The bidi *Package*

Documentation for version 19.1

to my Master, ***Ferdowsi The Great***

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https://github.com/persian-tex/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 bidi *Package*

Bidirectional typesetting in plain TEX and LATEX, using XeTEX engine

Documentation for version 19.1

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Introduction

bidi provides a convenient interface for typesetting bidirectional texts in plain TEX and LATEX, 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--2015 Vafa Khalighi
*
* 2015/12/07, v19.1
*
* License: LaTeX Project Public License, version
* 1.3c or higher (your choice)
*
* Location on CTAN: /macros/xetex/latex/bidi
*
* Issue tracker: https://github.com/persian-tex/bidi/issues
*
* Support: persian-tex@tug.org
**************************************************
```

Part I
LATEX Manual

1 Basics

1.1 Loading The Package

You can load the package in the ordinary way;

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

Where options of the package are explained later in subsection 1.5.
When loading the package, it is important to know that:

❶ bidi should be the last package that you load, because otherwise you are certainly going to overwrite bidi's definitions and consequently, you will not get the expected output.

❷ In fact, bidi makes sure that some specific packages are loaded before bidi; these are those packages that bidi modifies them for bidirectional typesetting.

If you load bidi before any of these packages, then you will get an error saying that you should load bidi as your last package.

For instance, consider the following minimal example:

```
\documentclass{minimal}
\usepackage{bidi}
\usepackage{graphicx}
\begin{document}
This is just a test.
\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.
 ...

l.4 \begin{document}

?
```

1.2 bidi's Symbol

As you may know lion symbolizes TEX but lion does not symbolizes bidi. **Simorgh**[1] (shown on the first page of this documentation) symbolizes bidi.

[1] **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.

```
\documentclass{article}
\usepackage{bidi}
\begin{document}
This is typeset by \textsf{bidi} package, \bidiversion, \bididate.
\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 essentialy 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  \sevencolumnfootnotes
\eightcolumnfootnotes  \ninecolumnfootnotes  \tencolumnfootnotes
\RTLcolumnfootnotes  \LTRcolumnfootnotes
\paragraphfootnotes
\setLTRparagraphfootnotes  \setRTLparagraphfootnotes
```

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

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

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

☞ `\paragraphfootnotes` typesets footnotes in paragraph format.

☞ `\setLTRparagraphfootnotes` makes footnotes run from left to right. This comand 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%
```

```
Anyone who reads Old and Middle English literary texts will be
 familiar with the mid-brown volumes of the EETS, with the symbol
 of Alfred's jewel embossed on the front cover.

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

1.7 Pargraph 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.

```
\documentclass{article}
\usepackage{bidi}
\begin{document}
\begin{RTL}
Anyone who reads Old and Middle English literary texts will be familiar
 with the mid-brown volumes of the EETS, with the symbol
 of Alfred's jewel embossed on the front cover.
\begin{LTR}
Anyone who reads Old and Middle English literary texts will be familiar
 with the mid-brown volumes of the EETS, with the symbol
 of Alfred's jewel embossed on the front cover.
\end{LTR}
And we are still typesetting RTL.
\end{RTL}
\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.

```
\begin{document}
\begin{RTL}
Anyone who reads Old and Middle English \LRE{Short LTR text} literary
texts will be familiar
 with the mid-brown volumes of the EETS, with the symbol
 of Alfred's jewel embossed on the front cover.
\begin{LTR}
Anyone who reads Old and Middle English \RLE{Short RTL text} literary
texts will be familiar
 with the mid-brown volumes of the EETS, with the symbol
 of Alfred's jewel embossed on the front cover.
\end{LTR}
\end{RTL}
\end{document}
```

1.9 Footnotes

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

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

```
\footnotetext [num] {⟨text⟩}  \LTRfootnotetext [num] {⟨text⟩}
\RTLfootnotetext [num] {⟨text⟩}
```

☞ `\footnotetext` used in conjunction with `\footnotemark`, in RTL mode produces an RTL footnote while in LTR mode it produces an LTR footnote.

☞ `\LTRfootnotetext` used in conjunction with `\footnotemark`, will always produce an LTR footnote, independent on the current mode.

☞ `\RTLfootnotetext` used in conjunction with `\footnotemark`, will always produce an RTL footnote, independent on the current mode.

1.9.1 Footnote Rule

The behavior of footnote rules can also be controlled.

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

☞ `\autofootnoterule` will draw the footnote rule right or left aligned based on the direction of the first footnote following the rule (i.e., put in the current page).

☞ `\rightfootnoterule` will put footnote rule on the right-hand side.

☞ `\leftfootnoterule` or `\LRfootnoterule` will put footnote rule on the left-hand side.

☞ `\textwidthfootnoterule` will draw the footnote rule with a width equal to `\textwidth`.

☞ `\SplitFootnoteRule` puts a full-width rule above the split-off part of a split footnote.

☞ `\debugfootnotedirection` writes the direction of the first footnote on each page, in the log file.

1.10 Two Column Typesetting

```
\RTLdblcol  \LTRdblcol
```

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

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

1.11 RTL cases

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

```
\RTLcases{\text{⟨brach1⟩}\cr\text{⟨brach2⟩}\cr \text{⟨brach3⟩}...}
\text{⟨main⟩}}
```

\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.

```
\documentclass{article}
\usepackage{amsmath}
\usepackage{bidi}
\begin{document}
\setRTL
\[\RTLcases{\text{men}\cr\text{women}}
\text{Humans Beings}
\]
\end{document}
```

1.12 Typesetting Logos

```
\XeTeX  \XeLaTeX
```

bidi defines XeTEX and XeLATEX logos and in addition, it makes sure that logos, TEX, LATEX, LATEX 2ε are typeset LTR.

1.13 Separation Mark

```
\SepMark{⟨mark⟩}  \@SepMark
```

Generally in Standard LATEX, dot is used for separation between section numbers, equation numbers any anything else which needs to be seperated. You can use \SepMark to use any other mark as the seperation mark instead a dot.

```
\documentclass{article}
\usepackage{bidi}
\SepMark{-}
\begin{document}
\section{First}
\subsection{Second}
\subsubsection{Third}
\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.

```
\documentclass{article}
\usepackage{bidi}
\SepMark{-}
\makeatletter
\renewcommand\theequation{\thesection\@SepMark\@arabic\c@equation}
\makeatother
\begin{document}
\section{First}
\begin{equation}
x^2+y^2=z^2
\end{equation}
\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 exatly the same as the syntax of `\hbox`, but its contents is always typeset RTL.
- ☞ The syntax of `\hboxL` is exatly the same as the syntax of `\hbox`, but its contents is always typeset LTR.
- ☞ The syntax of `\vboxR` is exatly the same as the syntax of `\vbox`, but its contents is always typeset RTL.
- ☞ The syntax of `\vboxL` is exatly 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:

```
\documentclass{article}
\usepackage{bidi}
\setRTL
\begin{document}
\hbox{This is a Test}
\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:

```
\documentclass{article}
\usepackage{bidi}
\setRTL
\begin{document}
\leavevmode\hbox{This is a Test}
\end{document}
```

1.17 \bidillap and \bidirlap Commands

In RTL mode, \llap and \rlap do oposite things. Since these two macros are used in a lot of classes and packages, instead 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:

```
\documentclass{article}
\begin{document}
Anyone who reads Old and Middle English literary texts will be familiar
with the mid-brown volumes of the EETS, with the symbol of Alfred's
\begin{enumerate}
\item Anyone who reads Old and Middle English literary texts will be
familiar with the mid-brown volumes of the EETS, with the symbol of
Alfred's
\item Anyone who reads Old and Middle English literary texts will be
familiar with the mid-brown volumes of the EETS, with the symbol of
Alfred's
\end{enumerate}
\end{document}
```

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

```
\documentclass{article}
\usepackage{bidi}
```

```
\begin{document}
Anyone who reads Old and Middle English literary texts will be familiar
with the mid-brown volumes of the EETS, with the symbol of Alfred's
\begin{enumerate}
\item Anyone who reads Old and Middle English literary texts will be
familiar with the mid-brown volumes of the EETS, with the symbol of
Alfred's
\setRTL
\item Anyone who reads Old and Middle English literary texts will be
familiar with the mid-brown volumes of the EETS, with the symbol of
Alfred's
\end{enumerate}
\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:

```
\documentclass{article}
\usepackage{bidi}
\begin{document}
Anyone who reads Old and Middle English literary texts will be familiar
with the mid-brown volumes of the EETS, with the symbol of Alfred's
\begin{enumerate}
\item Anyone who reads Old and Middle English literary texts will be
familiar with the mid-brown volumes of the EETS, with the symbol of
Alfred's
\begin{RTLitems}
\item Anyone who reads Old and Middle English literary texts will be
familiar with the mid-brown volumes of the EETS, with the symbol of
Alfred's
\end{RTLitems}
\end{enumerate}
\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

`\setLTRbibitems` `\setRTLbibitems` `\setdefaultbibitems`

☞ If your whole thebibliography environment is inside RTL mode, but all your `\bibitems` are LTR and you actually want to have `\bibname` to appear on the RHS, you can use `\setLTRbibitems` command before thebibliography environment.

☞ If your whole thebibliography environment is inside LTR mode, but all your `\bibitems` are RTL and you actually want to have `\bibname` to appear on the LHS, you can use `\setRTLbibitems` command before thebibliography environment.

☞ `\setdefaultbibitems` is the default, when your `\bibitems` are a mixture of LTR and RTL and it does not matter what mode (LTR or RTL) your thebibliography environment is in. Please note that you do not have to use `\setdefaultbibitems` command in this case at all.

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

```
\documentclass{article}
\usepackage{bidi}
\begin{document}
\begin{thebibliography}{99}
\bibitem This is the first bibitem which is LTR.
\begin{RTLbibitems}
\bibitem This is the second bibitem which is RTL.
\end{RTLbibitems}
\end{thebibliography}
\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, hvfloat, hyperref, lettrine, listings, mdframed, midfloat, minitoc, multicol, multienum, newfloat, pdfpages, pstricks, quotchap, picinpar, ragged2e, rotating, sidecap, stabular,

subfig, subfigure, supertabular, xtab, tabls, tabulary, PGF & TIKZ, tocbibind, tocloft, tocstyle, wrapfig, xcolor, xltxtra 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:

`\RTLdfnmakecol`	`\LTRdfnmakecol`

- ☞ `\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` commonds 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 proveded:

```
\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 bidi-longtable package

For typesetting RTL tables with longtable package, an experimental package, bidi-longtable package, is provided. bidi-longtable package should be loaded after longtable package.

3.2 biditufte bundle

A modified version of tufte-latex, biditufte bundle, mainly for RTL typesetting, is provided. If you never used biditufte 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-book and biditufte-handout classes provide two extra options; RTLgeometry (active when loading either of classes) and LTRgeometry.
- ☞ 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.

3.3 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`, `\subsection` 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.

3.4 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{⟨length⟩}
```

```
\begin{traditionalpoem}
⟨verse1⟩&⟨verse2⟩\\
⟨verse3⟩&⟨verse4⟩\\
...
\end{traditionalpoem}
```

```
\begin{traditionalpoem*}
⟨verse1⟩&⟨verse2⟩
⟨verse3⟩&⟨verse4⟩
...
\end{traditionalpoem*}
```

3.5 Typesetting Resumé

The bidi package provides bidimoderncv[2] class for typesetting resumés. 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.

3.6 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.

[2] This class is the modified version of moderncv class.

3.7 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{⟨\newconditional1⟩}{⟨\newconditional2⟩}`

In standard 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.
- ☞ `\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@Latin`

`\if@Latin` inside any environment that uses Latin font is true and inside any environment that uses RTL font is false.

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 TEX 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.

```
\input bidi
\setRTL%
Anyone who reads Old and Middle English literary texts will be
 familiar with the mid-brown volumes of the EETS, with the symbol
 of Alfred's jewel embossed on the front cover.

\setLTR% Notice the blank line before \setLTR
Anyone who reads Old and Middle English literary texts will be
 familiar with the mid-brown volumes of the EETS, with the symbol
 of Alfred's jewel embossed on the front cover.
\end
```

5.5 Pargraph Switching Environments

\LTR	⟨*text*⟩	\endLTR
\RTL	⟨*text*⟩	\endRTL

☞ With `LTR` environment, you can typeset LTR paragraphs.

☞ With RTL environment, you can typeset RTL paragraphs.

```
\input bidi
\RTL
Anyone who reads Old and Middle English literary texts will be familiar
 with the mid-brown volumes of the EETS, with the symbol
 of Alfred's jewel embossed on the front cover.
\LTR
Anyone who reads Old and Middle English literary texts will be familiar
 with the mid-brown volumes of the EETS, with the symbol
 of Alfred's jewel embossed on the front cover.
\endLTR
And we are still typesetting right to left.
\endRTL
\end
```

5.6 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.

```
\input bidi
\RTL
Anyone who reads Old and Middle English \LRE{Short left to right text}
literary texts will be familiar
 with the mid-brown volumes of the EETS, with the symbol
 of Alfred's jewel embossed on the front cover.
\LTR
Anyone who reads Old and Middle English \RLE{Short right to left text}
literary texts will be familiar
 with the mid-brown volumes of the EETS, with the symbol
 of Alfred's jewel embossed on the front cover.
\endLTR
\endRTL
\end
```

5.7 Primitive-like commands

\hboxR	\hboxL	\vboxR	\vboxL

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

```
\input bidi
\setRTL
\hbox{This is a Test}
\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 TEX starts, it is in the vertical mode so if you need to have that \hbox appear RTL, then write \leavevmode before \hbox:

```
\input bidi
\setRTL
\leavevmode\hbox{This is a Test}
\end
```

5.9 Typesetting Logos

\XeTeX

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

6 Some Useful Internal Macros and Programming Tips

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

6.1 RTL Conditional

`\if@RTL`

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

6.2 Main RTL Conditional

`\if@RTLmain`

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

6.3 Direction Ensuring Macros

`\@ensure@RTL{`⟨*text*⟩`}` `\@ensure@RL{`⟨*text*⟩`}` `\@ensure@LTR{`⟨*text*⟩`}`
`\@ensure@LR{`⟨*text*⟩`}` `\@ensure@dir{`⟨*text*⟩`}` `\@ensure@maindir{`⟨*text*⟩`}`

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

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

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

6.4 Reset Direction Macro

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

☞ `\save@dir`, if the direction of typesetting is RTL, defines `\saved@@dir` to be RTL and if the direction of typesetting is LTR, defines `\saved@@dir` to be LTR.

☞ `\reset@dir`, if `\saved@@dir` is defined as RTL, inserts `\setRTL` otherwise, if `\saved@@dir` is defined as LTR, inserts `\setLTR`, otherwise does nothing.

7 bidi implementation

7.1 amsart-xetex-bidi.def

```
1 \ProvidesFile{amsart-xetex-bidi.def}[2015/11/14 v0.9 bidi adaptations for amsart class for XeTeX
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
```

```
    \@ifempty{#4}{%
      \@tempdima\csname r@tocindent\number#1\endcsname\relax
    }{%
      \@tempdima#4\relax
    }%
   \parindent\z@ \if@RTL\rightskip\else\leftskip\fi#3\relax \advance\if@RTL\rightskip\else\lef
   \if@RTL\leftskip\else\rightskip\fi\@pnumwidth plus4em \parfillskip-\@pnumwidth
    #5\leavevmode\hskip-\@tempdima #6\nobreak\relax
    \hfil\hbox to\@pnumwidth{\@tocpagenum{#7}}\par
    \nobreak
    \endgroup
  \fi}
\renewcommand\thesubsection    {\thesection\@SepMark\arabic{subsection}}
\renewcommand\thesubsubsection {\thesubsection \@SepMark\arabic{subsubsection}}
\renewcommand\theparagraph    {\thesubsubsection\@SepMark\arabic{paragraph}}
\renewcommand\thesubparagraph {\theparagraph\@SepMark\arabic{subparagraph}}
\def\part{\@startsection{part}{0}%
  \z@{\linespacing\@plus\linespacing}{.5\linespacing}%
  {\normalfont\bfseries\if@RTL\raggedleft\else\raggedright\fi}}
\def\right@footnoterule{%
  \kern-.4\p@
  \hbox to \columnwidth{\hskip \dimexpr\columnwidth-5pc\relax \hrulefill }
  \kern11\p@\kern-\footnotesep}
\def\left@footnoterule{\kern-.4\p@
        \hrule\@width 5pc\kern11\p@\kern-\footnotesep}


\long\def\@footnotetext#1{%
  \insert\footins{%
    \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
    \normalfont\footnotesize
    \interlinepenalty\interfootnotelinepenalty
    \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
    \floatingpenalty\@MM \hsize\columnwidth
    \@parboxrestore \parindent\normalparindent \sloppy
    \protected@edef\@currentlabel{%
      \csname p@footnote\endcsname\@thefnmark}%
    \@makefntext{%
      \rule\z@\footnotesep\ignorespaces#1\unskip\strut\par}}}

\long\def\@RTLfootnotetext#1{%
  \insert\footins{%
    \@RTLtrue%
    \normalfont\footnotesize
    \interlinepenalty\interfootnotelinepenalty
    \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
    \floatingpenalty\@MM \hsize\columnwidth
    \@parboxrestore \parindent\normalparindent \sloppy
    \protected@edef\@currentlabel{%
      \csname p@footnote\endcsname\@thefnmark}%
```

```
    \@makefntext{%
      \rule\z@\footnotesep\ignorespaces#1\unskip\strut\par}}}


\long\def\@LTRfootnotetext#1{%
  \insert\footins{%
    \@RTLfalse%
    \normalfont\footnotesize
    \interlinepenalty\interfootnotelinepenalty
    \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
    \floatingpenalty\@MM \hsize\columnwidth
    \@parboxrestore \parindent\normalparindent \sloppy
    \protected@edef\@currentlabel{%
      \csname p@footnote\endcsname\@thefnmark}%
    \@makefntext{%
      \rule\z@\footnotesep\ignorespaces#1\unskip\strut\par}}}

\footdir@temp\footdir@ORG@bidi@amsart@footnotetext\@footnotetext{\bidi@footdir@footnote}%
\footdir@temp\footdir@ORG@bidi@amsart@RTLfootnotetext\@RTLfootnotetext{R}%
\footdir@temp\footdir@ORG@bidi@amsart@LTRfootnotetext\@LTRfootnotetext{L}%

\renewenvironment{thebibliography}[1]{%
  \@bibtitlestyle
  \normalfont\bibliofont\labelsep .5em\relax
  \renewcommand\theenumiv{\arabic{enumiv}}\let\p@enumiv\@empty
 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
  \list{\@biblabel{\theenumiv}}{\settowidth\labelwidth{\@biblabel{#1}}%
    \leftmargin\labelwidth \advance\leftmargin\labelsep
    \usecounter{enumiv}}%
  \sloppy \clubpenalty\@M \widowpenalty\clubpenalty
  \sfcode`\.=\@m
}{%
  \def\@noitemerr{\@latex@warning{Empty `thebibliography' environment}}%
  \endlist
}
\def\theindex{\@restonecoltrue\if@twocolumn\@restonecolfalse\fi
  \columnseprule\z@ \columnsep 35\p@
  \@indextitlestyle
  \thispagestyle{plain}%
  \let\item\@idxitem
  \parindent\z@  \parskip\z@\@plus.3\p@\relax
  \if@RTL\raggedleft\else\raggedright\fi
  \hyphenpenalty\@M
  \footnotesize}
\def\@idxitem{\par\hangindent \if@RTL-\fi2em}
\def\subitem{\par\hangindent \if@RTL-\fi2em\hspace*{1em}}
\def\subsubitem{\par\hangindent \if@RTL-\fi3em\hspace*{2em}}
\def\maketitle{\par
```

