\pst@hbox=\pst@dimd
14768   \dp\pst@hbox=-\pst@dimb
14769   \setbox\pst@hbox=\hbox{%
14770     \kern-\pst@dimd
14771 % Orig version -----
14772 %\ifx\pst@tempa\@empty\else
14773 %\advance\pst@dimd-\pst@dimb

```





```

14774 %\pst@dimd=\pst@tempa\pst@dimd
14775 %\advance\pst@dimd\pst@dimb
14776 %\lower\pst@dimd
14777 %\fi
14778 %----- end Orig
14779 \ifPst@shift@star%\typeout{==pstricks== old behaviour of the shift option}% shift=*
14780 \advance\pst@dimd-\pst@dimb
14781 \pst@dimd=0.5\pst@dimd
14782 \else\pst@dimd-\pst@shift\fi
14783 \advance\pst@dimd\pst@dimb
14784 \lower\pst@dimd
14785 \box\pst@hbox
14786 \kern\pst@dimc}%
14787 \ifstar\setbox\pst@hbox=\hbox{\clipbox@@\z@}\fi
14788 \leavevmode\ifdim\overfullrule=\z@\box\pst@hbox\else
14789 \fboxsep=0pt
14790 \fbox{\rule[-\pst@shift]{0pt}{\ht\pst@hbox}\rule{\wd\pst@hbox}{0pt}}\fi
14791 \ifmmode\else\endL\fi
14792 \endgroup%
14793 \psset[pstricks]{shift=0}% reset value
14794 }

```

## 7.94 quotchap-xetex-bidi.def

```

14795 \ProvidesFile{quotchap-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for quotchap package]
14796 \renewcommand{\qauthor}[1]{%
14797 \par\smallskip
14798 {\if@RTL\raggedright\else\raggedleft\fi\upshape #1\quad\hbox{}\par}\bigskip}
14799 \renewcommand{\@makechapterhead}[1]{\chapterheadstartvskip%
14800 {\size@chapter{\sectfont\if@RTL\raggedright\else\raggedleft\fi
14801 {\chapnumfont
14802 \ifnum \c@secnumdepth >\m@ne%
14803 \if@mainmatter\thechapter%
14804 \fi\fi
14805 \par\nobreak}%
14806 {\if@RTL\raggedright\else\raggedleft\fi\advance\if@RTL\rightmargin\else\leftmargin\fi10pt}
14807 \nobreak\chapterheadendvskip}}
14808 \renewcommand*{\@iprintcites}{%
14809 \vbox to\z@{\leavevmode\copy\@quotebox\vss}
14810 \global\let\@printcites\relax}

```

## 7.95 ragged2e-xetex-bidi.def

```

14811 \ProvidesFile{ragged2e-xetex-bidi.def}[2010/07/25 v0.2 bidi adaptations for ragged2e package]
14812 \renewcommand{\Centering}{%
14813 \ifx\\ \@raggedtwoe@savedcr
14814 \let\\ \@centercr
14815 \fi
14816 \let\@gnewline\@raggedtwoe@gnewline
14817 \if@RTL\rightskip\else\leftskip\fi\CenteringLeftskip
14818 \@rightskip\CenteringRightskip

```



```

14819 \if@RTL\leftskip\else\rightskip\fi\@rightskip
14820 \parfillskip\CenteringParfillskip
14821 \parindent\CenteringParindent
14822 \@raggedtwoe@spaceskiptrue
14823 \@raggedtwoe@everyselectfont
14824 }
14825 \renewcommand{\RaggedLeft}{%
14826 \ifx\\ \@raggedtwoe@savedcr
14827 \let\\ \@centercr
14828 \fi
14829 \let\@newline\@raggedtwoe@gnewline
14830 \if@RTL\rightskip\else\leftskip\fi\RaggedLeftLeftskip
14831 \@rightskip\RaggedLeftRightskip
14832 \if@RTL\leftskip\else\rightskip\fi\@rightskip
14833 \parfillskip\RaggedLeftParfillskip
14834 \parindent\RaggedLeftParindent
14835 \@raggedtwoe@spaceskiptrue
14836 \@raggedtwoe@everyselectfont
14837 }
14838 \renewcommand{\RaggedRight}{%
14839 \ifx\\ \@raggedtwoe@savedcr
14840 \let\\ \@centercr
14841 \fi
14842 \let\@newline\@raggedtwoe@gnewline
14843 \if@RTL\rightskip\else\leftskip\fi\RaggedRightLeftskip
14844 \@rightskip\RaggedRightRightskip
14845 \if@RTL\leftskip\else\rightskip\fi\@rightskip
14846 \parfillskip\RaggedRightParfillskip
14847 \parindent\RaggedRightParindent
14848 \@raggedtwoe@spaceskiptrue
14849 \@raggedtwoe@everyselectfont
14850 }
14851 \renewcommand{\justifying}{%
14852 \let\\ \@raggedtwoe@savedcr
14853 \let\@newline\@raggedtwoe@saved@gnewline
14854 \if@RTL\rightskip\else\leftskip\fi\z@
14855 \@rightskip\z@
14856 \if@RTL\leftskip\else\rightskip\fi\@rightskip
14857 \parfillskip\JustifyingParfillskip
14858 \parindent\JustifyingParindent
14859 \@raggedtwoe@spaceskipfalse
14860 \@raggedtwoe@everyselectfont
14861 }
14862 \renewcommand*{\@raggedtwoe@raggedrightboxes@opt}{
14863 \CheckCommand*{\arrayparboxrestore}{%
14864 \let\if@nobreak\iffalse
14865 \let\if@noskipsec\iffalse
14866 \let\par\@par
14867 \let\-\@dischyph
14868 \let\'@acci\let`@accii\let\=@acciii

```



```

14869 \parindent\z@ \parskip\z@skip
14870 \everypar{}%
14871 \linewidth\hsize
14872 \@totalleftmargin\z@
14873 \if@RTL\rightright\else\leftskip\fi\z@skip \if@RTL\leftskip\else\rightright\fi\z@skip \@orig
14874 \parfillskip\@flushglue \lineskip\normallineskip
14875 \baselineskip\normalbaselineskip
14876 \sloppy}%
14877 \renewcommand{\@arrayparboxrestore}{%
14878 \let\if@nobreak\iffalse
14879 \let\if@noskipsec\iffalse
14880 \let\par\@par
14881 \let\-\@dischyph
14882 \let'\@acci\let'\@accii\let\=\@acciii
14883 \parskip\z@skip
14884 \everypar{}%
14885 \linewidth\hsize
14886 \@totalleftmargin\z@
14887 \RaggedRight
14888 \lineskip\normallineskip
14889 \baselineskip\normalbaselineskip
14890 \sloppy}%
14891 \let\@raggedtwoe@raggedrightboxes@opt\relax
14892 }
14893 \let\origin@RaggedLeft=\RaggedLeft
14894 \let\origin@RaggedRight=\RaggedRight
14895 \def\RaggedLeft{\if@RTL\origin@RaggedRight\else\origin@RaggedLeft\fi}
14896 \def\RaggedRight{\if@RTL\origin@RaggedLeft\else\origin@RaggedRight\fi}

```

## 7.96 rapport1-xetex-bidi.def

```

14897 \ProvidesFile{rapport1-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for rapport1 class fo
14898 \renewenvironment{theindex}{%
14899 \if@twocolumn
14900 \@restonecolfalse
14901 \else
14902 \@restonecoltrue
14903 \fi
14904 \columnseprule \z@
14905 \columnsep 35\p@
14906 \twocolumn[\@makeschapterhead{\indexname}]}%
14907 \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
14908 \thispagestyle{plain}\parindent\z@
14909 \parskip\z@ \@plus .3\p@\relax
14910 \let\item\@idxitem
14911 }{%
14912 \if@restonecol\onecolumn\else\clearpage\fi}
14913 \renewcommand*\head@style{%
14914 \interlinepenalty \@M
14915 \hyphenpenalty=\@M \exhyphenpenalty=\@M

```



```

14916 \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
14917 \if@titlepage
14918 \renewenvironment{abstract}{%
14919 \titlepage
14920 \null\vfil
14921 \section*{\SectFont\abstractname}%
14922 \noindent\ignorespaces}
14923 {\par\vfil\null\endtitlepage}
14924 \else
14925 \renewenvironment{abstract}{%
14926 \if@twocolumn
14927 \section*{\abstractname}%
14928 \else
14929 \bgroup\if@RTL\leftskip\else\rightskip\fi=\unitindent
14930 \section*{\small\SectFont\abstractname}%
14931 \noindent\ignorespaces
14932 \fi}
14933 {\if@twocolumn\else\par\egroup\fi}
14934 \fi
14935 \renewcommand*\@regtocline[3]{%
14936 \ifnum #1>\c@tocdepth
14937 \else
14938 \vskip\z@\@plus.2\p@
14939 {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
14940 \if@RTL\rightskip\else\leftskip\fi\unitindent
14941 \if@RTL\leftskip\else\rightskip\fi\unitindent\@plus 1fil
14942 \parfillskip\z@
14943 \@tempdima\unitindent
14944 \parindent\z@
14945 \leavevmode
14946 \hbox{} \hskip -\if@RTL\rightskip\else\leftskip\fi\relax#2\nobreak
14947 \hskip 1em \nobreak{\slshape #3}\par
14948 }%
14949 \fi}
14950 \if@oldtoc
14951 \renewcommand*\l@part[2]{%
14952 \ifnum \c@tocdepth >-2\relax
14953 \addpenalty{-\@highpenalty}%
14954 \addvspace{2.25em \@plus\p@}%
14955 \begingroup
14956 \setlength\@tempdima{3em}%
14957 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
14958 \parfillskip -\@pnumwidth
14959 {\leavevmode
14960 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
14961 \nobreak
14962 \global\@nobreaktrue
14963 \everypar{\global\@nobreakfalse\everypar{}}%
14964 \endgroup
14965 \fi}

```



```

14966 \else
14967   \renewcommand*\l@part{%
14968     \ifnum \c@tocdepth >-2\relax
14969       \addpenalty{-\@highpenalty}%
14970       \addvspace{2.25em \@plus \p@}%
14971       \@regtocline{0}%
14972     \fi}
14973 \fi
14974 \if@oldtoc
14975 \renewcommand*\l@chapter[2]{%
14976   \addpenalty{-\@highpenalty}%
14977   \vskip 1.0em \@plus\p@
14978   \setlength\@tempdima{1.5em}%
14979   \begingroup
14980   \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
14981   \parfillskip -\@pnumwidth
14982   \leavevmode \bfseries
14983   \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
14984   \hskip -\if@RTL\rightskip\else\leftskip\fi
14985   #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
14986   \penalty\@highpenalty
14987   \endgroup}
14988 \else
14989   \renewcommand*\l@chapter{\@regtocline{0}}
14990 \fi
14991 \renewcommand*\left@footnoterule{%
14992   \kern-3\p@
14993   \kern.5\baselineskip
14994   \hrule\@width\unitindent
14995   \kern.4\baselineskip
14996 }
14997 \renewcommand*\right@footnoterule{%
14998   \kern-3\p@
14999   \kern.5\baselineskip
15000   \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
15001   \kern.4\baselineskip}
15002 \renewenvironment{thebibliography}[1]
15003   {\chapter*\bibname}%
15004   \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
15005   \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
15006   \bidi@thebibliography@font@hook%
15007   \list{\@biblabel{\@arabic\c@enumiv}}%
15008     {\settowidth\labelwidth{\@biblabel{#1}}%
15009     \leftmargin\labelwidth
15010     \advance\leftmargin\labelsep
15011     \@openbib@code
15012     \usecounter{enumiv}%
15013     \let\p@enumiv\@empty
15014     \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
15015   \sloppy\clubpenalty4000\widowpenalty4000%

```



```

15016 \sfcode`. \. \m}
15017 {\def\@noitemerr
15018 {\@latex@warning{Empty `thebibliography' environment}}}%
15019 \endlist}
15020 \renewcommand*\thesection{\thechapter\@SepMark\@arabic\c@section}
15021 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
15022 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
15023 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
15024 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
15025 \renewcommand*\theequation{%
15026 \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@equation}
15027 \renewcommand*\thefigure{%
15028 \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@figure}
15029 \renewcommand*\thetable{%
15030 \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@table}
15031 \if@titlepage
15032 \renewcommand*\TitleFont{\rmfamily}
15033 \renewcommand*\maketitle{%
15034 \begin{titlepage}%
15035 \let\footnotesize\small
15036 \let\right@footnoterule\relax
15037 \let\left@footnoterule\relax
15038 \let\textwidth\footnoterule\relax
15039 \let \footnote \thanks
15040 \long\def\@makefntext##1{\parindent\z@
15041 \def\labelitemi{\textendash}\@revlabeltrue
15042 \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
15043 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
15044 \if@compatibility\setcounter{page}{0}\fi
15045 \null\vfil
15046 \vskip 60\p@
15047 \begin{center}%
15048 \TitleFont
15049 {\LARGE \def\\{\penalty -\@M}
15050 \if@allcaps
15051 \expandafter\uc@nothanks\@title\thanks\relax
15052 \else
15053 \@title
15054 \fi\par}%
15055 \vskip 3em%
15056 {\large
15057 \lineskip .75em \parindent\z@
15058 \begin{tabular}[t]{c}%
15059 \if@allcaps
15060 \expandafter\uc@authornothanks\author\and\relax
15061 \else
15062 \author
15063 \fi
15064 \end{tabular}\par}%
15065 \vskip 1.5em%

```



```

15066      {\large
15067        \if@allcaps
15068          \uppercase\expandafter{\@date}%
15069        \else
15070          \@date
15071        \fi\par}%
15072      \end{center}\par
15073      \@thanks
15074      \vfil\null
15075    \end{titlepage}%
15076    \setcounter{footnote}{0}%
15077    \global\let\thanks\relax
15078    \global\let\maketitle\relax
15079    \global\let\@thanks\@empty
15080    \global\let\@author\@empty
15081    \global\let\@title\@empty
15082    \global\let\@date\@empty
15083    \global\let\title\relax
15084    \global\let\author\relax
15085    \global\let\date\relax
15086    \global\let\and\relax
15087  }
15088  \def\uc@nothanks#1\thanks{\uppercase{#1}\futurelet\@tempa\uc@tx}
15089  \def\uc@authornothanks#1\and{\uc@nothanks#1\thanks\relax
15090    \futurelet\@tempa\uc@ax}
15091  \def\uc@ax{%
15092    \ifx\@tempa\relax
15093    \else
15094      \\\andname \\\expandafter\uc@authornothanks
15095    \fi}
15096  \def\uc@tx{\ifx\@tempa\relax
15097    \else \expandafter\uc@ty \fi}
15098  \def\uc@ty#1{\thanks{#1}\uc@nothanks}
15099  \else
15100    \renewcommand*\maketitle{\par
15101      \begingroup
15102        \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
15103        \def\@makefnmark{\rlap{%
15104          \@textsuperscript{\normalfont\@thefnmark}}}%
15105        \long\def\@makefntext{\@xmakefntext{%
15106          \@textsuperscript{\normalfont\@thefnmark}}}%
15107        \if@twocolumn
15108          \ifnum \col@number=\@ne
15109            \@maketitle
15110          \else
15111            \twocolumn[\@maketitle]%
15112          \fi
15113        \else
15114          \newpage
15115          \global\@topnum\z@

```



```

15116      \@maketitle
15117      \fi
15118      \thispagestyle{plain}\@thanks
15119    \endgroup
15120    \setcounter{footnote}{0}%
15121    \global\let\thanks\relax
15122    \global\let\maketitle\relax
15123    \global\let\@maketitle\relax
15124    \global\let\@thanks\@empty
15125    \global\let\@author\@empty
15126    \global\let\@title\@empty
15127    \global\let\@date\@empty
15128    \global\let\title\relax
15129    \global\let\author\relax
15130    \global\let\date\relax
15131    \global\let\and\relax
15132  }
15133 \def\@maketitle{%
15134   \newpage
15135   \null
15136   \vskip 2em%
15137   \begin{center}%
15138     \let \footnote \thanks
15139     {\LARGE \TitleFont \@title \par}%
15140     \vskip 1.5em%
15141     {\large \TitleFont
15142       \lineskip .5em%
15143       \begin{tabular}[t]{c}%
15144         \@author
15145       \end{tabular}\par}%
15146     \vskip 1em%
15147     {\large \TitleFont \@date}%
15148   \end{center}%
15149   \par
15150   \vskip 1.5em}
15151 \fi

```

## 7.97 rapport3-xetex-bidi.def

```

15152 \ProvidesFile{rapport3-xetex-bidi.def}[2017/06/09 v0.6 bidi adaptations for rapport3 class fo
15153 \renewenvironment{theindex}{%
15154   \if@twocolumn
15155     \@restonecolfalse
15156   \else
15157     \@restonecoltrue
15158   \fi
15159   \columnseprule \z@
15160   \columnsep 35\p@
15161   \twocolumn[\@makeschapterhead{\indexname}]%
15162   \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%

```





```

15163 \thispagestyle{plain}\parindent\z@
15164 \parskip\z@ \@plus .3\p@ \relax
15165 \let\item\@idxitem
15166 }{%
15167 \if@restonecol\onecolumn\else\clearpage\fi}
15168 \if@titlepage
15169 \renewcommand*\TitleFont{\rmfamily}
15170 \renewcommand*\maketitle{%
15171 \begin{titlepage}%
15172 \let\footnotesize\small
15173 \let\right@footnoterule\relax
15174 \let\left@footnoterule\relax
15175 \let\textwidth\footnoterule\relax
15176 \let \footnote \thanks
15177 \let \LTRfootnote \LTRthanks
15178 \let \RTLfootnote \RTLthanks
15179 \long\def\@makefnmark##1{\parindent\z@
15180 \def\labelitemi{\textendash}\@revlabeltrue
15181 \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
15182 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
15183 \if@compatibility\setcounter{page}{0}\fi
15184 \null\vfil
15185 \vskip 60\p@
15186 \begin{center}%
15187 \TitleFont
15188 {\LARGE \def\\{\penalty -\@M}
15189 \if@allcaps
15190 \expandafter\uc@nothanks\@title\thanks\relax
15191 \else
15192 \@title
15193 \fi\par}%
15194 \vskip 3em%
15195 {\large
15196 \lineskip .75em \parindent\z@
15197 \begin{tabular}[t]{c}%
15198 \if@allcaps
15199 \expandafter\uc@author\@author\and\relax
15200 \else
15201 \@author
15202 \fi
15203 \end{tabular}\par}%
15204 \vskip 1.5em%
15205 {\large
15206 \if@allcaps
15207 \uppercase\expandafter{\@date}%
15208 \else
15209 \@date
15210 \fi\par}%
15211 \end{center}\par
15212 \@thanks

```



```

15213 \vfil\null
15214 \end{titlepage}%
15215 \setcounter{footnote}{0}%
15216 \global\let\thanks\relax
15217 \global\let\LTRthanks\relax
15218 \global\let\RTLthanks\relax
15219 \global\let\maketitle\relax
15220 \global\let\@thanks\@empty
15221 \global\let\@author\@empty
15222 \global\let\@title\@empty
15223 \global\let\@date\@empty
15224 \global\let\title\relax
15225 \global\let\author\relax
15226 \global\let\date\relax
15227 \global\let\and\relax
15228 }
15229 \def\uc@nothanks#1\thanks{\uppercase{#1}\futurelet\@tempa\uc@tx}
15230 \def\uc@authornothanks#1\and{\uc@nothanks#1\thanks\relax
15231 \futurelet\@tempa\uc@ax}
15232 \def\uc@ax{%
15233 \ifx\@tempa\relax
15234 \else
15235 \\\andname \\\expandafter\uc@authornothanks
15236 \fi}
15237 \def\uc@tx{\ifx\@tempa\relax
15238 \else \expandafter\uc@ty \fi}
15239 \def\uc@ty#1{\thanks{#1}\uc@nothanks}
15240 \else
15241 \renewcommand*\maketitle{\par
15242 \begingroup
15243 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
15244 \def\@makefnmark{\rlap{%
15245 \@textsuperscript{\normalfont\@thefnmark}}}%
15246 \long\def\@makefntext{\@xmakefntext{%
15247 \@textsuperscript{\normalfont\@thefnmark}}}%
15248 \if@twocolumn
15249 \ifnum \col@number=\@ne
15250 \@maketitle
15251 \else
15252 \twocolumn[\@maketitle]%
15253 \fi
15254 \else
15255 \newpage
15256 \global\@topnum\z@
15257 \@maketitle
15258 \fi
15259 \thispagestyle{plain}\@thanks
15260 \endgroup
15261 \setcounter{footnote}{0}%
15262 \global\let\thanks\relax

```



```

15263 \global\let\LTRthanks\relax
15264 \global\let\RTLthanks\relax
15265 \global\let\maketitle\relax
15266 \global\let\@maketitle\relax
15267 \global\let\@thanks\@empty
15268 \global\let\@author\@empty
15269 \global\let\@title\@empty
15270 \global\let\@date\@empty
15271 \global\let\title\relax
15272 \global\let\author\relax
15273 \global\let\date\relax
15274 \global\let\and\relax
15275 }
15276 \def\@maketitle{%
15277   \newpage
15278   \null
15279   \vskip 2em%
15280   \if@titlecentered
15281     \begin{center}%
15282       \let \footnote \thanks
15283       \let \LTRfootnote \LTRthanks
15284       \let \RTLfootnote \RTLthanks
15285       {\LARGE \TitleFont \@title \par}%
15286       \vskip 1.5em%
15287       {\large \TitleFont
15288         \lineskip .5em%
15289         \begin{tabular}[t]{c}%
15290           \@author
15291         \end{tabular}\par}%
15292       \vskip 1em%
15293       {\large \TitleFont \@date}%
15294     \end{center}%
15295   \else
15296     {\LARGE \TitleFont \head@style \@title \par} \vskip 1.5em
15297     {\large \TitleFont \lineskip .5em \tabcolsep\z@
15298       \def\and{%% \begin{tabular} has already started
15299         \end{tabular}\hskip 1em plus .17fil
15300         \if@RTL\begin{tabular}[t]{r}\else\begin{tabular}[t]{l}\fi}% \end{tabular}
15301         \if@RTL\begin{tabular}[t]{r}\else\begin{tabular}[t]{l}\fi\@author\end{tabular}\p
15302       \vskip 1em {\large \TitleFont \@date}
15303     \fi
15304     \par
15305     \vskip 1.5em}
15306   \fi
15307   \renewcommand*\@regtocline[3]{%
15308     \ifnum #1>\c@tocdepth
15309     \else
15310       \vskip\z@\@plus.2\p@
15311       {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
15312        \if@RTL\rightskip\else\leftskip\fi\unitindent

```



```

15313 \if@RTL\leftskip\else\rightskip\fi\unitindent\@plus 1fil
15314 \parfillskip\z@
15315 \@tempdima\unitindent
15316 \parindent\z@
15317 \leavevmode
15318 \hbox{}\hskip -\if@RTL\rightskip\else\leftskip\fi\relax#2\nobreak
15319 \hskip 1em \nobreak{\slshape #3}\par
15320 }%
15321 \fi}
15322 \if@oldtoc
15323 \renewcommand*\l@part[2]{%
15324 \ifnum \c@tocdepth >-2\relax
15325 \addpenalty{-\@highpenalty}%
15326 \addvspace{2.25em \@plus\p@}%
15327 \begingroup
15328 \setlength\@tempdima{3em}%
15329 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
15330 \parfillskip -\@pnumwidth
15331 {\leavevmode
15332 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
15333 \nobreak
15334 \global\@nobreaktrue
15335 \everypar{\global\@nobreakfalse\everypar{}}%
15336 \endgroup
15337 \fi}
15338 \else
15339 \renewcommand*\l@part{%
15340 \ifnum \c@tocdepth >-2\relax
15341 \addpenalty{-\@highpenalty}%
15342 \addvspace{2.25em \@plus\p@}%
15343 \@regtocline{0}%
15344 \fi}
15345 \fi
15346 \if@oldtoc
15347 \renewcommand*\l@chapter[2]{%
15348 \addpenalty{-\@highpenalty}%
15349 \vskip 1.0em \@plus\p@
15350 \setlength\@tempdima{1.5em}%
15351 \begingroup
15352 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
15353 \parfillskip -\@pnumwidth
15354 \leavevmode \bfseries
15355 \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
15356 \hskip -\if@RTL\rightskip\else\leftskip\fi
15357 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
15358 \penalty\@highpenalty
15359 \endgroup}
15360 \else
15361 \renewcommand*\l@chapter{\@regtocline{0}}
15362 \fi

```



```

15363 \renewcommand*\head@style{%
15364     \interlinepenalty \@M
15365     \hyphenpenalty=\@M \exhyphenpenalty=\@M
15366     \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
15367 \if@titlepage
15368     \renewenvironment{abstract}{%
15369         \titlepage
15370         \null\vfil
15371         \section*{\SectFont\abstractname}%
15372         \noindent\ignorespaces}
15373     {\par\vfil\null\endtitlepage}
15374 \else
15375     \renewenvironment{abstract}{%
15376         \if@twocolumn
15377             \section*{\abstractname}%
15378         \else
15379             \bgroup\if@RTL\leftskip\else\rightskip\fi=\unitindent
15380             \section*{\small\SectFont\abstractname}%
15381             \noindent\ignorespaces
15382         \fi}
15383     {\if@twocolumn\else\par\egroup\fi}
15384 \fi
15385 \renewcommand*\thesection{\thechapter\@SepMark\@arabic\c@section}
15386 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
15387 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
15388 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
15389 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
15390 \renewcommand*\thefigure{%
15391     \ifnum\c@chapter>\z@\thechapter\@SepMark\fi\@arabic\c@figure}
15392 \renewcommand*\thetable{%
15393     \ifnum\c@chapter>\z@\thechapter\@SepMark\fi\@arabic\c@table}
15394 \renewcommand*\theequation{%
15395     \ifnum\c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@equation}
15396 \renewenvironment{thebibliography}[1]
15397     {\chapter*{\bibname}%
15398         \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
15399         \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
15400         \bidi@thebibliography@font@hook%
15401         \list{\@biblabel{\@arabic\c@enumiv}}%
15402             {\settowidth\labelwidth{\@biblabel{#1}}%
15403             \leftmargin\labelwidth
15404             \advance\leftmargin\labelsep
15405             \@openbib@code
15406             \usecounter{enumiv}%
15407             \let\p@enumiv\@empty
15408             \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
15409     \sloppy\clubpenalty4000\widowpenalty4000
15410     \sfcode`\.\@m}
15411 {\def\@noitemerr
15412     {\@latex@warning{Empty `thebibliography' environment}}%

```



```

15413     \endlist}
15414 \renewcommand*\left@footnoterule{%
15415     \kern-3\p@
15416     \kern.5\baselineskip
15417     \hrule\@width\unitindent
15418     \kern.4\baselineskip
15419 }
15420 \renewcommand*\right@footnoterule{%
15421     \kern-3\p@
15422     \kern.5\baselineskip
15423     \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
15424     \kern.4\baselineskip}
15425 \renewcommand*\head@style{%
15426     \interlinepenalty \@M
15427     \hyphenpenalty=\@M \exhyphenpenalty=\@M
15428     \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}

```

## 7.98 refrep-xetex-bidi.def

```

15429 \ProvidesFile{refrep-xetex-bidi.def}[2017/06/09 v0.5 bidi adaptations for refrep class for Xe
15430 \if@titlepage
15431     \renewcommand\maketitle{\begin{titlepage}%
15432         \let\footnotesize\small
15433         \let\right@footnoterule\relax
15434         \let\left@footnoterule\relax
15435         \let\textwidth\footnoterule\relax
15436         \let\footnote\thanks
15437         \let\LTRfootnote\LTRthanks
15438         \let\RTLfootnote\RTLthanks
15439         \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
15440         \def\@makefnmark%
15441             {\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
15442         \long\def\@makefntext##1{%
15443             \@setpar{\@par
15444                 \@tempdima = \hsize
15445                 \advance\@tempdima -1em
15446                 \parshape \@ne 1em \@tempdima}%
15447             \par\parindent 1em \noindent
15448             \hb@xt@\z@{\hss\@textsuperscript{\normalfont\@thefnmark}\,}##1}
15449         \null\vfil
15450         \vskip 60\p@
15451         \begin{center}%
15452             {\LARGE \@title \par}%
15453             \vskip 3em%
15454             {\large
15455                 \lineskip .75em%
15456                 \begin{tabular}[t]{t}{c}%
15457                     \@author
15458                 \end{tabular}\par}%
15459             \vskip 1.5em%

```



```

15460    {\large \@date \par}%          % Set date in \large size.
15461    \end{center}\par
15462    \@thanks
15463    \vfil\null
15464    \end{titlepage}%
15465    \setcounter{footnote}{0}%
15466    \global\let\thanks\relax
15467    \global\let\LTRthanks\relax
15468    \global\let\RTLthanks\relax
15469    \global\let\maketitle\relax
15470    \global\let\@thanks\@empty
15471    \global\let\@author\@empty
15472    \global\let\@date\@empty
15473    \global\let\@title\@empty
15474    \global\let\title\relax
15475    \global\let\author\relax
15476    \global\let\date\relax
15477    \global\let\and\relax
15478    }
15479  \else
15480    \renewcommand\maketitle{\par
15481      \begingroup
15482        \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
15483        \def\@makefnmark%
15484          {\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
15485        \long\def\@makefnmark##1{%
15486          \@setpar{\@par
15487            \@tempdima = \hsize
15488            \advance\@tempdima -1em
15489            \parshape \@ne 1em \@tempdima}%
15490          \par\parindent 1em \noindent
15491          \hb@xt@\z@\{\hss\@textsuperscript{\normalfont\@thefnmark}\},##1}
15492        \if@twocolumn
15493          \ifnum \col@number=\@ne
15494            \@maketitle
15495          \else
15496            \twocolumn[\@maketitle]%
15497          \fi
15498        \else
15499          \newpage
15500          \global\@topnum\z@    % Prevents figures from going at top of page.
15501          \@maketitle
15502        \fi
15503        \thispagestyle{empty}\@thanks
15504      \endgroup
15505      \setcounter{footnote}{0}%
15506      \global\let\thanks\relax
15507      \global\let\LTRthanks\relax
15508      \global\let\RTLthanks\relax
15509      \global\let\maketitle\relax

```



```

15510 \global\let\@maketitle\relax
15511 \global\let\@thanks\@empty
15512 \global\let\@author\@empty
15513 \global\let\@date\@empty
15514 \global\let\@title\@empty
15515 \global\let\title\relax
15516 \global\let\author\relax
15517 \global\let\date\relax
15518 \global\let\and\relax
15519 }
15520 \def\@maketitle{%
15521   \newpage
15522   \null
15523   \longthickrule\vskip1.5em%
15524   \let \footnote \thanks
15525   \let \LTRfootnote \LTRthanks
15526   \let \RTLfootnote \RTLthanks
15527   {\secshape \parskip\z@ \parindent\z@
15528   \Large\bfseries \@title \par}%
15529   \vskip1.5em\longthickrule\vskip1.5em%
15530   {\normalsize
15531     \lineskip .5em%
15532     \begin{flushright}%
15533       {\slshape\@author\par}
15534       \vskip 1em%
15535       {\@date}%
15536     \end{flushright}\par}%
15537   \vskip 1.5em}
15538 \fi
15539 \renewcommand*\l@part[2]{%
15540   \ifnum \c@tocdepth >-2\relax
15541     \addpenalty{-\@highpenalty}%
15542     \addvspace{2.25em \@plus\p@}%
15543     \begingroup
15544       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
15545       \parfillskip -\@pnumwidth
15546       {\leavevmode
15547         \large \bfseries #1\hfil \hbox to\@pnumwidth{\hss #2}}\par
15548       \nobreak
15549       \global\@nobreaktrue
15550       \everypar{\global\@nobreakfalse\everypar{}}%
15551     \endgroup
15552   \fi}
15553 \renewcommand*\l@chapter[2]{%
15554   \ifnum \c@tocdepth >\m@ne
15555     \addpenalty{-\@highpenalty}%
15556     \vskip 1.0em \@plus\p@
15557     \setlength\@tempdima{1.5em}%
15558     \begingroup
15559     \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth

```





```

15560 \parfillskip -\@pnumwidth
15561 \leavevmode \bfseries
15562 \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
15563 \hskip -\if@RTL\rightskip\else\leftskip\fi
15564 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
15565 \penalty\@highpenalty
15566 \endgroup
15567 \fi}
15568 \renewcommand\secshape{\if@RTL\rightskip\else\leftskip\fi=-\leftmarginwidth%
15569 \if@RTL\leftskip\else\rightskip\fi=\@flushglue%
15570 \hyphenpenalty=2000}
15571 \renewcommand\left@footnoterule{%
15572 \kern-3\p@
15573 \hrule\@width.4\columnwidth
15574 \kern 2.6\p@}
15575 \renewcommand\right@footnoterule{%
15576 \kern-3\p@
15577 \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
15578 \kern2.6\p@}
15579 \renewcommand\theequation
15580 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
15581 \renewcommand\thefigure
15582 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
15583 \renewcommand\thetable%
15584 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
15585 \renewcommand\thesection {\thechapter\@SepMark\@arabic\c@section}
15586 \renewcommand\thesubsection {\thesection\@SepMark\@arabic\c@subsection}
15587 \renewcommand\thesubsubsection {\thesubsection \@SepMark\@arabic\c@subsubsection}
15588 \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
15589 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
15590 \renewenvironment{thebibliography}[1]
15591 {\chapter*\bibname
15592 \@mkboth{\bibname}{\bibname}}%
15593 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
15594 \bidi@thebibliography@font@hook%
15595 \list{\@biblabel{\@arabic\c@enumiv}}%
15596 {\settowidth\labelwidth{\@biblabel{#1}}%
15597 \leftmargin\labelwidth
15598 \advance\leftmargin\labelsep
15599 \@openbib@code
15600 \usecounter{enumiv}%
15601 \let\p@enumiv\@empty
15602 \renewcommand\theenumiv{\@arabic\c@enumiv}}%
15603 \sloppy
15604 \clubpenalty4000
15605 \@clubpenalty \clubpenalty
15606 \widowpenalty4000%
15607 \sfcode`\.=\@m}
15608 {\def\@noitemerr
15609 {\@latex@warning{Empty `thebibliography' environment}}%

```



```
15610 \endlist}
```

## 7.99 report-xetex-bidi.def

```
15611 \ProvidesFile{report-xetex-bidi.def}[2017/06/09 v0.8 bidi adaptations for standard report cla
15612 \renewenvironment{theindex}
15613     {\if@twocolumn
15614       \@restonecolfalse
15615       \else
15616       \@restonecoltrue
15617       \fi
15618       \columnseprule \z@
15619       \columnsep 35\p@
15620       \twocolumn[\@makeschapterhead{\indexname}]\%
15621       \@mkboth{\MakeUppercase\indexname}%
15622               {\MakeUppercase\indexname}%
15623       \thispagestyle{plain}\parindent\z@
15624       \parskip\z@ \@plus .3\p@\relax
15625       \let\item\@idxitem}
15626     {\if@restonecol\onecolumn\else\clearpage\fi}
15627 \if@titlepage
15628 \renewcommand\maketitle{\begin{titlepage}%
15629 \let\footnotesize\small
15630 \let\right@footnoterule\relax
15631 \let\left@footnoterule\relax
15632 \let\textwidth\footnoterule\relax
15633 \let \footnote \thanks
15634 \let \LTRfootnote \LTRthanks
15635 \let \RTLfootnote \RTLthanks
15636 \null\vfil
15637 \vskip 60\p@
15638 \begin{center}%
15639   {\LARGE \@title \par}%
15640   \vskip 3em%
15641   {\large
15642     \lineskip .75em%
15643     \begin{tabular}[t]{c}%
15644       \@author
15645     \end{tabular}\par}%
15646     \vskip 1.5em%
15647     {\large \@date \par}%           % Set date in \large size.
15648 \end{center}\par
15649 \@thanks
15650 \vfil\null
15651 \end{titlepage}%
15652 \setcounter{footnote}{0}%
15653 \global\let\thanks\relax
15654 \global\let\LTRthanks\relax
15655 \global\let\RTLthanks\relax
15656 \global\let\maketitle\relax
```



```

15657 \global\let\@thanks\@empty
15658 \global\let\@author\@empty
15659 \global\let\@date\@empty
15660 \global\let\@title\@empty
15661 \global\let\title\relax
15662 \global\let\author\relax
15663 \global\let\date\relax
15664 \global\let\and\relax
15665 }
15666 \else
15667 \renewcommand\maketitle{\par
15668 \begin{group}
15669 \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
15670 \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
15671 \long\def\@makefntext##1{\parindent 1em\noindent
15672 \hspace{1.8em}%
15673 \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
15674 \if@twocolumn
15675 \ifnum \col@number=\@ne
15676 \@maketitle
15677 \else
15678 \twocolumn[\@maketitle]%
15679 \fi
15680 \else
15681 \newpage
15682 \global\@topnum\z@ % Prevents figures from going at top of page.
15683 \@maketitle
15684 \fi
15685 \thispagestyle{plain}\@thanks
15686 \end{group}
15687 \setcounter{footnote}{0}%
15688 \global\let\thanks\relax
15689 \global\let\LTRthanks\relax
15690 \global\let\RTLthanks\relax
15691 \global\let\maketitle\relax
15692 \global\let\@maketitle\relax
15693 \global\let\@thanks\@empty
15694 \global\let\@author\@empty
15695 \global\let\@date\@empty
15696 \global\let\@title\@empty
15697 \global\let\title\relax
15698 \global\let\author\relax
15699 \global\let\date\relax
15700 \global\let\and\relax
15701 }
15702 \def\@maketitle{%
15703 \newpage
15704 \null
15705 \vskip 2em%
15706 \begin{center}%

```



```

15707 \let \footnote \thanks
15708 \let \LTRfootnote \LTRthanks
15709 \let \RTLfootnote \RTLthanks
15710 {\LARGE \@title \par}%
15711 \vskip 1.5em%
15712 {\large
15713 \lineskip .5em%
15714 \begin{tabular}[t]{c}%
15715 \@author
15716 \end{tabular}\par}%
15717 \vskip 1em%
15718 {\large \@date}%
15719 \end{center}}%
15720 \par
15721 \vskip 1.5em}
15722 \fi
15723 \renewcommand*\l@part[2]{%
15724 \ifnum \c@tocdepth >-2\relax
15725 \addpenalty{-\@highpenalty}%
15726 \addvspace{2.25em \@plus\p@}%
15727 \setlength\@tempdima{3em}%
15728 \begingroup
15729 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
15730 \parfillskip -\@pnumwidth
15731 {\leavevmode
15732 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
15733 \nobreak
15734 \global\@nobreaktrue
15735 \everypar{\global\@nobreakfalse\everypar{}}%
15736 \endgroup
15737 \fi}
15738 \renewcommand*\l@chapter[2]{%
15739 \ifnum \c@tocdepth >\m@ne
15740 \addpenalty{-\@highpenalty}%
15741 \vskip 1.0em \@plus\p@
15742 \setlength\@tempdima{1.5em}%
15743 \begingroup
15744 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
15745 \parfillskip -\@pnumwidth
15746 \leavevmode \bfseries
15747 \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
15748 \hskip -\if@RTL\rightskip\else\leftskip\fi
15749 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
15750 \penalty\@highpenalty
15751 \endgroup
15752 \fi}
15753 \renewcommand\left@footnoterule{%
15754 \kern-3\p@
15755 \hrule\@width.4\columnwidth
15756 \kern2.6\p@}

```



```

15757 \renewcommand\right@footnoterule{%
15758   \kern-3\p@
15759   \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
15760   \kern2.6\p@}
15761 \renewcommand\theequation
15762   {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
15763 \renewcommand \thefigure
15764   {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
15765 \renewcommand \thetable
15766   {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
15767 \renewcommand \thechapter {\@arabic\c@chapter}
15768 \renewcommand \thesection {\thechapter\@SepMark\@arabic\c@section}
15769 \renewcommand \thesubsection {\thesection\@SepMark\@arabic\c@subsection}
15770 \renewcommand \thesubsubsection {\thesubsection \@SepMark\@arabic\c@subsubsection}
15771 \renewcommand \theparagraph {\thesubsubsection \@SepMark\@arabic\c@paragraph}
15772 \renewcommand \thesubparagraph {\theparagraph \@SepMark\@arabic\c@subparagraph}
15773 \def\@makechapterhead#1{%
15774   \vspace*{50\p@}%
15775   {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont
15776     \ifnum \c@secnumdepth >\m@ne
15777       \huge\bfseries \@chapapp\space \thechapter
15778       \par\nobreak
15779       \vskip 20\p@
15780     \fi
15781     \interlinepenalty\@M
15782     \Huge \bfseries #1\par\nobreak
15783     \vskip 40\p@
15784   }}
15785 \def\@makeschapterhead#1{%
15786   \vspace*{50\p@}%
15787   {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
15788     \normalfont
15789     \interlinepenalty\@M
15790     \Huge \bfseries #1\par\nobreak
15791     \vskip 40\p@
15792   }}
15793 \renewenvironment{thebibliography}[1]
15794   {\chapter*{\bibname}%
15795     \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
15796     \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
15797     \bidi@thebibliography@font@hook%
15798     \list{\@biblabel{\@arabic\c@enumiv}}%
15799       {\settowidth\labelwidth{\@biblabel{#1}}%
15800        \leftmargin\labelwidth
15801        \advance\leftmargin\labelsep
15802        \@openbib@code
15803        \usecounter{enumiv}%
15804        \let\p@enumiv\@empty
15805        \renewcommand\theenumiv{\@arabic\c@enumiv}}%
15806     \sloppy

```



```

15807 \clubpenalty4000
15808 \@clubpenalty \clubpenalty
15809 \widowpenalty4000%
15810 \sfcode`\.\@m}
15811 {\def\@noitemerr
15812 {\@latex@warning{Empty `thebibliography' environment}}}%
15813 \endlist}

```

## 7.100 rotating-xetex-bidi.def

```

15814 \ProvidesFile{rotating-xetex-bidi.def}[2013/05/22 v0.2 bidi adaptations for rotating package]
15815 \def\end@rotfloat{%
15816 \end{minipage}\end{lrbox}%
15817 \stepcounter{r@tfl@t}%
15818 \rot@label{RF\ther@tfl@t}%
15819 \rot@pageref{RF\ther@tfl@t}{\R@@page}%
15820 \edef\@tempa{Adding sideways \c@type\space on page \R@@page\space}
15821 \rot@mess@toks\expandafter{\@tempa}
15822 \wd\rot@float@box\z@
15823 \ht\rot@float@box\z@
15824 \dp\rot@float@box\z@
15825 \vboxL to \textheight{%
15826 \setkeys{Grot}{units=360}%
15827 \if@rot@twoside
15828 \else
15829 \let\R@@page\rot@LR
15830 \fi
15831 \ifthenelse{\isodd{\R@@page}}{%
15832 \if@rot@twoside
15833 \rot@mess@toks\expandafter{\the\rot@mess@toks (right hand page)}}%
15834 \fi
15835 \vfill
15836 \@@line{%
15837 \hskip\rotFPtop
15838 \rotatebox{90}{\box\rot@float@box}%
15839 \hskip\rotFPbot
15840 }%
15841 }{%
15842 \if@rot@twoside
15843 \rot@mess@toks\expandafter{\the\rot@mess@toks (left hand page)}}%
15844 \fi
15845 \@@line{%
15846 \hskip\rotFPbot
15847 \rotatebox{-90}{\box\rot@float@box}%
15848 \hskip\rotFPtop
15849 }%
15850 \vfill
15851 }%
15852 \rot@message{\the\rot@mess@toks}
15853 }%

```



```

15854 \end@float
15855 }
15856 \let\endsidewaysfigure\end@rotfloat
15857 \let\endsidewaysstable\end@rotfloat
15858 \def\end@rotdblfloat{%
15859 \end{minipage}\end{lrbox}%
15860 \stepcounter{r@tfl@t}%
15861 \rot@label{RF\ther@tfl@t}%
15862 \rot@pageref{RF\ther@tfl@t}{\R@@page}%
15863 \edef\@tempa{Adding sideways \capttype\space on page \R@@page\space}
15864 \rot@mess@toks\expandafter{\@tempa}
15865 \@tempdima\ht\rot@float@box
15866 \advance\@tempdima by \dp\rot@float@box
15867 \wd\rot@float@box\z@
15868 \ht\rot@float@box\z@
15869 \dp\rot@float@box\z@
15870 \vboxL to \textheight{%
15871 \setkeys{Grot}{units=360}%
15872 \if@rot@twoside
15873 \else
15874 \let\R@@page\rot@LR
15875 \fi
15876 \ifthenelse{\isodd{\R@@page}}{%
15877 \ifrot@messages
15878 \if@rot@twoside
15879 \rot@mess@toks\expandafter{\the\rot@mess@toks (right hand page)}%
15880 \fi
15881 \fi
15882 \vfill
15883 \@@line{%
15884 \hskip\rotFPtop
15885 \rotatebox{90}{\box\rot@float@box}%
15886 \hskip\rotFPbot
15887 }%
15888 }{%
15889 \ifrot@messages
15890 \if@rot@twoside
15891 \rot@mess@toks\expandafter{\the\rot@mess@toks (left hand page)}%
15892 \fi
15893 \fi%
15894 \@@line{%
15895 \hskip\rotFPbot
15896 \rotatebox{-90}{\box\rot@float@box}%
15897 \hskip\rotFPtop
15898 }%
15899 \vfill
15900 }%
15901 \rot@message{\the\rot@mess@toks}%
15902 }%
15903 \end@dblfloat

```



```

15904 }
15905 \def\turn#1{%
15906   \Grot@setangle{#1}%
15907   \setbox\z@\color@hbox\ifmmode\if@RTL\beginR\fi\else\if@RTL\beginR\fi\fi\ignorespaces}
15908 \def\endturn{%
15909   \ifmmode\if@RTL\endR\fi\else\if@RTL\endR\fi\fi
15910   \unskip\color@endbox
15911   \Grot@x\z@
15912   \Grot@y\z@
15913   \ifmmode\else\if@RTL\beginL\fi\fi\Grot@box\ifmmode\else\if@RTL\endL\fi\fi
15914 }
15915 \def\rotate#1{%
15916   \Grot@setangle{#1}%
15917   \setbox\z@\color@hbox\ifmmode\if@RTL\beginR\fi\else\if@RTL\beginR\fi\fi\ignorespaces}
15918 \def\endrotate{%
15919   \ifmmode\if@RTL\endR\fi\else\if@RTL\endR\fi\fi
15920   \unskip\color@endbox
15921   \Grot@x\z@
15922   \Grot@y\z@
15923   \wd0\z@\dp0\z@\ht0\z@
15924   \ifmmode\else\if@RTL\beginL\fi\fi\Grot@box\ifmmode\else\if@RTL\endL\fi\fi
15925 }
15926 \def\turnbox#1#2{%
15927   \Grot@setangle{#1}%
15928   \setbox\z@\hbox{{\ifmmode\if@RTL\beginR\fi\else\if@RTL\beginR\fi\fi#2\ifmmode\if@RTL\endR\fi\fi}}
15929   \Grot@x\z@\Grot@y\z@
15930   \wd0\z@\dp0\z@\ht0\z@
15931   \ifmmode\else\if@RTL\beginL\fi\fi\Grot@box\ifmmode\else\if@RTL\endL\fi\fi
15932 }
15933 \def\sideways{%
15934   \Grot@setangle{90}%
15935   \setbox\z@\color@hbox\ifmmode\if@RTL\beginR\fi\else\if@RTL\beginR\fi\fi\ignorespaces}
15936 \def\endsideways{%
15937   \ifmmode\if@RTL\endR\fi\else\if@RTL\endR\fi\fi
15938   \unskip\color@endbox
15939   \Grot@x\z@
15940   \Grot@y\z@
15941   \ifmmode\else\if@RTL\beginL\fi\fi\Grot@box\ifmmode\else\if@RTL\endL\fi\fi
15942 }

```

## 7.101 scrartcl-xetex-bidi.def

```

15943 \ProvidesFile{scrartcl-xetex-bidi.def}[2017/06/09 v1.1 bidi adaptations for scrartcl class for xetex]
15944 \newcommand{\scr@saved@LTRfootnotetext}{}
15945 \newcommand{\scr@saved@RTLfootnotetext}{}
15946 \let\scr@saved@footnotetext\@footnotetext
15947 \let\scr@saved@LTRfootnotetext\@LTRfootnotetext
15948 \let\scr@saved@RTLfootnotetext\@RTLfootnotetext
15949 \renewcommand{\@footnotetext}[1]{%
15950   \scr@saved@footnotetext{#1}%

```





```

15951 \csname FN@mf@prepare\endcsname
15952 }
15953 \renewcommand{\@LTRfootnotetext}[1]{%
15954 \scr@saved@LTRfootnotetext{#1}%
15955 \csname FN@mf@prepare\endcsname
15956 }
15957 \renewcommand{\@RTLfootnotetext}[1]{%
15958 \scr@saved@RTLfootnotetext{#1}%
15959 \csname FN@mf@prepare\endcsname
15960 }
15961 \renewcommand\deffootnote[4][1]{%
15962 \long\def\@makefnmark##1{%
15963 \setlength{\@tempdimc}{#3}%
15964 \def\@tempa{#1}\ifx\@tempa\@empty
15965 \setpar{\@par
15966 \@tempdima = \hsize
15967 \addtolength{\@tempdima}{-#2}%
15968 \if@RTL\parshape \@ne Opt \@tempdima\else\parshape \@ne #2 \@tempdima\fi}%
15969 \else
15970 \addtolength{\@tempdimc}{#2}%
15971 \addtolength{\@tempdimc}{-#1}%
15972 \setpar{\@par
15973 \@tempdima = \hsize
15974 \addtolength{\@tempdima}{-#1}%
15975 \@tempdimb = \hsize
15976 \addtolength{\@tempdimb}{-#2}%
15977 \if@RTL\parshape \tw@ Opt \@tempdima Opt \@tempdimb\else\parshape \tw@ #1 \@tempdima
15978 }%
15979 \fi
15980 \par
15981 \parindent\@tempdimc\noindent
15982 \ftn@font\hbox to \z@{\hss\@makefnmark}##1%
15983 }%
15984 \def\@makefnmark{\hbox{\ftnm@font{#4}}}%
15985 }
15986 \deffootnote[1em]{1.5em}{1em}{\textsuperscript{\thefootnotemark}}
15987 \renewcommand*\left@footnoterule{%
15988 \normalsize\ftn@rule@test@values
15989 \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
15990 \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
15991 {\usekomafont{footnoterule}{%
15992 \hrule \@height\ftn@rule@height \@width\ftn@rule@width}}%
15993 \kern 2.6\p@}
15994 \renewcommand*\right@footnoterule{%
15995 \normalsize\ftn@rule@test@values
15996 \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
15997 \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
15998 {\usekomafont{footnoterule}{%
15999 \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\ftn@rule@width\relax \leavevmode\le
16000 \kern 2.6\p@}

```



```

16001 \renewcommand*\maketitle[1][1]{%
16002   \if@titlepage
16003     \begin{titlepage}
16004       \setcounter{page}{%
16005         #1%
16006       }%
16007       \let\footnotesize\small
16008       \let\right@footnoterule\relax
16009       \let\left@footnoterule\relax
16010       \let\textwidth@footnoterule\relax
16011       \let\footnote\thanks
16012       \let\LTRfootnote\LTRthanks
16013       \let\RTLfootnote\RTLthanks
16014       \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
16015       \let\@oldmakefnmark\@makefnmark
16016       \renewcommand*\@makefnmark{\rlap\@oldmakefnmark}%
16017       \ifx\@extratitle\@empty \else
16018         \noindent\@extratitle\next@tpage\cleardoubleemptypage
16019         \thispagestyle{empty}%
16020       \fi
16021       \setparsizes{\z@}{\z@}{\z@\@plus 1fil}\par@updaterelative
16022       \ifx\@titlehead\@empty \else
16023         \begin{minipage}[t]{\textwidth}%
16024           \@titlehead
16025         \end{minipage}\par
16026       \fi
16027       \null\vfill
16028       \begin{center}
16029         \ifx\@subject\@empty \else
16030           {\subject@font \@subject \par}%
16031           \vskip 3em
16032         \fi
16033         {\titlefont\huge \@title\par}%
16034         \vskip 1em
16035         {\ifx\@subtitle\@empty\else\usekomafont{subtitle}\@subtitle\par\fi}%
16036         \vskip 2em
16037         {\Large \lineskip 0.75em
16038           \begin{tabular}[t]{c}
16039             \@author
16040           \end{tabular}\par
16041         }%
16042         \vskip 1.5em
16043         {\Large \@date \par}%
16044         \vskip \z@ \@plus3fill
16045         {\Large \@publishers \par}%
16046         \vskip 3em
16047       \end{center}\par
16048       \@thanks
16049       \vfill\null
16050     \if@twoside\next@tpage

```



```

16051     \begin{minipage}[t]{\textwidth}
16052         \@uppertitleback
16053     \end{minipage}\par
16054     \vfill
16055     \begin{minipage}[b]{\textwidth}
16056         \@lowertitleback
16057     \end{minipage}
16058 \fi
16059 \ifx\@dedication\@empty \else
16060     \next@tpage\null\vfill
16061     {\centering \Large \@dedication \par}%
16062     \vskip \z@ \@plus3fill
16063     \if@twoside \next@tpage\cleardoubleemptypage \fi
16064 \fi
16065 \end{titlepage}
16066 \else
16067     \par
16068     \@tempcnta=%
16069     #1%
16070     \relax\ifnum\@tempcnta=1\else
16071         \ClassWarning{\KOMAClassName}{%
16072             Optional argument of \string\maketitle\space ignored
16073             at\MessageBreak
16074             notitlepage-mode%
16075         }%
16076     \fi
16077     \begingroup
16078         \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
16079         \let\@oldmakefnmark\@makefnmark
16080         \renewcommand*{\@makefnmark}{\rlap\@oldmakefnmark}
16081         \if@twocolumn
16082             \ifnum \col@number=\@ne
16083                 \@maketitle
16084             \else
16085                 \twocolumn[\@maketitle]%
16086             \fi
16087         \else
16088             \newpage
16089             \global\@topnum\z@
16090             \@maketitle
16091         \fi
16092         \thispagestyle{\titlepagestyle}\@thanks
16093     \endgroup
16094 \fi
16095 \setcounter{footnote}{0}%
16096 \let\thanks\relax
16097 \let\LTRthanks\relax
16098 \let\RTLthanks\relax
16099 \let\maketitle\relax
16100 \let\@maketitle\relax

```



```

16101 \global\let\@thanks\@empty
16102 \global\let\@author\@empty
16103 \global\let\@date\@empty
16104 \global\let\@title\@empty
16105 \global\let\@subtitle\@empty
16106 \global\let\@extratitle\@empty
16107 \global\let\@titlehead\@empty
16108 \global\let\@subject\@empty
16109 \global\let\@publishers\@empty
16110 \global\let\@uppertitleback\@empty
16111 \global\let\@lowertitleback\@empty
16112 \global\let\@dedication\@empty
16113 \global\let\author\relax
16114 \global\let\title\relax
16115 \global\let\extratitle\relax
16116 \global\let\titlehead\relax
16117 \global\let\subject\relax
16118 \global\let\publishers\relax
16119 \global\let\uppertitleback\relax
16120 \global\let\lowertitleback\relax
16121 \global\let\dedication\relax
16122 \global\let\date\relax
16123 \global\let\and\relax
16124 }%
16125 \renewcommand*{\@maketitle}{%
16126   \clearpage
16127   \let\footnote\thanks
16128   \let\LTRfootnote\LTRthanks
16129   \let\RTLfootnote\RTLthanks
16130   \ifx\@extratitle\@empty \else
16131     \noindent\@extratitle \next@tpage \if@twoside \null\next@tpage \fi
16132   \fi
16133   \setparsizes{\z@}{\z@}{\z@\@plus 1fil}\par@updaterelative
16134   \ifx\@titlehead\@empty \else
16135     \begin{minipage}[t]{\textwidth}
16136       \@titlehead
16137     \end{minipage}\par
16138   \fi
16139   \null
16140   \vskip 2em%
16141   \begin{center}%
16142     \ifx\@subject\@empty \else
16143       {\subject@font \@subject \par}
16144       \vskip 1.5em
16145     \fi
16146     {\titlefont\huge \@title \par}%
16147     \vskip .5em
16148     {\ifx\@subtitle\@empty\else\usekomafont{subtitle}\@subtitle\par\fi}%
16149     \vskip 1em
16150     {\Large

```



```

16151     \lineskip .5em%
16152     \begin{tabular}[t]{c}
16153         \@author
16154     \end{tabular}\par
16155 }%
16156 \vskip 1em%
16157 {\Large \@date \par}%
16158 \vskip \z@ \@plus 1em
16159 {\Large \@publishers \par}
16160 \ifx\@dedication\@empty \else
16161     \vskip 2em
16162     {\Large \@dedication \par}
16163 \fi
16164 \end{center}%
16165 \par
16166 \vskip 2em
16167 }%
16168 \def\raggedsection{\if@RTL\raggedleft\else\raggedright\fi}
16169 \def\raggedpart{\if@RTL\raggedleft\else\raggedright\fi}
16170 \renewcommand*\autodot{\if@altsecnumformat\@SepMark\fi}
16171 \renewcommand*{\thesubsection}{\thesection\@SepMark\@arabic\c@section}
16172 \renewcommand*{\thesubsubsection}{%
16173     \thesubsection\@SepMark\@arabic\c@subsubsection
16174 }
16175 \renewcommand*{\theparagraph}{\thesubsubsection\@SepMark\@arabic\c@paragraph}
16176 \renewcommand*{\thesubparagraph}{%
16177     \theparagraph\@SepMark\@arabic\c@subparagraph
16178 }
16179 \renewenvironment{thebibliography}[1]{%
16180     \if@bib@break@
16181         \bib@beginhook
16182     \else
16183         \bib@heading
16184         \ifx\bibpreamble\relax\else\ifx\bibpreamble\@empty\else
16185             \noindent\bibpreamble\par\nobreak
16186         \fi\fi
16187         \bib@beginhook
16188         \bib@before@hook
16189     \fi
16190     \renewcommand{\BreakBibliography}[1]{%
16191         \@bib@break
16192         \end{thebibliography}%
16193         \begingroup ##1\endgroup
16194         \begin{thebibliography}{#1}
16195     }%
16196     \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
16197     \bidi@thebibliography@font@hook%
16198     \list{%
16199         \@biblabel{\@arabic\c@enumiv}%
16200     }{%

```



```

16201 \settowidth\labelwidth{\@biblabel{#1}}%
16202 \leftmargin\labelwidth
16203 \advance\leftmargin\labelsep
16204 \@openbib@code
16205 \if@bib@break@
16206 \edef\@tempa{%
16207 \noexpand\usecounter{enumiv}%
16208 \noexpand\setcounter{enumiv}{\the\c@enumiv}%
16209 }\@tempa
16210 \no@bib@break
16211 \else
16212 \usecounter{enumiv}%
16213 \fi
16214 \let\p@enumiv\@empty
16215 \renewcommand*\theenumiv{\@arabic\c@enumiv}%
16216 }%
16217 \sloppy\clubpenalty4000 \widowpenalty4000
16218 \sfcode\.\@m
16219 }{%
16220 \if@bib@break@
16221 \def\@noitemerr{%
16222 \@latex@warning{%
16223 \string\BreakBibliography\space at begin of `thebibliography'
16224 environment\MessageBreak
16225 or following \string\BreakBibliography}%
16226 }%
16227 \else
16228 \def\@noitemerr{%
16229 \@latex@warning{%
16230 Empty `thebibliography' environment or
16231 \string\BreakBibliography\MessageBreak
16232 before end of `thebibliography' environment}%
16233 }%
16234 \fi
16235 \endlist
16236 \if@bib@break@
16237 \else
16238 \bib@after@hook
16239 \let\bib@before@hook\@empty
16240 \let\bib@after@hook\@empty
16241 \fi
16242 \bib@endhook
16243 }
16244 \renewcommand*\left@footnoterule{%
16245 \kern-3\p@
16246 \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
16247 \hrule\@width.4\columnwidth
16248 \kern 2.6\p@}
16249 \renewcommand*\right@footnoterule{%
16250 \kern-3\p@

```



```

16251 \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
16252 \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
16253 \kern2.6\p@}
16254 \renewcommand*{\raggeddictum}{\if@RTL\raggedright\else\raggedleft\fi}
16255 \renewcommand*{\raggeddictumtext}{\if@RTL\raggedleft\else\raggedright\fi}
16256 \renewcommand*{\raggeddictumauthor}{\if@RTL\raggedright\else\raggedleft\fi}
16257 \renewcommand\marginline[1]{%
16258 \marginpar[\if@RTL\raggedright\else\raggedleft\fi{#1}]{\if@RTL\raggedleft\else\raggedright\fi}
16259 }
16260 \renewcommand{\@makecaption}[3]{%
16261 \cap@margin
16262 \ifonelinecaptions
16263 \@tempcnta=\value{mpfootnote}\@tempcntb=\value{footnote}%
16264 \let\scr@tmp@footnotetext=\@footnotetext
16265 \let\@footnotetext=\@gobble
16266 \let\scr@tmp@LTRfootnotetext=\@LTRfootnotetext
16267 \let\@LTRfootnotetext=\@gobble
16268 \let\scr@tmp@RTLfootnotetext=\@RTLfootnotetext
16269 \let\@RTLfootnotetext=\@gobble
16270 \sbox\@tempboxa{%
16271 {\capfont{\strut\ignorespaces
16272 #1{\caplabelfont{#2\captionformat}}}%
16273 #3\unskip\strut}}%
16274 }%
16275 \let\@footnotetext=\scr@tmp@footnotetext
16276 \let\scr@tmp@footnotetext=\undefined
16277 \let\@LTRfootnotetext=\scr@tmp@LTRfootnotetext
16278 \let\scr@tmp@LTRfootnotetext=\undefined
16279 \let\@RTLfootnotetext=\scr@tmp@RTLfootnotetext
16280 \let\scr@tmp@RTLfootnotetext=\undefined
16281 \setcounter{footnote}{\@tempcntb}%
16282 \setcounter{mpfootnote}{\@tempcnta}%
16283 \else
16284 \sbox\@tempboxa{\hspace*{2\cap@width}}%
16285 \fi
16286 \begingroup%
16287 \setlength{\@tempdima}{\cap@width}%
16288 \ifdim \wd\@tempboxa >\@tempdima
16289 \hb@xt@\hsize{%
16290 \setbox\@tempboxa\vbox{\hsize=\cap@width
16291 \ifdofullc@p
16292 {\capfont{\@hangfrom{\scr@smashdp{\strut\ignorespaces
16293 #1{\caplabelfont{#2\captionformat}}}}}%
16294 {\#3\unskip\strut\par}}}%
16295 \else%
16296 \ifdim\cap@indent<\z@
16297 {\capfont{\strut\ignorespaces
16298 #1{\caplabelfont{#2\captionformat\par}}}%
16299 \noindent\hspace*{-\cap@indent}\#3\unskip\strut\par}}%
16300 \else%

```



```

16301         \if@capbreak
16302             {\capfont{\strut\ignorespaces
16303                 #1{\caplabelfont{#2\captionformat\par}}}%
16304                 \noindent\hangfrom{\hspace*{\cap@indent}}{#3\par}}}%
16305         \else
16306             {\capfont{\@hangfrom{\scr@smashdp\strut\hspace*{\cap@indent}}%
16307                 {\hspace{-\cap@indent}\scr@smashdp{\ignorespaces#1%
16308                 {\caplabelfont{#2\captionformat}}}}#3\unskip\strut\par}}}%
16309         \fi
16310     \fi
16311 \fi
16312 }%
16313 \setlength{\@tempdima}{\ht\@tempboxa}%
16314 \addtolength{\@tempdima}{\dp\@tempboxa}%
16315 \addtolength{\@tempdima}{-\ht\strutbox}%
16316 \ht\@tempboxa\ht\strutbox
16317 \dp\@tempboxa\@tempdima
16318 \strut\cap@left
16319 \box\@tempboxa
16320 \cap@right\strut
16321 }%
16322 \else
16323     \global \@minipagefalse
16324     \sbox\@tempboxa{%
16325         {\capfont{\scr@smashdp{\strut\ignorespaces
16326             #1{\caplabelfont{#2\captionformat}}}}}%
16327         #3}%
16328     }%
16329     {\capfont{\hb@xt@\hsize{\strut\cap@left\if@RTL\beginR\fi\box\@tempboxa\if@RTL\endR\fi\c
16330 \fi
16331 \endgroup
16332 }
16333 \renewcommand{\@makecaption}[2]{%
16334     \if@captionabove
16335         \vskip\belowcaptionskip
16336     \else
16337         \vskip\abovecaptionskip
16338     \fi
16339     \@makecaption\@firstofone{#1}{#2}%
16340     \if@captionabove
16341         \vskip\abovecaptionskip
16342     \else
16343         \vskip\belowcaptionskip
16344     \fi
16345 }
16346 \bidi@AfterFile{longtable-xetex-bidi.def}{%
16347     \@ifpackageloaded{caption2}{\@komalongtablefalse
16348         \scr@caption@before@longtable@warning{caption2}%
16349     }{}%
16350     \if@komalongtable

```





```

16351 \renewcommand{\LT@makecaption}[3]{%
16352 \noalign{%
16353 \if@captionabove
16354 \vskip\belowcaptionskip
16355 \else
16356 \vskip\abovecaptionskip
16357 \fi
16358 }%
16359 \LT@mcol\LT@cols c{%
16360 \hbox to\z@{\hss\parbox[t]{linewidth{%
16361 \@@makecaption{#1}{#2}{#3}%
16362 \endgraf
16363 \if@captionabove
16364 \vskip\abovecaptionskip
16365 \else
16366 \vskip\belowcaptionskip
16367 \fi
16368 }%
16369 \hss
16370 }%
16371 }%
16372 }%
16373 \renewcommand*{\scr@LT@array}{}%
16374 \let\scr@LT@array=\LT@array
16375 \renewcommand*{\LT@array}{%
16376 \let\scr@caption=\LT@caption
16377 \def\captionabove{\noalign{\global\@captionabovetrue}%
16378 \scr@caption}%
16379 \def\captionbelow{\noalign{\global\@captionabovetrue}%
16380 \scr@caption}%
16381 \if@tablecaptionabove
16382 \let\LT@caption=\captionabove
16383 \else
16384 \let\LT@caption=\captionbelow
16385 \fi
16386 \scr@LT@array
16387 }%
16388 \ClassInfo{\KOMAClassName}{%
16389 longtable captions redefined%
16390 }%
16391 \fi
16392 }
16393
16394 \CloneTOCEntryStyle{tocline}{part}
16395 \TOCEntryStyleStartInitCode{part}{%
16396 \expandafter\renewcommand%
16397 \csname scr@tso@#1@linefill\endcsname{\hfill}%
16398 \expandafter\renewcommand%
16399 \csname scr@tso@#1@entryformat\endcsname[1]{\usekomafont{partentry}{##1}}%
16400 \expandafter\renewcommand%

```