```
  \@topnum\z@ % this prevents figures from falling at the top of page 1
  \@setcopyright
  \thispagestyle{firstpage}% this sets first page specifications
  \uppercasenonmath\shorttitle
  \ifx\@empty\shortauthors \let\shortauthors\shorttitle
  \else \andify\shortauthors
  \fi
  \@maketitle@hook
  \begingroup
  \@maketitle
  \toks@\@xp{\shortauthors}\@temptokena\@xp{\shorttitle}%
  \toks4{\def\\{ \ignorespaces}}% defend against questionable usage
  \edef\@tempa{%
    \@nx\markboth{\the\toks4
      \@nx\MakeUppercase{\the\toks@}}{\the\@temptokena}}%
  \@tempa
  \endgroup
  \c@footnote\z@
  \@cleartopmattertags
}
```

7.2 adjmulticol-xetex-bidi.def

```
\ProvidesFile{adjmulticol-xetex-bidi.def}[2015/04/25 v0.1 bidi adaptations for adjmulticol packa
\def\adjmulticols#1#2#3{\col@number#1\relax
  \def\@tempa{#2}%
  \ifx\@tempa\@empty\adjmc@inner\z@\else\adjmc@inner#2\fi
  \def\@tempa{#3}%
  \ifx\@tempa\@empty\adjmc@outer\z@\else\adjmc@outer#3\fi
  \ifnum\col@number<\@ne
     \PackageWarning{adjmulticol}%
      {Using `\number\col@number'
       columns doesn't seem a good idea.^^J
       I therefore use one columns instead}%
     \col@number\@ne\fi
  \ifnum\col@number>10
     \PackageError{adjmulticol}%
      {Too many columns}%
      {Current implementation doesn't
       support more than 10 columns.%
       \MessageBreak
       I therefore use 10 columns instead}%
     \col@number10 \fi
     \ifx\@footnotetext\mult@footnotetext\else
       \let\orig@footnotetext\@footnotetext
       \let\@footnotetext\mult@footnotetext
     \fi
     \ifx\@LTRfootnotetext\mult@LTRfootnotetext\else
       \let\orig@LTRfootnotetext\@LTRfootnotetext
       \let\@LTRfootnotetext\mult@LTRfootnotetext
```

```
    \fi
    \ifx\@RTLfootnotetext\mult@RTLfootnotetext\else
      \let\orig@RTLfootnotetext\@RTLfootnotetext
      \let\@RTLfootnotetext\mult@RTLfootnotetext
    \fi
  \@ifnextchar[\adjmult@cols{\adjmult@cols[]}}
\let\adjmc@page@sofar@orig=\page@sofar
```

7.3 algorithm2e-xetex-bidi.def

```
\ProvidesFile{algorithm2e-xetex-bidi.def}[2015/02/01 v0.1 bidi adaptations for algorithm2e packs
\expandafter\ifx\csname algocf@within\endcsname\relax% if \algocf@within doesn't exist
\else%                                          else
\renewcommand\thealgocf{\csname the\algocf@within\endcsname\@SepMark\@arabic\c@algocf}%
\fi%

\def\@algocf@pre@boxed{\noindent\begin{bidi@lrbox}{\algocf@algoframe}}
\def\@algocf@post@boxed{\end{bidi@lrbox}\framebox[\hsize]{\box\algocf@algoframe}\par}%
\def\@algocf@pre@boxruled{\noindent\begin{bidi@lrbox}{\algocf@algoframe}}%
\def\@algocf@post@boxruled{\end{bidi@lrbox}\framebox[\hsize]{\box\algocf@algoframe}\par}%
\renewcommand{\@algocf@start}{%
  \@algoskip%
  \begin{bidi@lrbox}{\algocf@algobox}%
  \setlength{\algowidth}{\hsize}%
  \vbox\bgroup% save all the algo in a box
  \hbox to\algowidth\bgroup\hbox to \algomargin{\hfill}\vtop\bgroup%
  \ifthenelse{\boolean{algocf@slide}}{\parskip 0.5ex\color{black}}{}%
  % initialization
  \addtolength{\hsize}{-1.5\algomargin}%
 \let\@mathsemicolon=\;\def\;{\ifmmode\@mathsemicolon\else\@endalgoln\fi}%
  \raggedright\AlFnt{}%
  \ifthenelse{\boolean{algocf@slide}}{\IncMargin{\skipalgocfslide}}{}%
  \@algoinsideskip%
%   \let\@emathdisplay=\]\def\]{\algocf@endline\@emathdisplay\nl}%
}%
\renewcommand{\@algocf@finish}{%
  \@algoinsideskip%
  \egroup%end of vtop which contain all the text
  \hfill\egroup%end of hbox wich contains [margin][vtop]
  \ifthenelse{\boolean{algocf@slide}}{\DecMargin{\skipalgocfslide}}{}%
  %
  \egroup%end of main vbox
  \end{bidi@lrbox}%
  \algocf@makethealgo% print the algo
  \@algoskip%
  % restore dimension and macros
  \setlength{\hsize}{\algowidth}%
  \lineskip\normallineskip\setlength{\skiptotal}{\@defaultskiptotal}%
  \let\;=\@mathsemicolon%
  \let\]=\@emathdisplay%
```

```
}%
```

7.4 amsbook-xetex-bidi.def

```
\ProvidesFile{amsbook-xetex-bidi.def}[2015/11/14 v1.0 bidi adaptations for amsbook class for XeT
\def\@tocline#1#2#3#4#5#6#7{\relax
  \ifnum #1>\c@tocdepth % then omit
  \else
    \par \addpenalty\@secpenalty\addvspace{#2}%
    \begingroup \hyphenpenalty\@M
    \@ifempty{#4}{%
      \@tempdima\csname r@tocindent\number#1\endcsname\relax
    }{%
      \@tempdima#4\relax
    }%
   \parindent\z@ \if@RTL\rightskip\else\leftskip\fi#3\relax \advance\if@RTL\rightskip\else\lef
   \if@RTL\leftskip\else\rightskip\fi\@pnumwidth plus4em \parfillskip-\@pnumwidth
    #5\leavevmode\hskip-\@tempdima #6\nobreak\relax
    \hfil\hbox to\@pnumwidth{\@tocpagenum{#7}}\par
    \nobreak
    \endgroup
  \fi}
\renewcommand\thesubsection    {\thesection\@SepMark\arabic{subsection}}
\renewcommand\thesubsubsection {\thesubsection \@SepMark\arabic{subsubsection}}
\renewcommand\theparagraph    {\thesubsubsection\@SepMark\arabic{paragraph}}
\renewcommand\thesubparagraph {\theparagraph\@SepMark\arabic{subparagraph}}
\def\theindex{\@restonecoltrue\if@twocolumn\@restonecolfalse\fi
  \columnseprule\z@ \columnsep 35\p@
  \@indextitlestyle
  \thispagestyle{plain}%
  \let\item\@idxitem
  \parindent\z@  \parskip\z@\@plus.3\p@\relax
  \if@RTL\raggedleft\else\raggedright\fi
  \hyphenpenalty\@M
  \footnotesize}
\def\@idxitem{\par\hangindent \if@RTL-\fi2em}
\def\subitem{\par\hangindent \if@RTL-\fi2em\hspace*{1em}}
\def\subsubitem{\par\hangindent \if@RTL-\fi3em\hspace*{2em}}
\def\right@footnoterule{%
  \kern-.4\p@
  \hbox to \columnwidth{\hskip \dimexpr\columnwidth-5pc\relax \hrulefill }
  \kern11\p@\kern-\footnotesep}
\def\left@footnoterule{\kern-.4\p@
        \hrule\@width 5pc\kern11\p@\kern-\footnotesep}

\long\def\@footnotetext#1{%
  \insert\footins{%
   \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
    \normalfont\footnotesize
    \interlinepenalty\interfootnotelinepenalty
```

```
    \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
    \floatingpenalty\@MM \hsize\columnwidth
    \@parboxrestore \parindent\normalparindent \sloppy
    \protected@edef\@currentlabel{%
      \csname p@footnote\endcsname\@thefnmark}%
    \@makefntext{%
      \rule\z@\footnotesep\ignorespaces#1\unskip\strut\par}}}

\long\def\@RTLfootnotetext#1{%
  \insert\footins{%
   \@RTLtrue%
    \normalfont\footnotesize
    \interlinepenalty\interfootnotelinepenalty
    \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
    \floatingpenalty\@MM \hsize\columnwidth
    \@parboxrestore \parindent\normalparindent \sloppy
    \protected@edef\@currentlabel{%
      \csname p@footnote\endcsname\@thefnmark}%
    \@makefntext{%
      \rule\z@\footnotesep\ignorespaces#1\unskip\strut\par}}}


\long\def\@LTRfootnotetext#1{%
  \insert\footins{%
   \@RTLfalse%
    \normalfont\footnotesize
    \interlinepenalty\interfootnotelinepenalty
    \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
    \floatingpenalty\@MM \hsize\columnwidth
    \@parboxrestore \parindent\normalparindent \sloppy
    \protected@edef\@currentlabel{%
      \csname p@footnote\endcsname\@thefnmark}%
    \@makefntext{%
      \rule\z@\footnotesep\ignorespaces#1\unskip\strut\par}}}



\footdir@temp\footdir@ORG@bidi@amsbook@footnotetext\@footnotetext{\bidi@footdir@footnote}%
\footdir@temp\footdir@ORG@bidi@amsbook@RTLfootnotetext\@RTLfootnotetext{R}%
\footdir@temp\footdir@ORG@bidi@amsbook@LTRfootnotetext\@LTRfootnotetext{L}%

\renewenvironment{thebibliography}[1]{%
  \@bibtitlestyle
  \normalfont\bibliofont\labelsep .5em\relax
  \renewcommand\theenumiv{\arabic{enumiv}}\let\p@enumiv\@empty
 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
  \list{\@biblabel{\theenumiv}}{\settowidth\labelwidth{\@biblabel{#1}}%
    \leftmargin\labelwidth \advance\leftmargin\labelsep
    \usecounter{enumiv}}%
  \sloppy \clubpenalty\@M \widowpenalty\clubpenalty
```

```
  \sfcode`\.=\@m
}{%
  \def\@noitemerr{\@latex@warning{Empty `thebibliography' environment}}%
  \endlist
}
\def\@makechapterhead#1{\global\topskip 7.5pc\relax
  \begingroup
  \fontsize{\@xivpt}{18}\bfseries\centering
    \ifnum\c@secnumdepth>\m@ne
      \leavevmode \hskip-\if@RTL\rightskip\else\leftskip\fi
      \rlap{\vbox to\z@{\vss
          \centerline{\normalsize\mdseries
              \uppercase\@xp{\chaptername}\enspace\thechapter}
          \vskip 3pc}}\hskip\if@RTL\rightskip\else\leftskip\fi\fi
     #1\par \endgroup
  \skip@34\p@ \advance\skip@-\normalbaselineskip
  \vskip\skip@ }
\def\maketitle{\par
  \@topnum\z@ % this prevents figures from falling at the top of page 1
  \begingroup
  \@maketitle
  \endgroup
  \c@footnote\z@
  \def\do##1{\let##1\relax}%
  \do\maketitle \do\@maketitle \do\title \do\@xtitle \do\@title
  \do\author \do\@xauthor \do\address \do\@xaddress
  \do\email \do\@xemail \do\curraddr \do\@xcurraddr
  \do\dedicatory \do\@dedicatory \do\thanks \do\thankses
  \do\keywords \do\@keywords \do\subjclass \do\@subjclass
}
```

7.5 amsmath-xetex-bidi.def

```
\ProvidesFile{amsmath-xetex-bidi.def}[2014/09/04 v0.9 bidi adaptations for amsmath package for X
\let\veqno=\eqno
\iftagsleft@ \let\veqno=\leqno \fi
\renewcommand{\numberwithin}[3][\arabic]{%
  \@ifundefined{c@#2}{\@nocounterr{#2}}{%
    \@ifundefined{c@#3}{\@nocnterr{#3}}{%
      \@addtoreset{#2}{#3}%
      \@xp\xdef\csname the#2\endcsname{%
        \@xp\@nx\csname the#3\endcsname \@nx\@SepMark\@nx#1{#2}}}}%
}
\def\tagform@#1{\maketag@@@{\if@Latin\else\beginR\fi(\ignorespaces#1\unskip\@@italiccorr)\if@
```

7.6 amstext-xetex-bidi.def

```
\ProvidesFile{amstext-xetex-bidi.def}[2013/04/04 v0.1 bidi adaptations for amstext package for X
\def\textdef@#1#2#3{\hbox{{%
                    \everymath{#1}%
                    \let\f@size#2\selectfont
```

```
                    \if@Latin\else\beginR\fi#3\if@Latin\else\endR\fi}}}
```

7.7 amsthm-xetex-bidi.def

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

7.8 animate-xetex-bidi.def

```
\ProvidesFile{animate-xetex-bidi.def}[2015/11/24 v0.1 bidi adaptations for animate package for X


%user command for embedding animation sequence
% #1: options
% #2: frame rate (fps)
% #3: basename of graphics file sequence (without frame number and extension)
% #4: first frame (integer)
% #5: last frame (integer)
\renewcommand{\animategraphics}[5][]{%
  \@anim@endsanitize%
  \leavevmode%
  \ifpdf\else%
    \if@anim@grxloaded%
      \if@anim@xetex%
        \DeclareGraphicsRule{.mps}{eps}{*}{}%
      \fi%
    \else%
      \if@anim@xetex%
        \@anim@missing[xetex]{graphicx}%
      \else%
        \if@anim@dvipdfmx%
          \@anim@missing[dvipdfmx]{graphicx}%
        \else%
          \@anim@missing{graphicx}%
        \fi%
      \fi%
    \fi%
  \fi%
  \@anim@reset% to default settings
  \begingroup% make use of graphic[xs] search path
  \beginL%
  \ifcsname Ginput@path\endcsname%
    \let\input@path\Ginput@path%
  \fi%
  %
  \setkeys{anim@user}{#1}%
  \ifthenelse{\boolean{@anim@autoplay}\OR\boolean{@anim@autoresume}}{%
    \setboolean{@anim@autoplayorresume}{true}%
  }{}%
  \ifthenelse{\boolean{@anim@controls}\OR\boolean{@anim@palindrome}}{%
    \setboolean{@anim@morejs}{true}%
```

```
}{}%
\ifx\empty\@anim@label\empty\else%
  \setboolean{@anim@morejs}{true}%
\fi%
\ifthenelse{\NOT\boolean{@anim@controls}\AND\boolean{@anim@step}}{%
  \setboolean{@anim@loop}{true}%
}{}%
\def\@anim@base{#3}%
\def\@anim@first{#4}%
\def\@anim@last{#5}%
%
\@anim@checkmultipage{\@anim@base}{\@anim@ftype}%test for multipage file
\if@anim@multipage\else% cope with wrong user input
  \ifthenelse{\equal{#4}{}\OR\equal{#5}{}}{%
    \PackageError{animate}{%
      Missing frame number in \protect\animategraphics\space command%
    }{}%
  }{}%
  \ifthenelse{\@anim@first<\z@\OR\@anim@last<\z@}{%
    \PackageError{animate}{%
      Negative frame numbers not allowed%
    }{}%
  }{}%
\fi%
\def\@anim@relop{>}%
\edef\@anim@numtemplate{\@anim@first}%
\ifnum\@anim@first>\@anim@last%
  \edef\@anim@every{-\@anim@every}%
  \def\@anim@relop{<}%
  \edef\@anim@numtemplate{\@anim@last}%
\fi%
\global\@anim@curframe=\@anim@first%
\global\@anim@curframe@zb=\z@%
%
\if@anim@draft%
  \if@anim@multipage%
    %store file in a box
    \@anim@filebox{\@anim@pathtofile}{\@anim@first}%
  \else%
    %get file name extension
    \@anim@getpath{\@anim@base\@anim@first}{\@anim@ftype}%
    \@anim@filebox{\@anim@pathtofile}{1}%
  \fi%
  \@anim@scale{\@anim@box}%
  %draw draftbox according to dimensions of the first frame
  \@anim@draftbox%
\else%
  \if@anim@controls%
    %create button faces only once in the current colour combination
    \ifcsname
```

```
        btncol:\@anim@bgcolour:\@anim@fgcolour\endcsname\else%
        \@anim@makebuttons{\the\@anim@num}%
      \@anim@newkey{btncol:\@anim@bgcolour:\@anim@fgcolour}{\the\@anim@num}%
      \fi%
    \fi%
    \xdef\@anim@nfps{#2\space}% current frame rate
    \xdef\@anim@nfps{\expandafter\zap@space\@anim@nfps\@empty}%
    \ifdim\@anim@nfps\p@<\z@%
      \PackageError{animate}{%
        Negative frame rate `\@anim@nfps' is not allowed%
      }{}%
    \fi%
    \xdef\@anim@fps{\@anim@nfps}%
    %
    %read all frames of the sequence
    \loop\ifnum\@anim@curframe\@anim@relop\@anim@last\else%
      \if@anim@multipage%
        %embed graphics
        \@anim@ximage{\the\@anim@num}{\the\@anim@curframe@zb}{%
          \@anim@pathtofile}{\the\@anim@curframe}%
      \else%
        %get path to current file end its extension
        \@anim@getpath{%
        \@anim@base\@anim@pad{\@anim@numtemplate}{\the\@anim@curframe}%
        }{\@anim@ftype}%
        %embed graphics
        \@anim@ximage{\the\@anim@num}{\the\@anim@curframe@zb}{%
          \@anim@pathtofile}{1}%
      \fi%
      \global\advance\@anim@curframe by \@anim@every%
      \global\advance\@anim@curframe@zb by \@ne%
    \repeat%
    \xdef\@anim@frames{\the\@anim@curframe@zb}% total number
    \global\@anim@tmpcnt=\@anim@frames%
    \global\advance\@anim@tmpcnt by -\@ne%
    \xdef\@anim@maxframe{\the\@anim@tmpcnt}% highest frame index
    %build timeline from optional timeline file
    \@anim@sanitizeJS%
    \if@anim@timeline\@anim@buildtmln{\the\@anim@num}\fi%
    %insert animation widget & controls
    \@anim@insertwidgets{\the\@anim@num}{%
      \@anim@getkeyval{btncol:\@anim@bgcolour:\@anim@fgcolour}}%
    \@anim@endsanitize%
  \fi%
  \endL%
  \endgroup%
  \global\advance\@anim@num by \@ne%
}%
%adjust catcode of `:' character within \animategraphics
\let\@anim@animategraphics\animategraphics
```

```
\def\animategraphics{\@anim@sanitizeColon\@anim@animategraphics}


%user environment for animating inline graphics
% #1: options
% #2: frame rate (fps)
\renewenvironment{animateinline}[2][]{%
  \@anim@endsanitize%
  \leavevmode%
  \setboolean{@anim@inside}{true}%
  \@anim@reset% to default settings
  \begingroup%
  \beginL%
  % make use of graphic[xs] search path
  \ifcsname Ginput@path\endcsname%
    \let\input@path\Ginput@path%
  \fi%
  \setkeys{anim@user}{#1}%
  \ifthenelse{\boolean{@anim@autoplay}\OR\boolean{@anim@autoresume}}{%
    \setboolean{@anim@autoplayorresume}{true}%
  }{}%
  \ifthenelse{\boolean{@anim@controls}\OR\boolean{@anim@palindrome}}{%
    \setboolean{@anim@morejs}{true}%
  }{}%
  \ifx\empty\@anim@label\empty\else%
    \setboolean{@anim@morejs}{true}%
  \fi%
  \ifthenelse{\NOT\boolean{@anim@controls}\AND\boolean{@anim@step}}{%
    \setboolean{@anim@loop}{true}%
  }{}%
  \global\@anim@curframe@zb=\z@%
  \global\@anim@skipfram=\z@%
  \if@anim@draft\else%
    %create button faces if necessary
    \if@anim@controls%
      \ifcsname
        btncol:\@anim@bgcolour:\@anim@fgcolour\endcsname\else%
        \@anim@makebuttons{\the\@anim@num}%
     \@anim@newkey{btncol:\@anim@bgcolour:\@anim@fgcolour}{\the\@anim@num}%
      \fi%
    \fi%
    \if@anim@step\else%
      \xdef\@anim@nfps{-1}%
      \@anim@processfpsarg{#2}%
    \fi%
  \fi%
  \ifdefined\NoHyper\NoHyper\fi% silently suppress any hyperref specials
  \@anim@beginframe%
  \ignorespaces%
```