```

16401 \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
16402   \usekomafont{partentry}{\usekomafont{partentrypagenumber}{##1}}}%
16403   \expandafter\renewcommand\expandafter*%
16404   \csname scr@tso@#1@beforeskip\endcsname{2.25em \@plus\p@}%
16405 }
16406
16407 \CloneTOCEntryStyle{tocline}{section}
16408 \TOCEntryStyleStartInitCode{section}{%
16409   \expandafter\renewcommand%
16410   \csname scr@tso@#1@linefill\endcsname{%
16411     \if@sectionentrywithdots
16412       \TOCLineLeaderFill\relax
16413     \else
16414       \hfill
16415     \fi
16416   }%
16417   % F^fcr die Eintr^e4ge die Schrift von Element sectionentry verwenden.
16418   \expandafter\renewcommand%
16419   \csname scr@tso@#1@entryformat\endcsname{\usekomafont{sectionentry}}%
16420   \expandafter\renewcommand%
16421   \csname scr@tso@#1@pagenumberformat\endcsname[1]{\usekomafont{sectionentry}{\usekomafont{se
16422   \expandafter\renewcommand\expandafter*%
16423   \csname scr@tso@#1@beforeskip\endcsname{1.0em \@plus\p@}%
16424 }
16425
16426 \CloneTOCEntryStyle{tocline}{subsection}
16427 \TOCEntryStyleStartInitCode{subsection}{%
16428   \expandafter\renewcommand%
16429   \csname scr@tso@#1@linefill\endcsname{\TOCLineLeaderFill\relax}%
16430 }
16431
16432 \CloneTOCEntryStyle{subsection}{default}
16433
16434 \DeclareSectionCommand[%
16435   style=part,%
16436   level=\z@,%
16437   tocstyle=part,%
16438   toplevel=\m@ne,%
16439   tocindent=\z@,%
16440   tocnumwidth=2em%
16441 ]{part}
16442 \DeclareSectionCommand[%
16443   style=section,%
16444   level=1,%
16445   indent=\z@,%
16446   beforeskip=-3.5ex \@plus -1ex \@minus -.2ex,%
16447   afterskip=2.3ex \@plus.2ex,%
16448   tocstyle=section,%
16449   tocindent=0pt,%
16450   tocnumwidth=1.5em%

```



```

16451 ]{section}
16452 \DeclareSectionCommand[%
16453   style=section,%
16454   level=2,%
16455   indent=\z@,%
16456   beforeskip=-3.25ex\@plus -1ex \@minus -.2ex,%
16457   afterskip=1.5ex \@plus .2ex,%
16458   tocstyle=subsection,%
16459   tocindent=1.5em,%
16460   tocnumwidth=2.3em%
16461 ]{subsection}
16462 \DeclareSectionCommand[%
16463   style=section,%
16464   level=3,%
16465   indent=\z@,%
16466   beforeskip=-3.25ex\@plus -1ex \@minus -.2ex,%
16467   afterskip=1.5ex \@plus .2ex,%
16468   tocstyle=subsection,%
16469   tocindent=3.8em,%
16470   tocnumwidth=3.2em%
16471 ]{subsubsection}
16472 \DeclareSectionCommand[%
16473   style=section,%
16474   level=4,%
16475   indent=\z@,%
16476   beforeskip=3.25ex \@plus 1ex \@minus .2ex,%
16477   afterskip=-1em,%
16478   tocstyle=subsection,%
16479   tocindent=7.0em,%
16480   tocnumwidth=4.1em%
16481 ]{paragraph}
16482 \DeclareSectionCommand[%
16483   style=section,%
16484   level=5,%
16485   indent=\scr@parindent,%
16486   beforeskip=3.25ex \@plus 1ex \@minus .2ex,%
16487   afterskip=-1em,%
16488   tocstyle=subsection,%
16489   tocindent=10em,%
16490   tocnumwidth=5em%
16491 ]{subparagraph}

```

## 7.102 scrbook-xetex-bidi.def

```

16492 \ProvidesFile{scrbook-xetex-bidi.def}[2017/06/09 v1.1 bidi adaptations for scrbook class for
16493 \newcommand{\scr@saved@LTRfootnotetext}{}
16494 \newcommand{\scr@saved@RTLfootnotetext}{}
16495 \let\scr@saved@footnotetext\@footnotetext
16496 \let\scr@saved@LTRfootnotetext\@LTRfootnotetext
16497 \let\scr@saved@RTLfootnotetext\@RTLfootnotetext

```



```

16498 \renewcommand{\@footnotetext}[1]{%
16499   \scr@saved@footnotetext{#1}%
16500   \csname FN@mf@prepare\endcsname
16501 }
16502 \renewcommand{\@LTRfootnotetext}[1]{%
16503   \scr@saved@LTRfootnotetext{#1}%
16504   \csname FN@mf@prepare\endcsname
16505 }
16506 \renewcommand{\@RTLfootnotetext}[1]{%
16507   \scr@saved@RTLfootnotetext{#1}%
16508   \csname FN@mf@prepare\endcsname
16509 }
16510 \renewcommand\deffootnote[4][1]{%
16511   \long\def\@makefnmark##1{%
16512     \setlength{\@tempdimc}{#3}%
16513     \def\@tempa{#1}\ifx\@tempa\@empty
16514       \setpar{\@par
16515         \@tempdima = \hsize
16516         \addtolength{\@tempdima}{-#2}%
16517         \ifRTL\parshape \@ne Opt \@tempdima\else\parshape \@ne #2 \@tempdima\fi}%
16518     \else
16519       \addtolength{\@tempdimc}{#2}%
16520       \addtolength{\@tempdimc}{-#1}%
16521       \setpar{\@par
16522         \@tempdima = \hsize
16523         \addtolength{\@tempdima}{-#1}%
16524         \@tempdimb = \hsize
16525         \addtolength{\@tempdimb}{-#2}%
16526         \ifRTL\parshape \tw@ Opt \@tempdima Opt \@tempdimb\else\parshape \tw@ #1 \@tempdima
16527       }%
16528     \fi
16529     \par
16530     \parindent\@tempdimc\noindent
16531     \ftn@font\hbox to \z@{\hss\@makefnmark}##1%
16532   }%
16533   \def\@makefnmark{\hbox{\ftn@font{#4}}}%
16534 }
16535 \deffootnote[1em]{1.5em}{1em}{\textsuperscript{\thefootnotemark}}
16536 \renewcommand*\left@footnoterule{%
16537   \normalsize\ftn@rule@test@values
16538   \kern-\dimexpr 2.6\p+ \ftn@rule@height\relax
16539   \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
16540   {\usekomafont{footnoterule}{%
16541     \hrule \@height\ftn@rule@height \@width\ftn@rule@width}}%
16542   \kern 2.6\p@}
16543 \renewcommand*\right@footnoterule{%
16544   \normalsize\ftn@rule@test@values
16545   \kern-\dimexpr 2.6\p+ \ftn@rule@height\relax
16546   \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
16547   {\usekomafont{footnoterule}{%

```



```

16548     \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\ftn@rule@width\relax \leavevmode\le
16549     \kern 2.6\p@}
16550 \renewcommand*\maketitle[1][1]{%
16551   \if@titlepage
16552     \begin{titlepage}
16553       \setcounter{page}{%
16554         #1%
16555       }%
16556       \let\footnotesize\small
16557       \let\right@footnoterule\relax
16558       \let\left@footnoterule\relax
16559       \let\textwidth@footnoterule\relax
16560       \let\footnote\thanks
16561       \let\LTRfootnote\LTRthanks
16562       \let\RTLfootnote\RTLthanks
16563       \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
16564       \let\@oldmakefnmark\@makefnmark
16565       \renewcommand*{\@makefnmark}{\rlap{\@oldmakefnmark}}%
16566       \ifx\@extratitle\@empty \else
16567         \noindent\@extratitle\next@tpage\cleardoubleemptypage
16568         \thispagestyle{empty}%
16569       \fi
16570       \setparsizes{\z@}{\z@}{\z@\@plus 1fil}\par@updaterelative
16571       \ifx\@titlehead\@empty \else
16572         \begin{minipage}[t]{\textwidth}%
16573           \@titlehead
16574         \end{minipage}\par
16575       \fi
16576       \null\vfill
16577       \begin{center}
16578         \ifx\@subject\@empty \else
16579           {\subject@font \@subject \par}%
16580           \vskip 3em
16581         \fi
16582         {\titlefont\huge \@title\par}%
16583         \vskip 1em
16584         {\ifx\@subtitle\@empty\else\usekomafont{subtitle}\@subtitle\par\fi}%
16585         \vskip 2em
16586         {\Large \lineskip 0.75em
16587           \begin{tabular}[t]{c}
16588             \@author
16589           \end{tabular}\par
16590         }%
16591         \vskip 1.5em
16592         {\Large \@date \par}%
16593         \vskip \z@ \@plus3fill
16594         {\Large \@publishers \par}%
16595         \vskip 3em
16596       \end{center}\par
16597       \@thanks

```



```

16598 \vfill\null
16599 \if@twoside\next@tpage
16600 \begin{minipage}[t]{\textwidth}
16601 \@uppertitleback
16602 \end{minipage}\par
16603 \vfill
16604 \begin{minipage}[b]{\textwidth}
16605 \@lowertitleback
16606 \end{minipage}
16607 \fi
16608 \ifx\@dedication\@empty \else
16609 \next@tpage\null\vfill
16610 {\centering \Large \@dedication \par}%
16611 \vskip \z@ \@plus3fill
16612 \if@twoside \next@tpage\cleardoubleemptypage \fi
16613 \fi
16614 \end{titlepage}
16615 \else
16616 \par
16617 \@tempcnta=%
16618 #1%
16619 \relax\ifnum\@tempcnta=1\else
16620 \ClassWarning{KOMAClassName}{%
16621 Optional argument of \string\maketitle\space ignored
16622 at\MessageBreak
16623 notitlepage-mode%
16624 }%
16625 \fi
16626 \begingroup
16627 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
16628 \let\@oldmakefnmark\@makefnmark
16629 \renewcommand*\@makefnmark{\rlap\@oldmakefnmark}
16630 \if@twocolumn
16631 \ifnum \col@number=\@ne
16632 \@maketitle
16633 \else
16634 \twocolumn[\@maketitle]%
16635 \fi
16636 \else
16637 \newpage
16638 \global\@topnum\z@
16639 \@maketitle
16640 \fi
16641 \thispagestyle{\titlepagestyle}\@thanks
16642 \endgroup
16643 \fi
16644 \setcounter{footnote}{0}%
16645 \let\thanks\relax
16646 \let\LTRthanks\relax
16647 \let\RTLthanks\relax

```



```

+6648 \let\maketitle\relax
+6649 \let\@maketitle\relax
+6650 \global\let\@thanks\@empty
+6651 \global\let\@author\@empty
+6652 \global\let\@date\@empty
+6653 \global\let\@title\@empty
+6654 \global\let\@subtitle\@empty
+6655 \global\let\@extratitle\@empty
+6656 \global\let\@titlehead\@empty
+6657 \global\let\@subject\@empty
+6658 \global\let\@publishers\@empty
+6659 \global\let\@uppertitleback\@empty
+6660 \global\let\@lowertitleback\@empty
+6661 \global\let\@dedication\@empty
+6662 \global\let\author\relax
+6663 \global\let\title\relax
+6664 \global\let\extratitle\relax
+6665 \global\let\titlehead\relax
+6666 \global\let\subject\relax
+6667 \global\let\publishers\relax
+6668 \global\let\uppertitleback\relax
+6669 \global\let\lowertitleback\relax
+6670 \global\let\dedication\relax
+6671 \global\let\date\relax
+6672 \global\let\and\relax
+6673 }%
+6674 \renewcommand*{\@maketitle}{%
+6675 \clearpage
+6676 \let\footnote\thanks
+6677 \let\LTRfootnote\LTRthanks
+6678 \let\RTLfootnote\RTLthanks
+6679 \ifx\@extratitle\@empty \else
+6680 \noindent\@extratitle \next@tpage \if@twoside \null\next@tpage \fi
+6681 \fi
+6682 \setparsizes{\z@}{\z@}{\z@\@plus 1fil}\par@updaterelative
+6683 \ifx\@titlehead\@empty \else
+6684 \begin{minipage}[t]{\textwidth}
+6685 \@titlehead
+6686 \end{minipage}\par
+6687 \fi
+6688 \null
+6689 \vskip 2em%
+6690 \begin{center}%
+6691 \ifx\@subject\@empty \else
+6692 {\subject@font \@subject \par}
+6693 \vskip 1.5em
+6694 \fi
+6695 {\titlefont\huge \@title \par}%
+6696 \vskip .5em
+6697 {\ifx\@subtitle\@empty\else\usekomafont{subtitle}\@subtitle\par\fi}%

```



```

16698 \vskip 1em
16699 {\Large
16700 \lineskip .5em%
16701 \begin{tabular}[t]{c}
16702 \@author
16703 \end{tabular}\par
16704 }%
16705 \vskip 1em%
16706 {\Large \@date \par}%
16707 \vskip \z@ \@plus 1em
16708 {\Large \@publishers \par}
16709 \ifx\@dedication\@empty \else
16710 \vskip 2em
16711 {\Large \@dedication \par}
16712 \fi
16713 \end{center}%
16714 \par
16715 \vskip 2em
16716 }%
16717 \def\raggedsection{\if@RTL\raggedleft\else\raggedright\fi}
16718 \renewcommand*\autodot{\if@altsecnumformat\@SepMark\fi}
16719 \renewcommand*\thesection{%
16720 \ifnum \scr@compatibility>\@nameuse{scr@v@2.97d}\relax
16721 \if@mainmatter\thechapter\@SepMark\fi
16722 \else
16723 \thechapter\@SepMark%
16724 \fi
16725 \@arabic\c@section
16726 }
16727 \renewcommand*{\thesubsection}{\thesection\@SepMark\@arabic\c@subsection}
16728 \renewcommand*{\thesubsubsection}{%
16729 \thesubsection\@SepMark\@arabic\c@subsubsection
16730 }
16731 \renewcommand*{\theparagraph}{\thesubsubsection\@SepMark\@arabic\c@paragraph}
16732 \renewcommand*{\thesubparagraph}{%
16733 \theparagraph\@SepMark\@arabic\c@subparagraph
16734 }
16735 \renewcommand*\thefigure{%
16736 \ifnum \scr@compatibility>\@nameuse{scr@v@2.97d}\relax
16737 \if@mainmatter\thechapter\@SepMark\fi
16738 \else
16739 \thechapter\@SepMark%
16740 \fi
16741 \@arabic\c@figure
16742 }
16743 \renewcommand*\thetable{%
16744 \ifnum \scr@compatibility>\@nameuse{scr@v@2.97d}\relax
16745 \if@mainmatter\thechapter\@SepMark\fi
16746 \else
16747 \thechapter\@SepMark%

```





```

16748 \fi
16749 \@arabic\c@table
16750 }
16751 \renewcommand*\theequation{%
16752 \ifnum \scr@compatibility>\@nameuse{scr@v@2.97d}\relax
16753 \if@mainmatter\thechapter\@SepMark\fi
16754 \else
16755 \thechapter\@SepMark%
16756 \fi
16757 \@arabic\c@equation
16758 }
16759 \renewenvironment{thebibliography}[1]{%
16760 \if@bib@break@
16761 \bib@beginhook
16762 \else
16763 \ifx\bibpreamble\relax\else\ifx\bibpreamble\@empty\else
16764 \setchapterpreamble{\bibpreamble}%
16765 \fi\fi
16766 \bib@heading
16767 \bib@beginhook
16768 \bib@before@hook
16769 \fi
16770 \renewcommand{\BreakBibliography}[1]{%
16771 \@bib@break
16772 \end{thebibliography}%
16773 \begingroup ##1\endgroup
16774 \begin{thebibliography}{#1}
16775 }%
16776 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
16777 \bidi@thebibliography@font@hook%
16778 \list{%
16779 \@biblabel{\@arabic\c@enumiv}%
16780 }{%
16781 \settowidth\labelwidth{\@biblabel{#1}}%
16782 \leftmargin\labelwidth
16783 \advance\leftmargin\labelsep
16784 \@openbib@code
16785 \if@bib@break@
16786 \edef\@tempa{%
16787 \noexpand\usecounter{enumiv}%
16788 \noexpand\setcounter{enumiv}{\the\c@enumiv}%
16789 }\@tempa
16790 \no@bib@break
16791 \else
16792 \usecounter{enumiv}%
16793 \fi
16794 \let\p@enumiv\@empty
16795 \renewcommand*\theenumiv{\@arabic\c@enumiv}%
16796 }%
16797 \sloppy\clubpenalty4000 \widowpenalty4000

```



```

16798 \sfcode`\.\=\@m
16799 }{%
16800 \if@bib@break@
16801 \def\@noitemerr{%
16802 \latex@warning{%
16803 \string\BreakBibliography\space at begin of `thebibliography'
16804 environment\MessageBreak
16805 or following \string\BreakBibliography}%
16806 }%
16807 \else
16808 \def\@noitemerr{%
16809 \latex@warning{%
16810 Empty `thebibliography' environment or
16811 \string\BreakBibliography\MessageBreak
16812 before end of `thebibliography' environment}%
16813 }%
16814 \fi
16815 \endlist
16816 \if@bib@break@
16817 \else
16818 \bib@after@hook
16819 \let\bib@before@hook\@empty
16820 \let\bib@after@hook\@empty
16821 \fi
16822 \bib@endhook
16823 }
16824 \renewcommand*\left@footnoterule{%
16825 \kern-3\p@
16826 \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
16827 \hrule\@width.4\columnwidth
16828 \kern 2.6\p@}
16829 \renewcommand*\right@footnoterule{%
16830 \kern-3\p@
16831 \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
16832 \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
16833 \kern2.6\p@}
16834 \renewcommand*{\raggeddictum}{\if@RTL\raggedright\else\raggedleft\fi}
16835 \renewcommand*{\raggeddictumtext}{\if@RTL\raggedleft\else\raggedright\fi}
16836 \renewcommand*{\raggeddictumauthor}{\if@RTL\raggedright\else\raggedleft\fi}
16837 \renewcommand\marginline[1]{%
16838 \marginpar[\if@RTL\raggedright\else\raggedleft\fi{#1}]{\if@RTL\raggedleft\else\raggedright\fi}
16839 }
16840 \renewcommand{\@makecaption}[3]{%
16841 \cap@margin
16842 \ifonelinecaptions
16843 \@tempcnta=\value{mpfootnote}\@tempcntb=\value{footnote}%
16844 \let\scr@tmp@footnotetext=\@footnotetext
16845 \let\@footnotetext=\@gobble
16846 \let\scr@tmp@LTRfootnotetext=\@LTRfootnotetext
16847 \let\@LTRfootnotetext=\@gobble

```



```

16848 \let\scr@tmp@RTLfootnotetext=\@RTLfootnotetext
16849 \let\@RTLfootnotetext=\@gobble
16850 \sbox\@tempboxa{%
16851   {\capfont{\strut\ignorespaces
16852     #1{\caplabelfont{#2\captionformat}}}%
16853     #3\unskip\strut}}%
16854 }%
16855 \let\@footnotetext=\scr@tmp@footnotetext
16856 \let\scr@tmp@footnotetext=\undefined
16857 \let\@LTRfootnotetext=\scr@tmp@LTRfootnotetext
16858 \let\scr@tmp@LTRfootnotetext=\undefined
16859 \let\@RTLfootnotetext=\scr@tmp@RTLfootnotetext
16860 \let\scr@tmp@RTLfootnotetext=\undefined
16861 \setcounter{footnote}{\@tempcntb}%
16862 \setcounter{mpfootnote}{\@tempcnta}%
16863 \else
16864   \sbox\@tempboxa{\hspace*{2\cap@width}}%
16865 \fi
16866 \begingroup%
16867   \setlength{\@tempdima}{\cap@width}%
16868   \ifdim \wd\@tempboxa >\@tempdima
16869     \hb@xt@\hsize{%
16870       \setbox\@tempboxa\vbox{\hsize=\cap@width
16871         \ifdofullc@p
16872           {\capfont{\@hangfrom{\scr@smashdp{\strut\ignorespaces
16873             #1{\caplabelfont{#2\captionformat}}}}}%
16874             {\#3\unskip\strut\par}}}%
16875         \else%
16876           \ifdim\cap@indent<\z@
16877             {\capfont{\strut\ignorespaces
16878               #1{\caplabelfont{#2\captionformat\par}}}%
16879               \noindent\hspace*{-\cap@indent}\#3\unskip\strut\par}}%
16880           \else%
16881             \if@capbreak
16882               {\capfont{\strut\ignorespaces
16883                 #1{\caplabelfont{#2\captionformat\par}}}%
16884                 \noindent\@hangfrom{\hspace*{\cap@indent}}{\#3\par}}}%
16885             \else
16886               {\capfont{\@hangfrom{\scr@smashdp{\strut\hspace*{\cap@indent}}}%
16887                 {\hspace{-\cap@indent}\scr@smashdp{\ignorespaces#1%
16888                   {\caplabelfont{#2\captionformat}}}\#3\unskip\strut\par}}}%
16889             \fi
16890           \fi
16891         \fi
16892       }%
16893       \setlength{\@tempdima}{\ht\@tempboxa}%
16894       \addtolength{\@tempdima}{\dp\@tempboxa}%
16895       \addtolength{\@tempdima}{-\ht\strutbox}%
16896       \ht\@tempboxa\ht\strutbox
16897       \dp\@tempboxa\@tempdima

```



```

16898      \strut\cap@left
16899      \box\@tempboxa
16900      \cap@right\strut
16901    }%
16902  \else
16903    \global \@minipagefalse
16904    \sbox\@tempboxa{%
16905      {\capfont{\scr@smashdp{\strut\ignorespaces
16906        #1{\caplabelfont{#2\captionformat}}}}}%
16907      #3}}%
16908    }%
16909    {\capfont{\hb@xt@\hsize{\strut\cap@left@if@RTL\beginR\fi\box\@tempboxa@if@RTL\endR\fi\c
16910  \fi
16911  \endgroup
16912 }
16913 \renewcommand{\@makecaption}[2]{%
16914   \if@captionabove
16915     \vskip\belowcaptionskip
16916   \else
16917     \vskip\abovecaptionskip
16918   \fi
16919   \@makecaption\@firstofone{#1}{#2}%
16920   \if@captionabove
16921     \vskip\abovecaptionskip
16922   \else
16923     \vskip\belowcaptionskip
16924   \fi
16925 }
16926 \bidi@AfterFile{longtable-xetex-bidi.def}{%
16927   \@ifpackageloaded{caption2}{\@komalongtablefalse
16928     \scr@caption@before@longtable@warning{caption2}%
16929   }{}%
16930   \if@komalongtable
16931     \renewcommand{\LT@makecaption}[3]{%
16932       \noalign{%
16933         \if@captionabove
16934           \vskip\belowcaptionskip
16935         \else
16936           \vskip\abovecaptionskip
16937         \fi
16938       }%
16939       \LT@mcol\LT@cols c{%
16940         \hbox to\z@{\hss\parbox[t]{\linewidth{%
16941           \@makecaption{#1}{#2}{#3}%
16942         \endgraf
16943         \if@captionabove
16944           \vskip\abovecaptionskip
16945         \else
16946           \vskip\belowcaptionskip
16947         \fi

```



```

16948         }%
16949         \hss
16950     }%
16951 }%
16952 }%
16953 \renewcommand*{\scr@LT@array}{}%
16954 \let\scr@LT@array=\LT@array
16955 \renewcommand*{\LT@array}{%
16956     \let\scr@caption=\LT@caption
16957     \def\captionabove{\noalign{\global\@captionabovetrue}%
16958         \scr@caption}%
16959     \def\captionbelow{\noalign{\global\@captionabovetrue}%
16960         \scr@caption}%
16961     \if@tablecaptionabove
16962         \let\LT@caption=\captionabove
16963     \else
16964         \let\LT@caption=\captionbelow
16965     \fi
16966     \scr@LT@array
16967 }%
16968 \ClassInfo{\KOMAClassName}{%
16969     longtable captions redefined%
16970 }%
16971 \fi
16972 }
16973
16974 \CloneTOCEntryStyle{tocline}{part}
16975 \TOCEntryStyleStartInitCode{part}{%
16976     \expandafter\renewcommand%
16977     \csname scr@tso@#1@linefill\endcsname{\hfill}%
16978     \expandafter\renewcommand%
16979     \csname scr@tso@#1@entryformat\endcsname[1]{\usekomafont{partentry}{##1}}%
16980     \expandafter\renewcommand%
16981     \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
16982         \usekomafont{partentry}{\usekomafont{partentrypagenumber}{##1}}%
16983     \expandafter\renewcommand\expandafter*%
16984     \csname scr@tso@#1@beforeskip\endcsname{2.25em \@plus\p}%
16985 }
16986
16987 \CloneTOCEntryStyle{tocline}{chapter}
16988 \TOCEntryStyleStartInitCode{chapter}{%
16989     \expandafter\renewcommand%
16990     \csname scr@tso@#1@linefill\endcsname{%
16991         \if@chapterentrywithdots
16992             \TOCLineLeaderFill\relax
16993         \else
16994             \hfill
16995         \fi
16996     }%
16997     \expandafter\renewcommand%

```



```

16998 \csname scr@tso@#1@entryformat\endcsname{\usekomafont{chapterentry}}}%
16999 \expandafter\renewcommand%
17000 \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
17001   \usekomafont{chapterentry}{\usekomafont{chapterentrypagenumber}{##1}}}%
17002 \expandafter\renewcommand\expandafter*%
17003 \csname scr@tso@#1@beforeskip\endcsname{1.0em \@plus\p@}%
17004 }
17005
17006 \CloneTOCEntryStyle{tocline}{section}
17007 \TOCEntryStyleStartInitCode{section}{%
17008   \expandafter\renewcommand%
17009   \csname scr@tso@#1@linefill\endcsname{\TOCLineLeaderFill\relax}%
17010 }
17011
17012 \CloneTOCEntryStyle{section}{default}
17013
17014 \DeclareSectionCommand[%
17015   style=part,%
17016   level=\m@ne,%
17017   pagestyle=plain,%
17018   tocstyle=part,%
17019   toplevel=\m@ne,%
17020   tocindent=\z@,%
17021   tocnumwidth=2em%
17022 ]{part}
17023 \DeclareSectionCommand[%
17024   style=chapter,%
17025   level=\z@,%
17026   pagestyle=plain,%
17027   tocstyle=chapter,%
17028   tocindent=\z@,%
17029   tocnumwidth=1.5em%
17030 ]{chapter}
17031 \DeclareSectionCommand[%
17032   style=section,%
17033   level=1,%
17034   indent=\z@,%
17035   beforeskip=-3.5ex \@plus -1ex \@minus -.2ex,%
17036   afterskip=2.3ex \@plus .2ex,%
17037   tocstyle=section,%
17038   tocindent=1.5em,%
17039   tocnumwidth=2.3em%
17040 ]{section}
17041 \DeclareSectionCommand[%
17042   style=section,%
17043   level=2,%
17044   indent=\z@,%
17045   beforeskip=-3.25ex\@plus -1ex \@minus -.2ex,%
17046   afterskip=1.5ex \@plus .2ex,%
17047   tocstyle=section,%

```



```

17048 tocindent=3.8em,%
17049 tocnumwidth=3.2em%
17050 ]{subsection}
17051 \DeclareSectionCommand[%
17052   style=section,%
17053   level=3,%
17054   indent=\z@,%
17055   beforekip=-3.25ex\@plus -1ex \@minus -.2ex,%
17056   afterskip=1.5ex \@plus .2ex,%
17057   tocstyle=section,%
17058   tocindent=7.0em,%
17059   tocnumwidth=4.1em%
17060 ]{subsubsection}
17061 \DeclareSectionCommand[%
17062   style=section,%
17063   level=4,%
17064   indent=\z@,%
17065   beforekip=3.25ex \@plus1ex \@minus .2ex,%
17066   afterskip=-1em,%
17067   tocstyle=section,%
17068   tocindent=10em,%
17069   tocnumwidth=5em%
17070 ]{paragraph}
17071 \DeclareSectionCommand[%
17072   style=section,%
17073   level=5,%
17074   indent=\scr@parindent,%
17075   beforekip=3.25ex \@plus1ex \@minus .2ex,%
17076   afterskip=-1em,%
17077   tocstyle=section,%
17078   tocindent=12em,%
17079   tocnumwidth=6em%
17080 ]{subparagraph}
17081
17082

```

### 7.103 scrlettr-xetex-bidi.def

```

17083 \ProvidesFile{scrlettr-xetex-bidi.def}[2015/11/14 v0.3 bidi adaptations for scrlettr class fo
17084 \renewcommand\deffootnote[4][]{%
17085   \long\def\@makefntext##1{%
17086     \edef\@tempa{#1}\ifx\@tempa\@empty
17087       \@setpar{\@par
17088         \@tempdima = \hsize
17089         \addtolength{\@tempdima}{-#2}
17090         \if@RTL\parshape \@ne Opt \@tempdima\else\parshape \@ne #2 \@tempdima\fi}%
17091     \else
17092       \@setpar{\@par
17093         \@tempdima = \hsize
17094         \addtolength{\@tempdima}{-#1}

```



```

17095      \@tempdimb = \hsize
17096      \addtolength{\@tempdimb}{-#2}
17097      \if@RTL\parshape \tw@ Opt \@tempdima Opt \@tempdimb\else\parshape \tw@ #1 \@tempdima
17098      \fi
17099      \par
17100      \parindent #3\noindent
17101      \hbox to \z@{\hss\@makefnmark}##1}
17102      \def\@makefnmark{\hbox{#4}}
17103  }
17104  \def\footnote[1em]{1.5em}{1em}
17105      {\textsuperscript{\thefootnotemark}}
17106  \def\left@footnoterule{\kern-1\p@
17107      \hrule width 0.4\columnwidth
17108      \kern .6\p@}
17109  \def\right@footnoterule{%
17110      \kern-1\p@
17111      \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
17112      \kern .6\p@}
17113  \def\@datefield{\@reffalse
17114      \ifx\varyourref\@empty \else \@reftrue \fi
17115      \ifx\varyourmail\@empty \else \@reftrue \fi
17116      \ifx\varmyref\@empty \else \@reftrue \fi
17117      \ifx\varcustomer\@empty \else \@reftrue \fi
17118      \ifx\varinvoice\@empty \else \@reftrue \fi
17119      \ifx\varrefitemi\@empty \else \@reftrue \fi
17120      \ifx\varrefitemii\@empty \else \@reftrue \fi
17121      \ifx\varrefitemiii\@empty \else \@reftrue \fi
17122      \vskip -\parskip
17123      \vskip \refvskip
17124      \if@ref
17125          \ifx\varyourref\@empty \else
17126              \settowidth{\sc@temp}{\varyourref}
17127              \setbox0\hbox{\scriptsize \sf \yourrefname}
17128              \ifdim \sc@temp > \wd0 \sc@temp\sc@temp \else \sc@temp\wd0 \fi
17129              \parbox[t]{\sc@temp}{\noindent \box0\par \varyourref}\hfill
17130          \fi
17131          \ifx\varyourmail\@empty \else
17132              \settowidth{\sc@temp}{\varyourmail}
17133              \setbox0\hbox{\scriptsize \sf \yourmailname}
17134              \ifdim \sc@temp > \wd0 \sc@temp\sc@temp \else \sc@temp\wd0 \fi
17135              \parbox[t]{\sc@temp}{\noindent \box0\par \varyourmail}\hfill
17136          \fi
17137          \ifx\varmyref\@empty \else
17138              \settowidth{\sc@temp}{\varmyref}
17139              \setbox0\hbox{\scriptsize \sf \myrefname}
17140              \ifdim \sc@temp > \wd0 \sc@temp\sc@temp \else \sc@temp\wd0 \fi
17141              \parbox[t]{\sc@temp}{\noindent \box0\par \varmyref}\hfill
17142          \fi
17143          \ifx\varcustomer\@empty \else
17144              \settowidth{\sc@temp}{\varcustomer}

```





```

17145 \setbox0\hbox{\scriptsize \sf \customername}
17146 \ifdim \sc@temp > \wd0 \sc@temp\sc@temp \else \sc@temp\wd0 \fi
17147 \parbox[t]{\sc@temp}{\noindent \box0\par \varcustomer}\hfill
17148 \fi
17149 \ifx\varinvoice\@empty \else
17150 \settowidth{\sc@temp}{\varinvoice}
17151 \setbox0\hbox{\scriptsize \sf \invoicename}
17152 \ifdim \sc@temp > \wd0 \sc@temp\sc@temp \else \sc@temp\wd0 \fi
17153 \parbox[t]{\sc@temp}{\noindent \box0\par \varinvoice}\hfill
17154 \fi
17155 \ifx\varrefitemi\@empty \else
17156 \settowidth{\sc@temp}{\varrefitemi}
17157 \setbox0\hbox{\scriptsize \sf \varrefitemnamei}
17158 \ifdim \sc@temp > \wd0 \sc@temp\sc@temp \else \sc@temp\wd0 \fi
17159 \parbox[t]{\sc@temp}{\noindent \box0\par \varrefitemi}\hfill
17160 \fi
17161 \ifx\varrefitemii\@empty \else
17162 \settowidth{\sc@temp}{\varrefitemii}
17163 \setbox0\hbox{\scriptsize \sf \varrefitemnameii}
17164 \ifdim \sc@temp > \wd0 \sc@temp\sc@temp \else \sc@temp\wd0 \fi
17165 \parbox[t]{\sc@temp}{\noindent \box0\par \varrefitemii}\hfill
17166 \fi
17167 \ifx\varrefitemiii\@empty \else
17168 \settowidth{\sc@temp}{\varrefitemiii}
17169 \setbox0\hbox{\scriptsize \sf \varrefitemnameiii}
17170 \ifdim \sc@temp > \wd0 \sc@temp\sc@temp \else \sc@temp\wd0 \fi
17171 \parbox[t]{\sc@temp}{\noindent \box0\par \varrefitemiii}\hfill
17172 \fi
17173 \ifx\@date\@empty \else
17174 \settowidth{\sc@temp}{\@date}
17175 \setbox0\hbox{\scriptsize \sf \datename}
17176 \ifdim \sc@temp > \wd0 \sc@temp\sc@temp \else \sc@temp\wd0 \fi
17177 \parbox[t]{\sc@temp}{\noindent \box0\par \@date}
17178 \fi
17179 \par
17180 \vspace{2.5\baselineskip}
17181 \else
17182 {\ifx\@date\@empty \else \if@RTL\raggedright\else\raggedleft\fi\fromplace\ \@date\par \fi}
17183 \vspace{1.5\baselineskip}
17184 \fi}
17185 \long\def\closing#1{\par\nobreak\vspace{0.5\baselineskip}
17186 \stopbreaks \noindent \sc@temp\textwidth \advance\sc@temp by
17187 -\sigindent \hspace{\sigindent}%
17188 \parbox{\sc@temp}{\if@RTL\raggedleft\else\raggedright\fi\ignorespaces #1\mbox{}\\[\presig@sk
17189 \fromsig\strut}\par
17190 \vspace{1.5\baselineskip}}

```

## 7.104 scrreprt-xetex-bidi.def

```

17191 \ProvidesFile{scrreprt-xetex-bidi.def}[2017/06/09 v1.1 bidi adaptations for scrreprt class fo

```



```

17192 \newcommand{\scr@saved@LTRfootnotetext}{}
17193 \newcommand{\scr@saved@RTLfootnotetext}{}
17194 \let\scr@saved@footnotetext\@footnotetext
17195 \let\scr@saved@LTRfootnotetext\@LTRfootnotetext
17196 \let\scr@saved@RTLfootnotetext\@RTLfootnotetext
17197 \renewcommand{\@footnotetext}[1]{%
17198   \scr@saved@footnotetext{#1}%
17199   \csname FN@mf@prepare\endcsname
17200 }
17201 \renewcommand{\@LTRfootnotetext}[1]{%
17202   \scr@saved@LTRfootnotetext{#1}%
17203   \csname FN@mf@prepare\endcsname
17204 }
17205 \renewcommand{\@RTLfootnotetext}[1]{%
17206   \scr@saved@RTLfootnotetext{#1}%
17207   \csname FN@mf@prepare\endcsname
17208 }
17209 \renewcommand\deffootnote[4][1]{%
17210   \long\def\@makefnmark##1{%
17211     \setlength{\@tempdimc}{#3}%
17212     \def\@tempa{#1}\ifx\@tempa\@empty
17213       \setpar{\@par
17214         \@tempdima = \hsize
17215         \addtolength{\@tempdima}{-#2}%
17216         \if@RTL\parshape \@ne Opt \@tempdima\else\parshape \@ne #2 \@tempdima\fi}%
17217     \else
17218       \addtolength{\@tempdimc}{#2}%
17219       \addtolength{\@tempdimc}{-#1}%
17220       \setpar{\@par
17221         \@tempdima = \hsize
17222         \addtolength{\@tempdima}{-#1}%
17223         \@tempdimb = \hsize
17224         \addtolength{\@tempdimb}{-#2}%
17225         \if@RTL\parshape \tw@ Opt \@tempdima Opt \@tempdimb\else\parshape \tw@ #1 \@tempdima
17226       }%
17227     \fi
17228     \par
17229     \parindent\@tempdimc\noindent
17230     \ftn@font\hbox to \z@{\hss\@makefnmark}##1%
17231   }%
17232   \def\@makefnmark{\hbox{\ftn@font{#4}}}%
17233 }
17234 \deffootnote[1em]{1.5em}{1em}{\textsuperscript{\thefootnotemark}}
17235 \renewcommand*\left@footnoterule{%
17236   \normalsize\ftn@rule@test@values
17237   \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
17238   \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
17239   {\usekomafont{footnoterule}{%
17240     \hrule \@height\ftn@rule@height \@width\ftn@rule@width}}%
17241   \kern 2.6\p@}

```



```

17242 \renewcommand*\right@footnoterule{%
17243   \normalsize\ftn@rule@test@values
17244   \kern-\dimexpr 2.6\p+\ftn@rule@height\relax
17245   \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
17246   {\usekomafont{footnoterule}{%
17247     \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\ftn@rule@width\relax \leavevmode\le
17248     \kern 2.6\p@}}
17249 \renewcommand*\maketitle[1][1]{%
17250   \if@titlepage
17251     \begin{titlepage}
17252       \setcounter{page}{%
17253         #1%
17254       }%
17255       \let\footnotesize\small
17256       \let\right@footnoterule\relax
17257       \let\left@footnoterule\relax
17258       \let\textwidth@footnoterule\relax
17259       \let\footnote\thanks
17260       \let\LTRfootnote\LTRthanks
17261       \let\RTLfootnote\RTLthanks
17262       \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
17263       \let\@oldmakefnmark\@makefnmark
17264       \renewcommand*{\@makefnmark}{\rlap\@oldmakefnmark}%
17265       \ifx\@extratitle\@empty \else
17266         \noindent\@extratitle\next@tpage\cleardoubleemptypage
17267         \thispagestyle{empty}%
17268       \fi
17269       \setparsizes{\z@}{\z@}{\z@ \@plus 1fil}\par@updaterelative
17270       \ifx\@titlehead\@empty \else
17271         \begin{minipage}[t]{\textwidth}%
17272           \@titlehead
17273         \end{minipage}\par
17274       \fi
17275       \null\vfill
17276       \begin{center}
17277         \ifx\@subject\@empty \else
17278           {\subject@font \@subject \par}%
17279           \vskip 3em
17280         \fi
17281         {\titlefont\huge \@title\par}%
17282         \vskip 1em
17283         {\ifx\@subtitle\@empty\else\usekomafont{subtitle}\@subtitle\par\fi}%
17284         \vskip 2em
17285         {\Large \lineskip 0.75em
17286           \begin{tabular}[t]{c}
17287             \@author
17288           \end{tabular}\par
17289         }%
17290         \vskip 1.5em
17291         {\Large \@date \par}%

```



```

17292         \vskip \z@ \@plus3fill
17293         {\Large \@publishers \par}%
17294         \vskip 3em
17295     \end{center}\par
17296     \@thanks
17297     \vfill\null
17298     \if@twoside\next@tpage
17299         \begin{minipage}[t]{\textwidth}
17300             \Uppertitleback
17301         \end{minipage}\par
17302         \vfill
17303         \begin{minipage}[b]{\textwidth}
17304             \LowerTitleback
17305         \end{minipage}
17306     \fi
17307     \ifx\@dedication\@empty \else
17308         \next@tpage\null\vfill
17309         {\centering \Large \@dedication \par}%
17310         \vskip \z@ \@plus3fill
17311         \if@twoside \next@tpage\cleardoubleemptypage \fi
17312     \fi
17313     \end{titlepage}
17314 \else
17315     \par
17316     \@tempcnta=%
17317     #1%
17318     \relax\ifnum\@tempcnta=1\else
17319         \ClassWarning{KOMAClassName}{%
17320             Optional argument of \string\maketitle\space ignored
17321             at\MessageBreak
17322             notitlepage-mode%
17323         }%
17324     \fi
17325     \begingroup
17326         \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
17327         \let\oldmakefnmark\makefnmark
17328         \renewcommand*{\@makefnmark}{\rlap{\oldmakefnmark}}
17329         \if@twocolumn
17330             \ifnum \col@number=\@ne
17331                 \@maketitle
17332             \else
17333                 \twocolumn[\@maketitle]%
17334             \fi
17335         \else
17336             \newpage
17337             \global\@topnum\z@
17338             \@maketitle
17339         \fi
17340         \thispagestyle{\titlepagestyle}\@thanks
17341     \endgroup

```



```

17342 \fi
17343 \setcounter{footnote}{0}%
17344 \let\thanks\relax
17345 \let\LTRthanks\relax
17346 \let\RTLthanks\relax
17347 \let\maketitle\relax
17348 \let\@maketitle\relax
17349 \global\let\@thanks\@empty
17350 \global\let\@author\@empty
17351 \global\let\@date\@empty
17352 \global\let\@title\@empty
17353 \global\let\@subtitle\@empty
17354 \global\let\@extratitle\@empty
17355 \global\let\@titlehead\@empty
17356 \global\let\@subject\@empty
17357 \global\let\@publishers\@empty
17358 \global\let\@uppertitleback\@empty
17359 \global\let\@lowertitleback\@empty
17360 \global\let\@dedication\@empty
17361 \global\let\author\relax
17362 \global\let\title\relax
17363 \global\let\extratitle\relax
17364 \global\let\titlehead\relax
17365 \global\let\subject\relax
17366 \global\let\publishers\relax
17367 \global\let\uppertitleback\relax
17368 \global\let\lowertitleback\relax
17369 \global\let\dedication\relax
17370 \global\let\date\relax
17371 \global\let\and\relax
17372 }%
17373 \renewcommand*{\@maketitle}{%
17374 \clearpage
17375 \let\footnote\thanks
17376 \let\LTRfootnote\LTRthanks
17377 \let\RTLfootnote\RTLthanks
17378 \ifx\@extratitle\@empty \else
17379 \noindent\@extratitle \next@tpage \if@twoside \null\next@tpage \fi
17380 \fi
17381 \setparsizes{\z@}{\z@}{\z@\@plus 1fil}\par@updaterelative
17382 \ifx\@titlehead\@empty \else
17383 \begin{minipage}[t]{\textwidth}
17384 \@titlehead
17385 \end{minipage}\par
17386 \fi
17387 \null
17388 \vskip 2em%
17389 \begin{center}%
17390 \ifx\@subject\@empty \else
17391 {\subject@font \@subject \par}

```



```

17392     \vskip 1.5em
17393     \fi
17394     {\titlefont\huge \@title \par}%
17395     \vskip .5em
17396     {\ifx\@subtitle\@empty\else\usekomafont{subtitle}\@subtitle\par\fi}%
17397     \vskip 1em
17398     {\Large
17399       \lineskip .5em%
17400       \begin{tabular}[t]{c}
17401         \@author
17402       \end{tabular}\par
17403     }%
17404     \vskip 1em%
17405     {\Large \@date \par}%
17406     \vskip \z@ \@plus 1em
17407     {\Large \@publishers \par}
17408     \ifx\@dedication\@empty \else
17409       \vskip 2em
17410       {\Large \@dedication \par}
17411     \fi
17412     \end{center}%
17413     \par
17414     \vskip 2em
17415 }%
17416 \def\raggedsection{\if@RTL\raggedleft\else\raggedright\fi}
17417 \renewcommand*\autodot{\if@altsecnumformat\@SepMark\fi}
17418 \renewcommand*\thesection{%
17419   \thechapter\@SepMark%
17420   \@arabic\c@section
17421 }
17422 \renewcommand*{\thesubsection}{\thesection\@SepMark\@arabic\c@subsection}
17423 \renewcommand*{\thesubsubsection}{%
17424   \thesubsection\@SepMark\@arabic\c@subsubsection
17425 }
17426 \renewcommand*{\theparagraph}{\thesubsubsection\@SepMark\@arabic\c@paragraph}
17427 \renewcommand*{\thesubparagraph}{%
17428   \theparagraph\@SepMark\@arabic\c@subparagraph
17429 }
17430 \renewcommand*\thefigure{%
17431   \thechapter\@SepMark%
17432   \@arabic\c@figure
17433 }
17434 \renewcommand*\thetable{%
17435   \thechapter\@SepMark%
17436   \@arabic\c@table
17437 }
17438 \renewcommand*\theequation{%
17439   \thechapter\@SepMark%
17440   \@arabic\c@equation
17441 }

```



```

17442 \renewenvironment{thebibliography}[1]{%
17443   \if@bib@break@
17444   \bib@beginhook
17445   \else
17446     \ifx\bibpreamble\relax\else\ifx\bibpreamble\@empty\else
17447       \setchapterpreamble{\bibpreamble}%
17448     \fi\fi
17449     \bib@heading
17450     \bib@beginhook
17451     \bib@before@hook
17452   \fi
17453 \renewcommand{\BreakBibliography}[1]{%
17454   \@bib@break
17455   \end{thebibliography}%
17456   \begingroup ##1\endgroup
17457   \begin{thebibliography}{#1}
17458 }%
17459 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
17460 \bidi@thebibliography@font@hook%
17461 \list{%
17462   \@biblabel{\@arabic\c@enumiv}%
17463 }{%
17464   \settowidth\labelwidth{\@biblabel{#1}}%
17465   \leftmargin\labelwidth
17466   \advance\leftmargin\labelsep
17467   \@openbib@code
17468   \if@bib@break@
17469     \edef\@tempa{%
17470       \noexpand\usecounter{enumiv}%
17471       \noexpand\setcounter{enumiv}{\the\c@enumiv}%
17472     }\@tempa
17473     \no@bib@break
17474   \else
17475     \usecounter{enumiv}%
17476   \fi
17477   \let\p@enumiv\@empty
17478   \renewcommand*\theenumiv{\@arabic\c@enumiv}%
17479 }%
17480 \sloppy\clubpenalty4000 \widowpenalty4000
17481 \sfcode`\.=\@m
17482 }{%
17483   \if@bib@break@
17484     \def\@noitemerr{%
17485       \@latex@warning{%
17486         \string\BreakBibliography\space at begin of `thebibliography'
17487         environment\MessageBreak
17488         or following \string\BreakBibliography}%
17489     }%
17490   \else
17491     \def\@noitemerr{%

```



```

17492     \@latex@warning{%
17493         Empty `thebibliography' environment or
17494         \string\BreakBibliography\MessageBreak
17495         before end of `thebibliography' environment}%
17496     }%
17497     \fi
17498     \endlist
17499     \if@bib@break@
17500     \else
17501         \bib@after@hook
17502         \let\bib@before@hook\@empty
17503         \let\bib@after@hook\@empty
17504     \fi
17505     \bib@endhook
17506 }
17507 \renewcommand*\left@footnoterule{%
17508     \kern-3\p@
17509     \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
17510     \hrule\@width.4\columnwidth
17511     \kern 2.6\p@}
17512 \renewcommand*\right@footnoterule{%
17513     \kern-3\p@
17514     \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
17515     \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
17516     \kern2.6\p@}
17517 \renewcommand*\raggeddictum{\if@RTL\raggedright\else\raggedleft\fi}
17518 \renewcommand*\raggeddictumtext{\if@RTL\raggedleft\else\raggedright\fi}
17519 \renewcommand*\raggeddictumauthor{\if@RTL\raggedright\else\raggedleft\fi}
17520 \renewcommand\marginline[1]{%
17521     \marginpar[\if@RTL\raggedright\else\raggedleft\fi{#1}]{\if@RTL\raggedleft\else\raggedright\fi}
17522 }
17523 \renewcommand{\@makecaption}[3]{%
17524     \cap@margin
17525     \ifonelinecaptions
17526         \@tempcnta=\value{mpfootnote}\@tempcntb=\value{footnote}%
17527         \let\scr@tmp@footnotetext=\footnotetext
17528         \let\@footnotetext=\@gobble
17529         \let\scr@tmp@LTRfootnotetext=\@LTRfootnotetext
17530         \let\@LTRfootnotetext=\@gobble
17531         \let\scr@tmp@RTLfootnotetext=\@RTLfootnotetext
17532         \let\@RTLfootnotetext=\@gobble
17533         \sbox\@tempboxa{%
17534             {\capfont{\strut\ignorespaces
17535                 #1{\caplabelfont{#2\captionformat}}}%
17536                 #3\unskip\strut}}%
17537         }%
17538         \let\@footnotetext=\scr@tmp@footnotetext
17539         \let\scr@tmp@footnotetext=\undefined
17540         \let\@LTRfootnotetext=\scr@tmp@LTRfootnotetext
17541         \let\scr@tmp@LTRfootnotetext=\undefined

```





```

17542 \let\@RTLfootnotetext=\scr@tmp@RTLfootnotetext
17543 \let\scr@tmp@RTLfootnotetext=\undefined
17544 \setcounter{footnote}{\@tempcntb}%
17545 \setcounter{mpfootnote}{\@tempcnta}%
17546 \else
17547 \sbox\@tempboxa{\hspace*{2\cap@width}}%
17548 \fi
17549 \begingroup%
17550 \setlength{\@tempdima}{\cap@width}%
17551 \ifdim \wd\@tempboxa >\@tempdima
17552 \hb@xt@\hsize{%
17553 \setbox\@tempboxa\vbox{\hsize=\cap@width
17554 \ifdoofullc@p
17555 {\capfont{\@hangfrom{\scr@smashdp{\strut\ignorespaces
17556 #1{\caplabelfont{#2\captionformat}}}}}%
17557 {\#3\unskip\strut\par}}}%
17558 \else%
17559 \ifdim\cap@indent<\z@
17560 {\capfont{\strut\ignorespaces
17561 #1{\caplabelfont{#2\captionformat\par}}}%
17562 \noindent\hspace*{-\cap@indent}\#3\unskip\strut\par}}%
17563 \else%
17564 \if@capbreak
17565 {\capfont{\strut\ignorespaces
17566 #1{\caplabelfont{#2\captionformat\par}}}%
17567 \noindent\@hangfrom{\hspace*{\cap@indent}}{\#3\par}}}%
17568 \else
17569 {\capfont{\@hangfrom{\scr@smashdp\strut\hspace*{\cap@indent}}}%
17570 {\hspace*{-\cap@indent}\scr@smashdp{\ignorespaces#1%
17571 {\caplabelfont{#2\captionformat}}}\#3\unskip\strut\par}}}%
17572 \fi
17573 \fi
17574 \fi
17575 }%
17576 \setlength{\@tempdima}{\ht\@tempboxa}%
17577 \addtolength{\@tempdima}{\dp\@tempboxa}%
17578 \addtolength{\@tempdima}{-\ht\strutbox}%
17579 \ht\@tempboxa\ht\strutbox
17580 \dp\@tempboxa\@tempdima
17581 \strut\cap@left
17582 \box\@tempboxa
17583 \cap@right\strut
17584 }%
17585 \else
17586 \global \@minipagefalse
17587 \sbox\@tempboxa{%
17588 {\capfont{\scr@smashdp{\strut\ignorespaces
17589 #1{\caplabelfont{#2\captionformat}}}}}%
17590 #3}%
17591 }%

```



```

17592     {\capfont{\hb@xt@\hsize{\strut\cap@left\if@RTL\beginR\fi\box\@tempboxa\if@RTL\endR\fi\c
17593     \fi
17594   \endgroup
17595 }
17596 \renewcommand{\@makecaption}[2]{%
17597   \if@captionabove
17598     \vskip\belowcaptionskip
17599   \else
17600     \vskip\abovecaptionskip
17601   \fi
17602   \@makecaption\@firstofone{#1}{#2}%
17603   \if@captionabove
17604     \vskip\abovecaptionskip
17605   \else
17606     \vskip\belowcaptionskip
17607   \fi
17608 }
17609 \bidi@AfterFile{longtable-xetex-bidi.def}{%
17610   \@ifpackageloaded{caption2}{\@komalongtablefalse
17611     \scr@caption@before@longtable@warning{caption2}%
17612   }{}%
17613   \if@komalongtable
17614     \renewcommand{\LT@makecaption}[3]{%
17615       \noalign{%
17616         \if@captionabove
17617           \vskip\belowcaptionskip
17618         \else
17619           \vskip\abovecaptionskip
17620         \fi
17621       }%
17622       \LT@mcol\LT@cols c{%
17623         \hbox to\z@{\hss\parbox[t]{linewidth{%
17624           \@makecaption{#1}{#2}{#3}%
17625         }\endgraf
17626         \if@captionabove
17627           \vskip\abovecaptionskip
17628         \else
17629           \vskip\belowcaptionskip
17630         \fi
17631       }%
17632       \hss
17633     }%
17634   }%
17635 }%
17636 \renewcommand*{\scr@LT@array}{}%
17637 \let\scr@LT@array=\LT@array
17638 \renewcommand*{\LT@array}{%
17639   \let\scr@caption=\LT@caption
17640   \def\captionabove{\noalign{\global\@captionabovetrue}%
17641     \scr@caption}%

```



```

17642     \def\captionbelow{\noalign{\global\@captionabovefalse}%
17643     \scr@caption}%
17644     \if@tablecaptionabove
17645     \let\LT@caption=\captionabove
17646     \else
17647     \let\LT@caption=\captionbelow
17648     \fi
17649     \scr@LT@array
17650 }%
17651 \ClassInfo{\KOMAClassName}{%
17652     longtable captions redefined%
17653 }%
17654 \fi
17655 }
17656
17657 \CloneTOCEntryStyle{tocline}{part}
17658 \TOCEntryStyleStartInitCode{part}{%
17659     \expandafter\renewcommand%
17660     \csname scr@tso@#1@linefill\endcsname{\hfill}%
17661     \expandafter\renewcommand%
17662     \csname scr@tso@#1@entryformat\endcsname[1]{\usekomafont{partentry}{##1}}%
17663     \expandafter\renewcommand%
17664     \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
17665         \usekomafont{partentry}{\usekomafont{partentrypagenumber}{##1}}%
17666         \expandafter\renewcommand\expandafter*%
17667         \csname scr@tso@#1@beforeskip\endcsname{2.25em \@plus\p@}%
17668 }
17669
17670 \CloneTOCEntryStyle{tocline}{chapter}
17671 \TOCEntryStyleStartInitCode{chapter}{%
17672     \expandafter\renewcommand%
17673     \csname scr@tso@#1@linefill\endcsname{%
17674         \if@chapterentrywithdots
17675             \TOCLineLeaderFill\relax
17676         \else
17677             \hfill
17678         \fi
17679     }%
17680     \expandafter\renewcommand%
17681     \csname scr@tso@#1@entryformat\endcsname{\usekomafont{chapterentry}}%
17682     \expandafter\renewcommand%
17683     \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
17684         \usekomafont{chapterentry}{\usekomafont{chapterentrypagenumber}{##1}}%
17685         \expandafter\renewcommand\expandafter*%
17686         \csname scr@tso@#1@beforeskip\endcsname{1.0em \@plus\p@}%
17687 }
17688
17689 \CloneTOCEntryStyle{tocline}{section}
17690 \TOCEntryStyleStartInitCode{section}{%
17691     \expandafter\renewcommand%

```



```

17692 \csname scr@tso@#1@linefill\endcsname{\TOCLineLeaderFill\relax}%
17693 }
17694
17695 \CloneTOCEntryStyle{section}{default}
17696
17697 \DeclareSectionCommand[%
17698   style=part,%
17699   level=\m@ne,%
17700   pagestyle=plain,%
17701   tocstyle=part,%
17702   toclevel=\m@ne,%
17703   tocindent=\z@,%
17704   tocnumwidth=2em%
17705 ]{part}
17706 \DeclareSectionCommand[%
17707   style=chapter,%
17708   level=\z@,%
17709   pagestyle=plain,%
17710   tocstyle=chapter,%
17711   tocindent=\z@,%
17712   tocnumwidth=1.5em%
17713 ]{chapter}
17714 \DeclareSectionCommand[%
17715   style=section,%
17716   level=1,%
17717   indent=\z@,%
17718   beforekip=-3.5ex \@plus -1ex \@minus -.2ex,%
17719   afterskip=2.3ex \@plus .2ex,%
17720   tocstyle=section,%
17721   tocindent=1.5em,%
17722   tocnumwidth=2.3em%
17723 ]{section}
17724 \DeclareSectionCommand[%
17725   style=section,%
17726   level=2,%
17727   indent=\z@,%
17728   beforekip=-3.25ex \@plus -1ex \@minus -.2ex,%
17729   afterskip=1.5ex \@plus .2ex,%
17730   tocstyle=section,%
17731   tocindent=3.8em,%
17732   tocnumwidth=3.2em%
17733 ]{subsection}
17734 \DeclareSectionCommand[%
17735   style=section,%
17736   level=3,%
17737   indent=\z@,%
17738   beforekip=-3.25ex \@plus -1ex \@minus -.2ex,%
17739   afterskip=1.5ex \@plus .2ex,%
17740   tocstyle=section,%
17741   tocindent=7.0em,%

```



```

17742   tocnumwidth=4.1em%
17743 ]{subsubsection}
17744 \DeclareSectionCommand[%
17745   style=section,%
17746   level=4,%
17747   indent=\z@,%
17748   beforeskip=3.25ex \@plus1ex \@minus.2ex,%
17749   afterskip=-1em,%
17750   tocstyle=section,%
17751   tocindent=10em,%
17752   tocnumwidth=5em%
17753 ]{paragraph}
17754 \DeclareSectionCommand[%
17755   style=section,%
17756   level=5,%
17757   indent=\scr@parindent,%
17758   beforeskip=3.25ex \@plus1ex \@minus.2ex,%
17759   afterskip=-1em,%
17760   tocstyle=section,%
17761   tocindent=12em,%
17762   tocnumwidth=6em%
17763 ]{subparagraph}
17764
17765

```

## 7.105 sidecap-xetex-bidi.def

```

17766 \ProvidesFile{sidecap-xetex-bidi.def}[2010/08/01 v0.1 bidi adaptations for sidecap package for XeTeX]
17767 \renewcommand*{\SC@FLOAT}[2]{\ifRTL%
17768   \isSC@ODD{#1}\hspace{\sidecaptionsep}{#2} {\#2}\hspace{\sidecaptionsep}{#1}}\else%
17769   \isSC@ODD{#2}\hspace{\sidecaptionsep}{#1} {\#1}\hspace{\sidecaptionsep}{#2}}\fi}
17770 \renewcommand*{\SC@justify@caption}{\ifRTL%
17771   \isSC@ODD{\RaggedLeft}{\RaggedRight}\else%
17772   \isSC@ODD{\RaggedRight}{\RaggedLeft}\fi}

```

## 7.106 soul-xetex-bidi.def

```

17773 \ProvidesFile{soul-xetex-bidi.def}[2015/10/16 v0.1 bidi adaptations for soul package for XeTeX]
17774 \long\def\SOUL@start#1{%
17775   \let\bid@RTL@everypar\@empty
17776   \let\<\SOUL@lowerthan
17777   \let\>\empty
17778   \def\soulomit{\noexpand\soulomit}%
17779   \gdef\SOUL@eventuallyexhyphen##1{%
17780     \let\SOUL@soeventuallyskip\relax
17781     \SOUL@spaceskip=\fontdimen\tw@font\@plus\fontdimen\thr@@font
17782       \@minus\fontdimen4font
17783     \SOUL@ignorespacesfalse
17784     \leavevmode
17785     \SOUL@preamble
17786     \SOUL@lasttoken={}%

```



```

17787 \SOUL@word={}%
17788 \SOUL@minus\z@
17789 \SOUL@comma\z@
17790 \SOUL@apo\z@
17791 \SOUL@grave\z@
17792 \SOUL@do{#1}%
17793 \SOUL@postamble
17794 }}
17795 \def\SOUL@ulunderline#1{%
17796 \setbox\z@\hbox{#1}%
17797 \dimen@=\wd\z@
17798 \dimen@i=\SOUL@uloverlap
17799 \advance\dimen@2\dimen@i
17800 \if@RTL
17801 \unhcopy\z@
17802 \llap{%
17803 \null
17804 \kern-\dimen@i
17805 \SOUL@ulcolor{\SOUL@ulleaders\hskip\dimen@}%
17806 }%
17807 \else
17808 \rlap{%
17809 \null
17810 \kern-\dimen@i
17811 \SOUL@ulcolor{\SOUL@ulleaders\hskip\dimen@}%
17812 }%
17813 \unhcopy\z@
17814 \fi
17815 }}
17816 \def\bidi@SOUL@ulleaders{%
17817 \leaders\hb@xt@0.1pt{\hss\SOUL@ulcolor{\vrule\@depth\SOUL@uldp\@height\SOUL@ulht}\hss}\re
17818 }
17819 \def\SOUL@uleveryspace#1{%
17820 \if@RTL
17821 #1%
17822 \bidi@SOUL@ulleaders
17823 \hskip\spaceskip
17824 \else
17825 \SOUL@ulcolor{%
17826 #1%
17827 \SOUL@ulleaders
17828 \hskip\spaceskip
17829 }%
17830 \fi
17831 \null
17832 }

```

## 7.107 stabular-xetex-bidi.def

17833 \ProvidesFile{stabular-xetex-bidi.def}[2015/11/07 v0.3 bidi adaptations for stabular package]



```

17834 \def\@stabular{%
17835     \leavevmode \bgroup \if@RTLtab\beginR \fi
17836     \let\@acol\@tabacol
17837     \let\@classz\@tabclassz
17838     \let\@classiv\@tabclassiv \let\\\@tabularcr\@stabarray}
17839 \def\endstabular{\crr\egroup\if@RTLtab\egroup\endR\egroup\fi
17840     \egroup \if@RTLtab\endR\fi\egroup}
17841 \expandafter \let \csname endstabular*\endcsname = \endstabular
17842 \def\@sarray[#1]#2{%
17843     \bgroup
17844     \setbox\@arstrutbox\hbox{%
17845         \vrule \@height\arraystretch\ht\strutbox
17846         \@depth\arraystretch \dp\strutbox
17847         \@width\z@}%
17848     \@mkpream{#2}%
17849     \edef\@preamble{%
17850         \ialign \noexpand\@halignto
17851             \bgroup \@arstrut \@preamble \tabskip\z@skip \cr}%
17852     \let\@startpbox\@startpbox \let\@endpbox\@endpbox
17853     \let\@tabularnewline\\%
17854     \let\@sharp##%
17855     \set@typeset@protect
17856     \lineskip\z@skip\baselineskip\z@skip
17857     \if@RTLtab\hbox\bgroup\beginR\@hboxRconstructtrue\if #1t\top \else \vbox \fi\bgroup\fi
17858     \@preamble}

```

## 7.108 subfigure-xetex-bidi.def

```

17859 \ProvidesFile{subfigure-xetex-bidi.def}[2010/03/01 v0.1 bidi adaptations for subfigure package]
17860 \AtBeginDocument{%
17861     \let\p@subfigure=\thefigure
17862     \let\p@subtable=\thetable%
17863 }

```

## 7.109 tabs-xetex-bidi.def

```

17864 \ProvidesFile{tabs-xetex-bidi.def}[2015/11/07 v0.3 bidi adaptations for tabs package for Xe
17865 \def\endtabular{\endarray $\if@RTLtab\endR\fi\egroup}
17866
17867 \expandafter\let\csname endtabular*\endcsname=\endtabular
17868
17869 \def\endarray{\ifvmode\csname crr\endcsname % just do \crr if \ given
17870     \else \[\z@ \global\advance\@arstdepth-\@otarlinesep]%
17871     \fi\egroup\if@RTLtab\egroup\endR\egroup\fi\@unrecurse\egroup}
17872
17873 \def\@array[#1]#2{% remember global variables to allow recursion:
17874     \edef\@unrecurse{\global\@skip@bove\the\@skip@bove
17875         \global\@arstheight\the\@arstheight\global\@arstdepth\the\@arstdepth}%
17876     \let\@otarlinesep\@arlinesep \global\@skip@bove-\@otarlinesep
17877     \ifx\@classz\@arrayclassz \let\@arlinesep\arraylinesep
17878     \else \let\@arlinesep\tablinesep \fi

```



```

17879 \divide\@tarlinesep\tw@ % half sep is applied to height & depth
17880 \let\@seesize\relax \let\@rememsize\relax \mkpream{#2}%
17881 \@tempdima\arraystretch\ht\strutbox \@tempdimb\arraystretch\dp\strutbox
17882 \ifdim\@tarlinesep>\z@ % (need \protect for \multicolumn)
17883   \def\@rememsize{\protect\@r@#m@size}\let\@seesize\@s@#size
17884   \advance\@tempdima-\@tarlinesep \advance\@tempdimb-\@tarlinesep
17885   \fi \setbox\@arstrutbox\hbox{% set up smaller strut
17886     \vrule \height\@tempdima \depth\@tempdimb \width\z@}%
17887   \let\protect\noexpand
17888   \edef\@preamble{\ialign \noexpand\@halignto \bgroup
17889     \unhcopy\@arstrutbox \@preamble \tabskip\z@skip &\@sharp \cr}%
17890   \let\@startpbox\@startpbox \let\@endpbox\@endpbox
17891   \if#1t\top \else \if#1b\box \else \vcenter \fi\fi
17892   \bgroup \let\par\@empty
17893   \global\@arstheight\ht\@arstrutbox \global\@arstdepth\dp\@arstrutbox
17894   \advance\extrarulesep.5\arrayrulewidth
17895   \let\@sharp##\let\protect\relax \lineskip\z@skip \baselineskip\z@skip
17896   \ifRTLTtab\hbox\bgroup\beginR\@hboxRconstructtrue\if#1t\top \else \box \fi\bgroup\fi
17897   \@preamble}

```

## 7.110 tabularx-xetex-bidi.def

```

17898 \ProvidesFile{tabularx-xetex-bidi.def}[2014/11/08 v0.1 bidi adaptations for tabularx package]
17899 \def\TX@endtabularx{%
17900   \expandafter\expandafter\expandafter
17901     \TX@find@endtabularxa\csname end\TX@\endcsname
17902     \endtabularx\TX@\endtabularx\TX@find@endtabularxa
17903   \expandafter\TX@newcol\expandafter{\tabularxcolumn{\TX@col@width}}%
17904   \let\verb\TX@verb
17905   \def\@elt##1{\global\value{##1}\the\value{##1}\relax}%
17906   \edef\TX@ckpt{\cl@ckpt}%
17907   \let\@elt\relax
17908   \TX@old@table\maxdimen
17909   \TX@col@width\TX@target
17910   \global\TX@cols\@ne
17911   \TX@typeout@
17912     {\@spaces Table Width\@spaces Column Width\@spaces X Columns}%
17913   \TX@trial{\def\NC@rewriteX{%
17914     \global\advance\TX@cols\@ne\NC@find p{\TX@col@width}}}%
17915   \loop
17916     \TX@arith
17917     \ifTX@
17918       \TX@trial{}%
17919   \repeat
17920   {\let\@footnotetext\TX@fnttext\let\@xfootnotenext\TX@xftntext
17921     \let\@LTRfootnotetext\TX@LTRfnttext\let\@xLTRfootnotenext\TX@xLTRfnttext
17922     \let\@RTLfootnotetext\TX@RTLfnttext\let\@xRTLfootnotenext\TX@xRTLfnttext
17923     \csname tabular*\expandafter\endcsname\expandafter\TX@target
17924       \the\toks@
17925     \csname endtabular*\endcsname}%

```