```
}{%
  \unskip%
  \@anim@endframe{\the\@anim@num}{\the\@anim@curframe@zb}%
  \ifdefined\endNoHyper\endNoHyper\fi%
  \global\advance\@anim@curframe@zb by \@ne%
  \if@anim@draft\else%
    \xdef\@anim@frames{\the\@anim@curframe@zb}% total number
    \global\@anim@tmpcnt=\@anim@frames%
    \global\advance\@anim@tmpcnt by -\@ne%
    \xdef\@anim@maxframe{\the\@anim@tmpcnt}% highest frame index
    %build timeline from optional timeline file
    \@anim@sanitizeJS%
    \if@anim@timeline\@anim@buildtmln{\the\@anim@num}\fi%
    %insert animation widget & controls
    \@anim@insertwidgets{\the\@anim@num}{%
      \@anim@getkeyval{btncol:\@anim@bgcolour:\@anim@fgcolour}}%
    \@anim@endsanitize%
  \fi%
  \endL%
  \endgroup%
  \global\advance\@anim@num by \@ne%
  \setboolean{@anim@inside}{false}%
}
\let\@anim@animateinline\animateinline
\def\animateinline{\@anim@sanitizeColon\@anim@animateinline}
```

7.9 array-xetex-bidi.def

```
\ProvidesFile{array-xetex-bidi.def}[2015/11/07 v0.3 bidi adaptations for array package for XeTeX
\def\@testpach{\@chclass
 \ifnum \@lastchclass=6 \@ne \@chnum \@ne \else
  \ifnum \@lastchclass=7 5 \else
   \ifnum \@lastchclass=8 \tw@ \else
    \ifnum \@lastchclass=9 \thr@@
   \else \z@
   \ifnum \@lastchclass = 10 \else
   \edef\@nextchar{\expandafter\string\@nextchar}%
   \@chnum
   \if \@nextchar c\z@ \else
    \if \@nextchar \if@RTLtab r\else l\fi\@ne \else
     \if \@nextchar \if@RTLtab l\else r\fi\tw@ \else
  \z@ \@chclass
  \if\@nextchar |\@ne \else
   \if \@nextchar !6 \else
    \if \@nextchar @7 \else
     \if \@nextchar <8 \else
      \if \@nextchar >9 \else
  10
  \@chnum
  \if \@nextchar m\thr@@\else
```

```
   \if \@nextchar p4 \else
    \if \@nextchar b5 \else
   \z@ \@chclass \z@ \@preamerr \z@ \fi \fi \fi \fi
   \fi \fi  \fi  \fi  \fi  \fi  \fi \fi \fi \fi \fi \fi}
\def\@tabular{\if@RTL\@RTLtabtrue\fi%
  \leavevmode
 \hbox \bgroup\if@RTLtab\beginR \fi $\col@sep\tabcolsep \let\d@llarbegin\begingroup
                                    \let\d@llarend\endgroup
  \@tabarray}
\def\endtabular{\endarray $\if@RTLtab\endR\fi\egroup\@RTLtabfalse}
\expandafter\let\csname endtabular*\endcsname=\endtabular
\def\@array[#1]#2{%
  \@tempdima \ht \strutbox
  \advance \@tempdima by\extrarowheight
  \setbox \@arstrutbox \hbox{\vrule
             \@height \arraystretch \@tempdima
             \@depth \arraystretch \dp \strutbox
             \@width \z@}%
  \begingroup
  \@mkpream{#2}%
  \xdef\@preamble{\noexpand \ialign \@halignto
                  \bgroup \@arstrut \@preamble
                          \tabskip \z@ \cr}%
  \endgroup
  \@arrayleft
  \if #1t\vtop \else \if#1b\vbox \else \vcenter \fi \fi
  \bgroup
  \let \@sharp ##\let \protect \relax
  \lineskip \z@
  \baselineskip \z@
  \m@th
 \let\\\@arraycr \let\tabularnewline\\\let\par\@empty \if@RTLtab\hbox\bgroup\beginR\if #1t\vto
\def\@tabarray{\@ifnextchar[{\@array}{\@array[c]}}
\def\endarray{\crcr \egroup\if@RTLtab\egroup\endR\egroup\fi \egroup \@arrayright \gdef\@preambl
\def\array{\col@sep\arraycolsep
  \def\d@llarbegin{$}\let\d@llarend\d@llarbegin\gdef\@halignto{}%
  \@RTLtabfalse\@tabarray}
```

7.10 article-xetex-bidi.def

```
\ProvidesFile{article-xetex-bidi.def}[2015/11/14 v0.5 bidi adaptations for standard article clas
\if@titlepage
  \renewcommand\maketitle{\begin{titlepage}%
  \let\footnotesize\small
  \let\right@footnoterule\relax
  \let\left@footnoterule\relax
  \let\textwidth@footnoterule\relax
  \let \footnote \thanks
  \let \LTRfootnote \LTRthanks
  \let \RTLfootnote \RTLthanks
```

```
  \null\vfil
  \vskip 60\p@
  \begin{center}%
    {\LARGE \@title \par}%
    \vskip 3em%
    {\large
     \lineskip .75em%
      \begin{tabular}[t]{c}%
        \@author
      \end{tabular}\par}%
      \vskip 1.5em%
    {\large \@date \par}%       % Set date in \large size.
  \end{center}\par
  \@thanks
  \vfil\null
  \end{titlepage}%
  \setcounter{footnote}{0}%
  \global\let\thanks\relax
  \global\let\LTRthanks\relax
  \global\let\RTLthanks\relax
  \global\let\maketitle\relax
  \global\let\@thanks\@empty
  \global\let\@author\@empty
  \global\let\@date\@empty
  \global\let\@title\@empty
  \global\let\title\relax
  \global\let\author\relax
  \global\let\date\relax
  \global\let\and\relax
}
\else
\renewcommand\maketitle{\par
  \begingroup
    \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
    \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
    \long\def\@makefntext##1{\parindent 1em\noindent
            \hb@xt@1.8em{%
                \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
    \if@twocolumn
      \ifnum \col@number=\@ne
        \@maketitle
      \else
        \twocolumn[\@maketitle]%
      \fi
    \else
      \newpage
      \global\@topnum\z@   % Prevents figures from going at top of page.
      \@maketitle
    \fi
    \thispagestyle{plain}\@thanks
```

```
  \endgroup
  \setcounter{footnote}{0}%
  \global\let\thanks\relax
  \global\let\LTRthanks\relax
  \global\let\RTLthanks\relax
  \global\let\maketitle\relax
  \global\let\@maketitle\relax
  \global\let\@thanks\@empty
  \global\let\@author\@empty
  \global\let\@date\@empty
  \global\let\@title\@empty
  \global\let\title\relax
  \global\let\author\relax
  \global\let\date\relax
  \global\let\and\relax
}
\def\@maketitle{%
  \newpage
  \null
  \vskip 2em%
  \begin{center}%
  \let \footnote \thanks
  \let \LTRfootnote \LTRthanks
  \let \RTLfootnote \RTLthanks
    {\LARGE \@title \par}%
    \vskip 1.5em%
    {\large
      \lineskip .5em%
      \begin{tabular}[t]{c}%
        \@author
      \end{tabular}\par}%
    \vskip 1em%
    {\large \@date}%
  \end{center}%
  \par
  \vskip 1.5em}
\fi
\renewcommand*\l@part[2]{%
  \ifnum \c@tocdepth >-2\relax
    \addpenalty\@secpenalty
    \addvspace{2.25em \@plus\p@}%
    \setlength\@tempdima{3em}%
    \begingroup
      \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
      \parfillskip -\@pnumwidth
      {\leavevmode
       \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
       \nobreak
       \if@compatibility
         \global\@nobreaktrue
```

```
        \everypar{\global\@nobreakfalse\everypar{}}%
      \fi
    \endgroup
  \fi}
\renewcommand*\l@section[2]{%
  \ifnum \c@tocdepth >\z@
    \addpenalty\@secpenalty
    \addvspace{1.0em \@plus\p@}%
    \setlength\@tempdima{1.5em}%
    \begingroup
      \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
      \parfillskip -\@pnumwidth
      \leavevmode \bfseries
      \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
      \hskip -\if@RTL\rightskip\else\leftskip\fi
      #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
    \endgroup
  \fi}
\renewcommand\left@footnoterule{%
  \kern-3\p@
  \hrule\@width.4\columnwidth
  \kern2.6\p@}
\renewcommand\right@footnoterule{%
  \kern-3\p@
  \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
  \kern2.6\p@}
\renewcommand\thesubsection  {\thesection\@SepMark\@arabic\c@subsection}
\renewcommand\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
\renewcommand\theparagraph   {\thesubsubsection\@SepMark\@arabic\c@paragraph}
\renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
\def\@part[#1]#2{%
    \ifnum \c@secnumdepth >\m@ne
      \refstepcounter{part}%
      \addcontentsline{toc}{part}{\thepart\hspace{1em}#1}%
    \else
      \addcontentsline{toc}{part}{#1}%
    \fi
    {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
     \interlinepenalty \@M
     \normalfont
     \ifnum \c@secnumdepth >\m@ne
       \Large\bfseries \partname\nobreakspace\thepart
       \par\nobreak
     \fi
     \huge \bfseries #2%
     \markboth{}{}\par}%
    \nobreak
    \vskip 3ex
    \@afterheading}
\renewenvironment{thebibliography}[1]
```

```
     {\section*{\refname}%
      \@mkboth{\MakeUppercase\refname}{\MakeUppercase\refname}%
    \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
      \list{\@biblabel{\@arabic\c@enumiv}}%
           {\settowidth\labelwidth{\@biblabel{#1}}%
            \leftmargin\labelwidth
            \advance\leftmargin\labelsep
            \@openbib@code
            \usecounter{enumiv}%
            \let\p@enumiv\@empty
            \renewcommand\theenumiv{\@arabic\c@enumiv}}%
      \sloppy
      \clubpenalty4000
      \@clubpenalty \clubpenalty
      \widowpenalty4000%
      \sfcode`\.\@m}
     {\def\@noitemerr
       {\@latex@warning{Empty `thebibliography' environment}}%
      \endlist}
\renewenvironment{theindex}
               {\if@twocolumn
                  \@restonecolfalse
                \else
                  \@restonecoltrue
                \fi
                \columnseprule \z@
                \columnsep 35\p@
                \twocolumn[\section*{\indexname}]%
                \@mkboth{\MakeUppercase\indexname}%
                        {\MakeUppercase\indexname}%
                \thispagestyle{plain}\parindent\z@
                \parskip\z@ \@plus .3\p@\relax
                \let\item\@idxitem}
               {\if@restonecol\onecolumn\else\clearpage\fi}
```

7.11 artikel1-xetex-bidi.def

```
\ProvidesFile{artikel1-xetex-bidi.def}[2015/11/14 v0.3 bidi adaptations for artikel1 class for X
\renewenvironment{theindex}{%
  \if@twocolumn
    \@restonecolfalse
  \else
    \@restonecoltrue
  \fi
  \columnseprule \z@
  \columnsep 35\p@
  \twocolumn[\section*{\indexname}]%
  \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
  \thispagestyle{plain}\parindent\z@
  \parskip\z@ \@plus .3\p@\relax
```

```
  \let\item\@idxitem
  }{%
  \if@restonecol\onecolumn\else\clearpage\fi}
\renewcommand*\head@style{%
    \interlinepenalty \@M
    \hyphenpenalty=\@M \exhyphenpenalty=\@M
    \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
\if@titlepage
  \renewenvironment{abstract}{%
      \titlepage
      \null\vfil
      \section*{\SectFont\abstractname}
      \noindent\ignorespaces}
     {\par\vfil\null\endtitlepage}
\else
  \renewenvironment{abstract}{%
      \if@twocolumn
        \section*{\abstractname}%
      \else
        \bgroup\if@RTL\leftskip\else\rightskip\fi=\unitindent
        \section*{\small\SectFont\abstractname}%
        \noindent\ignorespaces
      \fi}
      {\if@twocolumn\else\par\egroup\fi}
\fi
\renewcommand*\@regtocline[3]{%
  \ifnum #1>\c@tocdepth
  \else
    \vskip\z@\@plus.2\p@
    {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
     \if@RTL\rightskip\else\leftskip\fi\unitindent
     \if@RTL\leftskip\else\rightskip\fi\unitindent\@plus 1fil
     \parfillskip\z@
     \@tempdima\unitindent
     \parindent\z@
     \leavevmode
     \hbox{}\hskip -\if@RTL\rightskip\else\leftskip\fi\relax#2\nobreak
     \hskip 1em \nobreak{\slshape #3}\par
     }%
  \fi}
\if@oldtoc
\renewcommand*\l@part[2]{%
  \ifnum \c@tocdepth >-2\relax
    \addpenalty\@secpenalty
    \addvspace{2.25em \@plus\p@}%
    \begingroup
      \setlength\@tempdima{3em}%
      \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
      \parfillskip -\@pnumwidth
      {\leavevmode
```

```
        \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
        \nobreak
       \if@compatibility
        \global\@nobreaktrue
        \everypar{\global\@nobreakfalse\everypar{}}%
      \fi
    \endgroup
  \fi}
\else
   \renewcommand*\l@part{%
     \ifnum \c@tocdepth >-2\relax
     \addpenalty\@secpenalty
     \addvspace{2.25em \@plus \p@}%
     \@regtocline{0}%
   \fi}
\fi
\if@oldtoc
\renewcommand*\l@section[2]{%
    \addpenalty\@secpenalty
    \addvspace{1.0em \@plus\p@}%
    \setlength\@tempdima{1.5em}%
    \begingroup
    \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
    \parfillskip -\@pnumwidth
    \leavevmode \bfseries
    \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
    \hskip -\if@RTL\rightskip\else\leftskip\fi
    #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
   \endgroup}
\else
   \renewcommand*\l@section{\@regtocline{1}}
\fi
\renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
\renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
\renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
\renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
\renewenvironment{thebibliography}[1]
     {\section*{\refname}%
       \@mkboth{\MakeUppercase\refname}{\MakeUppercase\refname}%
    \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
      \list{\@biblabel{\@arabic\c@enumiv}}%
           {\settowidth\labelwidth{\@biblabel{#1}}%
            \leftmargin\labelwidth
            \advance\leftmargin\labelsep
            \@openbib@code
            \usecounter{enumiv}%
            \let\p@enumiv\@empty
            \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
      \sloppy\clubpenalty4000\widowpenalty4000%
      \sfcode`\.\@m}
```

```
    {\def\@noitemerr
      {\@latex@warning{Empty `thebibliography' environment}}%
     \endlist}
\renewcommand*\left@footnoterule{%
  \kern-3\p@
  \kern.5\baselineskip
  \hrule\@width\unitindent
  \kern.4\baselineskip
}
\renewcommand*\right@footnoterule{%
  \kern-3\p@
  \kern.5\baselineskip
  \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
  \kern.4\baselineskip}
\if@titlepage
\renewcommand*\TitleFont{\rmfamily}
\renewcommand*\maketitle{%
  \begin{titlepage}%
    \let\footnotesize\small
    \let\right@footnoterule\relax
    \let\left@footnoterule\relax
    \let\textwidth@footnoterule\relax
    \let \footnote \thanks
    \long\def\@makefntext##1{\parindent\z@
         \def\labelitemi{\textendash}\@revlabeltrue
         \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
    \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
    \if@compatibility\setcounter{page}{0}\fi
    \null\vfil
    \vskip 60\p@
    \begin{center}%
      \TitleFont
      {\LARGE \def\\{\penalty -\@M}
        \if@allcaps
          \expandafter\uc@nothanks\@title\thanks\relax
        \else
          \@title
        \fi\par}%
      \vskip 3em%
      {\large
        \lineskip .75em \parindent\z@
        \begin{tabular}[t]{c}%
          \if@allcaps
            \expandafter\uc@authornothanks\@author\and\relax
          \else
            \@author
          \fi
        \end{tabular}\par}%
      \vskip 1.5em%
      {\large
```

```
        \if@allcaps
          \uppercase\expandafter{\@date}%
        \else
          \@date
        \fi\par}%
      \end{center}\par
    \@thanks
    \vfil\null
  \end{titlepage}%
  \setcounter{footnote}{0}%
  \global\let\thanks\relax
  \global\let\maketitle\relax
  \global\let\@thanks\@empty
  \global\let\@author\@empty
  \global\let\@title\@empty
  \global\let\@date\@empty
  \global\let\title\relax
  \global\let\author\relax
  \global\let\date\relax
  \global\let\and\relax
}
\def\uc@nothanks#1\thanks{\uppercase{#1}\futurelet\@tempa\uc@tx}
\def\uc@authornothanks#1\and{\uc@nothanks#1\thanks\relax
    \futurelet\@tempa\uc@ax}
\def\uc@ax{%
  \ifx\@tempa\relax
  \else
    \\ \andname \\ \expandafter\uc@authornothanks
  \fi}
\def\uc@tx{\ifx\@tempa\relax
    \else \expandafter\uc@ty \fi}
\def\uc@ty#1{\thanks{#1}\uc@nothanks}
\else
\renewcommand*\maketitle{\par
  \begingroup
    \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
    \def\@makefnmark{\rlap{%
      \@textsuperscript{\normalfont\@thefnmark}}}%
    \long\def\@makefntext{\@xmakefntext{%
      \@textsuperscript{\normalfont\@thefnmark}}}%
    \if@twocolumn
      \ifnum \col@number=\@ne
        \@maketitle
      \else
        \twocolumn[\@maketitle]%
      \fi
    \else
      \newpage
      \global\@topnum\z@
      \@maketitle
```

```
    \fi
    \thispagestyle{plain}\@thanks
  \endgroup
  \setcounter{footnote}{0}%
  \global\let\thanks\relax
  \global\let\maketitle\relax
  \global\let\@maketitle\relax
  \global\let\@thanks\@empty
  \global\let\@author\@empty
  \global\let\@title\@empty
  \global\let\@date\@empty
  \global\let\title\relax
  \global\let\author\relax
  \global\let\date\relax
  \global\let\and\relax
  }
\def\@maketitle{%
  \newpage
  \null
  \vskip 2em%
  \begin{center}%
    \let \footnote \thanks
    {\LARGE \TitleFont \@title \par}%
    \vskip 1.5em%
    {\large \TitleFont
      \lineskip .5em%
      \begin{tabular}[t]{c}%
        \@author
      \end{tabular}\par}%
    \vskip 1em%
    {\large \TitleFont \@date}%
  \end{center}%
  \par
  \vskip 1.5em}
\fi
```

7.12 artikel2-xetex-bidi.def

```
\ProvidesFile{artikel2-xetex-bidi.def}[2015/11/14 v0.3 bidi adaptations for artikel2 class for X
\renewenvironment{theindex}{%
  \if@twocolumn
    \@restonecolfalse
  \else
    \@restonecoltrue
  \fi
  \columnseprule \z@
  \columnsep 35\p@
  \twocolumn[\section*{\indexname}]%
  \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
  \thispagestyle{plain}\parindent\z@
```

```
  \parskip\z@ \@plus .3\p@\relax
  \let\item\@idxitem
  }{%
  \if@restonecol\onecolumn\else\clearpage\fi}
\renewcommand*\@regtocline[3]{%
  \ifnum #1>\c@tocdepth
  \else
    \vskip\z@\@plus.2\p@
    {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
     \if@RTL\rightskip\else\leftskip\fi\unitindent
     \if@RTL\leftskip\else\rightskip\fi\unitindent\@plus 1fil
     \parfillskip\z@
     \@tempdima\unitindent
     \advance\@tempdima by \othermargin
     \parindent\z@
     \leavevmode
     \hbox{}\hskip -\if@RTL\rightskip\else\leftskip\fi\relax#2\nobreak
     \hskip 1em \nobreak{\slshape #3}\par
     }%
  \fi}
\if@oldtoc
\renewcommand*\l@section[2]{%
    \addpenalty\@secpenalty
    \addvspace{1.0em \@plus\p@}%
    \setlength\@tempdima{1.5em}%
    \begingroup
    \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
    \parfillskip -\@pnumwidth
    \leavevmode \bfseries
    \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
    \hskip -\if@RTL\rightskip\else\leftskip\fi
    #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
   \endgroup}
\else
   \renewcommand*\l@section{\@regtocline{1}}
\fi
\if@oldtoc
\renewcommand*\l@part[2]{%
  \ifnum \c@tocdepth >-2\relax
    \addpenalty\@secpenalty
    \addvspace{2.25em \@plus\p@}%
    \begingroup
      \setlength\@tempdima{3em}%
      \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
      \parfillskip -\@pnumwidth
      {\leavevmode
        \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
        \nobreak
       \if@compatibility
        \global\@nobreaktrue
```

```
        \everypar{\global\@nobreakfalse\everypar{}}%
      \fi
    \endgroup
  \fi}
\else
   \renewcommand*\l@part{%
     \ifnum \c@tocdepth >-2\relax
     \addpenalty\@secpenalty
     \addvspace{2.25em \@plus \p@}%
     \@regtocline{0}%
   \fi}
\fi
\renewcommand*\head@style{%
    \interlinepenalty \@M
    \hyphenpenalty=\@M \exhyphenpenalty=\@M
    \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
\if@titlepage
  \renewenvironment{abstract}{%
      \titlepage
      \null\vfil
      \section*{\SectFont\abstractname}%
      \noindent\ignorespaces}
     {\par\vfil\null\endtitlepage}
\else
  \renewenvironment{abstract}{%
      \if@twocolumn
        \section*{\abstractname}%
      \else
        \section*{\hskip\unitindent\small\SectFont\abstractname}%
        \list{}{\setlength\listparindent{\unitindent}%
                \setlength\parindent    {\z@}%
                \setlength\leftmargin   {\unitindent}%
                \setlength\rightmargin  {\unitindent}%
                \setlength\parsep       {\z@}}%
        \item[]%
      \fi}
      {\if@twocolumn\else\par\endlist\fi}
\fi
\renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
\renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
\renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
\renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
\renewcommand*\left@footnoterule{%
  \kern-3\p@
  \hrule\@width 3\unitindent
  \kern 2.6\p@
}
\renewcommand*\right@footnoterule{%
  \kern-3\p@
  \hbox to \columnwidth{\hskip \dimexpr\columnwidth-3\unitindent\relax \hrulefill }
```

```
  \kern 2.6\p@}
\renewenvironment{thebibliography}[1]
     {\section*{\refname}%
       \@mkboth{\MakeUppercase\refname}{\MakeUppercase\refname}%
    \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
      \list{\@biblabel{\@arabic\c@enumiv}}%
           {\settowidth\labelwidth{\@biblabel{#1}}%
            \leftmargin\labelwidth
            \advance\leftmargin\labelsep
            \@openbib@code
            \usecounter{enumiv}%
            \let\p@enumiv\@empty
            \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
      \sloppy\clubpenalty4000\widowpenalty4000%
      \sfcode`\.\@m}
     {\def\@noitemerr
       {\@latex@warning{Empty `thebibliography' environment}}%
      \endlist}
\if@titlepage
\renewcommand*\TitleFont{\rmfamily}
\renewcommand*\maketitle{%
  \begin{titlepage}%
    \let\footnotesize\small
    \let\right@footnoterule\relax
    \let\left@footnoterule\relax
    \let\textwidth@footnoterule\relax
    \let \footnote \thanks
    \long\def\@makefntext##1{\parindent\z@
         \def\labelitemi{\textendash}\@revlabeltrue
         \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
    \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
    \if@compatibility\setcounter{page}{0}\fi
    \null\vfil
    \vskip 60\p@
    \begin{center}%
      \TitleFont
      {\LARGE \def\\{\penalty -\@M}
        \if@allcaps
          \expandafter\uc@nothanks\@title\thanks\relax
        \else
          \@title
        \fi\par}%
      \vskip 3em%
      {\large
        \lineskip .75em \parindent\z@
        \begin{tabular}[t]{c}%
          \if@allcaps
            \expandafter\uc@authornothanks\@author\and\relax
          \else
            \@author
```

```
          \fi
        \end{tabular}\par}%
      \vskip 1.5em%
      {\large
        \if@allcaps
          \uppercase\expandafter{\@date}%
        \else
          \@date
        \fi\par}%
      \end{center}\par
    \@thanks
    \vfil\null
  \end{titlepage}%
  \setcounter{footnote}{0}%
  \global\let\thanks\relax
  \global\let\maketitle\relax
  \global\let\@thanks\@empty
  \global\let\@author\@empty
  \global\let\@title\@empty
  \global\let\@date\@empty
  \global\let\title\relax
  \global\let\author\relax
  \global\let\date\relax
  \global\let\and\relax
}
\def\uc@nothanks#1\thanks{\uppercase{#1}\futurelet\@tempa\uc@tx}
\def\uc@authornothanks#1\and{\uc@nothanks#1\thanks\relax
    \futurelet\@tempa\uc@ax}
\def\uc@ax{%
  \ifx\@tempa\relax
  \else
    \\ \andname \\ \expandafter\uc@authornothanks
  \fi}
\def\uc@tx{\ifx\@tempa\relax
    \else \expandafter\uc@ty \fi}
\def\uc@ty#1{\thanks{#1}\uc@nothanks}
\else
\renewcommand*\maketitle{\par
  \begingroup
    \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
    \long\def\@makefntext##1{\parindent\z@
      \def\labelitemi{\textendash}%
      \leavevmode\hb@xt@.5\unitindent{%
        \@textsuperscript{\normalfont\@thefnmark}\hfil}##1}
    \if@twocolumn
      \ifnum \col@number=\@ne
        \@maketitle
      \else
        \twocolumn[\@maketitle]%
      \fi
```

```
    \else
      \newpage
      \global\@topnum\z@
      \@maketitle
    \fi
    \thispagestyle{plain}\@thanks
  \endgroup
  \setcounter{footnote}{0}%
  \global\let\thanks\relax
  \global\let\maketitle\relax
  \global\let\@maketitle\relax
  \global\let\@thanks\@empty
  \global\let\@author\@empty
  \global\let\@title\@empty
  \global\let\@date\@empty
  \global\let\title\relax
  \global\let\author\relax
  \global\let\date\relax
  \global\let\and\relax
  }
\def\@maketitle{%
  \newpage
  \null
  \vskip 2em%
  \begin{center}%
    \let \footnote \thanks
    {\LARGE \TitleFont \@title \par}%
    \vskip 1.5em%
    {\large \TitleFont
      \lineskip .5em%
      \begin{tabular}[t]{c}%
        \@author
      \end{tabular}\par}%
    \vskip 1em%
    {\large \TitleFont \@date}%
  \end{center}%
  \par
  \vskip 1.5em}
\fi
```

7.13 artikel3-xetex-bidi.def

```
\ProvidesFile{artikel3-xetex-bidi.def}[2015/11/14 v0.4 bidi adaptations for artikel3 class for X
\renewenvironment{theindex}{%
  \if@twocolumn
    \@restonecolfalse
  \else
    \@restonecoltrue
  \fi
  \columnseprule \z@
```

```
  \columnsep 35\p@
  \twocolumn[\section*{\indexname}]%
  \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
  \thispagestyle{plain}\parindent\z@
  \parskip\z@ \@plus .3\p@\relax
  \let\item\@idxitem
  }{%
  \if@restonecol\onecolumn\else\clearpage\fi}
\renewcommand*\head@style{%
    \interlinepenalty \@M
    \hyphenpenalty=\@M \exhyphenpenalty=\@M
    \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
\renewcommand*\@regtocline[3]{%
  \ifnum #1>\c@tocdepth
  \else
    \vskip\z@\@plus.2\p@
    {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
     \if@RTL\rightskip\else\leftskip\fi\unitindent
     \if@RTL\leftskip\else\rightskip\fi\unitindent\@plus 1fil
     \parfillskip\z@
     \@tempdima\unitindent
     \parindent\z@
     \leavevmode
     \hbox{}\hskip -\if@RTL\rightskip\else\leftskip\fi\relax#2\nobreak
     \hskip 1em \nobreak{\slshape #3}\par
     }%
  \fi}
\if@oldtoc
\renewcommand*\l@part[2]{%
  \ifnum \c@tocdepth >-2\relax
    \addpenalty\@secpenalty
    \addvspace{2.25em \@plus\p@}%
    \begingroup
      \setlength\@tempdima{3em}%
      \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
      \parfillskip -\@pnumwidth
      {\leavevmode
        \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
        \nobreak
       \if@compatibility
        \global\@nobreaktrue
        \everypar{\global\@nobreakfalse\everypar{}}%
      \fi
    \endgroup
  \fi}
\else
   \renewcommand*\l@part{%
     \ifnum \c@tocdepth >-2\relax
     \addpenalty\@secpenalty
     \addvspace{2.25em \@plus \p@}%
```

```
      \@regtocline{0}%
    \fi}
\fi

\if@oldtoc
\renewcommand*\l@section[2]{%
    \addpenalty\@secpenalty
    \addvspace{1.0em \@plus\p@}%
    \setlength\@tempdima{1.5em}%
    \begingroup
    \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
    \parfillskip -\@pnumwidth
    \leavevmode \bfseries
    \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
    \hskip -\if@RTL\rightskip\else\leftskip\fi
    #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
   \endgroup}
\else
   \renewcommand*\l@section{\@regtocline{1}}
\fi
\if@titlepage
  \renewenvironment{abstract}{%
      \titlepage
      \null\vfil
      \section*{\SectFont\abstractname}%
      \noindent\ignorespaces}
     {\par\vfil\null\endtitlepage}
\else
  \renewenvironment{abstract}{%
      \if@twocolumn
        \section*{\abstractname}%
      \else
        \bgroup\if@RTL\leftskip\else\rightskip\fi=\unitindent
        \section*{\small\SectFont\abstractname}%
        \noindent\ignorespaces
      \fi}
      {\if@twocolumn\else\par\egroup\fi}
\fi
\renewcommand*\left@footnoterule{%
  \kern-3\p@
  \kern.5\baselineskip
  \hrule\@width\unitindent
  \kern.4\baselineskip
}
\renewcommand*\right@footnoterule{%
  \kern-3\p@
  \kern.5\baselineskip
  \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
  \kern.4\baselineskip}
\renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
```

```
\renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
\renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
\renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
\renewenvironment{thebibliography}[1]
     {\section*{\refname}%
       \@mkboth{\MakeUppercase\refname}{\MakeUppercase\refname}%
    \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
       \list{\@biblabel{\@arabic\c@enumiv}}%
            {\settowidth\labelwidth{\@biblabel{#1}}%
             \leftmargin\labelwidth
             \advance\leftmargin\labelsep
             \@openbib@code
             \usecounter{enumiv}%
             \let\p@enumiv\@empty
             \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
      \sloppy\clubpenalty4000\widowpenalty4000%
      \sfcode`\.\@m}
     {\def\@noitemerr
       {\@latex@warning{Empty `thebibliography' environment}}%
      \endlist}
\if@titlepage
\renewcommand*\TitleFont{\rmfamily}
\renewcommand*\maketitle{%
  \begin{titlepage}%
    \let\footnotesize\small
    \let\right@footnoterule\relax
    \let\left@footnoterule\relax
    \let\textwidth@footnoterule\relax
    \let \footnote \thanks
    \long\def\@makefntext##1{\parindent\z@
         \def\labelitemi{\textendash}\@revlabeltrue
         \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
    \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
    \if@compatibility\setcounter{page}{0}\fi
    \null\vfil
    \vskip 60\p@
    \begin{center}%
      \TitleFont
      {\LARGE \def\\{\penalty -\@M}
        \if@allcaps
          \expandafter\uc@nothanks\@title\thanks\relax
        \else
          \@title
        \fi\par}%
      \vskip 3em%
      {\large
        \lineskip .75em \parindent\z@
        \begin{tabular}[t]{c}%
          \if@allcaps
            \expandafter\uc@authornothanks\@author\and\relax
```

```
          \else
            \@author
          \fi
        \end{tabular}\par}%
      \vskip 1.5em%
      {\large
        \if@allcaps
          \uppercase\expandafter{\@date}%
        \else
          \@date
        \fi\par}%
      \end{center}\par
    \@thanks
    \vfil\null
  \end{titlepage}%
  \setcounter{footnote}{0}%
  \global\let\thanks\relax
  \global\let\maketitle\relax
  \global\let\@thanks\@empty
  \global\let\@author\@empty
  \global\let\@title\@empty
  \global\let\@date\@empty
  \global\let\title\relax
  \global\let\author\relax
  \global\let\date\relax
  \global\let\and\relax
}
\def\uc@nothanks#1\thanks{\uppercase{#1}\futurelet\@tempa\uc@tx}
\def\uc@authornothanks#1\and{\uc@nothanks#1\thanks\relax
    \futurelet\@tempa\uc@ax}
\def\uc@ax{%
  \ifx\@tempa\relax
  \else
    \\ \andname \\ \expandafter\uc@authornothanks
  \fi}
\def\uc@tx{\ifx\@tempa\relax
    \else \expandafter\uc@ty \fi}
\def\uc@ty#1{\thanks{#1}\uc@nothanks}
\else
\renewcommand*\maketitle{\par
  \begingroup
    \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
    \def\@makefnmark{\rlap{%
      \@textsuperscript{\normalfont\@thefnmark}}}%
    \long\def\@makefntext{\@xmakefntext{%
      \@textsuperscript{\normalfont\@thefnmark}}}%
    \if@twocolumn
      \ifnum \col@number=\@ne
        \@maketitle
      \else
```

```
        \twocolumn[\@maketitle]%
      \fi
    \else
      \newpage
      \global\@topnum\z@
      \@maketitle
    \fi
    \thispagestyle{plain}\@thanks
  \endgroup
  \setcounter{footnote}{0}%
  \global\let\thanks\relax
  \global\let\maketitle\relax
  \global\let\@maketitle\relax
  \global\let\@thanks\@empty
  \global\let\@author\@empty
  \global\let\@title\@empty
  \global\let\@date\@empty
  \global\let\title\relax
  \global\let\author\relax
  \global\let\date\relax
  \global\let\and\relax
  }
\def\@maketitle{%
  \newpage
  \null
  \vskip 2em%
\if@titlecentered
  \begin{center}%
    \let \footnote \thanks
    {\LARGE \TitleFont \@title \par}%
    \vskip 1.5em%
    {\large \TitleFont
      \lineskip .5em%
      \begin{tabular}[t]{c}%
        \@author
      \end{tabular}\par}%
    \vskip 1em%
    {\large \TitleFont \@date}%
  \end{center}%
 \else
     {\LARGE \TitleFont \head@style \@title \par} \vskip 1.5em
     {\large \TitleFont \lineskip .5em \tabcolsep\z@
              \def\and{%%% \begin{tabular} has already started
                       \end{tabular}\hskip 1em plus .17fil
               \if@RTL\begin{tabular}[t]{r}\else\begin{tabular}[t]{l}\fi}%% \end{tabular} will
         \if@RTL\begin{tabular}[t]{r}\else\begin{tabular}[t]{l}\fi\@author\end{tabular}\par}
     \vskip 1em {\large \TitleFont \@date}
 \fi
  \par
  \vskip 1.5em}
```

```
\fi
```

7.14 arydshln-xetex-bidi.def

```
\ProvidesFile{arydshln-xetex-bidi.def}[2010/08/01 v0.2 bidi adaptations for arydshln package for
\def\endarray{\adl@endarray \egroup \adl@arrayrestore \if@RTLtab\egroup\endR\egroup\fi\egroup}
\def\endtabular{\endarray $\if@RTLtab\endR\fi\egroup\@RTLtabfalse}
\expandafter\let\csname endtabular*\endcsname\endtabular
\let\adl@array\@array
\def\@array{\adl@everyvbox\everyvbox
     \everyvbox{\adl@arrayinit \the\adl@everyvbox \everyvbox\adl@everyvbox}%
        \ifadl@inactive \adl@inactivate \else \adl@activate \fi
        \let\adl@noalign\noalign
        \adl@array}
\ifadl@usingarypkg
\def\@testpach{\@chclass
 \ifnum \@lastchclass=6 \@ne \@chnum \@ne \else
  \ifnum \@lastchclass=7 5 \else
   \ifnum \@lastchclass=8 \tw@ \else
    \ifnum \@lastchclass=9 \thr@@
   \else \z@
   \ifnum \@lastchclass = 10 \else
   \edef\@nextchar{\expandafter\string\@nextchar}%
   \@chnum
   \if \@nextchar c\z@ \else
    \if \@nextchar \if@RTLtab r\else l\fi\@ne \else
     \if \@nextchar \if@RTLtab l\else r\fi\tw@ \else
   \z@ \@chclass
   \if\@nextchar |\@ne \let\@arrayrule\adl@arrayrule \else
   \if\@nextchar :\@ne \let\@arrayrule\adl@arraydashrule \else
   \if\@nextchar ;\@ne \let\@arrayrule\adl@argarraydashrule \else
    \if \@nextchar !6 \else
     \if \@nextchar @7 \else
      \if \@nextchar <8 \else
       \if \@nextchar >9 \else
  10
  \@chnum
  \if \@nextchar m\thr@@\else
   \if \@nextchar p4 \else
    \if \@nextchar b5 \else
   \z@ \@chclass \z@ \@preamerr \z@ \fi \fi \fi \fi \fi \fi
   \fi \fi  \fi  \fi  \fi  \fi  \fi \fi \fi \fi \fi \fi}

\def\@classz{\@classx
   \@tempcnta \count@
   \prepnext@tok
   \@addtopreamble{\ifcase \@chnum
      \hfil
      \adl@putlrc{\d@llarbegin \insert@column \d@llarend}\hfil \or
    \hskip1sp\adl@putlrc{\d@llarbegin \insert@column \d@llarend}\hfil \or
```

```
    \hfil\hskip1sp\adl@putlrc{\d@llarbegin \insert@column \d@llarend}\or
   \setbox\adl@box\hbox \adl@startmbox{\@nextchar}\insert@column
        \adl@endmbox\or
  \setbox\adl@box\vtop \@startpbox{\@nextchar}\insert@column \@endpbox \or
   \setbox\adl@box\vbox \@startpbox{\@nextchar}\insert@column \@endpbox
  \fi}\prepnext@tok}
\def\adl@class@start{4}
\def\adl@class@iiiorvii{7}

\else
\def\@testpach#1{\@chclass \ifnum \@lastchclass=\tw@ 4\relax \else
        \ifnum \@lastchclass=\thr@@ 5\relax \else
                \z@ \if #1c\@chnum \z@ \else
                    \if \if@RTLtab#1r\else#1l\fi\@chnum \@ne \else
                    \if \if@RTLtab#1l\else#1r\fi\@chnum \tw@ \else
                \@chclass
                    \if #1|\@ne \let\@arrayrule\adl@arrayrule \else
                    \if #1:\@ne \let\@arrayrule\adl@arraydashrule \else
                  \if #1;\@ne \let\@arrayrule\adl@argarraydashrule \else
                    \if #1@\tw@ \else
                    \if #1p\thr@@ \else \z@ \@preamerr 0\fi
        \fi  \fi  \fi  \fi  \fi  \fi  \fi  \fi  \fi}