```

17926 \global\TX@ftn\expandafter{\expandafter}\the\TX@ftn
17927 \ifnum0=`{\fi}%
17928 \expandafter\expandafter\expandafter
17929 \TX@find@endtabularxbb
17930 \expandafter\end\expandafter{\TX@}%
17931 \endtabularx\TX@\endtabularx\TX@find@endtabularxb
17932 }
17933
17934 \def\TX@trial#1{%
17935 \setbox\@tempboxa\hbox{%
17936 #1\relax
17937 \let\@footnotetext\TX@trial@ftn
17938 \let\@LTRfootnotetext\TX@trial@ftn
17939 \let\@RTLfootnotetext\TX@trial@ftn
17940 \let\TX@vwarn\@empty
17941 \expandafter\let\expandafter\tabularx\csname tabular*\endcsname
17942 \expandafter\let\expandafter\endtabularx\csname endtabular*\endcsname
17943 \def\write{\begingroup
17944 \def\let{\afterassignment\endgroup\toks@}%
17945 \afterassignment\let\count@}%
17946 \hbadness\@M
17947 \hfuzz\maxdimen
17948 \let\hbadness\@tempcnta
17949 \let\hfuzz\@tempdima
17950 \expandafter\tabular\the\toks@
17951 \endtabular}%
17952 \TX@ckpt
17953 \TX@typeout@{\@spaces
17954 \expandafter\TX@align
17955 \the\wd\@tempboxa\space\space\space\space\space@@
17956 \expandafter\TX@align
17957 \the\TX@col@width\space\space\space\space\space@@
17958 \@spaces\the\TX@cols}}
17959
17960 \long\def\TX@LTRftntext#1{%
17961 \edef\@tempa{\the\TX@ftn\noexpand\LTRfootnotetext
17962 [\the\csname c@\@mpfn\endcsname]]}%
17963 \global\TX@ftn\expandafter{\@tempa{#1}}}%
17964 \long\def\TX@xLTRftntext[#1]#2{%
17965 \global\TX@ftn\expandafter{\the\TX@ftn\LTRfootnotetext[#1]{#2}}}
17966
17967 \long\def\TX@RTLftntext#1{%
17968 \edef\@tempa{\the\TX@ftn\noexpand\RTLfootnotetext
17969 [\the\csname c@\@mpfn\endcsname]]}%
17970 \global\TX@ftn\expandafter{\@tempa{#1}}}%
17971 \long\def\TX@xRTLftntext[#1]#2{%
17972 \global\TX@ftn\expandafter{\the\TX@ftn\RTLfootnotetext[#1]{#2}}}

```

## 7.111 tabulary-xetex-bidi.def



```

\ProvidesFile{tabulary-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for tabulary package]
\def\@testpach{\@chclass
17974 \ifnum \@lastchclass=6 \@ne \@chnum \@ne \else
17975 \ifnum \@lastchclass=7 5 \else
17976 \ifnum \@lastchclass=8 \tw@ \else
17977 \ifnum \@lastchclass=9 \thr@@
17978 \else \z@
17979 \ifnum \@lastchclass = 10 \else
17980 \edef\@nextchar{\expandafter\string\@nextchar}%
17981 \@chnum
17982 \if \@nextchar c\z@ \else
17983 \if \@nextchar \if@RTLtab r\else l\fi\@ne \else
17984 \if \@nextchar \if@RTLtab l\else r\fi\tw@ \else
17985 \if \@nextchar C7 \else
17986 \if \@nextchar L8 \else
17987 \if \@nextchar R9 \else
17988 \if \@nextchar J10 \else
17989 \z@ \@chclass
17990 \if\@nextchar |\@ne \else
17991 \if \@nextchar !6 \else
17992 \if \@nextchar @7 \else
17993 \if \@nextchar <8 \else
17994 \if \@nextchar >9 \else
17995 10
17996 \@chnum
17997 \if \@nextchar m\thr@@\else
17998 \if \@nextchar p4 \else
18000 \if \@nextchar b5 \else
18001 \z@ \@chclass \z@ \@preamerr \z@ \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi
18002 \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi}

```

```

18003 \ProvidesFile{tc-xetex-bidi.def}[2014/07/08 v0.1 bidi adaptations for Clipping driver for XeT
18004 \def\@cliptoboxdim#1{%
18005     \setbox#1=\hbox{%
18006         \Gin@defaultbp\WIDTH{\wd#1}%
18007         \Gin@defaultbp\DEPTH{\dp#1}%
18008         \@tempdima\ht#1%
18009         \advance\@tempdima\dp#1%
18010         \Gin@defaultbp\TOTALHEIGHT{\@tempdima}%
18011         \beginL\special{pdf:bcontent }%
18012         \special{%
18013             pdf:literal direct
18014             0 -\DEPTH\space \WIDTH\space \TOTALHEIGHT\space re
18015         }%
18016         \special{pdf:literal direct W }%
18017         \special{pdf:literal direct n }%
18018         \if@RTL\beginR\fi\box#1\if@RTL\endR\fi%
18019         \special{pdf:econtent }\endL%

```



```

18020     }%
18021 }

```

### 7.113 tcolorbox-xetex-bidi.def

```

18022 \ProvidesFile{tcolorbox-xetex-bidi.def}[2017/08/15 v0.1 bidi adaptations for tcolorbox package]
18023 \let\endtcbox@lrbox=\endminipage
18024 \let\endtcbox@savebox=\endtcbox@lrbox
18025
18026 \bidi@patchcmd{\tcbox@vbox}{%
18027   \let\@footnotetext\@mpfootnotetext%
18028 }{%
18029   \let\@footnotetext\@mpfootnotetext%
18030   \let\@LTRfootnotetext\@mpLTRfootnotetext%
18031   \let\@RTLfootnotetext\@mpRTLfootnotetext%
18032 }{}{}
18033
18034 \bidi@patchcmd{\endtcbox@vbox}{%
18035   \footnoterule%
18036 }{%
18037   \bidi@mpfootnoterule%
18038 }{}{}

```

### 7.114 titlesec-xetex-bidi.def

```

18039 \ProvidesFile{titlesec-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for titlesec package]
18040 \renewcommand\filright{%
18041   \gdef\ttl@filleft##1{\hskip##1}%
18042   \gdef\ttl@filright##1{\hfill}%
18043   \let\\\@centercr
18044   \advance\rightskip\z@ \@plus 1fil
18045   \parfillskip\z@}
18046 \def\ttlh@hang#1#2#3#4#5#6#7#8{%
18047   \gdef\ttl@makeline##1{\ttl@calc\hspace{#6}##1\ttl@calc\hspace{#7}}%
18048   \setlength\leftskip{#6}%
18049   \setlength\rightskip{#7}%
18050   \interlinepenalty\@M
18051   \ttl@change@centercr
18052   \ttl@begin@longest
18053   #1{\ifhmode\ttl@hmode@error\fi
18054     \ttl@glcmds
18055     \parindent\z@
18056     \leavevmode
18057     \begin@group
18058     \ifttl@label
18059       \sbox\z@{#2\strut\ttl@calc\hspace{#3}}%
18060       \if@RTL\advance\rightskip\wd\z@\else\advance\leftskip\wd\z@\fi
18061       \llap{\box\z@}%
18062     \fi
18063     #4{#8}%
18064     \kern\z@\strut\@par

```



```

18065 \endgroup
18066 \nobreak\ttl@midlongest#5\@par}%
18067 \ttl@endlongest}

```

## 7.115 titletoc-xetex-bidi.def

```

18068 \ProvidesFile{titletoc-xetex-bidi.def}[2013/04/10 v0.2 bidi adaptations for titletoc package]
18069 \renewcommand\filright{%
18070 \gdef\ttl@filleft##1{\hskip##1}%
18071 \gdef\ttl@filright##1{\hfill}%
18072 \let\\\@centercr
18073 \advance\rightskip\z@ \@plus 1fil
18074 \parfillskip\z@}
18075 \renewcommand\contentspush[1]{%
18076 \sbox\z@{#1}%
18077 \xdef\ttl@b{\advance\if@RTL\rightskip\else\leftskip\fi\the\wd\z@}%
18078 \aftergroup\ttl@b
18079 \leavevmode\llap{\box\z@}}
18080 \def\ttl@outnoblock#1#2#3{%
18081 \begingroup
18082 \ifnum\ttl@b>\ttl@a
18083 \nobreak
18084 \else\ifnum\ttl@b<\ttl@a
18085 \addpenalty{\@secpenalty}%
18086 \else
18087 \addpenalty{\z@}%
18088 \fi\fi
18089 \ttl@contentsstretch
18090 \nobreak
18091 \ifcase#1\relax\else\interlinepenalty\@M\fi
18092 \parindent\z@
18093 \ifx\@nil#2%
18094 \PackageError{titletoc}{Unimplemented}%
18095 {The optional argument is currently mandatory}%
18096 \else
18097 \if@RTL\setlength\rightskip{#2}\else
18098 \setlength\leftskip{#2}\fi%
18099 \fi
18100 \if@RTL\setlength\leftskip{\@pnumwidth}\else\setlength\rightskip{\@pnumwidth}\fi%
18101 \let\contentsmargin\ttl@margin
18102 \def\ttl@makeline##1{##1}%
18103 #3%
18104 \addtolength{\parfillskip}{-\ttl@corr}%
18105 \if@RTL\addtolength{\leftskip}{\ttl@corr}\else\addtolength{\rightskip}{\ttl@corr}\fi%
18106 \let\ttl@leaders\leaders}
18107 \renewcommand\ttl@margin[2][\z@]{%
18108 \def\ttl@corr{#1}%
18109 \advance\if@RTL\leftskip\else\rightskip\fi-\@pnumwidth\relax
18110 \advance\if@RTL\leftskip\else\rightskip\fi#2\relax
18111 \def\@pnumwidth{#2}}

```



```

18112 \let\ttl@savel@part\l@part
18113 \def\l@part{\ttl@lselect{part}}
18114
18115 \let\ttl@savel@chapter\l@chapter
18116 \def\l@chapter{\ttl@lselect{chapter}}

```

## 7.116 tocbibind-xetex-bidi.def

```

18117 \ProvidesFile{tocbibind-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for tocbibind packag
18118 \if@dotocbib
18119   \if@packageloaded{natbib}{\% natbib not loaded
18120     \renewcommand{\bibsection}{\t@cb@bchapsec}
18121     \renewenvironment{thebibliography}[1]{%
18122       \bibsection
18123       \begin{thebibitemlist}{#1}}{\end{thebibitemlist}}
18124   \renewenvironment{thebibitemlist}[1]{
18125     \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
18126     \bidi@thebibliography@font@hook%
18127     \list{\@biblabel{\@arabic\c@enumiv}}%
18128       {\settowidth\labelwidth{\@biblabel{#1}}%
18129        \leftmargin\labelwidth
18130        \advance\leftmargin\labelsep
18131        \@openbib@code
18132        \usecounter{enumiv}%
18133        \let\p@enumiv\@empty
18134        \renewcommand\theenumiv{\@arabic\c@enumiv}}%
18135     \sloppy
18136     \clubpenalty4000
18137     \@clubpenalty \clubpenalty
18138     \widowpenalty4000%
18139     \sfcode\.\@m}
18140   {\def\@noitemerr
18141     {\@latex@warning{Empty `thebibliography' environment}}%
18142     \endlist}
18143
18144   \@ifpackagewith{chapterbib}{sectionbib}%
18145     {\renewcommand{\sectionbib}[2]{}}%
18146     {}
18147
18148 \fi
18149 \if@inltxdoc\else
18150   \renewenvironment{theindex}%
18151     {\if@twocolumn
18152       \@restonecolfalse
18153       \else
18154         \@restonecoltrue
18155       \fi
18156       \if@bibchapter
18157         \if@donumindex
18158           \refstepcounter{chapter}

```



```

18159         \twocolumn[\vspace*{2\topskip}%
18160             \@makechapterhead{\indexname}]]%
18161         \addcontentsline{toc}{chapter}{\protect\numberline{\thechapter}\indexname}
18162         \chaptermark{\indexname}
18163     \else
18164         \if@dotocind
18165             \twocolumn[\vspace*{2\topskip}%
18166                 \@makeschapterhead{\indexname}]]%
18167             \prw@mkboth{\indexname}
18168             \addcontentsline{toc}{chapter}{\indexname}
18169         \else
18170             \twocolumn[\vspace*{2\topskip}%
18171                 \@makeschapterhead{\indexname}]]%
18172             \prw@mkboth{\indexname}
18173         \fi
18174     \fi
18175 \else
18176     \if@donumindex
18177         \twocolumn[\vspace*{-1.5\topskip}%
18178             \@nameuse{\@tocextra}{\indexname}]]%
18179         \csname \@tocextra mark\endcsname{\indexname}
18180     \else
18181         \if@dotocind
18182             \twocolumn[\vspace*{-1.5\topskip}%
18183                 \toc@headstar{\@tocextra}{\indexname}]]%
18184             \prw@mkboth{\indexname}
18185             \addcontentsline{toc}{\@tocextra}{\indexname}
18186         \else
18187             \twocolumn[\vspace*{-1.5\topskip}%
18188                 \toc@headstar{\@tocextra}{\indexname}]]%
18189             \prw@mkboth{\indexname}
18190         \fi
18191     \fi
18192 \fi
18193 \thispagestyle{plain}\parindent\z@
18194 \parskip\z@ \@plus .3\p@\relax
18195 \let\item\@idxitem}
18196 {\if@restonecol\onecolumn\else\clearpage\fi}
18197 \fi

```

## 7.117 tocloft-xetex-bidi.def

```

18198 \ProvidesFile{tocloft-xetex-bidi.def}[2010/07/25 v0.2 bidi adaptations for tocloft package fo
18199 \let\cftdot\@SepMark
18200 \if@cfthaspart
18201 \renewcommand*{\l@part}[2]{
18202     \cftdopartfalse
18203     \ifnum \c@tocdepth >-2\relax
18204         \if@cfthaschapter
18205             \cftdoparttrue

```



```

18206 \fi
18207 \ifnum \c@tocdepth >\m@ne
18208 \if@cfthaschapter\else
18209 \cftdoparttrue
18210 \fi
18211 \fi
18212 \fi
18213 \if@cftdopart
18214 \if@cfthaschapter
18215 \addpenalty{-\@highpenalty}
18216 \else
18217 \addpenalty\@secpenalty
18218 \fi
18219 \addvspace{\cftbeforepartskip}
18220 \begingroup
18221 {\if@RTL\righskip\else\leftskip\fi \cftpartindent\relax
18222 \if@RTL\leftskip\else\righskip\fi \@tocrmarg
18223 \parfillskip -\if@RTL\leftskip\else\righskip\fi
18224 \parindent \cftpartindent\relax\@afterindenttrue
18225 \interlinepenalty\@M
18226 \leavevmode
18227 \@tempdima \cftpartnumwidth\relax
18228 \let\@cftbsnum \cftpartpresnum
18229 \let\@cftasnum \cftpartaftersnum
18230 \let\@cftasnumb \cftpartaftersnumb
18231 \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
18232 {\cftpartfont \cftpartpresnum #1}
18233 \cftpartfillnum{#2}}
18234 \nobreak
18235 \if@cfthaschapter
18236 \global\@nobreaktrue
18237 \everypar{\global\@nobreakfalse\everypar{}}
18238 \else
18239 \if@compatibility
18240 \global\@nobreaktrue
18241 \everypar{\global\@nobreakfalse\everypar{}}
18242 \fi
18243 \fi
18244 \endgroup
18245 \fi}
18246 \fi
18247 \if@cfthaschapter
18248 \renewcommand*{\l@chapter}[2]{
18249 \ifnum \c@tocdepth >\m@ne
18250 \addpenalty{-\@highpenalty}
18251 \vskip \cftbeforechapskip
18252 {\if@RTL\righskip\else\leftskip\fi \cftchapindent\relax
18253 \if@RTL\leftskip\else\righskip\fi \@tocrmarg
18254 \parfillskip -\if@RTL\leftskip\else\righskip\fi
18255 \parindent \cftchapindent\relax\@afterindenttrue

```



```

18256 \interlinepenalty\@M
18257 \leavevmode
18258 \@tempdima \cftchapnumwidth\relax
18259 \let\@cftbsnum \cftchappresnum
18260 \let\@cftasnum \cftchapaftersnum
18261 \let\@cftasnumb \cftchapaftersnumb
18262 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
18263 {\cftchapfont #1}\nobreak
18264 \cftchapfillnum{#2}}
18265 \fi}
18266 \fi
18267 \renewcommand*{\l@section}[2]{%
18268 \ifnum \c@tocdepth >\z@
18269 \if@cfthaschapter
18270 \vskip \cftbeforesecskip
18271 \else
18272 \addpenalty\@secpenalty
18273 \addvspace{\cftbeforesecskip}
18274 \fi
18275 {\if@RTL\rightskip\else\leftskip\fi \cftsecindent\relax
18276 \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
18277 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
18278 \parindent \cftsecindent\relax\@afterindenttrue
18279 \interlinepenalty\@M
18280 \leavevmode
18281 \@tempdima \cftsecnumwidth\relax
18282 \let\@cftbsnum \cftsecpresnum
18283 \let\@cftasnum \cftsecaftersnum
18284 \let\@cftasnumb \cftsecaftersnumb
18285 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
18286 {\cftsecfont #1}\nobreak
18287 \cftsecfillnum{#2}}
18288 \fi}
18289 \renewcommand*{\l@subsection}[2]{%
18290 \ifnum \c@tocdepth >\@ne
18291 \vskip \cftbeforesubsecskip
18292 {\if@RTL\rightskip\else\leftskip\fi \cftsubsecindent\relax
18293 \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
18294 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
18295 \parindent \cftsubsecindent\relax\@afterindenttrue
18296 \interlinepenalty\@M
18297 \leavevmode
18298 \@tempdima \cftsubsecnumwidth\relax
18299 \let\@cftbsnum \cftsubsecpresnum
18300 \let\@cftasnum \cftsubsecaftersnum
18301 \let\@cftasnumb \cftsubsecaftersnumb
18302 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
18303 {\cftsubsecfont #1}\nobreak
18304 \cftsubsecfillnum{#2}}
18305 \fi}

```





```

18306 \renewcommand*{\l@subsubsection}[2]{%
18307   \ifnum \c@tocdepth >\tw@
18308     \vskip \cftbeforesubsubsecskip
18309     {\if@RTL\rightskip\else\leftskip\fi \cftsubsubsecindent\relax
18310     \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
18311     \parfillskip -\if@RTL\leftskip\else\rightskip\fi
18312     \parindent \cftsubsubsecindent\relax\@afterindenttrue
18313     \interlinepenalty\@M
18314     \leavevmode
18315     \@tempdima \cftsubsubsecnumwidth\relax
18316     \let\@cftbsnum \cftsubsubsecpresnum
18317     \let\@cftasnum \cftsubsubsecftersnum
18318     \let\@cftasnumb \cftsubsubsecftersnumb
18319     \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
18320     {\cftsubsubsecfont #1}\nobreak
18321     \cftsubsubsecfillnum{#2}}
18322   \fi}
18323 \renewcommand*{\l@paragraph}[2]{%
18324   \ifnum \c@tocdepth >3\relax
18325     \vskip \cftbeforeparaskip
18326     {\if@RTL\rightskip\else\leftskip\fi \cftparindent\relax
18327     \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
18328     \parfillskip -\if@RTL\leftskip\else\rightskip\fi
18329     \parindent \cftparindent\relax\@afterindenttrue
18330     \interlinepenalty\@M
18331     \leavevmode
18332     \@tempdima \cftparanumwidth\relax
18333     \let\@cftbsnum \cftparapresnum
18334     \let\@cftasnum \cftparaftersnum
18335     \let\@cftasnumb \cftparaftersnumb
18336     \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
18337     {\cftparafont #1}\nobreak
18338     \cftparafillnum{#2}}
18339   \fi}
18340 \renewcommand*{\l@subparagraph}[2]{%
18341   \ifnum \c@tocdepth >4\relax
18342     \vskip \cftbeforesubparaskip
18343     {\if@RTL\rightskip\else\leftskip\fi \cftsubparindent\relax
18344     \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
18345     \parfillskip -\if@RTL\leftskip\else\rightskip\fi
18346     \parindent \cftsubparindent\relax\@afterindenttrue
18347     \interlinepenalty\@M
18348     \leavevmode
18349     \@tempdima \cftsubparanumwidth\relax
18350     \let\@cftbsnum \cftsubparapresnum
18351     \let\@cftasnum \cftsubparaftersnum
18352     \let\@cftasnumb \cftsubparaftersnumb
18353     \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
18354     {\cftsubparafont #1}\nobreak
18355     \cftsubparafillnum{#2}}

```



```

18356 \fi}
18357 \renewcommand*{\l@figure}[2]{%
18358 \ifnum \c@lofdepth >\z@
18359 \vskip \cftbeforefigskip
18360 {\if@RTL\righskip\else\leftskip\fi \cftfigindent\relax
18361 \if@RTL\leftskip\else\righskip\fi \@tocrmarg
18362 \parfillskip -\if@RTL\leftskip\else\righskip\fi
18363 \parindent \cftfigindent\relax\@afterindenttrue
18364 \interlinepenalty\@M
18365 \leavevmode
18366 \@tempdima \cftfignumwidth\relax
18367 \let\@cftbsnum \cftfigpresnum
18368 \let\@cftasnum \cftfigaftersnum
18369 \let\@cftasnumb \cftfigaftersnumb
18370 \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
18371 {\cftfigfont #1}\nobreak
18372 \cftfigfillnum{#2}}
18373 \fi
18374 }
18375 \renewcommand*{\l@table}[2]{%
18376 \ifnum\c@lotdepth >\z@
18377 \vskip \cftbeforetabskip
18378 {\if@RTL\righskip\else\leftskip\fi \cfttabindent\relax
18379 \if@RTL\leftskip\else\righskip\fi \@tocrmarg
18380 \parfillskip -\if@RTL\leftskip\else\righskip\fi
18381 \parindent \cfttabindent\relax\@afterindenttrue
18382 \interlinepenalty\@M
18383 \leavevmode
18384 \@tempdima \cfttabnumwidth\relax
18385 \let\@cftbsnum \cfttabpresnum
18386 \let\@cftasnum \cfttabaftersnum
18387 \let\@cftasnumb \cfttabaftersnumb
18388 \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
18389 {\cfttabfont #1}\nobreak
18390 \cfttabfillnum{#2}}
18391 \fi
18392 }
18393 \renewcommand{\@cftl@subfig}{
18394 \renewcommand*{\l@subfigure}[2]{%
18395 \ifnum \c@lofdepth > \toclevel@subfigure
18396 \vskip \cftbeforesubfigskip
18397 {\if@RTL\righskip\else\leftskip\fi \cftsubfigindent\relax
18398 \if@RTL\leftskip\else\righskip\fi \@tocrmarg
18399 \parfillskip -\if@RTL\leftskip\else\righskip\fi
18400 \parindent \cftsubfigindent\relax\@afterindenttrue
18401 \interlinepenalty\@M
18402 \leavevmode
18403 \@tempdima \cftsubfignumwidth\relax
18404 \let\@cftbsnum \cftsubfigpresnum
18405 \let\@cftasnum \cftsubfigaftersnum

```



```

18406 \let\@cftasnumb \cftsubfigaftersnumb
18407 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
18408 {\cftsubfigfont ##1}\nobreak
18409 \cftsubfigfillnum{##2}}
18410 \fi
18411 }
18412 }
18413 \renewcommand{\@cftl@subtab}{
18414 \renewcommand*{\l@subtable}[2]{%
18415 \ifnum \c@lotdepth > \toclevel@subtable
18416 \vskip \cftbeforesubtabskip
18417 {\if@RTL\rightskip\else\leftskip\fi \cftsubtabindent\relax
18418 \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
18419 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
18420 \parindent \cftsubtabindent\relax\@afterindenttrue
18421 \interlinepenalty\@M
18422 \leavevmode
18423 \@tempdima \cftsubtabnumwidth\relax
18424 \let\@cftbsnum \cftsubtabpresnum
18425 \let\@cftasnum \cftsubtabaftersnum
18426 \let\@cftasnumb \cftsubtabaftersnumb
18427 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
18428 {\cftsubtabfont ##1}\nobreak
18429 \cftsubtabfillnum{##2}}
18430 \fi
18431 }
18432 }
18433 \renewcommand{\newlistentry}[4][\@empty]{%
18434 \@ifundefined{c@#2}{% check & set the counter
18435 \ifx \@empty#1\relax
18436 \newcounter{#2}
18437 \else
18438 \@ifundefined{c@#1}{\PackageWarning{tocloft}%
18439 {#1 has no counter for use as a `within'}
18440 \newcounter{#2}}%
18441 {\newcounter{#2}[#1]%
18442 \expandafter\edef\csname the#2\endcsname{%
18443 \expandafter\noexpand\csname the#1\endcsname\@SepMark\noexpand\arabic{#2}}}
18444 \fi
18445 \setcounter{#2}{0}
18446 }
18447 {\PackageError{tocloft}{#2 has been previously defined}{\@eha}}
18448
18449 \@namedef{l@#2}##1##2{%
18450 \ifnum \@nameuse{c@#3depth} > #4\relax
18451 \vskip \@nameuse{cftbefore#2skip}
18452 {\if@RTL\rightskip\else\leftskip\fi \@nameuse{cft#2indent}\relax
18453 \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
18454 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
18455 \parindent \@nameuse{cft#2indent}\relax\@afterindenttrue

```



```

18456 \interlinepenalty\@M
18457 \leavevmode
18458 \@tempdima \@nameuse{cft#2numwidth}\relax
18459 \expandafter\let\expandafter\@cftbsnum\csname cft#2presnum\endcsname
18460 \expandafter\let\expandafter\@cftasnum\csname cft#2aftersnum\endcsname
18461 \expandafter\let\expandafter\@cftasnumb\csname cft#2aftersnumb\endcsname
18462 \advance\if@RTL\righskip\else\leftskip\fi\@tempdima \null\nobreak\hskip -\if@RTL\righ
18463 {\@nameuse{cft#2font}##1}\nobreak
18464 \@nameuse{cft#2fillnum}{##2}}
18465 \fi
18466 } % end of \l@#2
18467
18468 \expandafter\newlength\csname cftbefore#2skip\endcsname
18469 \setlength{\@nameuse{cftbefore#2skip}}{\z@ \@plus .2\p@}
18470 \expandafter\newlength\csname cft#2indent\endcsname
18471 \expandafter\newlength\csname cft#2numwidth\endcsname
18472 \ifcase #4\relax % 0
18473 \setlength{\@nameuse{cft#2indent}}{0em}
18474 \setlength{\@nameuse{cft#2numwidth}}{1.5em}
18475 \or % 1
18476 \setlength{\@nameuse{cft#2indent}}{1.5em}
18477 \setlength{\@nameuse{cft#2numwidth}}{2.3em}
18478 \or % 2
18479 \setlength{\@nameuse{cft#2indent}}{3.8em}
18480 \setlength{\@nameuse{cft#2numwidth}}{3.2em}
18481 \or % 3
18482 \setlength{\@nameuse{cft#2indent}}{7.0em}
18483 \setlength{\@nameuse{cft#2numwidth}}{4.1em}
18484 \else % anything else
18485 \setlength{\@nameuse{cft#2indent}}{10.0em}
18486 \setlength{\@nameuse{cft#2numwidth}}{5.0em}
18487 \fi
18488 \@namedef{cft#2font}{\normalfont}
18489 \@namedef{cft#2presnum}{\}
18490 \@namedef{cft#2aftersnum}{\}
18491 \@namedef{cft#2aftersnumb}{\}
18492 \@namedef{cft#2dotsep}{\cftdotsep}
18493 \@namedef{cft#2leader}{\normalfont\cftdotfill{\@nameuse{cft#2dotsep}}}
18494 \@namedef{cft#2pagefont}{\normalfont}
18495 \@namedef{cft#2afterpnum}{\}
18496 \@namedef{toclevel@#2}{#4}
18497 \@namedef{cft#2fillnum}##1{%
18498 {\@nameuse{cft#2leader}}\nobreak
18499 \hb@xt@\@pnumwidth{\hfil\@nameuse{cft#2pagefont}##1}\@nameuse{cft#2afterpnum}\par}
18500 } % end \newlistentry
18501 \renewcommand{\cftchapterprecistoc}[1]{\addtocontents{toc}{%
18502 {\if@RTL\righskip\else\leftskip\fi \cftchapindent\relax
18503 \advance\if@RTL\righskip\else\leftskip\fi \cftchapnumwidth\relax
18504 \if@RTL\leftskip\else\righskip\fi \@tocrmarg\relax
18505 \textit{#1}\protect\par}}}

```



## 7.118 tocbasic-xetex-bidi.def

```

18506 \ProvidesFile{tobasic-xetex-bidi.def}[2016/09/14 v0.2 bidi adaptations for tocbasic package
18507 \bidi@undef\scr@dte@def@l@undottedtocline
18508 \bidi@undef\scr@dte@undottedtocline@init
18509 \DeclareTOCEntryStyle{undottedtocline}{{%
18510   \DefineTOCEntryLengthOption{indent}{%
18511     {scr@tso@}{@indent}{entry indent}%
18512   \DefineTOCEntryLengthOption{numwidth}{%
18513     {scr@tso@}{@numwidth}{entry number width}%
18514   \@ifundefined{#1tocdepth}{%
18515     \ifstr{#1}{part}{\@namedef{#1tocdepth}{-1}}{%
18516       \ifstr{#1}{chapter}{\@namedef{#1tocdepth}{0}}{%
18517         \ifstr{#1}{section}{\@namedef{#1tocdepth}{1}}{%
18518           \ifstr{#1}{subsection}{\@namedef{#1tocdepth}{2}}{%
18519             \ifstr{#1}{subsubsection}{\@namedef{#1tocdepth}{3}}{%
18520               \ifstr{#1}{paragraph}{\@namedef{#1tocdepth}{4}}{%
18521                 \ifstr{#1}{subparagraph}{\@namedef{#1tocdepth}{5}}{%
18522                   \ifstr{#1}{figure}{\@namedef{#1tocdepth}{1}}{%
18523                     \ifstr{#1}{table}{\@namedef{#1tocdepth}{1}}{%
18524                       \expandafter\let\csname #1tocdepth\expandafter\endcsname
18525                         \csname #1numdepth\endcsname
18526                     }%
18527                   }%
18528                 }%
18529               }%
18530             }%
18531           }%
18532         }%
18533       }%
18534     }%
18535   }{%
18536   \@ifundefined{scr@tso@#1@indent}{%
18537     \@ifundefined{scr@#1@tocindent}{%
18538       \ifstr{#1}{figure}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
18539         \ifstr{#1}{table}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
18540           \ifstr{#1}{part}{\@namedef{scr@tso@#1@indent}{0em}}{%
18541             \ifstr{#1}{chapter}{\@namedef{scr@tso@#1@indent}{0em}}{%
18542               \scr@ifundefinedorrelax{l@chapter}{%
18543                 \ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{0pt}}{%
18544                   \ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
18545                     \ifstr{#1}{subsubsection}{%
18546                       \@namedef{scr@tso@#1@indent}{3.8em}%
18547                     }%
18548                   \ifstr{#1}{paragraph}{%
18549                     \@namedef{scr@tso@#1@indent}{7em}%
18550                   }%
18551                 \ifstr{#1}{subparagraph}{%
18552                   \@namedef{scr@tso@#1@indent}{10em}%
18553                 }%

```



```

18554         }%
18555     }%
18556 }%
18557 }%
18558 }%
18559 }{%
18560     \ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
18561         \ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{3.8em}}{%
18562             \ifstr{#1}{subsubsection}{%
18563                 \@namedef{scr@tso@#1@indent}{7.0em}%
18564             }{%
18565                 \ifstr{#1}{paragraph}{%
18566                     \@namedef{scr@tso@#1@indent}{10em}%
18567                 }{%
18568                     \ifstr{#1}{subparagraph}{%
18569                         \@namedef{scr@tso@#1@indent}{12em}%
18570                     }{%
18571                         }%
18572                     }%
18573                 }%
18574             }%
18575         }%
18576     }%
18577 }%
18578 }%
18579 }%
18580 }%
18581 }{%
18582     \@namedef{scr@tso@#1@indent}{\@nameuse{scr@#1@tocindent}}%
18583 }%
18584 }{%}%
18585 \@ifundefined{scr@tso@#1@numwidth}{%
18586     \@ifundefined{scr@#1@tocnumwidth}{%
18587         \ifstr{#1}{figure}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
18588             \ifstr{#1}{table}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
18589                 \ifstr{#1}{chapter}{\@namedef{scr@tso@#1@numwidth}{1.5em}}{%
18590                     \scr@ifundefinedorrelax{chapter}{%
18591                         \ifstr{#1}{section}{\@namedef{scr@tso@#1@numwidth}{1.5em}}{%
18592                             \ifstr{#1}{subsection}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
18593                                 \ifstr{#1}{subsubsection}{%
18594                                     \@namedef{scr@tso@#1@numwidth}{3.2em}%
18595                                 }{%
18596                                     \ifstr{#1}{paragraph}{%
18597                                         \@namedef{scr@tso@#1@numwidth}{4.1em}%
18598                                     }{%
18599                                         \ifstr{#1}{subparagraph}{%
18600                                             \@namedef{scr@tso@#1@numwidth}{5m}%
18601                                         }{%
18602                                             }%
18603                                         }%

```