\def\@arrayclassz{\ifcase \@lastchclass \@acolampacol \or \@ampacol \or
                \or \or \@addamp \or
                \@acolampacol \or \@firstampfalse \@acol \fi
        \edef\@preamble{\@preamble
                \ifcase \@chnum
                    \hfil\adl@putlrc{$\relax\@sharp$}\hfil
                \or \adl@putlrc{$\relax\@sharp$}\hfil
                \or \hfil\adl@putlrc{$\relax\@sharp$}\fi}}
\def\@tabclassz{\ifcase \@lastchclass \@acolampacol \or \@ampacol \or
                \or \or \@addamp \or
                \@acolampacol \or \@firstampfalse \@acol \fi
        \edef\@preamble{\@preamble
        \ifcase \@chnum
                    \hfil\adl@putlrc{\@sharp\unskip}\hfil
                \or \adl@putlrc{\@sharp\unskip}\hfil
                \or \hfil\hskip\z@ \adl@putlrc{\@sharp\unskip}\fi}}
\def\adl@class@start{6}
\def\adl@class@iiiorvii{3}
\fi
\@ifpackageloaded{colortbl}{%
\def\adl@inactivate{\adl@org@inactivate \let\CT@setup\adl@CT@setup}
\def\adl@activate{\adl@org@activate \let\CT@setup\adl@act@CT@setup
        \let\@endpbox\adl@org@endpbox}
\let\adl@CT@setup\CT@setup
\def\CT@setup{\adl@CT@setup
        \@tempdima\ht\z@ \advance\@tempdima\minrowclearance
        \ifdim\adl@height<\@tempdima \global\adl@height\@tempdima \fi
```

```
        \ifdim\adl@depth<\dp\z@ \global\adl@depth\dp\z@\fi}
\let\adl@act@CT@setup\CT@setup
\def\@classz{\@classx
        \@tempcnta\count@ \prepnext@tok
        \expandafter\CT@extract\the\toks\@tempcnta\columncolor!\@nil
      \expandafter\adl@extract@arc\the\toks\@tempcnta\arrayrulecolor!\@nil
        \expandafter\adl@extract@drsc
                \the\toks\@tempcnta\doublerulesepcolor!\@nil
      \expandafter\adl@extract@dgc\the\toks\@tempcnta\dashgapcolor!\@nil
        \@addtopreamble{\if@RTL\beginL\fi%
                \setbox\z@\hbox\bgroup\bgroup\if@RTL\beginR\fi
                \ifcase \@chnum
                        \hskip\stretch{.5}\kern\z@
                        \d@llarbegin
                        \insert@column
                        \d@llarend\hskip\stretch{.5}%
                \or \d@llarbegin \insert@column \d@llarend \hfill
              \or \hfill \kern\z@ \d@llarbegin \insert@column \d@llarend
                \or  $\vcenter
                     \@startpbox{\@nextchar}\insert@column \@endpbox $%
              \or  \vtop \@startpbox{\@nextchar}\insert@column \@endpbox
              \or  \vbox \@startpbox{\@nextchar}\insert@column \@endpbox
                \fi
                \if@RTL\endR\fi\egroup\egroup
                \begingroup
                        \CT@setup
                        \CT@column@color
                        \CT@row@color
                        \CT@cell@color
                        \CT@do@color
                \endgroup
                \@tempdima\ht\z@
                \advance\@tempdima\minrowclearance
                \vrule\@height\@tempdima\@width\z@
                \unhbox\z@\if@RTL\endL\fi}%
        \prepnext@tok}
\let\adl@act@classz\@classz
\let\adl@org@classz\@classz
}{}
```

7.15 bidi.sty

```
\NeedsTeXFormat{LaTeX2e}
\def\bididate{2015/12/07}
\def\bidiversion{v19.1}
\ProvidesPackage{bidi}[\bididate\space \bidiversion\space
Bidirectional typesetting in plain TeX and LaTeX]
\edef\@bidi@info{**************************************************^^J%
* ^^J%
* bidi package (Bidirectional typesetting in^^J%
```

```
* plain TeX and LaTeX, using XeTeX engine)^^J%
* ^^J%
* Description: A convenient interface for^^J%
* typesetting bidirectional texts in plain TeX^^J%
* and LaTeX.  The package includes adaptations^^J%
* for use with many other commonly-used packages.^^J%
* ^^J%
* Copyright (c) 2009--2015 Vafa Khalighi^^J%
* ^^J%
* \bididate, \bidiversion^^J%
* ^^J%
* License: LaTeX Project Public License, version^^J%
* 1.3c or higher (your choice)^^J%
* ^^J%
* Location on CTAN: /macros/xetex/latex/bidi^^J%
* ^^J%
* Issue tracker: https://github.com/persian-tex/bidi/issues^^J%
* ^^J%
* Support: persian-tex@tug.org^^J%
**************************************************}
\typeout{\@bidi@info}
\edef\bidi@everyjob{\the\everyjob}
\everyjob{\bidi@everyjob\typeout{\@bidi@info}}
\RequirePackage{iftex}
\RequireXeTeX
\RequirePackage{biditools}
\RequirePackage{zref-abspage}
\RequirePackage{auxhook}
\RequirePackage{ltxcmds}
\RequirePackage{xkeyval}
\eqnewif{\if@RTLmain}{\if@rlmain}
\eqnewif{\if@RTL}{\if@rl}
\newif\if@Latin
\eqnewif{\if@RTLtab}{\if@tab@rl}
\newif\if@RTLmarginpar
\newif\if@LTRmarginpar
\newif\if@LTRbibitems
\newif\if@RTLbibitems
\newif\if@extrafootnotefeatures
\newif\if@parafootRTL
\newif\if@RTLcolumnfootnotes
\eqnewif{\if@RTL@footnote}{\if@rl@footnote}
\newif\if@bidi@list@minipage@parbox
\newif\if@bidi@list@minipage@parbox@not@nob
\@RTLmainfalse
\AtBeginDocument{%
  \if@RTLmain\else
    \if@RTL\@RTLmaintrue%
    \else\@RTLmainfalse%
    \fi%
```

```
  \fi%
}
\let\n@xt=\
\bidi@newrobustcmd*{\LRE}{\protect\pLRE}%
\def\pLRE{\protect\afterassignment\moreLRE \let\n@xt= }
\bidi@newrobustcmd*{\RLE}{\protect\pRLE}
\def\pRLE{\protect\afterassignment\moreRLE \let\n@xt= }
\def\bracetext{\ifcat\n@xt{\else\ifcat\n@xt}\fi
  \errmessage{Missing left brace has been substituted}\fi \bgroup}
\input{latex-xetex-bidi.def}
\input{loadingorder-xetex-bidi.def}
\define@choicekey{bidi.sty}{RTLdocument}[\bidi@tempa\bidi@tempb]{on,off}[on]{%
  \ifcase\bidi@tempb\relax
    \@RTLtrue
  \or
    \@RTLfalse
  \fi}
\define@choicekey{bidi.sty}{rldocument}[\bidi@tempa\bidi@tempb]{on,off}[on]{%
  \ifcase\bidi@tempb\relax
    \@RTLtrue
  \or
    \@RTLfalse
  \fi}
\define@choicekey{bidi.sty}{footnoterule}[\bidi@tempa\bidi@tempb]{automatic,left,right,split,
  \ifcase\bidi@tempb\relax
    \autofootnoterule
  \or
    \leftfootnoterule
  \or
    \rightfootnoterule
  \or
    \SplitFootnoteRule
  \or
    \textwidthfootnoterule
  \fi}
\define@choicekey{bidi.sty}{footnotedirection}[\bidi@tempa\bidi@tempb]{righttoleft,lefttorigh
  \ifcase\bidi@tempb\relax
    \@RTL@footnotetrue
  \or
    \@RTL@footnotefalse
  \fi}
\define@choicekey{bidi.sty}{debugfootnotedirection}[\bidi@tempa\bidi@tempb]{on,off}[on]{%
  \ifcase\bidi@tempb\relax
    \footdir@debugtrue
  \or
    \footdir@debugfalse
  \fi}
\define@choicekey{bidi.sty}{extrafootnotefeatures}[\bidi@tempa\bidi@tempb]{on,off}[on]{%
  \ifcase\bidi@tempb\relax
    \@extrafootnotefeaturestrue
```

```
  \or
    \@extrafootnotefeaturesfalse
  \fi}

\ProcessOptionsX

\if@extrafootnotefeatures
  \input{extrafootnotefeatures-xetex-bidi.def}
\fi
```

7.16 bidi.tex

```
\def\bididate{2015/10/16}
\def\bidiversion{v0.3}
\catcode`@=11
\let \protect \relax
\newlinechar`\^^J
\edef\@bidi@info{**************************************************^^J%
* ^^J%
* bidi package (Bidirectional typesetting in^^J%
* plain TeX and LaTeX, using XeTeX engine)^^J%
* ^^J%
* Description: A convenient interface for^^J%
* typesetting bidirectional texts in plain TeX^^J%
* and LaTeX.  The package includes adaptations^^J%
* for use with many other commonly-used packages.^^J%
* ^^J%
* Copyright (c) 2009--2015 Vafa Khalighi^^J%
* ^^J%
* \bididate, \bidiversion^^J%
* ^^J%
* License: LaTeX Project Public License, version^^J%
* 1.3c or higher (your choice)^^J%
* ^^J%
* Location on CTAN: /macros/xetex/latex/bidi^^J%
* ^^J%
* Issue tracker: https://github.com/persian-tex/bidi/issues^^J%
* ^^J%
* Support: persian-tex@tug.org^^J%
**************************************************}
\message{\@bidi@info}
\edef\bidi@everyjob{\the\everyjob}
\everyjob{\bidi@everyjob\message{\@bidi@info}}
\input iftex.sty
\RequireXeTeX
\newif\if@RTLmain
\newif\if@RTL
\newif\if@sentdir
\newif\if@RTL@footnote
\@RTLmainfalse
```

```
\def\setRTLmain{%
  \if@RTLmain\else
    \if@RTL\@RTLmaintrue%
    \else\@RTLmainfalse%
    \fi%
  \fi%
}
\let\n@xt=\
\protected\def\LRE{\protect\pLRE}%
\def\pLRE{\protect\afterassignment\moreLRE \let\n@xt= }
\protected\def\RLE{\protect\pRLE}
\def\pRLE{\protect\afterassignment\moreRLE \let\n@xt= }
\def\bracetext{\ifcat\n@xt{\else\ifcat\n@xt}\fi
  \errmessage{Missing left brace has been substituted}\fi \bgroup}
\input plain-xetex-bidi.def
\catcode`@=12
```

7.17 bidi2in1.sty

```
\NeedsTeXFormat{LaTeX2e}
\ProvidesPackage{bidi2in1}
\pagestyle{plain}
\newcount\evenpage
\newcount\oddpage
\twocolumn
\def\@oddfoot{\evenpage=\thepage%
\multiply\evenpage by 2%
\oddpage=\the\evenpage%
\advance\oddpage by -1%
\hfil\the\evenpage\hfil\hfil\the\oddpage\hfil}%
\def\@evenfoot{\evenpage=\thepage%
\multiply\evenpage by 2%
\oddpage=\the\evenpage%
\advance\oddpage by -1%
\hfil\the\oddpage\hfil\hfil\the\evenpage\hfil}%
\textwidth 9.49in
\textheight 6.7in
\columnsep 0.9in
\columnseprule 0.125pt
\headheight 0cm
\topmargin 0in
\marginparwidth 0in
\marginparsep 0in
\hoffset 0.05in % Corrected
\voffset -0.5in %top margin space is 1.0in by default
\oddsidemargin 0in
\evensidemargin 0in
\headsep 0cm
\topskip 0cm
\parskip 0.15in       %
```

```
\headsep 0pt
\special{papersize=11.69in,8.26in}
\renewcommand\maketitle{\par
\begingroup
\renewcommand\thefootnote{\@fnsymbol\c@footnote}%
\def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
\long\def\@makefntext##1{\parindent 1em\noindent
\hb@xt@1.8em{%
\hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
\@maketitle
\@thanks
\endgroup
\setcounter{footnote}{0}%
\global\let\thanks\relax
\global\let\maketitle\relax
\global\let\@maketitle\relax
\global\let\@thanks\@empty
\global\let\@author\@empty
\global\let\@date\@empty
\global\let\@title\@empty
\global\let\title\relax
\global\let\author\relax
\global\let\date\relax
\global\let\and\relax
}
```

7.18 bidicode.sty

```
\NeedsTeXFormat{LaTeX2e}
\ProvidesPackage{bidicode}
\RequirePackage{xcolor}
\RequirePackage{showexpl}
\definecolor{hellgelb}{rgb}{1,1,0.85}
\definecolor{colKeys}{rgb}{0,0,1}
\definecolor{colIdentifier}{rgb}{0,0,0}
\definecolor{colComments}{rgb}{1,0,0}
\definecolor{colString}{rgb}{0,0.5,0}
\lstset{
    language=[LaTeX]TEX,
    float=hbp,
    basicstyle=\ttfamily\small,
    identifierstyle=\color{colIdentifier},
    keywordstyle=\color{colKeys},
    stringstyle=\color{colString},
    commentstyle=\color{colComments},
    columns=flexible,
    tabsize=4,
    gobble =1,
    extendedchars=true,
    showspaces=false,
```

```
    showstringspaces=false,
    numbers=left,
    numbersep=0.9em,
    numberstyle=\tiny, %
    frame=single,
    captionpos=b,
    xleftmargin=1em,
    breaklines=true,
    breakautoindent=false,
    breakindent=0pt,
    escapeinside=**,
    pos=r,
    explpreset={%
    xleftmargin=1em,columns=flexible,language=[LaTeX]TEX},
   morekeywords={setLTR,setLR,setRTL,setRL,LRE,LR,RLE,RL,lr,bidiversion,bididate}
}
\newcommand\HLON{%
  \gdef\lst@alloverstyle##1{%
    \fboxrule=0pt
    \fboxsep=0pt
    \fcolorbox{hellgelb}{hellgelb}{\bfseries\strut##1}%
}}
\newcommand\HLOFF{%
  \xdef\lst@alloverstyle##1{##1}%
}
\newcommand\Larg [1]{{\normalfont\itshape#1\/}}
\newcommand\Larga[1]{$\langle$\Larg{#1}$\rangle$}
\newcommand\Largb[1]{\lcb\Larg{#1}\rcb}
\newcommand\Largs[1]{\lsb\Larg{#1}\rsb}
\newcommand\Largr[1]{\lrb\Larg{#1}\rrb}
\newcommand\LBEG[1]{{\normalfont\ttfamily\bs{}begin\lcb#1\rcb}}
\newcommand\LEND[1]{{\normalfont\ttfamily\bs{}end\lcb#1\rcb}}

\DeclareRobustCommand\bs{{\normalfont\ttfamily\symbol{92}}}
\DeclareRobustCommand\lcb{{\normalfont\ttfamily\char`\{}}
\DeclareRobustCommand\rcb{{\normalfont\ttfamily\char`\}}}
\DeclareRobustCommand\lsb{{\normalfont\ttfamily[}}
\DeclareRobustCommand\rsb{{\normalfont\ttfamily]}}
\DeclareRobustCommand\lrb{{\normalfont\ttfamily(}}
\DeclareRobustCommand\rrb{{\normalfont\ttfamily)}}

\def\Lcs#1{\nxLcs{#1}}
\def\LcsStar#1{\nxLcs{#1}\OptArg*{*}}
\def\nxLcs#1{\texttt{\symbol{92}#1}}

\def\Coordx#1{$x_{#1}$}
\def\Coordy#1{$y_{#1}$}
\def\Coordz#1{$z_{#1}$}
\def\Coord#1{\Coordx{#1},\kern 1pt\Coordy{#1}}
\def\Coordn{\Coordx{n},\kern 1pt\Coordy{n}}
```

```
\def\CoordIII#1{\Coordx{#1},\kern 1pt\Coordy{#1},\kern 1pt\Coordz{#1}}
\def\CAny{\Coordx{},\kern 1pt\Coordy{}}
\def\CIIIAny{\Coordx{},\kern 1pt\Coordy{},\kern 1pt\Coordz{}}
\def\coord#1{(\Coordx{#1},\kern 1pt\Coordy{#1})}
\def\coordn{(\Coordx{n},\kern 1pt\Coordy{n})}
\def\coordiii#1{(\Coordx{#1},\kern 1pt\Coordy{#1},\kern 1pt\Coordz{#1})}
\def\coordx#1{($x_{#1}$)}
\def\coordy#1{($y_{#1}$)}
\def\coordz#1{($z_{#1}$)}
\def\cAny{(\Coordx{},\kern 1pt\Coordy{})}
\def\ciiiAny{(\Coordx{},\kern 1pt\Coordy{},\kern 1pt\Coordz{})}

\newsavebox{\boxdef}
\newenvironment{BDef}
  {\begin{lrbox}\boxdef
      \def\arraystretch{1.0}
      \begin{tabular}{@{}l@{}l@{}l@{}}
  }
  {\end{tabular}\end{lrbox}

   {\BCmd\fbox{\usebox\boxdef}\endBCmd}
   \aftergroup\@afterindentfalse\aftergroup\@afterheading
  }

\newenvironment{BDef*}
  {\begin{lrbox}\boxdef
      \def\arraystretch{1.0}
      \begin{tabular}{@{}l@{}l@{}l@{}}
  }
  {\end{tabular}\end{lrbox}
   {\begin{BCmd*}\fbox{\usebox\boxdef}\end{BCmd*}}
   \aftergroup\@afterindentfalse\aftergroup\@afterheading
  }
\newenvironment{BCmd}{
  \@beginparpenalty-\@lowpenalty
  \topsep\BDefaboveskip
  \fboxsep3pt
  \flushleft}
 {\@endparpenalty\@M
  \@topsepadd\BDefbelowskip
  \endflushleft}

\newenvironment{BCmd*}{
  \@beginparpenalty\@M
  \topsep\BDefinlineskip
  \fboxsep3pt
  \flushleft}
 {\@endparpenalty5000
  \endflushleft}

```

```
\newskip\BDefaboveskip
\newskip\BDefbelowskip
\newskip\BDefinlineskip
\setlength\BDefaboveskip{10pt plus 4pt}
\setlength\BDefbelowskip{6pt}
\setlength\BDefinlineskip{6pt}

\def\OptArgs{\colorbox{black!20}{\texttt{[Options]}}\kern1pt}
\def\OptArg{\@ifnextchar*\OptArg@i{\OptArg@ii*}}
\def\OptArg@i*#1{\colorbox{black!20}{\texttt{#1}}\kern1pt}
\def\OptArg@ii*#1{\colorbox{black!20}{\texttt{[#1]}}\kern1pt}
```

7.19 bidiftnxtra.sty

```
\NeedsTeXFormat{LaTeX2e}
\ProvidesPackage{bidiftnxtra}
\newtoks\bidi@p@ftn
\let\FN@sf@@footnote\footnote
\let\FN@sf@@LTRfootnote\LTRfootnote
\let\FN@sf@@RTLfootnote\RTLfootnote
\def\footnote{\ifx\protect\@typeset@protect
    \expandafter\FN@sf@@footnote
  \else
    \expandafter\FN@sf@gobble@opt
  \fi
}
\def\LTRfootnote{\ifx\protect\@typeset@protect
    \expandafter\FN@sf@@LTRfootnote
  \else
    \expandafter\FN@sf@gobble@opt
  \fi
}
\def\RTLfootnote{\ifx\protect\@typeset@protect
    \expandafter\FN@sf@@RTLfootnote
  \else
    \expandafter\FN@sf@gobble@opt
  \fi
}
\edef\FN@sf@gobble@opt{\noexpand\protect
  \expandafter\noexpand\csname FN@sf@gobble@opt \endcsname}
\expandafter\def\csname FN@sf@gobble@opt \endcsname{%
  \@ifnextchar[%]
    \FN@sf@gobble@twobracket
    \@gobble
}
\def\FN@sf@gobble@twobracket[#1]#2{}
\let\FN@sf@@footnotemark\footnotemark
\def\footnotemark{\ifx\protect\@typeset@protect
    \expandafter\FN@sf@@footnotemark
  \else
```

```
    \expandafter\FN@sf@gobble@optonly
  \fi
}
\edef\FN@sf@gobble@optonly{\noexpand\protect
  \expandafter\noexpand\csname FN@sf@gobble@optonly \endcsname}
\expandafter\def\csname FN@sf@gobble@optonly \endcsname{%
  \@ifnextchar[%]
    \FN@sf@gobble@bracket
    {}%
}
\def\FN@sf@gobble@bracket[#1]{}
\def\@tabular{\if@RTL\global\@RTLtabtrue\fi
   \leavevmode \hbox \bgroup
   \let\@footnotetext\bidi@p@ftntext
   \let\@LTRfootnotetext\bidi@p@LTRftntext
   \let\@RTLfootnotetext\bidi@p@RTLftntext
   \let\@xfootnotenext\bidi@p@xftntext
   \let\@xfootnote\bidi@p@xfootnote
   \let\@xLTRfootnotenext\bidi@p@xLTRftntext
   \let\@xLTRfootnote\bidi@p@xLTRfootnote
    \let\@xRTLfootnotenext\bidi@p@xRTLftntext
   \let\@xRTLfootnote\bidi@p@xRTLfootnote
   \if@RTLtab\beginR \fi
   $\let\@acol\@tabacol
   \let\@classz\@tabclassz
   \let\@classiv\@tabclassiv \let\\\@tabularcr\@tabarray}
\def\endtabular{\crcr\egroup\if@RTLtab\egroup\endR\egroup\fi
                  \egroup $\if@RTLtab\endR\fi\egroup
                   \ifx\@captype\@undefined
             \global\bidi@p@ftn\expandafter{\expandafter}\the\bidi@p@ftn\fi%
                  \global\@RTLtabfalse}
\long\def\bidi@p@ftntext#1{%
  \edef\@tempy{\the\bidi@p@ftn\noexpand\footnotetext[\the\csname c@\@mpfn\endcsname]}%
   \global\bidi@p@ftn\expandafter{\@tempy{#1}}}%
\long\def\bidi@p@LTRftntext#1{%
  \edef\@tempyi{\the\bidi@p@ftn\noexpand\LTRfootnotetext[\the\csname c@\@mpfn\endcsname]}%
   \global\bidi@p@ftn\expandafter{\@tempyi{#1}}}%
\long\def\bidi@p@RTLftntext#1{%
  \edef\@tempyii{\the\bidi@p@ftn\noexpand\RTLfootnotetext[\the\csname c@\@mpfn\endcsname]}%
   \global\bidi@p@ftn\expandafter{\@tempyii{#1}}}%


\long\def\bidi@p@xftntext[#1]#2{%
   \global\bidi@p@ftn\expandafter{\the\bidi@p@ftn\footnotetext[#1]{#2}}}

\long\def\bidi@p@xLTRftntext[#1]#2{%
  \global\bidi@p@ftn\expandafter{\the\bidi@p@ftn\LTRfootnotetext[#1]{#2}}}

\long\def\bidi@p@xRTLftntext[#1]#2{%
  \global\bidi@p@ftn\expandafter{\the\bidi@p@ftn\RTLfootnotetext[#1]{#2}}}
```

```
2155
2156
2157 \def\bidi@p@xfootnote[#1]{%
2158   \begingroup
2159     \csname c@\@mpfn\endcsname #1\relax
2160     \unrestored@protected@xdef\@thefnmark{\thempfn}%
2161   \endgroup
2162   \@footnotemark\bidi@p@xftntext[#1]}
2163
2164
2165 \def\bidi@p@xLTRfootnote[#1]{%
2166   \begingroup
2167     \csname c@\@mpfn\endcsname #1\relax
2168     \unrestored@protected@xdef\@thefnmark{\thempfn}%
2169   \endgroup
2170   \@footnotemark\bidi@p@xLTRftntext[#1]}
2171
2172
2173 \def\bidi@p@xRTLfootnote[#1]{%
2174   \begingroup
2175     \csname c@\@mpfn\endcsname #1\relax
2176     \unrestored@protected@xdef\@thefnmark{\thempfn}%
2177   \endgroup
2178   \@footnotemark\bidi@p@xRTLftntext[#1]}
2179
2180 \def\@xfloat #1[#2]{%
2181  \@nodocument
2182  \def \@captype {#1}%
2183   \def \@fps {#2}%
2184   \@onelevel@sanitize \@fps
2185   \def \reserved@b {!}%
2186   \ifx \reserved@b \@fps
2187     \@fpsadddefault
2188   \else
2189     \ifx \@fps \@empty
2190       \@fpsadddefault
2191     \fi
2192   \fi
2193   \ifhmode
2194     \@bsphack
2195     \@floatpenalty -\@Mii
2196   \else
2197     \@floatpenalty-\@Miii
2198   \fi
2199  \ifinner
2200     \@parmoderr\@floatpenalty\z@
2201  \else
2202    \@next\@currbox\@freelist
2203      {%
2204       \@tempcnta \sixt@@n
```

```
      \expandafter \@tfor \expandafter \reserved@a
        \expandafter :\expandafter =\@fps
        \do
         {%
          \if \reserved@a h%
            \ifodd \@tempcnta
            \else
              \advance \@tempcnta \@ne
            \fi
          \fi
          \if \reserved@a t%
            \@setfpsbit \tw@
          \fi
          \if \reserved@a b%
            \@setfpsbit 4%
          \fi
          \if \reserved@a p%
            \@setfpsbit 8%
          \fi
          \if \reserved@a !%
            \ifnum \@tempcnta>15
              \advance\@tempcnta -\sixt@@n\relax
            \fi
          \fi
          }%
      \@tempcntb \csname ftype@\@captype \endcsname
      \multiply \@tempcntb \@xxxii
      \advance \@tempcnta \@tempcntb
      \global \count\@currbox \@tempcnta
      }%
    \@fltovf
  \fi
  \global \setbox\@currbox
    \color@vbox
      \normalcolor
      \vbox \bgroup
       \let\@footnotetext\bidi@p@ftntext
       \let\@LTRfootnotetext\bidi@p@LTRftntext
       \let\@RTLfootnotetext\bidi@p@RTLftntext
       \let\@xfootnotenext\bidi@p@xftntext
        \let\@xfootnote\bidi@p@xfootnote
        \let\@xLTRfootnotenext\bidi@p@xLTRftntext
        \let\@xLTRfootnote\bidi@p@xLTRfootnote
        \let\@xRTLfootnotenext\bidi@p@xRTLftntext
        \let\@xRTLfootnote\bidi@p@xRTLfootnote
        \hsize\columnwidth
        \@parboxrestore
        \@floatboxreset
}
\def \@endfloatbox{%
```

```
      \par\vskip\z@skip      %% \par\vskip\z@ added 15 Dec 87
      \@minipagefalse
      \outer@nobreak
    \egroup                  %% end of vbox
    \global\bidi@p@ftn\expandafter{\expandafter}\the\bidi@p@ftn
  \color@endbox
}
```

7.20 bidi-longtable.sty

```
\ProvidesPackage{bidi-longtable}[2012/12/12 v0.1 typesetting bidi longtables in XeTeX engine (ex
\def\longtable{\if@RTL\@RTLtabtrue\fi%
  \par
  \ifx\multicols\@undefined
  \else
     \ifnum\col@number>\@ne
       \@twocolumntrue
     \fi
  \fi
  \if@twocolumn
    \LT@err{longtable not in 1-column mode}\@ehc
  \fi
  \begingroup
  \@ifnextchar[\LT@array{\LT@array[x]}}
\def\endlongtable{%
  \crcr
  \noalign{%
    \let\LT@entry\LT@entry@chop
    \xdef\LT@save@row{\LT@save@row}}%
  \LT@echunk
  \LT@start
  \unvbox\z@
  \LT@get@widths
  \if@filesw
    {\let\LT@entry\LT@entry@write\immediate\write\@auxout{%
      \gdef\expandafter\noexpand
        \csname LT@\romannumeral\c@LT@tables\endcsname
          {\LT@save@row}}}%
  \fi
  \ifx\LT@save@row\LT@@save@row
  \else
    \LT@warn{Column \@width s have changed\MessageBreak
             in table \thetable}%
    \LT@final@warn
  \fi
  \endgraf\penalty -\LT@end@pen
  \endgroup
  \global\@mparbottom\z@
  \pagegoal\vsize
  \endgraf\penalty\z@\addvspace\LTpost
```

```
  \ifvoid\footins\else\insert\footins{}\fi\@RTLtabfalse}
\def\LT@output{%
  \ifnum\outputpenalty <-\@Mi
    \ifnum\outputpenalty > -\LT@end@pen
      \LT@err{floats and marginpars not allowed in a longtable}\@ehc
    \else
      \setbox\z@\vbox{\unvbox\@cclv}%
      \ifdim \ht\LT@lastfoot>\ht\LT@foot
        \dimen@\pagegoal
        \advance\dimen@-\ht\LT@lastfoot
        \ifdim\dimen@<\ht\z@
          \setbox\@cclv\vbox{\unvbox\z@\copy\LT@foot\vss}%
          \@makecol
          \@outputpage
          \setbox\z@\vbox{\box\LT@head}%
        \fi
      \fi
      \global\@colroom\@colht
      \global\vsize\@colht
      \vbox
     {\hbox{\if@RTLtab\beginR\fi\vbox{\unvbox\z@\box\ifvoid\LT@lastfoot\LT@foot\else\LT@lastf
    \fi
  \else
   \setbox\@cclv\vbox{\hbox{\if@RTLtab\beginR\fi\vbox{\unvbox\@cclv\copy\LT@foot\vss}\if@RTLta
    \@makecol
    \@outputpage
      \global\vsize\@colroom
    \copy\LT@head\nobreak
  \fi}
```

7.21 bidimoderncv.cls

```
\NeedsTeXFormat{LaTeX2e}
\ProvidesClass{bidimoderncv}
\newif\if@DEBUG\@DEBUGfalse
\DeclareOption{a4paper}{
  \setlength\paperheight{297mm}
  \setlength\paperwidth{210mm}}
\DeclareOption{a5paper}{
  \setlength\paperheight{210mm}
  \setlength\paperwidth{148mm}}
\DeclareOption{b5paper}{
  \setlength\paperheight{250mm}
  \setlength\paperwidth{176mm}}
\DeclareOption{letterpaper}{
  \setlength\paperheight{11in}
  \setlength\paperwidth{8.5in}}
\DeclareOption{legalpaper}{
  \setlength\paperheight{14in}
  \setlength\paperwidth{8.5in}}
```

```
\DeclareOption{executivepaper}{
  \setlength\paperheight{10.5in}
  \setlength\paperwidth{7.25in}}
\DeclareOption{landscape}{
  \setlength\@tempdima{\paperheight}
  \setlength\paperheight{\paperwidth}
  \setlength\paperwidth{\@tempdima}}
\newcommand\@ptsize{}
\DeclareOption{10pt}{\renewcommand\@ptsize{0}}
\DeclareOption{11pt}{\renewcommand\@ptsize{1}}
\DeclareOption{12pt}{\renewcommand\@ptsize{2}}
\DeclareOption{draft}{\setlength\overfullrule{5pt}}
\DeclareOption{final}{\setlength\overfullrule{0pt}}
\newif\if@colour\@colourtrue
\DeclareOption{nocolour}{\@colourfalse}
\ExecuteOptions{a4paper,11pt,colour,final}
\ProcessOptions\relax
\input{size1\@ptsize.clo}
\RequirePackage{color}
\RequirePackage{graphicx}
\RequirePackage{ifthen}
\RequirePackage{marvosym}
\addtolength{\oddsidemargin}{-54pt}
\addtolength{\textwidth}{109pt}
\addtolength{\topmargin}{-70pt}
\addtolength{\textheight}{122pt}
\addtolength{\marginparsep}{-5pt}
\addtolength{\marginparwidth}{-10pt}
\RequirePackage{url}
\RequirePackage{hyperref}
\hypersetup{%
  breaklinks,
  baseurl       = http://,%
  pdfborder     = 0 0 0,%
  pdfpagemode   = UseNone,%
  pdfstartpage  = 1}
\AtEndOfClass{%
  \AtBeginDocument{%
    \hypersetup{%
      pdfauthor     = \@firstname~\@familyname,%
      pdftitle      = \@title,%
      pdfsubject    = \@firstname~\@familyname,%
      pdfkeywords   = \@resumename~\@firstname~\@familyname}}}
\urlstyle{tt}
\RequirePackage{fancyhdr}
\fancypagestyle{plain}{%
  \renewcommand{\headrulewidth}{0pt}
  \renewcommand{\footrulewidth}{0pt}
  \fancyhf{}}
\pagestyle{plain}
```

```
\setlength\lineskip{1\p@}
\setlength\normallineskip{1\p@}
\renewcommand\baselinestretch{}
\setlength{\parindent}{0pt}
\setlength{\parskip}{0pt}
\setlength\columnsep{10\p@}
\setlength\columnseprule{0\p@}
\pagestyle{empty}
\pagenumbering{arabic}
\raggedbottom
\onecolumn
\providecommand*{\listitemsymbol}{\textbullet}
\providecommand*{\addresssymbol}{}
\providecommand*{\mobilesymbol}{\Mobilefone}
\providecommand*{\phonesymbol}{\Telefon}
\providecommand*{\faxsymbol}{\FAX}
\providecommand*{\emailsymbol}{\Letter}
\definecolor{firstnamecolor}{rgb}{0,0,0}
\def\firstnamecolour#1{\gdef\@firstnamecolour{\addfontfeature{Color=#1}}}
\def\familynamecolour#1{\gdef\@familynamecolour{\addfontfeature{Color=#1}}}
\def\titlecolour#1{\gdef\@titlecolour{\addfontfeature{Color=#1}}}
\def\addresscolour#1{\gdef\@addresscolour{\addfontfeature{Color=#1}}}
\def\quotecolour#1{\gdef\@quotecolour{\addfontfeature{Color=#1}}}
\def\sectiontitlecolour#1{\gdef\@sectiontitlecolour{\addfontfeature{Color=#1}}}
\definecolor{sectionrectanglecolor}{rgb}{0,0,0}
\def\subsectioncolour#1{\gdef\@subsectioncolour{\addfontfeature{Color=#1}}}
\def\hintcolour#1{\gdef\@hintcolour{\addfontfeature{Color=#1}}}
\providecommand*{\firstnamefont}{}
\providecommand*{\familynamefont}{}
\providecommand*{\titlefont}{}
\providecommand*{\addressfont}{}
\providecommand*{\quotefont}{}
\providecommand*{\sectionfont}{}
\providecommand*{\subsectionfont}{}
\providecommand*{\hintfont}{\small}
\providecommand*{\firstnamestyle}[1]{{\firstnamefont\@firstnamecolour#1}}
\providecommand*{\familynamestyle}[1]{{\familynamefont\@familynamecolour#1}}
\providecommand*{\titlestyle}[1]{{\titlefont\@titlecolour#1}}
\providecommand*{\addressstyle}[1]{{\addressfont\@addresscolour#1}}
\providecommand*{\quotestyle}[1]{{\quotefont\@quotecolour#1}}
\providecommand*{\sectionstyle}[1]{{\sectionfont\@sectiontitlecolour#1}}
\providecommand*{\subsectionstyle}[1]{{\subsectionfont\@subsectioncolour#1}}
\providecommand*{\hintstyle}[1]{{\hintfont\@hintcolour#1}}
\newcommand*{\cvtheme}[2][]{
  \def\@cvtheme{#2}
  \def\@cvthemeoptions{#1}}
\cvtheme{bidi-casual}
\AtBeginDocument{\RequirePackage[\@cvthemeoptions]{cvtheme\@cvtheme}}
\newcommand*{\resumename}[1]{\def\@resumename{#1}}
\newcommand*{\firstname}[1]{\def\@firstname{#1}}
```

```
\newcommand*{\familyname}[1]{\def\@familyname{#1}}
\renewcommand*{\title}[1]{\def\@title{#1}}
\newcommand*{\address}[1]{\def\@address{#1}}
\newcommand*{\mobile}[1]{\def\@mobile{#1}}
\newcommand*{\phone}[1]{\def\@phone{#1}}
\renewcommand*{\fax}[1]{\def\@fax{#1}}
\newcommand*{\email}[1]{\def\@email{#1}}
\newcommand*{\extrainfo}[1]{\def\@extrainfo{#1}}
\def\@photowidth{0pt}
\newcommand*{\photo}[2][64pt]{\def\@photowidth{#1}\def\@photo{#2}}
\newcommand*{\quote}[1]{\def\@quote{#1}}
\newlength{\quotewidth}
\newlength{\hintscolumnwidth}
\newlength{\separatorcolumnwidth}
\setlength{\separatorcolumnwidth}{0.025\textwidth}
\newlength{\maincolumnwidth}
\newlength{\doubleitemmaincolumnwidth}
\newlength{\listitemsymbolwidth}
\settowidth{\listitemsymbolwidth}{\listitemsymbol{}~}
\newlength{\listitemmaincolumnwidth}
\newlength{\listdoubleitemmaincolumnwidth}
\newcommand*{\recomputethemelengths}{}
\newcommand*{\recomputelengths}{%
\setlength{\quotewidth}{0.65\textwidth}%
\setlength{\maincolumnwidth}{\textwidth}%
\addtolength{\maincolumnwidth}{-\separatorcolumnwidth}%
\addtolength{\maincolumnwidth}{-\hintscolumnwidth}%
\setlength{\listitemmaincolumnwidth}{\maincolumnwidth}%
\addtolength{\listitemmaincolumnwidth}{-\listitemsymbolwidth}%
\setlength{\doubleitemmaincolumnwidth}{\maincolumnwidth}%
\addtolength{\doubleitemmaincolumnwidth}{-\hintscolumnwidth}%
\addtolength{\doubleitemmaincolumnwidth}{-\separatorcolumnwidth}%
\setlength{\doubleitemmaincolumnwidth}{0.5\doubleitemmaincolumnwidth}%
\setlength{\listdoubleitemmaincolumnwidth}{\maincolumnwidth}%
\addtolength{\listdoubleitemmaincolumnwidth}{-\listitemsymbolwidth}%
\setlength{\listdoubleitemmaincolumnwidth}{0.475\listdoubleitemmaincolumnwidth}%
\renewcommand{\headwidth}{\textwidth}%
\recomputethemelengths}
\setlength{\hintscolumnwidth}{0.15\textwidth}
\recomputelengths
\title{}
\renewcommand*{\maketitle}{}
\newcommand*{\section}[1]{%
\vspace*{2.5ex \@plus 1ex \@minus .2ex}%
  \phantomsection{}%
  \addcontentsline{toc}{part}{#1}%
 \parbox[m]{\hintscolumnwidth}{\bidi@raggedleft\hintfont{\leavevmode\color{sectionrectangleco
  \hspace{\separatorcolumnwidth}%
  \parbox[m]{\maincolumnwidth}{\sectionstyle{#1}}\\[1ex]}
\newcommand*{\subsection}[1]{%
```