```

18604         }%
18605     }%
18606 }%
18607 }{%
18608     \ifstr{#1}{section}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
18609         \ifstr{#1}{subsection}{\@namedef{scr@tso@#1@numwidth}{3.2em}}{%
18610             \ifstr{#1}{subsubsection}{%
18611                 \@namedef{scr@tso@#1@numwidth}{3.1em}%
18612             }{%
18613                 \ifstr{#1}{paragraph}{%
18614                     \@namedef{scr@tso@#1@numwidth}{5em}%
18615                 }{%
18616                     \ifstr{#1}{subparagraph}{%
18617                         \@namedef{scr@tso@#1@numwidth}{6em}%
18618                     }{%
18619                         }%
18620                     }%
18621                 }%
18622             }%
18623         }%
18624     }%
18625 }%
18626 }%
18627 }%
18628 }{%
18629     \@namedef{scr@tso@#1@numwidth}{\@nameuse{scr@#1@tocnumwidth}}%
18630 }%
18631 }{%
18632 }}{%
18633     \ifnum \c@tocdepth >\numexpr \@nameuse{#1tocdepth}-\@ne\relax
18634         \ifnum \@nameuse{#1tocdepth}<\@ne
18635             \scr@ifundefinedorrelax{chapter}{%
18636                 \addpenalty\@secpenalty
18637                 \addvspace{1.0em \@plus\p@}%
18638             }{%
18639                 \addpenalty{-\@highpenalty}%
18640                 \vskip 1.0em \@plus\p@
18641             }%
18642         \else
18643             \addpenalty\@secpenalty
18644             \addvspace{1.0em \@plus\p@}%
18645         \fi
18646         \setlength\@tempdima{\@nameuse{scr@tso@#1@numwidth}}%
18647         \begingroup
18648             \parindent \z@ \bidi@rightskip \@pnumwidth
18649             \parfillskip -\@pnumwidth
18650             \leavevmode
18651             \bfseries
18652             \advance\bidi@leftskip\@tempdima
18653             \advance\bidi@leftskip\@nameuse{scr@tso@#1@indent}%

```



```

18654      \hskip -\dimexpr \bidi@leftskip-\@nameuse{scr@tso@#1@indent}\relax
18655      ##1%
18656      \nobreak
18657      \hfil \nobreak\hb@xt@\@pnumwidth{\hss ##2}%
18658      \par
18659      \penalty\@highpenalty
18660      \endgroup
18661      \fi
18662  }
18663
18664  \bidi@undef\scr@dte@def@l@largetocline
18665  \bidi@undef\scr@dte@largetocline@init
18666  \DeclareTOCEntryStyle{largetocline}[{%
18667      \DefineTOCEntryLengthOption{indent}%
18668      {scr@tso@}{\@indent}{entry indent}%
18669      \@ifundefined{#1tocdepth}{%
18670          \ifstr{#1}{part}{\@namedef{#1tocdepth}{-1}}{%
18671              \ifstr{#1}{chapter}{\@namedef{#1tocdepth}{0}}{%
18672                  \ifstr{#1}{section}{\@namedef{#1tocdepth}{1}}{%
18673                      \ifstr{#1}{subsection}{\@namedef{#1tocdepth}{2}}{%
18674                          \ifstr{#1}{subsubsection}{\@namedef{#1tocdepth}{3}}{%
18675                              \ifstr{#1}{paragraph}{\@namedef{#1tocdepth}{4}}{%
18676                                  \ifstr{#1}{subparagraph}{\@namedef{#1tocdepth}{5}}{%
18677                                      \ifstr{#1}{figure}{\@namedef{#1tocdepth}{1}}{%
18678                                          \ifstr{#1}{table}{\@namedef{#1tocdepth}{1}}{%
18679                                              \expandafter\let\csname #1tocdepth\expandafter\endcsname
18680                                                  \csname #1numdepth\endcsname
18681                                              }%
18682                                          }%
18683                                      }%
18684                                  }%
18685                              }%
18686                          }%
18687                      }%
18688                  }%
18689              }%
18690          }{%
18691              \@ifundefined{scr@tso@#1@indent}{%
18692                  \@ifundefined{scr@#1@tocindent}{%
18693                      \ifstr{#1}{figure}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
18694                          \ifstr{#1}{table}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
18695                              \ifstr{#1}{part}{\@namedef{scr@tso@#1@indent}{0em}}{%
18696                                  \ifstr{#1}{chapter}{\@namedef{scr@tso@#1@indent}{0em}}{%
18697                                      \scr@ifundefinedorrelax{l@chapter}{%
18698                                          \ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{0pt}}{%
18699                                              \ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
18700                                                  \ifstr{#1}{subsubsection}{%
18701                                                      \@namedef{scr@tso@#1@indent}{3.8em}%
18702                                                  }{%
18703                                                      \ifstr{#1}{paragraph}{%

```





```

18704         \@namedef{scr@tso@#1@indent}{7em}%
18705     }{%
18706         \ifstr{#1}{subparagraph}{%
18707             \@namedef{scr@tso@#1@indent}{10em}%
18708         }{%
18709             }%
18710         }%
18711     }%
18712 }%
18713 }%
18714 }{%
18715     \ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
18716         \ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{3.8em}}{%
18717             \ifstr{#1}{subsubsection}{%
18718                 \@namedef{scr@tso@#1@indent}{7.0em}%
18719             }{%
18720                 \ifstr{#1}{paragraph}{%
18721                     \@namedef{scr@tso@#1@indent}{10em}%
18722                 }{%
18723                     \ifstr{#1}{subparagraph}{%
18724                         \@namedef{scr@tso@#1@indent}{12em}%
18725                     }{%
18726                         }%
18727                     }%
18728                 }%
18729             }%
18730         }%
18731     }%
18732 }%
18733 }%
18734 }%
18735 }%
18736 }{%
18737     \@namedef{scr@tso@#1@indent}{\@nameuse{scr@#1@tocindent}}%
18738 }%
18739 }{}%
18740 }]{%
18741     \ifnum \c@tocdepth >\numexpr \@nameuse{#1tocdepth}-\@ne\relax
18742     \ifnum \@nameuse{#1tocdepth}<\@ne
18743         \scr@ifundefinedorrelax{chapter}{%
18744             \addpenalty\@secpenalty
18745             \addvspace{2.25em \@plus\p@}%
18746         }{%
18747             \addpenalty{-\@highpenalty}%
18748             \addvspace{2.25em \@plus\p@}%
18749         }%
18750     \else
18751         \addpenalty\@secpenalty
18752         \addvspace{2.25em \@plus\p@}%
18753     \fi

```



```

18754 \setlength\@tempdima{3em}%
18755 \begingroup
18756 \parindent \z@ \bidi@rightskip \@pnumwidth
18757 \parfillskip -\@pnumwidth
18758 \leavevmode
18759 \large
18760 \bfseries
18761 \advance\bidi@leftskip\@nameuse{scr@tso@#1@indent}%
18762 ##1%
18763 \hfil \nobreak\hb@xt@\@pnumwidth{\hss ##2}%
18764 \par
18765 \nobreak
18766 \ifnum 0=
18767 \scr@ifundefinedorrelax{chapter}{\if@compatibility 1\else 0\fi}{1}\relax
18768 \global\@nobreaktrue
18769 \everypar{\global\@nobreakfalse\everypar{}}%
18770 \fi
18771 \endgroup
18772 \fi
18773 }
18774
18775 \renewcommand*{\scr@dte@tocline}[3]{%
18776 \ifnum \@nameuse{#1tocdepth}>\c@tocdepth
18777 \else
18778 \tocbasic@DependOnPenaltyAndTOCLevel{#1}%
18779 \addvspace{\@nameuse{scr@tso@#1@beforeskip}}\relax
18780 {%
18781 \bidi@leftskip \@nameuse{scr@tso@#1@indent}\relax
18782 \bidi@rightskip \@tocrmarg
18783 \parfillskip -\bidi@rightskip
18784 \@nameuse{Ifscr@tso@#1@raggedpage}{%
18785 \addtolength{\parfillskip}{\z@ \@plus 1fil}%
18786 }{}%
18787 \parindent \@nameuse{scr@tso@#1@indent}\relax
18788 \@afterindenttrue
18789 \interlinepenalty\@M
18790 \expandafter\ifx\csname ragged#1entry\endcsname\raggedright
18791 \addtolength\bidi@rightskip\@flushglue
18792 \else
18793 \def\reserved@a{\raggedright}%
18794 \expandafter\ifx\csname ragged#1entry\endcsname\reserved@a
18795 \addtolength\bidi@rightskip\@flushglue
18796 \else
18797 \renewcommand\reserved@a{\raggedright}%
18798 \expandafter\ifx\csname ragged#1entry\endcsname\reserved@a
18799 \addtolength\bidi@rightskip\@flushglue
18800 \fi
18801 \fi
18802 \fi
18803 \leavevmode

```



```

18804 \@tempdima \@nameuse{scr@tso@#1@numwidth}\relax
18805 \@nameuse{Ifscr@tso@#1@dynnumwidth}{}%
18806 \scr@ifundefinedorrelax{scr@dte@#1@lastmaxnumwidth}{}{}%
18807 \ifdim \@nameuse{scr@dte@#1@lastmaxnumwidth}>\@tempdima
18808 \@tempdima\@nameuse{scr@dte@#1@lastmaxnumwidth}\relax
18809 \fi
18810 }%
18811 }{}%
18812 \advance\bidileftskip \@tempdima
18813 \null\nobreak\hskip -\bidileftskip
18814 {%
18815 \usetocbasicnumberline
18816 \let\scr@dte@numberline@box\numberline@box
18817 \def\numberline@box#1{%
18818 \sbox\scr@dte@tocline@numbox{\@nameuse{scr@tso@#1@numberformat}{##1}}%
18819 \global\scr@dte@tocline@numberwidth
18820 \dimexpr\wd\scr@dte@tocline@numbox+\@nameuse{scr@tso@#1@numsep}\relax
18821 \ifdim \scr@dte@tocline@numberwidth
18822 >\@nameuse{scr@dte@#1@maxnumwidth}\relax
18823 \global\@nameuse{scr@dte@#1@maxnumwidth}\scr@dte@tocline@numberwidth
18824 \fi
18825 \@nameuse{Ifscr@tso@#1@dynnumwidth}{}{}%
18826 \ifdim \scr@dte@tocline@numberwidth
18827 >\dimexpr \@nameuse{scr@tso@#1@numwidth}%
18828 +\@nameuse{scr@tso@#1@numsep}\relax
18829 \PackageWarning{tocbasic}%
18830 }{%
18831 number width of #1 toc entries should be
18832 increased!\MessageBreak
18833 Currently used number width =
18834 \the\wd\scr@dte@tocline@numbox,\MessageBreak
18835 Wanted number separation
18836 \space\space\space =
18837 \the\dimexpr\@nameuse{scr@tso@#1@numsep}\relax,\MessageBreak
18838 Reserved number width \space\space\space\space\space\space =
18839 \the\dimexpr\@nameuse{scr@tso@#1@numwidth}\relax%
18840 }%
18841 \fi
18842 }%
18843 \scr@dte@numberline@box{\@nameuse{scr@tso@#1@numberformat}{##1}}%
18844 \@nameuse{Ifscr@tso@#1@breakafternumber}{}%
18845 {\parfillskip\@flushglue\par}\nobreak\hskip-\bidileftskip
18846 }{}%
18847 }%
18848 \@nameuse{scr@tso@#1@entryformat}{}%
18849 #2%
18850 \nobreak
18851 {%
18852 \normalfont\normalsize\@nameuse{scr@tso@#1@linefill}%
18853 \nobreak

```



```

18854         \@nameuse{scr@tso@#1@pagenumberbox}{%
18855             \@nameuse{scr@tso@#1@pagenumberformat}{#3}%
18856         }%
18857     }%
18858     \@par
18859 }%
18860 }%
18861 }%
18862 \tocbasic@SetPenaltyByTOCLevel{#1}%
18863 \fi
18864 }
18865
18866 \bidi@undef\scr@dte@def@l@tocline
18867 \bidi@undef\scr@dte@tocline@init
18868 \DeclareTOCEntryStyle{tocline}{[%
18869     \DefineTOCEntryLengthOption{beforeskip}%
18870     {scr@tso@}{@beforeskip}{vertical skip before the entry}%
18871     \DefineTOCEntryIfOption{breakafternumber}%
18872     {scr@tso@}{@breakafternumber}{line break after number flag}%
18873     \DefineTOCEntryIfOption{dynnumwidth}%
18874     {scr@tso@}{@dynnumwidth}{dynamic number width flag}%
18875     \DefineTOCEntryCommandOption{entryformat}%
18876     {scr@tso@}{@entryformat}[1]{entry format}%
18877     \DefineTOCEntryCommandOption{entrynumberformat}%
18878     {scr@tso@}{@numberformat}[1]{entry number format}%
18879     \DefineTOCEntryCommandOption{linefill}[\TOCLineLeaderFill]%
18880     {scr@tso@}{@linefill}{filling between text and page number}%
18881     \DefineTOCEntryLengthOption{numsep}%
18882     {scr@tso@}{@numsep}{entry number separation}%
18883     \DefineTOCEntryCommandOption{onstarthigherlevel}%
18884     {scr@tso@}{@LastTOCLevelWasLower}{start higher level entry hook}%
18885     \DefineTOCEntryCommandOption{onstartlowerlevel}%
18886     {scr@tso@}{@LastTOCLevelWasHigher}{start lower level entry hook}%
18887     \DefineTOCEntryCommandOption{onstartsamelevel}%
18888     {scr@tso@}{@LastTOCLevelWasSame}{start same level entry hook}%
18889     \DefineTOCEntryCommandOption{pagenumberbox}%
18890     {scr@tso@}{@pagenumberbox}[1]{page number box}%
18891     \DefineTOCEntryCommandOption{pagenumberformat}%
18892     {scr@tso@}{@pagenumberformat}[1]{page number format}%
18893     \DefineTOCEntryOption{raggedentrytext}[true]{%
18894         \FamilySetBool{KOMAarg}{raggedentrytext}{@tempswa}{##1}%
18895         \ifx\FamilyKeyState\FamilyKeyStateProcessed
18896             \if@tempswa
18897                 \expandafter\let\csname ragged\scr@dte@current entry\endcsname
18898                 \raggedright
18899             \else
18900                 \expandafter\let\csname ragged\scr@dte@current entry\endcsname
18901                 \relax
18902             \fi
18903         \fi

```



```

18904 }%
18905 \DefineTOCEntryIfOption{raggedpagenumber}%
18906   {scr@tso@}{@raggedpage}{page number ragged flag}%
18907 \DefineTOCEntryLengthOption{indent}%
18908   {scr@tso@}{@indent}{entry indent}%
18909 \DefineTOCEntryLengthOption{numwidth}%
18910   {scr@tso@}{@numwidth}{entry number width}%
18911 \scr@ifundefinedorrelax{#1tocdepth}{%
18912   \ifstrstart{#1}{sub}{%
18913     \scr@ifundefinedorrelax{\scr@dte@nosub{#1}tocdepth}{-%
18914       \expandafter\edef\csname #1tocdepth\endcsname{%
18915         \the\numexpr \noexpand\@nameuse{\scr@dte@nosub{#1}tocdepth}+\@ne\relax
18916       }%
18917     }%
18918   }{}%
18919 }{}%
18920 \@ifundefined{#1tocdepth}{%
18921   \ifstr{#1}{part}{\@namedef{#1tocdepth}{-1}}{%
18922     \ifstr{#1}{chapter}{\@namedef{#1tocdepth}{0}}{%
18923       \ifstr{#1}{section}{\@namedef{#1tocdepth}{1}}{%
18924         \ifstr{#1}{subsection}{\@namedef{#1tocdepth}{2}}{%
18925           \ifstr{#1}{subsubsection}{\@namedef{#1tocdepth}{3}}{%
18926             \ifstr{#1}{paragraph}{\@namedef{#1tocdepth}{4}}{%
18927               \ifstr{#1}{subparagraph}{\@namedef{#1tocdepth}{5}}{%
18928                 \ifstr{#1}{figure}{\@namedef{#1tocdepth}{1}}{%
18929                   \ifstr{#1}{table}{\@namedef{#1tocdepth}{1}}{%
18930                     \expandafter\let\csname #1tocdepth\expandafter\endcsname
18931                     \csname #1numdepth\endcsname
18932                   }%
18933                 }%
18934               }%
18935             }%
18936           }%
18937         }%
18938       }%
18939     }%
18940   }{}%
18941 }{}%
18942 \scr@ifundefinedorrelax{scr@tso@#1@indent}{%
18943   \@ifundefined{scr@#1@tocindent}{%
18944     \ifstrstart{#1}{sub}{%
18945       \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@indent}{%
18946         \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@numwidth}{-%
18947           \expandafter\edef\csname scr@tso@#1@indent\endcsname{%
18948             \glueexpr \noexpand\@nameuse{scr@tso@\scr@dte@nosub{#1}@numwidth}%
18949             \relax
18950           }%
18951         }%
18952       }{}%
18953     }%

```



```

18954         \expandafter\edef\csname scr@tso@#1@indent\endcsname{%
18955             \glueexpr \noexpand\@nameuse{scr@tso@\scr@dte@nosub{#1}@indent}%
18956             \relax
18957         }%
18958     }{%
18959         \expandafter\edef\csname scr@tso@#1@indent\endcsname{%
18960             \glueexpr \noexpand\@nameuse{scr@tso@\scr@dte@nosub{#1}@indent}%
18961             +\noexpand\@nameuse{scr@tso@\scr@dte@nosub{#1}@numwidth}%
18962             \relax
18963         }%
18964     }%
18965 }%
18966 }{}%
18967 }{%
18968     \@namedef{scr@tso@#1@indent}{\@nameuse{scr@#1@tocindent}}%
18969 }%
18970 }{}%
18971 \@ifundefined{scr@tso@#1@indent}{%
18972     \ifstr{#1}{figure}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
18973     \ifstr{#1}{table}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
18974     \ifstr{#1}{part}{\@namedef{scr@tso@#1@indent}{0em}}{%
18975     \ifstr{#1}{chapter}{\@namedef{scr@tso@#1@indent}{0em}}{%
18976     \scr@ifundefinedorrelax{1}{chapter}{%
18977     \ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{0pt}}{%
18978     \ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
18979     \ifstr{#1}{subsubsection}{%
18980     \@namedef{scr@tso@#1@indent}{3.8em}%
18981     }{%
18982     \ifstr{#1}{paragraph}{%
18983     \@namedef{scr@tso@#1@indent}{7em}%
18984     }{%
18985     \ifstr{#1}{subparagraph}{%
18986     \@namedef{scr@tso@#1@indent}{10em}%
18987     }{%
18988     }%
18989     }%
18990     }%
18991     }%
18992     }%
18993 }{%
18994     \ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
18995     \ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{3.8em}}{%
18996     \ifstr{#1}{subsubsection}{%
18997     \@namedef{scr@tso@#1@indent}{7.0em}%
18998     }{%
18999     \ifstr{#1}{paragraph}{%
19000     \@namedef{scr@tso@#1@indent}{10em}%
19001     }{%
19002     \ifstr{#1}{subparagraph}{%
19003     \@namedef{scr@tso@#1@indent}{12em}%

```



```

19004         }{%
19005     }%
19006 }%
19007 }%
19008 }%
19009 }%
19010 }%
19011 }%
19012 }%
19013 }%
19014 }%
19015 }{%%
19016 \scr@ifundefinedorrelax{scr@tso@#1@numwidth}{%
19017     \scr@ifundefinedorrelax{scr@#1@tocnumwidth}{%
19018         \ifstrstart{#1}{sub}{%
19019             \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@numwidth}{-}{%
19020                 \expandafter\edef\csname scr@tso@#1@numwidth\endcsname{%
19021                     \glueexpr \noexpand\@nameuse{scr@tso@\scr@dte@nosub{#1}@numwidth}%
19022                         +.9em%
19023                 \relax
19024             }%
19025         }%
19026     }{%%
19027         \@namedef{scr@tso@#1@numwidth}{\@nameuse{scr@#1@tocnumwidth}}%
19028     }%
19029 }{%%
19030 \@ifundefined{scr@tso@#1@numwidth}{%
19031     \ifstr{#1}{figure}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
19032     \ifstr{#1}{table}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
19033     \ifstr{#1}{chapter}{\@namedef{scr@tso@#1@numwidth}{1.5em}}{%
19034     \scr@ifundefinedorrelax{chapter}{%
19035     \ifstr{#1}{section}{\@namedef{scr@tso@#1@numwidth}{1.5em}}{%
19036     \ifstr{#1}{subsection}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
19037     \ifstr{#1}{subsubsection}{%
19038     \@namedef{scr@tso@#1@numwidth}{3.2em}%
19039     }{%
19040     \ifstr{#1}{paragraph}{%
19041     \@namedef{scr@tso@#1@numwidth}{4.1em}%
19042     }{%
19043     \ifstr{#1}{subparagraph}{%
19044     \@namedef{scr@tso@#1@numwidth}{5m}%
19045     }{%
19046     }%
19047     }%
19048     }%
19049     }%
19050     }%
19051     }%
19052 }{%
19053     \ifstr{#1}{section}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%

```



```

19054         \ifstr{#1}{subsection}{\@namedef{scr@tso@#1@numwidth}{3.2em}}{%
19055         \ifstr{#1}{subsubsection}{%
19056         \@namedef{scr@tso@#1@numwidth}{3.1em}%
19057         }{%
19058         \ifstr{#1}{paragraph}{%
19059         \@namedef{scr@tso@#1@numwidth}{5em}%
19060         }{%
19061         \ifstr{#1}{subparagraph}{%
19062         \@namedef{scr@tso@#1@numwidth}{6em}%
19063         }{%
19064         }%
19065         }%
19066         }%
19067         }%
19068         }%
19069         }%
19070         }%
19071         }%
19072         }%
19073     }{}%
19074     \expandafter\renewcommand%
19075     \csname scr@tso@#1@LastTOCLevelWasLower\endcsname{\LastTOCLevelWasLower}%
19076     \expandafter\renewcommand%
19077     \csname scr@tso@#1@LastTOCLevelWasSame\endcsname{\LastTOCLevelWasSame}%
19078     \expandafter\renewcommand%
19079     \csname scr@tso@#1@LastTOCLevelWasHigher\endcsname{\LastTOCLevelWasHigher}%
19080     \ifundefined{scr@tso@#1@beforeskip}{%
19081         \ifstr{#1}{part}{%
19082             \@namedef{scr@tso@#1@beforeskip}{\glueexpr 2.25em \@plus\p@\relax}%
19083         }{%
19084             \ifstr{#1}{chapter}{%
19085                 \@namedef{scr@tso@#1@beforeskip}{\glueexpr 1.0em \@plus\p@\relax}%
19086             }{%
19087                 \ifstr{#1}{section}{%
19088                     \scr@ifundefinedorrelax{l@chapter}{%
19089                         \@namedef{scr@tso@#1@beforeskip}{\glueexpr 1.0em \@plus\p@\relax}%
19090                     }{}%
19091                 }{}%
19092             }%
19093         }%
19094         \expandafter\renewcommand\expandafter*%
19095         \csname scr@tso@#1@beforeskip\endcsname{\glueexpr \z@ plus .2\p@\relax}%
19096     }{}%
19097     \ifundefined{scr@dte@#1@maxnumwidth}{%
19098         \expandafter\newlength\csname scr@dte@#1@maxnumwidth\endcsname
19099         \setlength{\@nameuse{scr@dte@#1@maxnumwidth}}{\z@}%
19100     }{}%
19101     \renewcommand*{\scr@dte@donumwidth}{}%
19102     \g@addto@macro{\scr@dte@donumwidth}{\do{#1}}%
19103     \expandafter\renewcommand\expandafter*%

```





```

19104 \csname scr@tso@#1@numsep\endcsname{.4em}%
19105 \expandafter\renewcommand%
19106 \csname scr@tso@#1@numberformat\endcsname[1]{##1}%
19107 \ifstr{#1}{part}{%
19108   \expandafter\renewcommand%
19109   \csname scr@tso@#1@entryformat\endcsname[1]{\large\bfseries ##1}%
19110 }{%
19111   \ifstr{#1}{chapter}{%
19112     \expandafter\renewcommand%
19113     \csname scr@tso@#1@entryformat\endcsname[1]{\bfseries ##1}%
19114   }{%
19115     \scr@ifundefinedorrelax{1@chapter}{%
19116       \ifstr{#1}{section}{%
19117         \expandafter\renewcommand%
19118         \csname scr@tso@#1@entryformat\endcsname[1]{\bfseries ##1}%
19119       }{}%
19120     }{}%
19121     \expandafter\renewcommand%
19122     \csname scr@tso@#1@entryformat\endcsname[1]{##1}%
19123   }%
19124 }%
19125 \expandafter\renewcommand
19126 \csname Ifscr@tso@#1@breakafternumber\endcsname[2]{##2}%
19127 \@ifundefined{scr@tso@#1@linefill}{%
19128   \ifstr{#1}{part}{%
19129     \@namedef{scr@tso@#1@linefill}{\hfill}%
19130   }{%
19131     \ifstr{#1}{chapter}{%
19132       \@namedef{scr@tso@#1@linefill}{\hfill}%
19133     }{%
19134       \scr@ifundefinedorrelax{1@chapter}{%
19135         \ifstr{#1}{section}{%
19136           \@namedef{scr@tso@#1@linefill}{\hfill}%
19137         }{}
19138       }{}
19139       \expandafter\renewcommand%
19140       \csname scr@tso@#1@linefill\endcsname{\TOCLineLeaderFill\relax}%
19141     }%
19142   }%
19143 }{}%
19144 \expandafter\renewcommand\csname Ifscr@tso@#1@raggedpage\endcsname[2]{##2}%
19145 \ifstr{#1}{part}{%
19146   \expandafter\renewcommand%
19147   \csname scr@tso@#1@pagenumberformat\endcsname[1]{\large\bfseries ##1}%
19148 }{%
19149   \expandafter\renewcommand%
19150   \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
19151     {\normalfont\normalcolor ##1}}%
19152 }%
19153 \expandafter\renewcommand%

```



```

19154 \csname scr@tso@#1@pagenumberbox\endcsname[1]{%
19155   \hb@xt@{\pnumwidth{\hfil ##1}}{%
19156   \expandafter\renewcommand\csname Ifscr@tso@#1@dynnumwidth\endcsname[2]{##2}%
19157 }]{%
19158   \scr@dte@tocline{#1}{##1}{##2}%
19159 }
19160

```

## 7.119 tocstyle-xetex-bidi.def

```

19161 \ProvidesFile{tocstyle-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for tocstyle package]
19162 \renewcommand*{\tocstyle@dottedtocline}[5]{%
19163   \let\numberline\tocstyle@numberline
19164   \ifnum #1>\c@tocdepth \else
19165     \if@tocstyle@penalties
19166       \begingroup
19167         \@tempcnta 20010
19168         \advance \@tempcnta by -#1
19169         \ifnum \@tempcnta>\lastpenalty
19170           \aftergroup\penalty\aftergroup\@lowpenalty
19171         \fi
19172       \endgroup
19173     \fi
19174     \edef\tocstyledepth{#1}%
19175     \tocstyle@activate@features
19176     \ifx\tocstyle@feature@entryvskip\relax
19177       \vskip \z@ \@plus.2\p@
19178     \else
19179       \addvspace{\tocstyle@feature@entryvskip}%
19180     \fi
19181     {%
19182       \parskip \z@ \parindent \z@ \if@RTL\rightskip\else\leftskip\fi \z@ \if@RTL\leftskip\else\rightskip\fi
19183       \tocstyle@feature@raggedhook
19184       \@tempdima #3\relax
19185       \@tempdimb #2\relax
19186       \typeout{m (\tocstyleTOC, \tocstyledepth): \the\@tempdima}%
19187       \ifnum #1>\z@\relax
19188         \@tempcnta #1\relax \advance\@tempcnta \m@ne
19189         \ifcsname tocstyle@skipwidth@\tocstyleTOC @\the\@tempcnta\endcsname
19190           \ifcsname tocstyle@numwidth@\tocstyleTOC @\the\@tempcnta\endcsname
19191             \@tempdimb
19192             \csname tocstyle@skipwidth@\tocstyleTOC @\the\@tempcnta\endcsname
19193             \advance\@tempdimb
19194             \csname tocstyle@numwidth@\tocstyleTOC @\the\@tempcnta\endcsname
19195           \fi
19196         \fi
19197       \fi
19198       \typeout{C (\tocstyleTOC, \tocstyledepth): \the\@tempdimb}%
19199       \ifcsname tocstyle@skipwidth@\tocstyleTOC @#1\endcsname
19200       \ifdim \@tempdimb>

```



```

19201         \csname tocstyle@skipwidth@\tocstyleTOC @#1\endcsname\relax
19202         \expandafter\xdef\csname tocstyle@skipwidth@\tocstyleTOC
19203             @#1\endcsname{\the\@tempdimb}%
19204     \fi
19205 \else
19206     \expandafter\xdef\csname tocstyle@skipwidth@\tocstyleTOC
19207         @#1\endcsname{\the\@tempdimb}%
19208 \fi
19209 \iftocstyle@autolength
19210     \ifcsname tocstyle@maxskipwidth@\tocstyleTOC @#1\endcsname
19211         \@tempdimb \csname tocstyle@maxskipwidth@\tocstyleTOC @#1\endcsname
19212         \relax
19213     \fi
19214     \ifcsname tocstyle@maxnumwidth@\tocstyleTOC @#1\endcsname
19215         \@tempdima \csname tocstyle@maxnumwidth@\tocstyleTOC @#1\endcsname
19216         \relax
19217     \fi
19218     \typeout{a (\tocstyleTOC, \tocstyledepth): \the\@tempdima}%
19219     \typeout{A (\tocstyleTOC, \tocstyledepth): \the\@tempdimb}%
19220 \else
19221     \@tempdimb #2\relax
19222     \typeout{M (\tocstyleTOC, \tocstyledepth): \the\@tempdimb}%
19223 \fi
19224 \ifcsname tocstyle@unumwidth@\tocstyleTOC @\endcsname
19225     \ifdim \@tempdima>
19226         \csname tocstyle@unumwidth@\tocstyleTOC @\endcsname\relax
19227         \expandafter\xdef\csname tocstyle@unumwidth@\tocstyleTOC
19228             @\endcsname{\the\@tempdima}%
19229     \fi
19230 \else
19231     \expandafter\xdef\csname tocstyle@unumwidth@\tocstyleTOC
19232         @\endcsname{\the\@tempdima}%
19233 \fi
19234 \ifcase\tocstyle@indentstyle\relax\else
19235     \@tempdimb \z@
19236     \ifcsname tocstyle@maxunumwidth@\tocstyleTOC @\endcsname
19237         \@tempdima \csname tocstyle@maxunumwidth@\tocstyleTOC @\endcsname
19238         \relax
19239     \fi
19240     \typeout{s (\tocstyleTOC, \tocstyledepth): \the\@tempdima}%
19241     \typeout{S (\tocstyleTOC, \tocstyledepth): \the\@tempdimb}%
19242 \fi
19243 \advance\parindent \@tempdimb\@afterindenttrue
19244 \advance\if@RTL\rightskip\else\leftskip\fi \parindent
19245 \advance\if@RTL\leftskip\else\rightskip\fi \@tocrmarg
19246 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
19247 \ifx\tocstyle@feature@parfillskip\relax\else
19248     \advance\parfillskip \tocstyle@feature@parfillskip\relax
19249 \fi
19250 \interlinepenalty\@M

```



```

19251 \leavevmode
19252 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima
19253 \null\nobreak
19254 \iftocstyle@indentnotnumbered\else
19255 \hskip -\if@RTL\rightskip\else\leftskip\fi
19256 \fi
19257 \tocstyle@feature@entryhook
19258 {#4}\nobreak
19259 \ifx\tocstyle@feature@leaders\relax
19260 \leaders\hbox{$\m@th
19261 \mkern \@dotsep mu\hbox{\tocstyle@feature@dothook .}%
19262 \mkern \@dotsep mu$}\hfill
19263 \else
19264 \tocstyle@feature@leaders
19265 \fi
19266 \nobreak
19267 \ifx\tocstyle@feature@pagenumberbox\relax
19268 \hb@xt@\@pnumwidth{\hfil\tocstyle@feature@pagenumberhook #5}%
19269 \else
19270 \tocstyle@feature@pagenumberbox{\tocstyle@feature@pagenumberhook #5}%
19271 \fi
19272 \par
19273 }%
19274 \if@tocstyle@penalties
19275 \bgroup
19276 \@tempcnta 20009
19277 \advance\@tempcnta by -#1
19278 \edef\reserved@a{\egroup\penalty\the\@tempcnta\relax}%
19279 \reserved@a
19280 \fi
19281 \fi}
19282 \renewcommand*{\tocstyle@numberline}[1]{%
19283 \beginngroup
19284 \ifx\tocstyle@feature@spaceafternumber\relax
19285 \settowidth\@tempdima{\tocstyle@numberline{#1}\enskip}%
19286 \else
19287 \settowidth\@tempdima{\tocstyle@numberline{#1}}%
19288 \advance \@tempdima \tocstyle@feature@spaceafternumber\relax
19289 \fi
19290 \ifcsname tocstyle@numwidth@\tocstyleTOC @\tocstyledepth\endcsname
19291 \ifdim \@tempdima >
19292 \csname tocstyle@numwidth@\tocstyleTOC @\tocstyledepth\endcsname\relax
19293 \expandafter\xdef\csname tocstyle@numwidth@\tocstyleTOC
19294 @\tocstyledepth\endcsname{\the\@tempdima}%
19295 \fi
19296 \else
19297 \expandafter\xdef\csname tocstyle@numwidth@\tocstyleTOC
19298 @\tocstyledepth\endcsname{\the\@tempdima}%
19299 \fi
19300 \endgroup

```