```
  \cvline[0.45em]{}{\subsectionstyle{#1}}}
\newcommand*{\cvline}[3][.25em]{%
 \begin{tabular}{@{}p{\hintscolumnwidth}@{\hspace{\separatorcolumnwidth}}p{\maincolumnwidth}@
   \bidi@raggedleft\hintfont{#2} &{#3}%
 \end{tabular}\\[#1]}
\newcommand*{\cvdoubleitem}[4]{%
 \cvline{#1}{\begin{minipage}[t]{\doubleitemmaincolumnwidth}#2\end{minipage}%
 \hfill%
 \begin{minipage}[t]{\hintscolumnwidth}\bidi@raggedleft\hintfont{#3}\end{minipage}\hspace*{\se
\newcommand*{\cvlistitem}[2][\listitemsymbol{}]{%
 \cvline[0pt]{}{#1~\begin{minipage}[t]{\listitemmaincolumnwidth}#2\end{minipage}}}
\newcommand*{\cvlistdoubleitem}[3][\listitemsymbol{}]{%
 \cvline[0pt]{}{#1~\begin{minipage}[t]{\listdoubleitemmaincolumnwidth}#2\end{minipage}%
  \hfill%
  \ifthenelse{\equal{#3}{}}%
    {}%
   {#1~\begin{minipage}[t]{\listdoubleitemmaincolumnwidth}#3\end{minipage}}}}
\newcommand*{\cventry}[6]{%
  \cvline{#1}{%
    {\bfseries#2}%
    \ifx#3\else{, {\slshape#3}}\fi%
    \ifx#4\else{, #4}\fi%
    \ifx#5\else{, #5}\fi%
    .%
   \ifx#6\else{\newline{}\begin{minipage}[t]{\linewidth}\small#6\end{minipage}}\fi
    }}%
\newcommand*{\cvlanguage}[3]{%
 \cvline{#1}{\begin{minipage}[t]{.225\maincolumnwidth}\textbf{#2}\end{minipage}\hfill\begin{m
\newcommand*{\cvcomputer}[4]{%
  \cvdoubleitem{#1}{\small#2}{#3}{\small#4}}
\newcommand*{\link}[2][]{%
  \ifthenelse{\equal{#1}{}}%
    {\href{#2}{#2}}%
    {\href{#2}{#1}}}
\newcommand*{\httplink}[2][]{%
  \ifthenelse{\equal{#1}{}}%
    {\href{http://#2}{#2}}%
    {\href{http://#2}{#1}}}
\newcommand*{\emaillink}[2][]{%
  \ifthenelse{\equal{#1}{}}%
    {\href{mailto:#2}{#2}}%
    {\href{mailto:#2}{#1}}}
\newif\if@displaypagenumbers\@displaypagenumberstrue
\newcommand*{\nopagenumbers}{\@displaypagenumbersfalse}
\AtBeginDocument{%
  \if@displaypagenumbers%
    \@ifundefined{r@lastpage}{}{%
      \ifthenelse{\pageref{lastpage} > 1}{%
      \fancypagestyle{plain}{%
     \fancyfoot[r]{\beginL\addressfont\@quotecolour\footnotesize\thepage\beginL/\endL\pageref
```

```
      \pagestyle{plain}}{}}%
  \AtEndDocument{\label{lastpage}}%
  \fi}
\newlength{\bibindent}
\setlength{\bibindent}{1.5em}
\newcommand*{\bibliographyitemlabel}{\includegraphics{bibitem.pdf}}
\newenvironment{thebibliography}[1]%
  {%
    \section{\refname}%
    \small%
   \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
    \begin{list}{\bibliographyitemlabel}%
      {%
        \setlength{\topsep}{0pt}%
        \setlength{\labelwidth}{\hintscolumnwidth}%
        \setlength{\labelsep}{\separatorcolumnwidth}%
        \leftmargin\labelwidth%
        \advance\leftmargin\labelsep%
        \@openbib@code%
        \usecounter{enumiv}%
        \let\p@enumiv\@empty%
        \renewcommand\theenumiv{\@arabic\c@enumiv}}%
        \sloppy\clubpenalty4000\widowpenalty4000%
  }%
  {%
   \def\@noitemerr{\@latex@warning{Empty `thebibliography' environment}}%
    \end{list}%
  }
\newcommand\newblock{\hskip .11em\@plus.33em\@minus.07em}
\let\@openbib@code\@empty
```

7.22 biditools.sty

```
\NeedsTeXFormat{LaTeX2e}
\ProvidesPackage{biditools}[2015/11/14 v0.8 Programming tools for bidi package]
\providecommand{\@bidi@saveprimitive}[2]{\begingroup\escapechar`\\\relax
  \edef\@tempa{\string#1}\edef\@tempb{\meaning#1}%
  \ifx\@tempa\@tempb \global\let#2#1%
  \else
    \edef\@tempb{\meaning#2}%
    \ifx\@tempa\@tempb
    \else
      \@latex@error{Unable to properly define \string#2; primitive
      \noexpand#1no longer primitive}\@eha
    \fi
  \fi
  \endgroup}
\newtoks\@bidi@envbody
\newtoks\@bidi@emptytoks
\def\bidi@addto@envbody#1{\global\@bidi@envbody\expandafter{\the\@bidi@envbody#1}}
```

```
\def\bidi@collect@body#1{%
  \@bidi@envbody{\expandafter#1\expandafter{\the\@bidi@envbody}}%
 \edef\bidi@process@envbody{\the\@bidi@envbody\noexpand\end{\@currenvir}}%
  \@bidi@envbody\@bidi@emptytoks \def\begin@bidi@stack{b}%
  \begingroup
  \expandafter\let\csname\@currenvir\endcsname\bidi@collect@@body
 \edef\bidi@process@envbody{\expandafter\noexpand\csname\@currenvir\endcsname}%
  \bidi@process@envbody
}
\def\bidi@push@begins#1\begin#2{%
  \ifx\end#2\else b\expandafter\bidi@push@begins\fi
}
\def\bidi@collect@@body#1\end#2{%
 \edef\begin@bidi@stack{\bidi@push@begins#1\begin\end \expandafter\@gobble\begin@bidi@stack}%
  \ifx\@empty\begin@bidi@stack
    \endgroup
    \@checkend{#2}%
    \bidi@addto@envbody{#1}%
  \else
    \bidi@addto@envbody{#1\end{#2}}%
  \fi
  \bidi@process@envbody % A little tricky! Note the grouping
}
\long\def\bidi@addto@long@envbody#1{\global\@bidi@envbody\expandafter{\the\@bidi@envbody#1}}
\long\def\bidi@collect@long@body#1{%
  \@bidi@envbody{\expandafter#1\expandafter{\the\@bidi@envbody}}%
 \edef\bidi@process@envbody{\the\@bidi@envbody\noexpand\end{\@currenvir}}%
  \@bidi@envbody\@bidi@emptytoks \def\begin@bidi@stack{b}%
  \begingroup
  \expandafter\let\csname\@currenvir\endcsname\bidi@collect@long@@body
 \edef\bidi@process@envbody{\expandafter\noexpand\csname\@currenvir\endcsname}%
  \bidi@process@envbody
}
\long\def\bidi@push@long@begins#1\begin#2{%
  \ifx\end#2\else b\expandafter\bidi@push@long@begins\fi
}
\long\def\bidi@collect@long@@body#1\end#2{%
 \edef\begin@bidi@stack{\bidi@push@long@begins#1\begin\end \expandafter\@gobble\begin@bidi@st
  \ifx\@empty\begin@bidi@stack
    \endgroup
    \@checkend{#2}%
    \bidi@addto@long@envbody{#1}%
  \else
    \bidi@addto@long@envbody{#1\end{#2}}%
  \fi
  \bidi@process@envbody % A little tricky! Note the grouping
}
\long\def\bidi@new@ifnextchar#1#2#3{%
  \let\reserved@d= #1%
  \def\reserved@a{#2}\def\reserved@b{#3}%
```

```
  \futurelet\@let@token\bidi@new@ifnch
}
\def\bidi@new@ifnch{%
  \ifx\@let@token\reserved@d \let\reserved@b\reserved@a \fi
  \reserved@b
}
\def\bidi@matrix@check#1{%
  \expandafter\ifx\csname\@currenvir\endcsname#1%
  \else\bidi@matrix@error#1%
    \expandafter\@gobble
  \fi
}
\def\bidi@matrix@error#1{%
  \PackageError{biditools}{%
Old form `\string#1' should be \string\begin{\expandafter\@gobble\string#1}%
  }{%
`\string#1{...}' is old bidi package syntax whose use is
ill-advised in the old versions of bidi package.%
  }%
}
\def\@tagsextension{clo}
\def\@definitionfileextension{def}
\def\@texfileextension{tex}
\def\@iftagsloaded{\@ifl@aded\@tagsextension}
\def\@ifdefinitionfileloaded{\@ifl@aded\@definitionfileextension}
\def\@iftexfileloaded{\@ifl@aded\@texfileextension}
\def\eqnewif#1#2{%
  \count@\escapechar \escapechar\m@ne
    \let#1\iffalse
    \let#2\iffalse
    \eq@if#1#2\iftrue
    \eq@if#1#2\iffalse
  \escapechar\count@}
\def\eq@if#1#2#3{%
  \expandafter\def\csname\expandafter\@gobbletwo\string#1%
                     \expandafter\@gobbletwo\string#3\endcsname
                        {\let#1#3%
                        \let#2#3}%
  \expandafter\def\csname\expandafter\@gobbletwo\string#2%
                     \expandafter\@gobbletwo\string#3\endcsname
                        {\let#2#3%
                        \let#1#3}}
\def\@bidi@removefromreset#1#2{{%
  \expandafter\let\csname c@#1\endcsname\@bidi@removefromreset
  \def\@elt##1{%
    \expandafter\ifx\csname c@##1\endcsname\@bidi@removefromreset
    \else
      \noexpand\@elt{##1}%
    \fi}%
  \expandafter\xdef\csname cl@#2\endcsname{%
```

```
    \csname cl@#2\endcsname}}}
\newcommand*{\if@bidi@csdef}[1]{%
  \ifcsname#1\endcsname
    \expandafter\@firstoftwo
  \else
    \expandafter\@secondoftwo
  \fi}
\newcommand*{\if@bidi@csundef}[1]{%
  \ifcsname#1\endcsname
    \expandafter\ifx\csname#1\endcsname\relax
      \expandafter\expandafter
      \expandafter\@firstoftwo
    \else
      \expandafter\expandafter
      \expandafter\@secondoftwo
    \fi
  \else
    \expandafter\@firstoftwo
  \fi}
\newcommand{\if@bidi@def}[1]{%
  \ifdefined#1%
    \expandafter\@firstoftwo
  \else
    \expandafter\@secondoftwo
  \fi}
\newcommand{\if@bidi@undef}[1]{%
  \ifdefined#1%
    \ifx#1\relax
      \expandafter\expandafter
      \expandafter\@firstoftwo
    \else
      \expandafter\expandafter
      \expandafter\@secondoftwo
    \fi
  \else
    \expandafter\@firstoftwo
  \fi}
\newcommand{\if@bidi@blank}[1]{% from url.sty
  \bidi@ifblank@i#1&&\@secondoftwo\@firstoftwo:}
\long\def\bidi@ifblank@i#1#2&#3#4#5:{#4}
\newcommand{\bidi@notblank}[1]{%
  \bidi@ifblank@i#1&&\@firstoftwo\@secondoftwo:}
\newcommand{\if@bidi@defmacro}{}
\long\edef\if@bidi@defmacro#1{%
  \noexpand\expandafter\noexpand\bidi@ifdefmacro
  \noexpand\meaning#1\detokenize{macro}:&}
\edef\bidi@ifdefmacro{%
  \def\noexpand\bidi@ifdefmacro##1\detokenize{macro}:##2&}
\bidi@ifdefmacro{\bidi@notblank{#2}}
\newcommand*{\if@bidi@csmacro}[1]{%
```

```
  \if@bidi@csdef{#1}
    {\expandafter\if@bidi@defmacro\csname#1\endcsname}
    {\@secondoftwo}}
\newcommand{\if@bidi@defprimitive}[1]{%
  \ifprimitive#1%
    \expandafter\@firstoftwo
  \else
    \expandafter\@secondoftwo
  \fi}
\newcommand{\if@bidi@csprimitive}[1]{%
 \begingroup\expandafter\expandafter\expandafter\endgroup%
  \expandafter\ifprimitive\csname#1\endcsname%
    \expandafter\@firstoftwo
  \else
    \expandafter\@secondoftwo
  \fi}
\newcommand*{\bidi@csdefcs}[2]{%
\expandafter\@ifdefinable  \csname#1\endcsname{%
\expandafter\def\csname#1\expandafter\endcsname{\csname#2\endcsname}}}
\newcommand*{\bidi@csletcs}[2]{%
\expandafter\@ifdefinable  \csname#1\endcsname{%
\expandafter\let\csname#1\expandafter\endcsname\csname#2\endcsname}}
\newcommand*{\bidi@cslet}[2]{%
\expandafter\@ifdefinable  \csname#1\endcsname{%
\expandafter\let\csname#1\endcsname#2}}
\newcommand{\bidi@namelongdef}[1]{%
  \long\expandafter\def\csname #1\endcsname}
\def\bidi@ensure@newcommand{\@star@or@long\bidi@ensure@new@command}
\def\bidi@ensure@new@command#1{%
  \begingroup \escapechar\m@ne\xdef\@gtempa{{\string#1}}\endgroup
  \expandafter\if@bidi@csundef\@gtempa
     {\new@command#1}{\relax%
  \let\@ifdefinable\@rc@ifdefinable%
  \new@command#1}}
\def\bidi@ensure@newlength#1{\if@bidi@undef#1{\newskip#1}{}}

\protected\def\bidi@error{\PackageError{bidi}}
\protected\def\bidi@warning{\PackageWarning{bidi}}
\protected\def\bidi@info{\PackageInfo{bidi}}

\newcommand*{\bidi@newrobustcmd}{}
\protected\def\bidi@newrobustcmd{\@star@or@long\bidi@new@command}

\def\bidi@new@command#1{\@testopt{\bidi@newcommand#1}0}

\def\bidi@newcommand#1[#2]{%
  \@ifnextchar[%]
    {\bidi@xargdef#1[#2]}
    {\ifx\l@ngrel@x\relax
       \let\l@ngrel@x\protected
```

```
      \else
        \protected\def\l@ngrel@x{\protected\long}%
      \fi
      \@argdef#1[#2]}}

\long\def\bidi@xargdef#1[#2][#3]#4{%
  \@ifdefinable#1{%
    \expandafter\protected
    \expandafter\def
    \expandafter#1%
    \expandafter{%
      \expandafter\@testopt
      \csname\string#1\endcsname{#3}}%
    \expandafter\@yargdef\csname\string#1\endcsname\tw@{#2}{#4}}}

\bidi@newrobustcmd*{\bidi@renewrobustcmd}{\@star@or@long\bidi@renew@command}

\def\bidi@renew@command#1{%
  \if@bidi@undef{#1}
     {\bidi@error{\string#1 undefined}\@ehc}
     {}%
  \let\@ifdefinable\@rc@ifdefinable
  \bidi@new@command#1}



\bidi@newrobustcmd*{\bidi@providerobustcmd}{\@star@or@long\bidi@provide@command}

\def\bidi@provide@command#1{%
  \if@bidi@undef{#1}
    {\def\reserved@a{\bidi@new@command#1}}
    {\def\reserved@a{\bidi@renew@command\reserved@a}}%
  \reserved@a}

\newcommand*{\bidi@csuse}[1]{%
  \ifcsname#1\endcsname
    \csname#1\expandafter\endcsname
  \fi}

\newcommand{\bidi@expandonce}[1]{%
  \unexpanded\expandafter{#1}}

\def\bidi@protected{%
  \let\@@protect\protect
  \let\protect\@unexpandable@protect
  \afterassignment\restore@protect}

\bidi@newrobustcmd{\bidi@appto}[2]{%
  \if@bidi@undef{#1}
    {\edef#1{\unexpanded{#2}}}
```

```
    {\edef#1{\bidi@expandonce#1\unexpanded{#2}}}}
\bidi@newrobustcmd{\bidi@eappto}[2]{%
  \if@bidi@undef{#1}
    {\edef#1{#2}}
    {\edef#1{\bidi@expandonce#1#2}}}
\bidi@newrobustcmd{\bidi@gappto}[2]{%
  \if@bidi@undef{#1}
    {\xdef#1{\unexpanded{#2}}}
    {\xdef#1{\bidi@expandonce#1\unexpanded{#2}}}}
\bidi@newrobustcmd{\bidi@xappto}[2]{%
  \if@bidi@undef{#1}
    {\xdef#1{#2}}
    {\xdef#1{\bidi@expandonce#1#2}}}

\bidi@newrobustcmd*{\bidi@protected@eappto}{\bidi@protected\bidi@eappto}
\bidi@newrobustcmd*{\bidi@protected@xappto}{\bidi@protected\bidi@xappto}



\bidi@newrobustcmd{\bidi@preto}[2]{%
  \if@bidi@undef{#1}
    {\edef#1{\unexpanded{#2}}}
    {\edef#1{\unexpanded{#2}\bidi@expandonce#1}}}
\bidi@newrobustcmd{\bidi@epreto}[2]{%
  \if@bidi@undef{#1}
    {\edef#1{#2}}
    {\edef#1{#2\bidi@expandonce#1}}}
\bidi@newrobustcmd{\bidi@gpreto}[2]{%
  \if@bidi@undef{#1}
    {\xdef#1{\unexpanded{#2}}}
    {\xdef#1{\unexpanded{#2}\bidi@expandonce#1}}}
\bidi@newrobustcmd{\bidi@xpreto}[2]{%
  \if@bidi@undef{#1}
    {\xdef#1{#2}}
    {\xdef#1{#2\bidi@expandonce#1}}}

\bidi@newrobustcmd*{\bidi@protected@epreto}{\bidi@protected\bidi@epreto}
\bidi@newrobustcmd*{\bidi@protected@xpreto}{\bidi@protected\bidi@xpreto}



\bidi@newrobustcmd*{\bidi@csappto}[1]{\expandafter\bidi@appto\csname#1\endcsname}
\bidi@newrobustcmd*{\bidi@cseappto}[1]{\expandafter\bidi@eappto\csname#1\endcsname}
\bidi@newrobustcmd*{\bidi@csgappto}[1]{\expandafter\bidi@gappto\csname#1\endcsname}
\bidi@newrobustcmd*{\bidi@csxappto}[1]{\expandafter\bidi@xappto\csname#1\endcsname}
\bidi@newrobustcmd*{\bidi@protected@cseappto}{\bidi@protected\bidi@cseappto}
\bidi@newrobustcmd*{\bidi@protected@csxappto}{\bidi@protected\bidi@csxappto}



```

```
\bidi@newrobustcmd*{\bidi@cspreto}[1]{\expandafter\bidi@preto\csname#1\endcsname}
\bidi@newrobustcmd*{\bidi@csepreto}[1]{\expandafter\bidi@epreto\csname#1\endcsname}
\bidi@newrobustcmd*{\bidi@csgpreto}[1]{\expandafter\bidi@gpreto\csname#1\endcsname}
\bidi@newrobustcmd*{\bidi@csxpreto}[1]{\expandafter\bidi@xpreto\csname#1\endcsname}
\bidi@newrobustcmd*{\bidi@protected@csepreto}{\bidi@protected\bidi@csepreto}
\bidi@newrobustcmd*{\bidi@protected@csxpreto}{\bidi@protected\bidi@csxpreto}



\bidi@newrobustcmd{\if@bidi@patchable}{%
  \bidi@dbg@trce\if@bidi@patchable
  \begingroup
  \@makeother\#%
  \@ifstar\bidi@ifpatchable@i\bidi@ifpatchable}

\long\def\bidi@ifpatchable#1#2{%
  \endgroup
  \bidi@dbg@init#1%
  \if@bidi@undef{#1}
    {\bidi@dbg@fail{def}\@secondoftwo}
    {\bidi@dbg@info{def}%
     \if@bidi@defmacro{#1}
       {\bidi@dbg@info{mac}%
        \bidi@ifscanable{#1}
          {\bidi@ifhashcheck{#2}
             {\bidi@dbg@info{tok}%
              \bidi@ifpattern#1{#2}
                 {\bidi@dbg@info{pat}%
                  \bidi@dbg@info{pos}\@firstoftwo}
                 {\bidi@dbg@fail{pat}\@secondoftwo}}
             {\bidi@dbg@fail{hsh}\@secondoftwo}}
          {\bidi@dbg@fail{tok}\@secondoftwo}}
       {\bidi@dbg@fail{mac}\@secondoftwo}}}

\long\def\bidi@ifpatchable@i#1{%
  \endgroup
  \bidi@dbg@init#1%
  \if@bidi@undef{#1}
    {\bidi@dbg@fail{def}\@secondoftwo}
    {\bidi@dbg@info{def}%
     \if@bidi@defmacro{#1}
       {\bidi@dbg@info{mac}%
        \if@bidi@defparam{#1}
          {\bidi@dbg@info{prm}%
           \bidi@ifscanable{#1}
             {\bidi@dbg@info{tok}%
              \bidi@dbg@info{pos}\@firstoftwo}
             {\bidi@dbg@fail{tok}\@secondoftwo}}
          {\bidi@dbg@info{prl}%
           \if@bidi@defprotected{#1}
```