```

19301 \iftocstyle@indentnotnumbered
19302 \hskip -\if@RTL\rightskip\else\leftskip\fi
19303 \fi
19304 \ifcase \tocstyle@indentstyle
19305 \hb@xt@\@tempdima{\tocstyle@@numberline{#1}\hfil}%
19306 \or
19307 \hb@xt@\@tempdima{\tocstyle@@numberline{#1}\hfil}%
19308 \else
19309 \ifx\tocstyle@feature@spaceafternumber\relax
19310 \hbox{\tocstyle@@numberline{#1}\enskip}%
19311 \else
19312 \hbox{\tocstyle@@numberline{#1}\hskip
19313 \tocstyle@feature@spaceafternumber\relax}%
19314 \fi
19315 \fi
19316 }
19317 \AtBeginDocument{%
19318 \ifcsname l@part\endcsname
19319 \ifcsname l@chapter\endcsname
19320 \setbox\@tempboxa\vbox{\hsize\maxdimen
19321 \l@part{\tocstyle@l@define{part}{-1}}{}}%
19322 \else
19323 \setbox\@tempboxa\vbox{\hsize\maxdimen
19324 \l@part{\tocstyle@l@define{part}{0}}{}}%
19325 \fi
19326 \fi
19327 \ifcsname l@chapter\endcsname
19328 \setbox\@tempboxa\vbox{\hsize\maxdimen
19329 \l@chapter{\tocstyle@l@define{chapter}{0}}{}}%
19330 \fi
19331 \ifcsname l@section\endcsname
19332 \setbox\@tempboxa\vbox{\hsize\maxdimen
19333 \l@section{\tocstyle@l@define{section}{1}}{}}%
19334 \fi
19335 \ifcsname l@subsection\endcsname
19336 \setbox\@tempboxa\vbox{\hsize\maxdimen
19337 \l@subsection{\tocstyle@l@define{subsection}{2}}{}}%
19338 \fi
19339 \ifcsname l@subsubsection\endcsname
19340 \setbox\@tempboxa\vbox{\hsize\maxdimen
19341 \l@subsubsection{\tocstyle@l@define{subsubsection}{3}}{}}%
19342 \fi
19343 \ifcsname l@paragraph\endcsname
19344 \setbox\@tempboxa\vbox{\hsize\maxdimen
19345 \l@paragraph{\tocstyle@l@define{paragraph}{4}}{}}%
19346 \fi
19347 \ifcsname l@subparagraph\endcsname
19348 \setbox\@tempboxa\vbox{\hsize\maxdimen
19349 \l@subparagraph{\tocstyle@l@define{subparagraph}{5}}{}}%
19350 \fi

```



```

19351 \ifcsname l@table\endcsname
19352   \setbox\@tempboxa\vbox{\hsize\maxdimen
19353     \l@table{\tocstyle@l@define{table}{1}}{}}%
19354 \fi
19355 \ifcsname l@figure\endcsname
19356   \setbox\@tempboxa\vbox{\hsize\maxdimen
19357     \l@figure{\tocstyle@l@define{figure}{1}}{}}%
19358 \fi
19359 \def\@tempa#1#2#3#4#5{%
19360   \ifnum #1>\c@tocdepth \else
19361     \vskip \z@ \@plus.2\p@
19362     {\if@RTL\rightskip\else\leftskip\fi #2\relax \if@RTL\leftskip\else\rightskip\fi \@tocrm
19363     \parindent #2\relax\@afterindenttrue
19364     \interlinepenalty\@M
19365     \leavevmode
19366     \@tempdima #3\relax
19367     \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
19368     {#4}\nobreak
19369     \leaders\hbox{$\m@th
19370       \mkern \@dotsep mu\hbox{.}\mkern \@dotsep
19371       mu$}\hfill
19372     \nobreak
19373     \hb@xt@\@pnumwidth{{\hfil \normalfont \normalcolor #5}}%
19374     \par}%
19375 \fi}%
19376 \ifx\@dottedtocline\@tempa\else
19377   \tocstyle@macrochangewarning\@dottedtocline
19378 \fi
19379 \let\tocstyle@saved@dottedtocline\@dottedtocline
19380 \def\@tempa#1{\hb@xt@\@tempdima{#1\autodot\hfil}}%
19381 \ifx\numberline\@tempa\else
19382   \def\@tempa#1{\hb@xt@\@tempdima{#1\hfil}}%
19383 \fi
19384 \tocstyle@macrochangewarning\numberline
19385 \fi
19386 \fi
19387 \let\tocstyle@saved@numberline\numberline
19388 }
19389 \renewcommand*{\tocstyle@l@define}[2]{%
19390   \advance\if@RTL\rightskip\else\leftskip\fi-\@tempdima
19391   \edef\@tempa{%
19392     \noexpand\global\noexpand\let
19393     \expandafter\noexpand\csname tocstyle@saved@l@#1\endcsname
19394     \expandafter\noexpand\csname l@#1\endcsname
19395     \noexpand\gdef
19396     \expandafter\noexpand\csname tocstyle@l@#1\endcsname{%
19397       \noexpand\@dottedtocline{#2}{\the\if@RTL\rightskip\else\leftskip\fi}{\the\@tempdima}}%
19398     \noexpand\g@addto@macro\noexpand\tocstyle@activate@all@l@#1{%
19399       \noexpand\let\expandafter\noexpand\csname l@#1\endcsname
19400       \expandafter\noexpand\csname tocstyle@l@#1\endcsname

```



```

19401 }%
19402 }%
19403 \PackageInfo{tocstyle}{prepare \expandafter\string
19404 \csname l@#1\endcsname\space for redefinition}%
19405 \@tempa
19406 }

```

## 7.120 todonotes-xetex-bidi.def

```

19407 \ProvidesFile{todonotes-xetex-bidi.def}[2016/11/08 v0.4 bidi adaptations for todonotes package]
19408 \newif\if@bidi@todonotes@textdirection@RTL
19409 \newif\if@bidi@todonotes@figposition@right
19410 \newcommand{\@bidi@todonotes@align}{\}%
19411 \define@key{todonotes}{align}{\renewcommand{\@bidi@todonotes@align}{#1}}%
19412 \newcommand{\@bidi@todonotes@textdirection}{\}%
19413 \define@choicekey{todonotes}{textdirection}[\bidi@todonotes@tempa\bidi@todonotes@tempb]{right, left}
19414 \ifcase\bidi@todonotes@tempb\relax
19415 \@bidi@todonotes@textdirection@RTLtrue
19416 \let\bidi@todonotes@textdirection\RTL
19417 \or
19418 \@bidi@todonotes@textdirection@RTLfalse
19419 \let\bidi@todonotes@textdirection\LRL
19420 \fi}
19421 \define@choicekey{todonotes}{figposition}[\bidi@todonotes@tempa\bidi@todonotes@tempb]{right, left}
19422 \ifcase\bidi@todonotes@tempb\relax
19423 \@bidi@todonotes@figposition@righttrue
19424 \or
19425 \@bidi@todonotes@figposition@rightfalse
19426 \fi}
19427 \if@todonotes@disabled%
19428 \else % \if@todonotes@disabled
19429 \renewcommand{\@todonotes@drawInlineNote}{%
19430 \if@todonotes@dviStyle%
19431 {\par\noindent\begin{tikzpicture}[remember picture]%
19432 \draw node[inlinenotestyle] {};\end{tikzpicture}\par}%
19433 \if@todonotes@authorgiven%
19434 {\noindent \@todonotes@sizecommand \@todonotes@author:\,\@todonotes@text}%
19435 \else%
19436 {\noindent \@todonotes@sizecommand \@todonotes@text}%
19437 \fi
19438 {\par\noindent\begin{tikzpicture}[remember picture]%
19439 \draw node[inlinenotestyle] {};\end{tikzpicture}\par}%
19440 \else%
19441 {\par\noindent\begin{tikzpicture}[remember picture]%
19442 \if@bidi@todonotes@textdirection@RTL\setRTL\fi%
19443 \draw node[inlinenotestyle,font=\@todonotes@sizecommand,align=\@bidi@todonotes@align]{}%
19444 \if@todonotes@authorgiven%
19445 {\noindent \@todonotes@sizecommand \@todonotes@author:\,\@todonotes@text}%
19446 \else%
19447 {\noindent \@todonotes@sizecommand \@todonotes@text}%

```



```

19448             \fi};%
19449             \end{tikzpicture}\par}%
19450     \fi}%
19451 \renewcommand{\@todonotes@drawMarginNoteWithLine}{%
19452 \begin{tikzpicture}[remember picture, overlay, baseline=-0.75ex]%
19453     \node [coordinate] (inText) {};%
19454 \end{tikzpicture}%
19455 \marginpar[{} Draw note in left margin
19456     \@todonotes@drawMarginNote%
19457     \ifRTL\@todonotes@drawLineToRightMargin\else\@todonotes@drawLineToLeftMargin\fi%
19458 }]{% Draw note in right margin
19459     \@todonotes@drawMarginNote%
19460     \ifRTL\@todonotes@drawLineToLeftMargin\else\@todonotes@drawLineToRightMargin\fi%
19461 }%
19462 }%
19463 \renewcommand{\@todonotes@drawMarginNote}{%
19464 \if@todonotes@dviStyle%
19465     \begin{tikzpicture}[remember picture]%
19466         \draw node[notestyle] {};%
19467     \end{tikzpicture}\\%
19468     \begin{minipage}{\@todonotes@textwidth}%
19469         \if@todonotes@authorgiven%
19470             \@todonotes@sizecommand \@todonotes@author \@todonotes@text%
19471         \else%
19472             \@todonotes@sizecommand \@todonotes@text%
19473         \fi%
19474     \end{minipage}\\%
19475     \begin{tikzpicture}[remember picture]%
19476         \draw node[notestyle] (inNote) {};%
19477     \end{tikzpicture}%
19478 \else%
19479     \let\originalHbadness\hbadness%
19480     \hbadness 100000%
19481     \begin{tikzpicture}[remember picture,baseline=(X.base)]%
19482         \if@bidi@todonotes@textdirectionRTL\setRTL\fi%
19483         \node(X){\vphantom{X}};%
19484         \draw node[notestyle,font=\@todonotes@sizecommand,anchor=north,align=\@bidi@todonotes
19485             {\@todonotes@text};%
19486         \if@todonotes@authorgiven%
19487             \draw node[notestyle,font=\@todonotes@sizecommand,anchor=north,align=\@bidi@todon
19488                 {\@todonotes@sizecommand\@todonotes@author};%
19489             \node(Y)[below=of X]{};%
19490             \draw node[notestyle,font=\@todonotes@sizecommand,anchor=north,align=\@bidi@todon
19491                 {\@todonotes@text};%
19492         \else%
19493             \draw node[notestyle,font=\@todonotes@sizecommand,anchor=north,align=\@bidi@todon
19494                 {\@todonotes@text};%
19495         \fi%
19496     \end{tikzpicture}%
19497     \hbadness \originalHbadness%

```





```

19498 \fi}%
19499 \renewcommand{\missingfigure}[2][]{%
19500 \setkeys{todonotes}{#1}%
19501 \addcontentsline{tdo}{todo}{\@todonotes@MissingFigureText: #2}%
19502 \par
19503 \noindent
19504 \begin{tikzpicture}
19505 \draw[fill=\@todonotes@currentfigcolor, draw = black!40, line width=2pt]
19506 (-2, -2.5) rectangle +(\@todonotes@currentfigwidth, \@todonotes@currentfigheight);
19507 \if@bidi@todonotes@figposition@right%
19508 \begin{scope}[xshift=\@todonotes@currentfigwidth-4cm]
19509 \fi%
19510 \draw[red, fill=white, rounded corners = 5pt, line width=10pt]
19511 (30:2cm) -- (150:2cm) -- (270:2cm) -- cycle;
19512 \if@bidi@todonotes@figposition@right%
19513 \end{scope}
19514 \begin{scope}[xshift=-3.8cm]
19515 \fi%
19516 \if@bidi@todonotes@textdirection@RTL\setRTL\fi%
19517 \draw (2, -0.3) node[right, text
19518 width=\@todonotes@currentfigwidth-4.5cm,align=\@bidi@todonotes@align] {#2};
19519 \if@bidi@todonotes@figposition@right%
19520 \end{scope}
19521 \begin{scope}[xshift=\@todonotes@currentfigwidth-4cm]
19522 \fi%
19523 \draw (0, 0.3) node[align=\@bidi@todonotes@align] {\@bidi@todonotes@textdirection{\@todonotes
19524 \draw (0, -0.3) node[align=\@bidi@todonotes@align] {\@bidi@todonotes@textdirection{\@todonotes
19525 \if@bidi@todonotes@figposition@right%
19526 \end{scope}
19527 \fi%
19528 \end{tikzpicture}}\hfill
19529 }% Ending \missingfigure command
19530 \fi % Ending \@todonotes@ifdisabled
19531 \presetkeys%
19532 {todonotes}%
19533 {align=left,%
19534 textdirection=lefttoright,%
19535 figposition=left}{}%

```

## 7.121 wrapfig-xetex-bidi.def

```

19536 \ProvidesFile{wrapfig-xetex-bidi.def}[2014/04/23 v0.3 bidi adaptations for wrapfig package fo
19537 \let\WF@everypar\@everypar
19538 \def\WF@putfigmaybe{%
19539 \ifinner
19540 \vskip-\parskip \global\WF@floatfalse
19541 \let\pagetotal\maxdimen % kludge flag for "not top of page"
19542 \else % outer page
19543 \@tempdima\pagedepth % save page depth
19544 {\advance\parskip\@tempdima\if@RTL\advance\parskip\baselineskip\fi\vskip-\parskip}% back u

```



```

19545 \penalty\interlinepenalty % update pg. parameters
19546 \@tempdimb\pagegoal \advance\@tempdimb-\pagetotal % room left on page
19547 \ifdim\@tempdimb<\z@ % \WF@info{Page overfull already;}%
19548 \global\WF@floatfalse
19549 \ifdim-\@tempdimb>\pageshrink \else \pagebreak \fi
19550 \else
19551 \ifdim\WF@size>\@tempdimb
19552 \ifWF@float \dimen@.5\baselineskip \else \dimen@ 2\baselineskip\fi
19553 \ifdim\pagestretch>\dimen@ \dimen@\pagestretch \fi
19554 \ifdim\pagefillstretch>\z@ \dimen@\@tempdimb \fi
19555 \ifdim\pagefillstretch>\z@ \dimen@\@tempdimb \fi
19556 \advance\dimen@.5\baselineskip
19557 \ifdim\dimen@>\@tempdimb % \WF@info{Page nearly full; can stretch}%
19558 \global\WF@floatfalse \pagebreak
19559 \fi
19560 \else % \WF@info{Fits in \the\@tempdimb;}%
19561 \global\WF@floatfalse
19562 \fi\fi
19563 \vskip\@tempdima\relax % (return erased page depth)
19564 \fi
19565 \noindent
19566 \ifWF@float
19567 \WF@fltmes
19568 \else % putting here;
19569 \WF@info{Put \WF@wfname here;}%
19570 {\ifodd\if@twoside\c@page\else\@one\fi % assign l/r to i/o placement
19571 \lccode`i`l\lccode`o`r\else \lccode`i`r\lccode`o`l\fi
19572 \xdef\WF@place{\the\lccode\lccode\WF@place}}% twice to get only l or r
19573 \hbox to\z@{% llap or rlap depending on {l} or {r}; calc effective width
19574 \@tempdima\wd\WF@box \@tempdimb\WF@ovh
19575 \advance\@tempdima-\@tempdimb \advance\@tempdima\columnsep
19576 \@tempdimb\hsize \advance\@tempdimb-\@tempdima
19577 \xdef\WF@adjlw{\the\@tempdima}%
19578 \ifnum`l=\WF@place % fig on left
19579 \if@RTL%
19580 \kern\@tempdimb \kern\columnsep
19581 \def\@tempa{\hss}% position to left of the gap
19582 \else%
19583 \hss % figure overlaps space to the left
19584 \def\@tempa{\kern\columnsep}% position to left of the gap
19585 \fi%
19586 \else % fig on right
19587 \if@RTL%
19588 \hss
19589 \@tempdima\z@
19590 \def\@tempa{\kern\columnsep}
19591 \else%
19592 \@tempdima\z@ % no left indentation
19593 \kern\@tempdimb \kern\columnsep
19594 \def\@tempa{\hss}% figure overlaps space to the right

```



```

19595 \fi%
19596 \fi
19597 \ifdim\@tempdimb<\hsize
19598 \xdef\WF@wrapil{\the\@tempdima \the\@tempdimb}% indentation and length
19599 \xdef\WF@adjtlm{\the\@tempdima}%
19600 \else
19601 \xdef\WF@wrapil{\z@ \the\hsize}%
19602 \xdef\WF@adjlw{\z@}\xdef\WF@adjtlm{\z@}%
19603 \fi
19604 \ifdim\pagetotal=\z@ % \WF@info{Put \WF@wfname at top of p.\thepage}%
19605 \global\advance\WF@size-\intextsep
19606 \else % \WF@info{Putting \WF@wfname in middle of page}%
19607 \setbox\WF@box\hbox{\lower\intextsep\box\WF@box}%
19608 \fi \dp\WF@box\z@ \box\WF@box \@tempa
19609 }% end \hbox to Opt
19610 \aftergroup\WF@startwrapping % after the \endgroup which immediately follows
19611 \fi}

```

## 7.122 xcolor-xetex-bidi.def

```

19612 \ProvidesFile{xcolor-xetex-bidi.def}[2013/04/08 v0.2 bidi adaptations for xcolor package for
19613 \long\def\color@b@x#1#2#3%
19614 {\leavevmode\ifmmode\else\ifRTL\beginL\fi\fi
19615 \setbox\z@\hbox{\kern\fbboxsep\set@color\ifRTL\beginR\fi#3\ifRTL\endR\fi}\kern\fbboxsep}%
19616 \dimen@ht\z@\advance\dimen@\fbboxsep\ht\z@\dimen@
19617 \dimen@dp\z@\advance\dimen@\fbboxsep\dp\z@\dimen@
19618 {#1#2\color@block{\wd\z@}{\ht\z@}{\dp\z@}\box\z@}}\ifmmode\else\ifRTL\endL\fi\fi}
19619 \def\normalcolor{\let\current@color\default@color\ifhmode\ifRTL\beginL\aftergroup\endR\fi\fi}
19620 \DeclareRobustCommand\color
19621 {\ifhmode\ifRTL\beginL\aftergroup\endR\fi\fi\@ifnextchar[\@undeclaredcolor\@declaredcolor]}
19622 \def\@undeclaredcolor[#1]#2%
19623 {\begingroup
19624 \let\@cls\@empty
19625 \XC@getmodclr12{#1}{#2}{}%
19626 {\ifblendcolors
19627 \ifx\colorblend\@empty\else
19628 \edef\@mix{\expandafter\@gobble\colorblend}\@tempwafalse
19629 \XC@coremodel\@mod\@clr\xcolor@{}{}\@mod\@clr
19630 \fi
19631 \fi
19632 \ifconvertcolorsU
19633 \edef\@tmp{\XC@tgt@mod{\@mod}}%
19634 \convertcolorspec\@mod\@clr\@tmp\@clr \let\@mod\@tmp
19635 \fi
19636 \ifmaskcolors
19637 \convertcolorspec\@mod\@clr\XC@mmod\@clr
19638 \let\@mod\XC@mmod
19639 \XC@inflate\@mod\XC@mclr\@clr\@tmp
19640 \expandafter\XC@mul\@tmp,\@clr
19641 \fi

```



```

19642 \edef\@tmp{\noexpand\XC@undeclaredcolor{\@mod}{\@clr}}%
19643 \expandafter\endgroup\@tmp}}
19644 \def\@declaredcolor#1%
19645 {\XC@edef\XC@tmp{#1}\XC@tstfalse
19646 \ifcase\XC@type\XC@tmp\relax \XC@tsttrue\or \relax\else
19647 \ifblendcolors\XC@tsttrue\fi \ifmaskcolors\XC@tsttrue\fi
19648 \ifconvertcolorsU\XC@tsttrue\fi
19649 \fi
19650 \ifXC@tst
19651 \expandafter\XC@declaredcolor\else
19652 \expandafter\XC@declaredcolor\fi}
19653 \def\XC@undeclaredcolor#1#2%
19654 {\ifundefinedmodel{#1}%
19655 {\c@lor@error{model `#1'}}%
19656 {\@nameuse{color@#1}\current@color{#2}}%
19657 \edef\XC@current@color{\noexpand\xcolor@{\current@color}{#1}{#2}}%
19658 \XC@display}\ifhmode\ifRTL\beginR\aftergroup\endL\fi\fi\ignorespaces}
19659 \def\XC@declaredcolor
19660 {\XC@let\Nc\XC@current@color{\string\color@\XC@tmp}%
19661 \edef\current@color{\XC@current@color}%
19662 \XC@display}\ifhmode\ifRTL\beginR\aftergroup\endL\fi\fi\ignorespaces}
19663 \DeclareRobustCommand\bidicolor
19664 {\ifnextchar[\@bidiundeclaredcolor\@bidideclaredcolor}
19665 \def\@bidiundeclaredcolor[#1]#2%
19666 {\begingroup
19667 \let\@cls\@empty
19668 \XC@getmodclr12{#1}{#2}{}%
19669 {\ifblendcolors
19670 \ifx\colorblend\@empty\else
19671 \edef\@mix{\expandafter@gobble\colorblend}\@tempswafalse
19672 \XC@coremodel\@mod\@clr\xcolor@{\}@@mod\@clr
19673 \fi
19674 \fi
19675 \ifconvertcolorsU
19676 \edef\@tmp{\XC@tgt@mod{\@mod}}%
19677 \convertcolorspec\@mod\@clr\@tmp\@clr \let\@mod\@tmp
19678 \fi
19679 \ifmaskcolors
19680 \convertcolorspec\@mod\@clr\XC@mmod\@clr
19681 \let\@mod\XC@mmod
19682 \XC@inflate\@mod\XC@mclr\@clr\@tmp
19683 \expandafter\XC@mul\@tmp,\@clr
19684 \fi
19685 \edef\@tmp{\noexpand\XC@bidiundeclaredcolor{\@mod}{\@clr}}%
19686 \expandafter\endgroup\@tmp}}
19687 \def\XC@bidiundeclaredcolor#1#2%
19688 {\ifundefinedmodel{#1}%
19689 {\c@lor@error{model `#1'}}%
19690 {\@nameuse{color@#1}\current@color{#2}}%
19691 \edef\XC@current@color{\noexpand\xcolor@{\current@color}{#1}{#2}}%

```



```

19692 \XC@display}}
19693 \def\@bidideclaredcolor#1%
19694 {\XC@edef\XC@tmp{#1}\XC@tstfalse
19695 \ifcase\XC@type\XC@tmp\relax \XC@tsttrue\or \relax\else
19696 \ifblendcolors\XC@tsttrue\fi \ifmaskcolors\XC@tsttrue\fi
19697 \ifconvertcolorsU\XC@tsttrue\fi
19698 \fi
19699 \ifXC@tst
19700 \expandafter\XC@bidideclaredcolor\else
19701 \expandafter\XC@bidideclaredcolor\fi}
19702 \def\XC@bidideclaredcolor
19703 {\XC@split\XC@tmp
19704 \edef\@tmp{\noexpand\@bidiundeclaredcolor[\@mod]{\@clr}}}%
19705 \expandafter\endgroup\@tmp}
19706 \def\XC@bidideclaredcolor
19707 {\XC@let\Nc\XC@currentcolor{\string\color\XC@tmp}%
19708 \edef\currentcolor{\XC@currentcolor}%
19709 \XC@display}
19710 \def\color@box#1#2{\color@bex\relax{\bidicolor#1{#2}}}
19711 \def\color@fbbox#1#2#3#4{\protect\color@fbex{#1}{#2}{#3}}
19712 \def\color@fbex#1#2#3#4%
19713 {\color@bex{\fbboxsep\z@\bidicolor#1{#2}\XC@fbbox}%
19714 {\@ifxempty{#3}{\bidicolor#1}{\bidicolor#3}{#4}}}
19715 \def\color@setgroup{\begingroup\ifhmode\if@RTL\beginL\aftergroup\endR\fi\fi\setcolor\ifhmode

```

## 7.123 latex-xetex-bidi.def

```

19716 \ProvidesFile{latex-xetex-bidi.def}[2017/05/06 v1.2.9 bidi adaptations for `latex.ltx' for X
19717 \newcommand{\TeXXeTOn}{\TeXXeTstate=1 }
19718 \newcommand{\TeXXeTOff}{\TeXXeTstate=0 }
19719 \TeXXeTOn
19720 \def\bidi@RTL@everypar{\setbox\z@\lastbox\if@RTL\beginR\else\beginL\fi\ifvoid\z@\else\usebox
19721 \let\bidi@o@everypar=\everypar
19722 \newtoks\bidi@n@everypar
19723 \bidi@n@everypar\expandafter{\the\bidi@o@everypar}
19724 \bidi@o@everypar{\bidi@RTL@everypar\the\bidi@n@everypar}
19725 \let\everypar=\bidi@n@everypar
19726 \def\moreLRE{\bracetext \aftergroup\endL \beginL\@RTLfalse}
19727 \def\moreRLE{\bracetext \aftergroup\endR \beginR\@RTLtrue}
19728 \protected\def\hboxR{\hbox\bgroup
19729 \everyhbox{%
19730 \aftergroup\egroup
19731 \everyhbox{}}%
19732 \beginR
19733 \@hboxRconstructtrue
19734 \bgroup
19735 \aftergroup\endR
19736 \aftergroup\egroup
19737 }\hbox}
19738 \protected\def\hboxL{\hbox\bgroup

```



```

19739 \everyhbox{%
19740 \aftergroup\egroup
19741 \everyhbox{}}%
19742 \beginL
19743 \@hboxRconstructfalse
19744 \bgroup
19745 \aftergroup\endL
19746 \aftergroup\egroup
19747 }\hbox}
19748 \protected\def\vboxR{\vbox\bgroup
19749 \everyvbox{%
19750 \aftergroup\egroup
19751 \everyvbox{}}%
19752 \@RTLtrue
19753 \@RTLtabtrue
19754 \bgroup
19755 \aftergroup\egroup
19756 }\vbox}
19757 \protected\def\vboxL{\vbox\bgroup
19758 \everyvbox{%
19759 \aftergroup\egroup
19760 \everyvbox{}}%
19761 \@RTLfalse
19762 \@RTLtabfalse
19763 \bgroup
19764 \aftergroup\egroup
19765 }\vbox}
19766 \newcommand*{\bidi@leftskip}{\if@RTL\righskip\else\leftskip\fi}
19767 \newcommand*{\bidi@rightskip}{\if@RTL\leftskip\else\righskip\fi}
19768 \def\LTR{\par\@RTLfalse\@RTL@footnotefalse\@RTLtabfalse\hsize\linewidth\parshape\z@}
19769 \def\endLTR{\par}
19770 \def\RTL{\par\@RTLtrue\@RTL@footnotetrue\@RTLtabtrue\hsize\linewidth\parshape\z@}
19771 \def\endRTL{\par}
19772 \def\setRTL{\@RTLtrue\@RTL@footnotetrue\@RTLtabtrue}
19773 \def\setLTR{\@RTLfalse\@RTL@footnotefalse\@RTLtabfalse}
19774 \let\unsetRTL=\setLTR
19775 \let\unsetLTR=\setRTL
19776 \let\LR=\LRE
19777 \let\RL=\RLE
19778 \def\@ensure@RTL#1{\if@RTL#1\else\RLE{#1}\fi}
19779 \def\@ensure@LTR#1{\if@RTL\LRE{#1}\else#1\fi}
19780 \let\@ensure@RL=\@ensure@RTL
19781 \let\@ensure@LR=\@ensure@LTR
19782 \def\@ensure@dir#1{\if@RTL\RLE{#1}\else{#1}\fi}
19783 \let\@ensure@maindir=\@ensure@dir
19784 \def\@RTL{RTL}
19785 \def\@LTR{LTR}
19786 \def\save@dir{\if@RTL\gdef\saved@dir{RTL}\else\gdef\saved@dir{LTR}\fi}
19787 \def\reset@dir{\ifx\saved@dir\@RTL\setRTL\else\ifx\saved@dir\@LTR\setLTR\else\relax\fi\fi}
19788 \let\@TeX\TeX

```



```

19789 \def\TeX{\@ensure@LTR{\@TeX}}
19790 \let\@@LaTeX\LaTeX
19791 \def\LaTeX{\@ensure@LTR{\@LaTeX}}
19792 \let\@@LaTeXe\LaTeXe
19793 \def\LaTeXe{\@ensure@LTR{\@LaTeXe}}
19794 \long\def\@bidi@reflect@box#1{%
19795   \leavevmode
19796   \setbox\z@\hbox{\{#1\}}%
19797   \setbox\tw@\hbox{\special{x:gsave}\special{x:scale -1 1}\rlap{\copy\z@}\special{x:grestore}}
19798   \hb@xt@\wd\z@{\kern\wd\z@\box\tw@\hss}%
19799 }
19800 \bidi@newrobustcmd*{\XeTeX}{\LR{\leavevmode$\smash{\hbox{X\lower.5ex
19801   \hbox{\kern-.125em\@bidi@reflect@box{E}}\kern-.1667em \TeX}}$}}
19802 \bidi@newrobustcmd*{\XeLaTeX}{\LR{\leavevmode$\smash{\hbox{X\lower.5ex
19803   \hbox{\kern-.125em\@bidi@reflect@box{E}}\kern-.1667em \LaTeX}}$}}
19804 \let\setRTL=\setRTL
19805 \let\setLR=\setLTR
19806 \let\unsetRL=\setLTR
19807 \def\@bidi@tabular@RTLcases{\let\@halignto\@empty\@bidi@tabular@RTLcases}
19808 \ifpackageloaded{array}{%
19809 \def\@bidi@tabular@RTLcases{\@RTLtabtrue%
19810   \leavevmode
19811   \hbox \bgroup $\left.\col@sep\tabcolsep \let\dollarbegin\begin\group
19812   \let\dollarend\end\group
19813   \@tabarray}
19814 \def\endbidi@tabular@RTLcases{\endarray \right\rbrace$\egroup}
19815 }{%
19816 \def\@bidi@tabular@RTLcases{\@RTLtabtrue%
19817   \leavevmode \hbox \bgroup
19818   $\left.\let\@acol\@tabacol
19819   \let\@classz\@tabclassz
19820   \let\@classiv\@tabclassiv \let\\ \@tabularcr\@tabarray}
19821
19822 \def\endbidi@tabular@RTLcases{\crrc\egroup\if@RTLtab\egroup\endR\egroup\fi
19823   \egroup\right\rbrace $\egroup}}
19824 \def\RTLcases#1{\left.\vcenter{\normalbaselines\m@th
19825   \ialign{##\hfil$&\quad{##}\hfil\crrc#1\crrc}}\,,\right\}}
19826 \renewenvironment{RTLcases}{%
19827   \bidi@matrix@check\RTLcases\env@RTLcases
19828 }{%
19829   \endbidi@tabular@RTLcases%
19830 }
19831 \def\env@RTLcases{%
19832   \let\@ifnextchar\bidi@new@ifnextchar
19833   \def\arraystretch{1.2}%
19834   \bidi@tabular@RTLcases{\@{}r@{\quad}r@{}}%
19835 }
19836 \def\SepMark#1{\gdef\@SepMark{#1}}
19837 \SepMark{.}
19838 \def\@thmcountersep{\@SepMark}

```



```

19839 \def\setRTLbibitems{\@RTLbibitemstrue\@LTRbibitemsfalse}
19840 \def\setLTRbibitems{\@LTRbibitemstrue\@RTLbibitemsfalse}
19841 \def\setdefaultbibitems{\@RTLbibitemsfalse\@LTRbibitemsfalse}
19842 \newcommand*{\bidi@thebibliography@font@hook}{}
19843 \def\list#1#2{%
19844   \ifnum \@listdepth >5\relax
19845     \@toodeep
19846   \else
19847     \global\advance\@listdepth\@ne
19848   \fi
19849   \rightmargin\z@
19850   \listparindent\z@
19851   \itemindent\z@
19852   \csname @list\romannumeral\the\@listdepth\endcsname
19853   \def\@itemlabel{#1}%
19854   \let\makelabel\@mklab
19855   \@nmbrrlistfalse
19856   #2\relax
19857   \@trivlist
19858   \parskip\parsep
19859   \parindent\listparindent
19860   \advance\linewidth -\rightmargin
19861   \advance\linewidth -\leftmargin
19862   \if@bidi@list@minipage@parbox
19863     \if@RTL
19864       \advance\@totalleftmargin \leftmargin
19865     \else
19866       \advance\@totalleftmargin \rightmargin
19867     \fi
19868   \else
19869     \if@hboxRconstruct
19870       \if@bidi@list@minipage@parbox@not@nob
19871         \if@RTL
19872           \advance\@totalleftmargin \rightmargin
19873         \else
19874           \advance\@totalleftmargin \leftmargin
19875         \fi
19876       \else
19877         \if@RTL
19878           \advance\@totalleftmargin \leftmargin
19879         \else
19880           \advance\@totalleftmargin \rightmargin
19881         \fi\fi
19882       \else
19883         \if@RTL
19884           \advance\@totalleftmargin \rightmargin
19885         \else
19886           \advance\@totalleftmargin \leftmargin
19887         \fi\fi\fi
19888       \parshape \@ne \@totalleftmargin \linewidth

```





```

1988g \ignorespaces}
1989g \long\def\@iiparbox#1#2[#3]#4#5{%
1990g \leavevmode
1991g \@pboxswfalse
1992g \if@hboxRconstruct\@bidi@list@minipage@parbox@not@nobtrue\fi
1993g \if@RTL\if#1t\@bidi@list@minipage@parboxtrue\else\if#1b\@bidi@list@minipage@parboxtrue\fi\fi
1994g \setlength\@tempdima{#4}%
1995g \@begin@tempboxa\vbox{\hsize\@tempdima\@parboxrestore#5\@@par}%
1996g \ifx\relax#2\else
1997g \setlength\@tempdimb{#2}%
1998g \edef\@parboxto{to\the\@tempdimb}%
1999g \fi
2000g \if#1b\vbox
2001g \else\if #1t\vtop
2002g \else\ifmmode\vcenter
2003g \else\@pboxswtrue $\vcenter
2004g \fi\fi\fi
2005g \@parboxto{\let\hss\vss\let\unhbox\unvbox
2006g \csname bm@#3\endcsname}%
2007g \if@pboxsw \m@th$\fi
2008g \@end@tempboxa}
2009g \def\bidi@lrbox#1{%
2010g \edef\reserved@a{%
2011g \endgroup
2012g \setbox#1\hbox{%
2013g \begin@group\aftergroup}%
2014g \def\noexpand\@currentenv{\@currentenv}%
2015g \def\noexpand\@currentline{\@currentline}}%
2016g \reserved@a
2017g \end@pefalse
2018g \color@begin@group
2019g \ignorespaces}
2020g \def\endbidi@lrbox{\unskip\color@endgroup}
2021g \newenvironment{LTRitems}
2022g {\par\@RTLfalse\@RTLtabfalse
2023g \if@bidi@list@minipage@parbox
2024g \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth
2025g \else \if@hboxRconstruct\if@bidi@list@minipage@parbox@not@nob
2026g \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\else
2027g \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\fi
2028g \else \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\fi}
2029g \ignorespaces}{\vskip\z@}
2030g \newenvironment{RTLitems}
2031g {\par\@RTLtrue\@RTLtabtrue
2032g \if@bidi@list@minipage@parbox
2033g \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth
2034g \else \if@hboxRconstruct\if@bidi@list@minipage@parbox@not@nob
2035g \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\else
2036g \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\fi
2037g \else \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\fi}

```



```

19939             \ignorespaces}{\vskip\z@}
19940 \newenvironment{LTRbibitems}
19941     {\par\@RTLfalse\@RTLtabfalse
19942     \if@bidi@list@minipage@parbox
19943     \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth
19944     \else \if@hboxRconstruct\if@bidi@list@minipage@parbox@not@nob
19945     \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\else
19946     \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\fi
19947     \else \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\fi}
19948     \ignorespaces}{\vskip\z@}
19949 \newenvironment{RTLbibitems}
19950     {\par\@RTLtrue\@RTLtabtrue
19951     \if@bidi@list@minipage@parbox
19952     \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth
19953     \else \if@hboxRconstruct\if@bidi@list@minipage@parbox@not@nob
19954     \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\else
19955     \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\fi
19956     \else \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\fi}
19957     \ignorespaces}{\vskip\z@}
19958 \def\raggedright{%
19959     \let\\\@centercr\@rightskip\@flushglue \rightskip\@rightskip
19960     \leftskip\z@skip
19961     \parindent\z@\parfillskip\z@skip}
19962 \let\bidiorig@raggedleft\raggedleft
19963 \let\bidiorig@raggedright\raggedright
19964 \renewcommand\raggedleft{\if@bidi@list@minipage@parbox\bidiorig@raggedright\else\if@hboxRcon
19965 \renewcommand\raggedright{\if@bidi@list@minipage@parbox\bidiorig@raggedleft\else\if@hboxRcon
19966 \newcommand{\bidioraggedright}{\if@RTL\raggedleft\else\raggedright\fi}
19967 \newcommand{\bidioraggedleft}{\if@RTL\raggedright\else\raggedleft\fi}
19968 \def\centerline#1{%
19969 \if@RTL\@@line{\hss\beginR#1\endR\hss}
19970 \else\@@line{\hss#1\hss}\fi}
19971 \def\leftline#1{%
19972 \if@RTL\@@line{\beginR#1\endR\hss}
19973 \else\@@line{#1\hss}\fi}
19974 \def\rightline#1{%
19975 \if@RTL\@@line{\hss\beginR#1\endR}
19976 \else\@@line{\hss#1}\fi}
19977 \let\bidiorig@leftline\leftline
19978 \let\bidiorig@rightline\rightline
19979 \def\leftline#1{\ifhmode\if@RTL\bidiorig@rightline{#1}\else\bidiorig@leftline{#1}\fi\else\i
19980 \def\rightline#1{\ifhmode\if@RTL\bidiorig@leftline{#1}\else\bidiorig@rightline{#1}\fi\else\
19981 \def\bidirlap#1{\hb@xt@{\z@}{\if@RTL\hss\fi#1\if@RTL\else\hss\fi}}
19982 \def\bidillap#1{\hb@xt@{\z@}{\if@RTL\else\hss\fi#1\if@RTL\hss\fi}}
19983 \def\@hangfrom#1{\setbox\@tempboxa\hbox{#1}}%
19984     \hangindent \if@RTL-\else\fi\wd\@tempboxa\noindent\box\@tempboxa}
19985 \def\narrower{%
19986     \advance\if@RTL\rightskip\else\leftskip\fi\parindent
19987     \advance\if@RTL\leftskip\else\rightskip\fi\parindent}
19988 \def\underline#1{%

```



```

19989 \relax
19990 \ifmmode\@@underline{#1}%
19991 \else
19992 \ifRTL $\@@underline{\hbox{\beginR#1\endR}}\m@th$\relax
19993 \else
19994 $\@@underline{\hbox{#1}}\m@th$\relax\fi\fi}
19995 \ifcompatibility
19996 \let\undertext=\underline
19997 \fi
19998 \def\@tabular{%
19999 \leavevmode \hbox \bgroup \ifRTLT\beginR \fi
20000 $\let\@acol\@tabacol
20001 \let\@classz\@tabclassz
20002 \let\@classiv\@tabclassiv \let\\\@tabularcr\@tabarray}
20003 \def\endtabular{\crr\egroup\ifRTLT\endR\egroup\fi
20004 \egroup $\ifRTLT\endR\fi\egroup}
20005 \expandafter \let \csname endtabular*\endcsname = \endtabular
20006 \def\@array[#1]#2{%
20007 \if #1t\top \else \if#1b\bottom \else \vcenter \fi\fi
20008 \bgroup
20009 \setbox\@arstrutbox\hbox{%
20010 \vrule \@height\arraystretch\ht\strutbox
20011 \@depth\arraystretch \dp\strutbox
20012 \@width\z@}%
20013 \@mkpream{#2}%
20014 \edef\@preamble{%
20015 \ialign \noexpand\@halignto
20016 \bgroup \@arstrut \@preamble \tabskip\z@skip \cr}%
20017 \let\@startpbox\@startpbox \let\@endpbox\@endpbox
20018 \let\@tabularnewline\\
20019 \let\par\@empty
20020 \let\@sharp##%
20021 \set@typeset@protect
20022 \lineskip\z@skip\baselineskip\z@skip
20023 \ifhmode \@preamerr\z@ \@@par\fi
20024 \ifRTLT\hbox\bgroup\beginR\@hboxRconstructtrue\if #1t\top \else \bottom \fi\bgroup\fi
20025 \@preamble}
20026 \def\array{\let\@acol\@arrayacol \let\@classz\@arrayclassz
20027 \let\@classiv\@arrayclassiv
20028 \let\\\@arraycr\let\@halignto\@empty\@RTLTfalse\@tabarray}
20029 \def\@testpach#1{\@chclass \ifnum \@lastchclass=\tw@ 4 \else
20030 \ifnum \@lastchclass=3 5 \else
20031 \z@ \if #1c\@chnum \z@ \else
20032 \if \ifRTLT#1r\else#1l\fi\@chnum \@one \else
20033 \if \ifRTLT#1l\else#1r\fi\@chnum \tw@ \else
20034 \@chclass \if #1\@one \else
20035 \if #1\@tw@ \else
20036 \if #1p3 \else \z@ \@preamerr 0\fi
20037 \fi \fi \fi \fi \fi \fi
20038 \fi}

```



```

20039 \def\bm@l{\if@RTL\hss\unhbox\@tempboxa\else\unhbox\@tempboxa\hss\fi}
20040 \def\bm@r{\if@RTL\unhbox\@tempboxa\hss\else\hss\unhbox\@tempboxa\fi}
20041 \def\bm@t{\unhbox\@tempboxa\hss}
20042 \def\bm@b{\hss\unhbox\@tempboxa}
20043 \def\@dottedtocline#1#2#3#4#5{%
20044   \ifnum #1>\c@tocdepth \else
20045     \vskip \z@ \@plus.2\p@
20046     {\if@RTL\righskip\else\leftskip\fi #2\relax \if@RTL\leftskip\else\righskip\fi \@tocmargin
20047     \parindent #2\relax\@afterindenttrue
20048     \interlinepenalty\@M
20049     \leavevmode
20050     \@tempdima #3\relax
20051     \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
20052     {#4}\nobreak
20053     \leaders\hbox{$\m@th
20054       \mkern \@dotsep mu\hbox{.}\mkern \@dotsep
20055       mu$}\hfill
20056     \nobreak
20057     \hb@xt@\@pnumwidth{{\hfil\normalfont \normalcolor #5}}%
20058     \par}%
20059   \fi}
20060
20061 \newcount\ bidi@column@check@number
20062
20063 \def\ bidi@column@status#1{\gdef\ bidi@current@column@status{#1}}
20064
20065 \def\ bidi@set@column@status#1#2{%
20066   \global\expandafter\let\csname #1\endcsname\ bidi@current@column@status}
20067
20068 \if@twocolumn
20069 \newcommand\DetectColumn[3][1]{%
20070   \ifx\ bidi@firstcolumn@status@write\relax
20071     \PackageError{bidi}%
20072     {Option 'DetectColumn' not selected}%
20073     {\string\DetectColumn\space
20074     requires the use of the 'DetectColumn'
20075     option on the package}%
20076   \fi
20077   \global\advance\ bidi@column@check@number\@ne
20078   \edef\ bidi@column@type{\expandafter\ifx
20079     \csname bidi@column-\the\ bidi@column@check@number\endcsname\relax
20080     0\else
20081     \csname bidi@column-\the\ bidi@column@check@number\endcsname
20082     \fi}%
20083   \ifcase \ bidi@column@type\relax
20084     \ifcase #1\or #2\or #3\fi % 0 not known use first column as default
20085   \or
20086     #2% % 1 First column
20087   \or
20088     #3% % 2 Second (Last column)

```



```

20089 \else
20090 \ERROR
20091 \fi
20092 \edef\next{\write\@auxout
20093   {\string\bidiset@column@status{\bidicolumn-\the\bidicolumn@check@number}%
20094    {\bidicolumn@type}}}%
20095 \next
20096 }
20097
20098 \AtEndDocument{\def\bidiset@column@status#1#2{%
20099   \ifnum #2=\bidicurrent@column@status\else
20100     \@tempwattrue
20101     \fi}%
20102 }
20103 \fi
20104
20105 \def\RTL@outputdblcol{%
20106   \if@firstcolumn
20107     \global\@firstcolumnfalse
20108     \global\setbox\@leftcolumn\copy\@outputbox
20109     \splitmaxdepth\maxdimen
20110     \vbadness\maxdimen
20111     \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
20112     \setbox\@outputbox\vsplit\@outputbox to\maxdimen
20113     \toks@{\expandafter{\topmark}}%
20114     \xdef\@firstcoltopmark{\the\toks@}%
20115     \toks@{\expandafter{\splitfirstmark}}%
20116     \xdef\@firstcolfirstmark{\the\toks@}%
20117     \ifx\@firstcolfirstmark\@empty
20118       \global\let\@setmarks\relax
20119     \else
20120       \gdef\@setmarks{%
20121         \let\firstmark\@firstcolfirstmark
20122         \let\topmark\@firstcoltopmark}%
20123     \fi
20124   \else
20125     \global\@firstcolumntrue
20126     \setbox\@outputbox\vbox{%
20127       \hb@xt@\textwidth{%
20128         \hskip \columnwidth
20129         \hfil
20130         {\normalcolor\vrule \@width\columnseprule}%
20131         \hfil
20132         \hb@xt@\columnwidth{%
20133           \bidifirstcolumn@status@write%
20134           \box\@leftcolumn \hss}%
20135         \hskip -\textwidth
20136         \hb@xt@\columnwidth{%
20137           \bidilastcolumn@status@write%
20138           \box\@outputbox \hss}%

```



```

20139     \hskip \columnsep
20140     \hskip \columnwidth }}%
20141 \combinedblfloats
20142 \setmarks
20143 \outputpage
20144 \begingroup
20145     \dblfloatplacement
20146     \startdblcolumn
20147     \whiles\if@fcolmade \fi{\@outputpage
20148     \startdblcolumn}%
20149 \endgroup
20150 \fi}%
20151
20152 \def\LTR@outputdblcol{%
20153     \if@firstcolumn
20154         \global\@firstcolumnfalse
20155         \global\setbox\@leftcolumn\copy\@outputbox
20156         \splitmaxdepth\maxdimen
20157         \vbadness\maxdimen
20158         \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
20159         \setbox\@outputbox\vsplit\@outputbox to\maxdimen
20160         \toks@\expandafter{\topmark}%
20161         \xdef\@firstcoltopmark{\the\toks@}%
20162         \toks@\expandafter{\splitfirstmark}%
20163         \xdef\@firstcolfirstmark{\the\toks@}%
20164         \ifx\@firstcolfirstmark\@empty
20165             \global\let\@setmarks\relax
20166         \else
20167             \gdef\@setmarks{%
20168                 \let\firstmark\@firstcolfirstmark
20169                 \let\topmark\@firstcoltopmark}%
20170         \fi
20171     \else
20172         \global\@firstcolumntrue
20173         \setbox\@outputbox\vbox{%
20174             \hb@xt@\textwidth{%
20175                 \hb@xt@\columnwidth{%
20176                     \bidi@firstcolumn@status@write%
20177                     \box\@leftcolumn \hss}%
20178                 \hfil
20179                 {\normalcolor\vrule \@width\columnseprule}%
20180                 \hfil
20181                 \hb@xt@\columnwidth{%
20182                     \bidi@lastcolumn@status@write%
20183                     \box\@outputbox \hss}}}%
20184     \combinedblfloats
20185     \setmarks
20186     \outputpage
20187     \begingroup
20188         \dblfloatplacement

```



```

20189      \@startdblcolumn
20190      \@whiles\if@fcolmade \fi{\@outputpage
20191      \@startdblcolumn}%
20192      \endgroup
20193 \fi}%
20194
20195
20196 \renewcommand{\@outputdblcol}{\if@RTLmain\RTL@outputdblcol\else\LTR@outputdblcol\fi}
20197 \newcommand{\RTLdblcol}{\renewcommand{\@outputdblcol}{\RTL@outputdblcol}}
20198 \newcommand{\LTRdblcol}{\renewcommand{\@outputdblcol}{\LTR@outputdblcol}}
20199 \def\LTRmarginpar{%
20200   \ifhmode
20201     \@bsphack
20202     \@floatpenalty -\@Mii
20203   \else
20204     \@floatpenalty -\@Miii
20205   \fi
20206   \ifinner
20207     \@parmoderr
20208     \@floatpenalty\z@
20209   \else
20210     \@next\@currbox\@freelist{}\}%
20211     \@next\@marbox\@freelist{\global\count\@marbox\m@ne}%
20212     {\@floatpenalty\z@
20213     \@fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}}%
20214   \fi
20215   \@ifnextchar [\@LTRxmpar\@LTRympar}
20216 \long\def\@LTRxmpar[#1]#2{%
20217   \@LTRsavemarbox\@marbox{#1}%
20218   \@LTRsavemarbox\@currbox{#2}%
20219   \@xympar}
20220 \long\def\@LTRympar#1{%
20221   \@LTRsavemarbox\@marbox{#1}%
20222   \global\setbox\@currbox\copy\@marbox
20223   \@xympar}
20224 \long\def \@LTRsavemarbox #1#2{%
20225   \global\setbox #1%
20226     \color@vbox
20227     \vtop{%
20228       \hsize\marginparwidth
20229       \@parboxrestore
20230       \@LTRmarginparreset
20231       #2%
20232       \@minipagefalse
20233       \outer@nobreak
20234       }%
20235   \color@endbox
20236 }
20237 \def \@LTRmarginparreset {%
20238   \reset@font

```



```

20239         \normalsize
20240         \@minipagetrue
20241         \everypar{\@minipagefalse\everypar{}\beginL}%
20242 }
20243 \def\RTLmarginpar{%
20244   \ifhmode
20245     \@bsphack
20246     \@floatpenalty -\@Mii
20247   \else
20248     \@floatpenalty-\@Miii
20249   \fi
20250   \ifinner
20251     \@parmoderr
20252     \@floatpenalty\z@
20253   \else
20254     \@next\@currbox\@freelist{}\}%
20255     \@next\@marbox\@freelist{\global\count\@marbox\m@ne}%
20256     {\@floatpenalty\z@
20257     \@fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}}%
20258   \fi
20259   \@ifnextchar [\@RTLxmpar\@RTLympar}
20260 \long\def\@RTLxmpar[#1]#2{%
20261   \@RTLSavemarbox\@marbox{#1}%
20262   \@RTLSavemarbox\@currbox{#2}%
20263   \@xympar}
20264 \long\def\@RTLympar#1{%
20265   \@RTLSavemarbox\@marbox{#1}%
20266   \global\setbox\@currbox\copy\@marbox
20267   \@xympar}
20268 \long\def \@RTLSavemarbox #1#2{%
20269   \global\setbox #1%
20270     \color@vbox
20271     \vtop{%
20272       \hsize\marginparwidth
20273       \@parboxrestore
20274       \@RTLmarginparreset
20275       #2%
20276       \@minipagefalse
20277       \outer@nobreak
20278     }%
20279   \color@endbox
20280 }
20281 \def \@RTLmarginparreset {%
20282   \reset@font
20283   \normalsize
20284   \@minipagetrue
20285   \everypar{\@minipagefalse\everypar{}\beginR}%
20286 }
20287 \def\@addmarginpar{\@next\@marbox\@currlist{\@cons\@freelist\@marbox
20288   \@cons\@freelist\@currbox}\@latexbug\@tempcnta\@ne

```





```

20289 \if@twocolumn
20290 \if@firstcolumn \@tempcnta\m@ne \fi
20291 \else
20292 \if@mparswitch
20293 \ifodd\c@page \else\@tempcnta\m@ne \fi
20294 \fi
20295 \if@reversemargin \@tempcnta -\@tempcnta \fi
20296 \fi
20297 \ifnum\@tempcnta <\z@ \global\setbox\@marbox\box\@currbox \fi
20298 \@tempdima\@mparbottom
20299 \advance\@tempdima -\@pageht
20300 \advance\@tempdima\ht\@marbox
20301 \ifdim\@tempdima >\z@
20302 \latex@warning@no@line {Marginpar on page \thepage\space moved}%
20303 \else
20304 \@tempdima\z@
20305 \fi
20306 \global\@mparbottom\@pageht
20307 \global\advance\@mparbottom\@tempdima
20308 \global\advance\@mparbottom\dp\@marbox
20309 \global\advance\@mparbottom\marginparpush
20310 \advance\@tempdima -\ht\@marbox
20311 \global\setbox \@marbox
20312 \vbox {\vskip \@tempdima
20313 \box \@marbox}%
20314 \global \ht\@marbox \z@
20315 \global \dp\@marbox \z@
20316 \kern -\@pagedp
20317 \nointerlineskip
20318 \hb@xt@\columnwidth
20319 {\if@RTL\if@LTRmarginpar\beginL\else\beginR\fi\else\if@RTLmarginpar\beginR\else\beginL\fi
20320 \hskip\columnwidth \hskip\marginparsep
20321 \else
20322 \hskip -\marginparsep \hskip -\marginparwidth
20323 \fi
20324 \box\@marbox \hss\if@RTL\if@LTRmarginpar\endL\else\endR\fi\else\if@RTLmarginpar\endR\fi
20325 \nointerlineskip
20326 \hbox{\vrule \@height\z@ \@width\z@ \@depth\@pagedp}}
20327 \long\def\@ympar#1{%
20328 \@savemarbox\@marbox{\if@RTL\if@LTRmarginpar\@RTLfalse\else\@RTLtrue\fi\else\if@RTLmarginpar
20329 \global\setbox\@currbox\copy\@marbox
20330 \@xympar}
20331 \def\setRTLmarginpar{\@RTLmarginpartrue\@LTRmarginparfalse}
20332 \def\setLTRmarginpar{\@LTRmarginpartrue\@RTLmarginparfalse}
20333 \def\setdefaultmarginpar{\@RTLmarginparfalse\@LTRmarginparfalse}
20334 \def\@stopline{\unskip\@stopfield\if@rjfield \global\@rjfieldfalse
20335 \@tempdima\@totalleftmargin \advance\@tempdima\linewidth
20336 \hbox to\@tempdima{\if@RTL\beginR\fi\@itemfudge\hskip\dimen\@curtabmar
20337 \box\@curline\hfil\box\@curfield\if@RTL\endR\fi}\else\@addfield
20338 \hbox to\linewidth{\if@RTL\beginR\fi\@itemfudge

```



```

20339 \hskip\dimen\@curtabmar\box\@curline\hfil\if@RTL\endR\fi}%
20340 \fi}
20341
20342 \newcommand*{\bidi@font@@outputpage}{%
20343
20344 \def\@outputpage{%
20345 \begingroup % the \endgroup is put in by \aftergroup
20346 \let \protect \noexpand
20347 \@resetactivechars
20348 \global\let\@if@newlist\if@newlist
20349 \global\@newlistfalse
20350 \@parboxrestore
20351 \shipout \vbox{%
20352 \set@typeset@protect
20353 \aftergroup \endgroup
20354 \aftergroup \set@typeset@protect
20355 % correct? or just restore by ending
20356 % the group?
20357 \if@specialpage
20358 \global\@specialpagefalse\@nameuse{ps@\@specialstyle}%
20359 \fi
20360 \if@twoside
20361 \ifodd\count\z@ \let\@thehead\@oddhead \let\@thefoot\@oddfoot
20362 \if@RTLmain
20363 \let\@themargin\evensidemargin
20364 \else
20365 \let\@themargin\oddsidemargin
20366 \fi
20367 \else \let\@thehead\@evenhead \let\@thefoot\@evenfoot
20368 \if@RTLmain
20369 \let\@themargin\oddsidemargin
20370 \else
20371 \let\@themargin\evensidemargin
20372 \fi
20373 \fi
20374 \ifx\@thehead\@empty \let\@thehead\hfil \fi
20375 \ifx\@thefoot\@empty \let\@thefoot\hfil \fi
20376 \else %% not @twoside
20377 \ifx\@oddhead\@empty \let\@thehead\hfil \fi
20378 \ifx\@oddfoot\@empty \let\@thefoot\hfil \fi
20379 \fi
20380 \reset@font
20381 \normalsize
20382 \bidi@font@@outputpage
20383 \normalsfcodes
20384 \let\label\@gobble
20385 \let\index\@gobble
20386 \let\glossary\@gobble
20387 \baselineskip\z@skip \lineskip\z@skip \lineskiplimit\z@
20388 \@begindvi

```



```

20389 \vskip \topmargin
20390 \moveright\@themargin \vbox {%
20391 \setbox\@tempboxa \vbox to\headheight{%
20392 \vfil
20393 \color@hbox
20394 \normalcolor
20395 \hb@xt@\textwidth{\if@RTLmain\@RTLtrue\beginR\else\@RTLfalse\beginL\fi\@thehead\if@
20396 \color@endbox
20397 }% %% 22 Feb 87
20398 \dp\@tempboxa \z@
20399 \box\@tempboxa
20400 \vskip \headsep
20401 \box\@outputbox
20402 \baselineskip \footskip
20403 \color@hbox
20404 \normalcolor
20405 \hb@xt@\textwidth{\if@RTLmain\@RTLtrue\beginR\else\@RTLfalse\beginL\fi\@thefoot\if@RT
20406 \color@endbox
20407 }%
20408 }%
20409 \global\let\if@newlist\@if@newlist
20410 \global \colht \textheight
20411 \stepcounter{page}%
20412 \let\firstmark\botmark
20413 }
20414 \long\def\@makecaption#1#2{%
20415 \vskip\abovecaptionskip
20416 \sbox\@tempboxa{#1: #2}%
20417 \ifdim \wd\@tempboxa >\hsize
20418 \if@RTL\beginR\fi#1: #2\if@RTL\endR\fi\par
20419 \else
20420 \global \minipagefalse
20421 \hb@xt@\hsize{\if@RTL\beginR\fi\hfil\box\@tempboxa\hfil\if@RTL\endR\fi}%
20422 \fi
20423 \vskip\belowcaptionskip}
20424 \let\@bidi@saved@eqno=\eqno
20425 \let\@bidi@saved@leqno=\leqno
20426 \def\eqno{\ifnum\predisplaydirection<\z@ \@bidi@saved@leqno \else \@bidi@saved@eqno \fi}
20427 \def\leqno{\ifnum\predisplaydirection<\z@ \@bidi@saved@eqno \else \@bidi@saved@leqno \fi}
20428 \ifpackageloaded{amsmath}{-}{-}
20429 \def\@eqnnum{\normalfont \normalcolor \if@RTL\beginR\fi(\theequation)\if@RTL\endR\fi}}
20430 }
20431 \input{footnote-xetex-bidi.def}
20432 \if@twocolumn
20433 \let\autofootnoterule\relax
20434 \let\leftfootnoterule\relax
20435 \let\rightfootnoterule\relax
20436 \textwidthfootnoterule
20437 \fi
20438 \if@bidi@csundef{idxitem}{-}{-}%

```



```

20439 \renewcommand\@idxitem{\par\hangindent \if@RTL-\fi40\p}%
20440 }
20441 \@ifpackageloaded{tocbasic}{\input{tocbasic-xetex-bidi.def}}{}
20442 \@ifclassloaded{article}{\@ifclassloaded{svmult}}{\input{article-xetex-bidi.def}}{}
20443 \@ifclassloaded{extarticle}{\input{extarticle-xetex-bidi.def}}{}
20444 \@ifclassloaded{artikel1}{\input{artikel1-xetex-bidi.def}}{}
20445 \@ifclassloaded{artikel2}{\input{artikel2-xetex-bidi.def}}{}
20446 \@ifclassloaded{artikel3}{\input{artikel3-xetex-bidi.def}}{}
20447 \@ifclassloaded{amsart}{\input{amsart-xetex-bidi.def}}{}
20448 \@ifclassloaded{letter}{\input{letter-xetex-bidi.def}}{}
20449 \@ifclassloaded{scrlettr}{\input{scrlettr-xetex-bidi.def}}{}
20450 \@ifclassloaded{extletter}{\input{extletter-xetex-bidi.def}}{}
20451 \@ifclassloaded{memoir}{\input{memoir-xetex-bidi.def}}{}
20452 \@ifclassloaded{refrep}{\input{refrep-xetex-bidi.def}}{}
20453 \@ifclassloaded{extreport}{\input{extreport-xetex-bidi.def}}{}
20454 \@ifclassloaded{report}{\@ifpackageloaded{flowfram}}{\input{report-xetex-bidi.def}}{}
20455 \@ifclassloaded{rapport1}{\input{rapport1-xetex-bidi.def}}{}
20456 \@ifclassloaded{rapport3}{\input{rapport3-xetex-bidi.def}}{}
20457 \@ifclassloaded{scrartcl}{\input{scrartcl-xetex-bidi.def}}{}
20458 \@ifclassloaded{scrbook}{\input{scrbook-xetex-bidi.def}}{}
20459 \@ifclassloaded{scrreprt}{\input{scrreprt-xetex-bidi.def}}{}
20460 \@ifclassloaded{amsbook}{\input{amsbook-xetex-bidi.def}}{}
20461 \@ifclassloaded{extbook}{\input{extbook-xetex-bidi.def}}{}
20462 \@ifclassloaded{boek}{\input{boek-xetex-bidi.def}}{}
20463 \@ifclassloaded{boek3}{\input{boek3-xetex-bidi.def}}{}
20464 \@ifclassloaded{book}{\@ifpackageloaded{flowfram}}{\input{book-xetex-bidi.def}}{}
20465 \@ifclassloaded{bookest}{\input{bookest-xetex-bidi.def}}{}
20466 \@ifclassloaded{combine}{\input{combine-xetex-bidi.def}}{}
20467 \@ifclassloaded{imsproc}{\input{imsproc-xetex-bidi.def}}{}
20468 \@ifpackageloaded{amsmath}{}{}
20469 \@iftagsloaded{leqno}{\input{leqno-xetex-bidi.def}}{}
20470 \@iftagsloaded{fleqn}{\input{fleqn-xetex-bidi.def}}{}
20471 }
20472 \@ifpackageloaded{mathtools}{\RequirePackage{graphicx}}{}
20473 \@ifpackageloaded{crop}{\RequirePackage{graphicx}}{}
20474 \@ifpackageloaded{sidecap}{\RequirePackage{ragged2e}}{}
20475 \@ifpackageloaded{floatrow}{\RequirePackage{color}}{}
20476 \@ifpackageloaded{algorithm2e}{\input{algorithm2e-xetex-bidi.def}}{}
20477 \@ifpackagewith{algorithm2e}{algonl}{%
20478 \renewcommand{\theAlgoLine}{\expandafter\csname the\algocf@float\endcsname\@SepMark\arabic{Al
20479 }}{}
20480 \@ifpackagewith{algorithm2e}{algotart}{\renewcommand{\algocf@within}{part}}{}
20481 \@ifpackagewith{algorithm2e}{algochapter}{\renewcommand{\algocf@within}{chapter}}{}
20482 \@ifpackagewith{algorithm2e}{algotsection}{\renewcommand{\algocf@within}{section}}{}
20483 \@ifpackageloaded{amsmath}{\input{amsmath-xetex-bidi.def}}{}
20484 \@ifpackageloaded{amstext}{\input{amstext-xetex-bidi.def}}{}
20485 \@ifpackageloaded{amsthm}{\input{amsthm-xetex-bidi.def}}{}
20486 \@ifpackageloaded{animate}{\input{animate-xetex-bidi.def}}{}
20487 \@ifpackageloaded{breqn}{\input{breqn-xetex-bidi.def}}{}
20488 \@ifpackageloaded{cals}{\input{cals-xetex-bidi.def}}{}

```



```

20489 \@ifpackageloaded{caption}{\input{caption-xetex-bidi.def}}{}
20490 \@ifpackageloaded{caption3}{\input{caption3-xetex-bidi.def}}{}
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20494 \@ifpackageloaded{cutwin}{\input{cutwin-xetex-bidi.def}}{}
20495 \@ifpackageloaded{cuted}{\input{cuted-xetex-bidi.def}}{}
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20525 \@iftexfileloaded{pstricks}{\input{pstricks-xetex-bidi.def}}{}
20526 \@iftexfileloaded{pgfcorescopes.code}{\input{pgfcorescopes.code-xetex-bidi.def}}{}
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20528 \@ifpackageloaded{titletoc}{\input{titletoc-xetex-bidi.def}}{}
20529 \@ifpackageloaded{array}{\input{array-xetex-bidi.def}}{}
20530 \@ifpackageloaded{sidecap}{\input{sidecap-xetex-bidi.def}}{}
20531 \@ifpackagewith{sidecap}{innercaption}{%
20532 \ifRTL \renewcommand*{\SC@FLOAT}[2]{%
20533 \isSC@ODD{#2}\hspace{\sidecaptionsep}{#1}} {{#1}\hspace{\sidecaptionsep}{#2}}
20534 \renewcommand*{\SC@justify@caption{%
20535 \isSC@ODD{\RaggedRight}{\RaggedLeft}}\else
20536 \renewcommand*{\SC@FLOAT}[2]{%
20537 \isSC@ODD{#1}\hspace{\sidecaptionsep}{#2}} {{#2}\hspace{\sidecaptionsep}{#1}}
20538 \renewcommand*{\SC@justify@caption{%

```



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20539 \isSC@ODD{\RaggedLeft}{\RaggedRight}}\fi
20540 }{}
20541 \@ifpackagewith{sidecap}{rightcaption}{%
20542 \if@RTL\renewcommand*{\SC@FLOAT}[2]{{#1}\hspace{\sidecaptionsep}{#2}}
20543 \def\SC@justify@caption{\RaggedLeft}\else%
20544 \renewcommand*{\SC@FLOAT}[2]{{#2}\hspace{\sidecaptionsep}{#1}}
20545 \def\SC@justify@caption{\RaggedRight}\fi%
20546 }{}
20547 \@ifpackagewith{sidecap}{leftcaption}{%
20548 \if@RTL \renewcommand*{\SC@FLOAT}[2]{{#2}\hspace{\sidecaptionsep}{#1}}
20549 \def\SC@justify@caption{\RaggedRight}\else%
20550 \renewcommand*{\SC@FLOAT}[2]{{#1}\hspace{\sidecaptionsep}{#2}}
20551 \def\SC@justify@caption{\RaggedLeft}\fi%
20552 }{}
20553 \@ifpackageloaded{soul}{\input{soul-xetex-bidi.def}}{}
20554 \@ifpackageloaded{stabular}{\input{stabular-xetex-bidi.def}}{}
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20557 \@ifpackageloaded{mdframed}{\input{mdframed-xetex-bidi.def}}{}
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20573 \@ifpackageloaded{tocloft}{\@ifclassloaded{memoir}}{\input{tocloft-xetex-bidi.def}}{}
20574 \@ifdefinitionfileloaded{tc-xetex}{\input{tc-xetex-bidi.def}}{}
20575 \@ifpackageloaded{todonotes}{\input{todonotes-xetex-bidi.def}}{}

```

## 7.124 xltextra-xetex-bidi.def

```

20576 \ProvidesFile{xltextra-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for xltextra package fo
20577 \let\@XeTeX\XeTeX
20578 \def\XeTeX{\@ensure@LTR{\@XeTeX}}
20579 \let\@XeLaTeX\XeLaTeX
20580 \def\XeLaTeX{\@ensure@LTR{\@XeLaTeX}}

```



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15907,	15911,	18074,	18076,	. . . . . 10619,	10640
15912,	15917,	18077,	18079,	\zref@labelbyprops	
15921,	15922,	18087,	18092,	. . . . . 10585,	10660





\ .....	1915		\ .....	1915	
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## 9 Change History

v13.9					
General: Added implementaion of the					
package. ....		o	toc, lot, lof, etc with multicol		
			package. ....	313	
v14.2			v14.3		
General: Fixed the wrong order of			General: Removed \leavevmode to		
			avoid extra \par. ....	142	