```
              {\bidi@dbg@info{pro}}
              {}%
            \bidi@dbg@info{pos}\@firstoftwo}}
        {\bidi@dbg@fail{mac}\@secondoftwo}}}

\bidi@newrobustcmd*{\bidi@patchcmd}{%
  \bidi@dbg@trce\bidi@patchcmd
  \begingroup
  \@makeother\#%
  \bidi@@patchcmd}

\newcommand{\bidi@@patchcmd}[4][########1]{%
  \bidi@ifpatchable#2{#3}
    {\bidi@dbg@succ{ret}%
     \begingroup
     \edef\bidi@resrvda{%
      \def\noexpand\bidi@resrvda####1\detokenize{macro:}####2->####3&{%
      #1\def\string\bidi@resrvda\space####2{\noexpand\bidi@resrvdb####3&}}%
       \def\noexpand\bidi@resrvdb####1\detokenize{#3}####2&{%
         ####1\detokenize{#4}####2}%
       \edef\noexpand\bidi@resrvda{%
         \noexpand\bidi@resrvda\meaning#2&}}%
     \bidi@resrvda
     \bidi@patchcmd@scantoks\bidi@resrvda
     \let#2\bidi@resrvda
     \bidi@undef\bidi@resrvda
     \@firstoftwo}
    {\@secondoftwo}}

\def\bidi@patchcmd@scantoks#1{%
  \edef\bidi@resrvda{\endgroup
    \unexpanded{\makeatletter\scantokens}{#1}%
    \catcode\number`\@=\the\catcode`\@\relax}%
  \bidi@resrvda}

\newcommand\bidi@isloaded[2][]{
  \expandafter\ifx\csname if@bidi@#2loaded@\endcsname\relax
    \expandafter\newif\csname if@bidi@#2loaded@\endcsname
  \fi
  \@ifpackageloaded{#2}
    {\csname @bidi@#2loaded@true\endcsname #1}
    {\csname @bidi@#2loaded@false\endcsname}}

\protected\def\bidi@ifscanable#1{%
  \begingroup
  \edef\bidi@resrvda{%
    \def\noexpand\bidi@resrvda####1\detokenize{macro}:####2->####3&{%
      ####1\def\string\bidi@resrvda####2{####3}}%
    \edef\noexpand\bidi@resrvda{\noexpand\bidi@resrvda\meaning#1&}}%
  \bidi@resrvda
```

```
  \makeatletter
  \scantokens\expandafter{\bidi@resrvda}%
  \expandafter\endgroup\ifx#1\bidi@resrvda
    \expandafter\@firstoftwo
  \else
    \expandafter\@secondoftwo
  \fi}


\protected\long\def\bidi@ifhashcheck#1{%
  \begingroup
  \edef\bidi@resrvda{\detokenize{#1}}%
  \expandafter\endgroup
  \expandafter\bidi@ifhashcheck@i\meaning\bidi@resrvda&}

\edef\bidi@ifhashcheck@i#1&{%
  \noexpand\expandafter
  \noexpand\bidi@ifhashcheck@ii
  \noexpand\strip@prefix#1\string#\string#&}

\edef\bidi@ifhashcheck@ii{%
  \def\noexpand\bidi@ifhashcheck@ii##1\string#\string###2&}
\bidi@ifhashcheck@ii{\if@bidi@blank{#2}}


\protected\long\def\bidi@ifpattern#1#2{%
  \begingroup
  \edef\bidi@resrvda{%
    \def\noexpand\bidi@resrvda####1\detokenize{#2}####2&{%
      \endgroup\noexpand\noexpand\noexpand\if@bidi@blank{####2}}%
    \edef\noexpand\bidi@resrvda{\noexpand\bidi@resrvda
      \expandafter\strip@prefix\meaning#1\detokenize{#2}&}%
    \noexpand\bidi@resrvda}
  \bidi@resrvda\@secondoftwo\@firstoftwo}


\newcommand{\if@bidi@defparam}{}
\long\edef\if@bidi@defparam#1{%
  \noexpand\expandafter\noexpand\bidi@ifdefparam
  \noexpand\meaning#1\detokenize{macro}:->&}
\edef\bidi@ifdefparam{%
  \def\noexpand\bidi@ifdefparam##1\detokenize{macro}:##2->##3&}
\bidi@ifdefparam{\bidi@notblank{#2}}


\newcommand{\if@bidi@defprotected}{}
\long\edef\if@bidi@defprotected#1{%
  \noexpand\expandafter\noexpand\bidi@ifdefprotected
  \noexpand\meaning#1\string\protected&}
\edef\bidi@ifdefprotected{%
```

```
  \def\noexpand\bidi@ifdefprotected##1\string\protected##2&}
\bidi@ifdefprotected{\bidi@notblank{#2}}


\bidi@newrobustcmd{\bidi@undef}[1]{\let#1\bidi@undefined}

\let\bidi@dbg@trce\@gobble
\let\bidi@dbg@init\@gobble
\let\bidi@dbg@info\@gobble
\let\bidi@dbg@succ\@gobble
\let\bidi@dbg@fail\@gobble


\bidi@newrobustcmd*{\bidi@apptocmd}{%
  \bidi@dbg@trce\bidi@apptocmd
  \begingroup
  \@makeother\#%
  \bidi@hooktocmd\bidi@append}



\bidi@newrobustcmd*{\bidi@pretocmd}{%
  \bidi@dbg@trce\bidi@pretocmd
  \begingroup
  \@makeother\#%
  \bidi@hooktocmd\bidi@prepend}

\long\def\bidi@hooktocmd#1#2#3{%
  \endgroup
  \bidi@dbg@init#2%
  \if@bidi@undef{#2}
    {\bidi@dbg@fail{def}\@secondoftwo}
    {\bidi@dbg@info{def}%
     \if@bidi@defmacro{#2}
       {\bidi@dbg@info{mac}%
        \if@bidi@defparam{#2}
          {\bidi@dbg@info{prm}%
           \bidi@ifscanable{#2}
             {\bidi@ifhashcheck{#3}
                {\bidi@dbg@info{tok}%
                 \bidi@dbg@succ{ret}%
                 \bidi@hooktocmd@i#1#2{#3}%
                 \@firstoftwo}
                {\bidi@dbg@fail{hsh}\@secondoftwo}}
             {\bidi@dbg@fail{tok}\@secondoftwo}}
          {\bidi@dbg@info{prl}%
           \if@bidi@defprotected{#2}
             {\bidi@dbg@info{pro}%
              \bidi@dbg@succ{red}%
```

```
              \protected}
             {\bidi@dbg@succ{red}}%
           \edef#2{#1{\bidi@expandonce#2}{\unexpanded{#3}}}%
           \@firstoftwo}}
       {\bidi@dbg@fail{mac}\@secondoftwo}}}

\long\def\bidi@hooktocmd@i#1#2#3{%
  \begingroup
  \edef\bidi@resrvda{%
    \def\noexpand\bidi@resrvda####1\detokenize{macro}:####2->####3&{%
    ####1\def\string\bidi@resrvda\space####2{#1{####3}{\detokenize{#3}}}}%
    \edef\noexpand\bidi@resrvda{%
      \noexpand\bidi@resrvda\meaning#2&}}%
  \bidi@resrvda
  \bidi@patchcmd@scantoks\bidi@resrvda
  \let#2\bidi@resrvda
  \bidi@undef\bidi@resrvda}

\long\def\bidi@append#1#2{#1#2}
\long\def\bidi@prepend#1#2{#2#1}

\bidi@newrobustcmd*{\bidi@AtEndPreamble}{\bidi@gappto\bidi@endpreamblehook}
\newcommand*{\bidi@endpreamblehook}{}

\bidi@preto\document{%
  \endgroup
  \let\bidi@AtEndPreamble\@firstofone
  \bidi@endpreamblehook
  \protected\def\bidi@AtEndPreamble{\@notprerr\@gobble}%
  \bidi@undef\bidi@endpreamblehook
  \begingroup}

\bidi@newrobustcmd*{\bidi@AfterPreamble}{\AtBeginDocument}
\bidi@AtEndPreamble{\let\bidi@AfterPreamble\@firstofone}

\bidi@newrobustcmd*{\bidi@AfterEndPreamble}{\bidi@gappto\bidi@afterendpreamblehook}
\newcommand*{\bidi@afterendpreamblehook}{}

\bidi@appto\document{%
  \let\bidi@AfterEndPreamble\@firstofone
  \bidi@afterendpreamblehook
  \protected\def\bidi@AfterEndPreamble{\@notprerr\@gobble}%
  \bidi@undef\bidi@afterendpreamblehook
  \ignorespaces}

\AtEndDocument{\let\bidi@AfterEndPreamble\@gobble}

\bidi@newrobustcmd*{\bidi@AfterEndDocument}{\bidi@gappto\bidi@afterenddocumenthook}
\newcommand*{\bidi@afterenddocumenthook}{}
```

```
\bidi@patchcmd\enddocument
  {\deadcycles}
  {\let\bidi@AfterEndDocument\@firstofone
   \bidi@afterenddocumenthook
   \deadcycles}
  {}
  {\let\bidi@@end\@@end
   \def\@@end{%
     \let\bidi@AfterEndDocument\@firstofone
     \bidi@afterenddocumenthook
     \bidi@@end}}

\bidi@newrobustcmd{\bidi@AtBeginEnvironment}[1]{%
  \bidi@csgappto{@bidi@begin@#1@hook}}

\bidi@patchcmd\begin
  {\csname #1\endcsname}
  {\bidi@csuse{@bidi@begin@#1@hook}%
   \csname #1\endcsname}
  {}
  {\bidi@warning{%
     Patching '\string\begin' failed!\MessageBreak
     '\string\bidi@AtBeginEnvironment' will not work\@gobble}}



\bidi@newrobustcmd{\bidi@AtEndEnvironment}[1]{%
  \bidi@csgappto{@bidi@end@#1@hook}}

\bidi@patchcmd\end
  {\csname end#1\endcsname}
  {\bidi@csuse{@bidi@end@#1@hook}%
   \csname end#1\endcsname}
  {}
  {\bidi@warning{%
     Patching '\string\end' failed!\MessageBreak
     '\string\bidi@AtEndEnvironment' will not work\@gobble}}



\bidi@newrobustcmd{\bidi@BeforeBeginEnvironment}[1]{%
  \bidi@csgappto{@bidi@beforebegin@#1@hook}}

\bidi@pretocmd\begin
  {\bidi@csuse{@bidi@beforebegin@#1@hook}}
  {}
  {\bidi@warning{%
     Patching '\string\begin' failed!\MessageBreak
     '\string\bidi@BeforeBeginEnvironment' will not work\@gobble}}

```

```
3196
3197
3198 \bidi@newrobustcmd{\bidi@AfterEndEnvironment}[1]{%
3199   \bidi@csgappto{@bidi@afterend@#1@hook}}
3200
3201 \bidi@patchcmd\end
3202   {\if@ignore}
3203   {\bidi@csuse{@bidi@afterend@#1@hook}%
3204    \if@ignore}
3205   {}
3206   {\bidi@warning{%
3207      Patching '\string\end' failed!\MessageBreak
3208      '\string\bidi@AfterEndEnvironment' will not work\@gobble}}
3209
3210 \CheckCommand{\InputIfFileExists}[2]{%
3211   \IfFileExists{#1}%
3212     {#2\@addtofilelist{#1}\@@input \@filef@und}}
3213
3214 \renewcommand{\InputIfFileExists}[2]{%
3215   \begingroup\expandafter\expandafter\expandafter\endgroup
3216   \expandafter\ifx\csname #1-@bidi@alias\endcsname\relax
3217     \expandafter\@secondoftwo
3218   \else
3219     \bidi@replacefile@msg{\csname #1-@bidi@alias\endcsname}{#1}%
3220     \expandafter\@firstoftwo
3221   \fi
3222   {%
3223     \expandafter\InputIfFileExists\expandafter{\csname
3224       #1-@bidi@alias\endcsname}{#2}%
3225   }%
3226   {\IfFileExists{#1}{%
3227      \bidi@load@hook{before}{#1}%
3228      #2\@addtofilelist{#1}%
3229      \@@input \@filef@und
3230      \bidi@load@hook{after}{#1}%
3231    }}%
3232 }
3233
3234 \newcommand*{\bidi@@loadwithoptions}{}
3235 \newcommand*{\bidi@loadwithoptions}{}
3236 \let\bidi@loadwithoptions\@loadwithoptions
3237
3238 \renewcommand*{\@loadwithoptions}[3]{%
3239   \begingroup\expandafter\expandafter\expandafter\endgroup
3240   \expandafter\ifx\csname #3.#1-@bidi@aliasname\endcsname\relax
3241     \def\bidi@@loadwithoptions{\bidi@loadwithoptions{#1}{#2}{#3}}%
3242   \else
3243    \bidi@replacefile@msg{\csname #3.#1-@bidi@aliasname\endcsname.#1}{#3.#1}%
3244     \def\bidi@@loadwithoptions{%
3245      \@loadwithoptions{#1}{#2}{\csname #3.#1-@bidi@aliasname\endcsname}%
```

```
    }%
  \fi
  \bidi@@loadwithoptions
}

\newcommand*{\bidi@onefilewithoptions}{}
\let\bidi@onefilewithoptions\@onefilewithoptions
\def\@onefilewithoptions#1[#2][#3]#4{%
  \begingroup\expandafter\expandafter\expandafter\endgroup
  \expandafter\ifx\csname #1.#4-@bidi@aliasname\endcsname\relax
    \def\bidi@@onefilewithoptions{\bidi@onefilewithoptions{#1}}%
  \else
   \bidi@replacefile@msg{\csname #1.#4-@bidi@aliasname\endcsname.#4}{#1.#4}%
    \edef\bidi@@onefilewithoptions{%
    \noexpand\@onefilewithoptions{\csname #1.#4-@bidi@aliasname\endcsname}}%
  \fi
  \bidi@@onefilewithoptions[{#2}][{#3}]{#4}%
  \bidi@load@hook{lateafter}{#1.#4}%
}

\newcommand*{\bidi@ReplaceInput}[2]{%
  \expandafter\edef\csname #1-@bidi@alias\endcsname{#2}%
}

\newcommand*{\bidi@UnReplaceInput}[1]{%
  \ifcsname #1-@bidi@alias\endcsname
    \expandafter\let\csname #1-@bidi@alias\endcsname\relax
  \fi
}

\newcommand*{\@bidi@replacefilewithext}[3]{%
  \expandafter\edef\csname #1.#3-@bidi@aliasname\endcsname{#2}%
 }
\newcommand*{\bidi@ReplacePackage}[2]{%
  \@bidi@replacefilewithext{#1}{#2}\@pkgextension
}
\newcommand*{\bidi@ReplaceClass}[2]{%
  \@bidi@replacefilewithext{#1}{#2}\@clsextension
}
\newcommand*{\@bidi@unreplacefilewithext}[2]{%
  \ifcsname #1.#2-@bidi@aliasname\endcsname
    \expandafter\let\csname #1.#2-@bidi@aliasname\endcsname\relax
  \fi
}
\newcommand*{\bidi@UnReplacePackage}[1]{%
  \@bidi@unreplacefilewithext{#1}\@pkgextension
}
\newcommand*{\bidi@UnReplaceClass}[1]{%
  \@bidi@unreplacefilewithext{#1}\@clsextension
}
```

```
\newcommand*{\bidi@replacefile@msg}[2]{%
  \PackageInfo{biditools}{inputing `#1' instead of `#2'}%
}

\newcommand*{\bidi@load@hook}[2]{%
  \@ifundefined{#2-@#1}{}{%
    \@nameuse{#2-@#1}%
    \expandafter\let\csname #2-@#1\endcsname=\relax}}
\newcommand*{\bidi@set@load@hook}[2]{%
  \@ifundefined{#2-@#1}{\@namedef{#2-@#1}{}}{}%
  \expandafter\g@addto@macro\csname #2-@#1\endcsname}
\newcommand*{\bidi@BeforeFile}{\bidi@set@load@hook{before}}
\newcommand*{\bidi@AfterFile}{\bidi@set@load@hook{after}}
\newcommand*{\bidi@BeforeClass}[1]{%
  \bidi@set@load@hook{before}{#1.\@clsextension}}
\newcommand*{\bidi@AfterClass}{%
  \@ifstar {\@s@bidi@AfterClass}{%
    \@ifnextchar +\@@bidi@AfterClass{%
      \@ifnextchar !\@@@bidi@AfterClass\@bidi@AfterClass
    }%
  }%
}

\newcommand*{\@@@bidi@AfterClass}[2]{%
  \begingroup\ifx\csname #2.\@clsextension-h@@k\endcsname\relax
    \aftergroup\@s@bidi@AfterClass
  \else
    \aftergroup\bidi@AfterAtEndOfClass
  \fi
  \endgroup{#2}%
}

\newcommand*{\bidi@AfterAtEndOfClass}[1]{%
  \bidi@set@load@hook{lateafter}{#1.\@clsextension}}
\newcommand*{\@@bidi@AfterClass}[2]{%
  \begingroup
    \expandafter\ifx\csname #2.\@clsextension-h@@k\endcsname\relax
      \aftergroup\@s@bidi@AfterClass
    \else
      \aftergroup\@bidi@AfterClass
    \fi
  \endgroup{#2}%
}

\newcommand*{\@bidi@AfterClass}[1]{%
  \bidi@set@load@hook{after}{#1.\@clsextension}}
\newcommand*{\@s@bidi@AfterClass}[1]{%
  \begingroup
    \@ifclassloaded{#1}{%
      \aftergroup\@secondoftwo
```

```
    }{%
      \aftergroup\@bidi@AfterClass
    }%
  \endgroup
  {#1}%
}


\newcommand*{\bidi@BeforePackage}[1]{%
  \bidi@set@load@hook{before}{#1.\@pkgextension}}
\newcommand*{\bidi@AfterPackage}{%
  \@ifstar {\@s@bidi@AfterPackage}{%
    \@ifnextchar +\@@bidi@AfterPackage{%
      \@ifnextchar !\@@@bidi@AfterPackage\@bidi@AfterPackage
    }%
  }%
}
\newcommand*{\@@@bidi@AfterPackage}[2]{%
  \begingroup\ifx\csname #2.\@pkgextension-h@@k\endcsname\relax
    \aftergroup\@s@bidi@AfterPackage
  \else
    \aftergroup\bidi@AfterAtEndOfPackage
  \fi
  \endgroup{#2}%
}
\newcommand*{\bidi@AfterAtEndOfPackage}[1]{%
  \bidi@set@load@hook{lateafter}{#1.\@pkgextension}}
\newcommand*{\@@bidi@AfterPackage}[2]{%
  \begingroup
    \expandafter\ifx\csname #2.\@pkgextension-h@@k\endcsname\relax
      \aftergroup\@s@bidi@AfterPackage
    \else
      \aftergroup\@bidi@AfterPackage
    \fi
  \endgroup{#2}%
}
\newcommand*{\@bidi@AfterPackage}[1]{%
  \bidi@set@load@hook{after}{#1.\@pkgextension}}
\newcommand*{\@s@bidi@AfterPackage}[1]{%
  \begingroup
    \@ifpackageloaded{#1}{%
      \aftergroup\@secondoftwo
    }{%
      \aftergroup\@bidi@AfterPackage
    }%
  \endgroup
  {#1}%
}

\newcommand*{\bidi@excludedpackages}{}
```

```
\let\bidi@excludedpackages\@empty
\newcommand*{\bidi@saved@RequirePackage}{}
\newcommand*{\bidi@PreventPackageFromLoading}{%
  \@ifstar{\@bidi@PreventPackageFromLoading\PackageInfo}%
          {\@bidi@PreventPackageFromLoading\PackageWarning}%
}
\newcommand*{\@bidi@PreventPackageFromLoading}[1]{%
  \@ifnextchar [%]
   {\@@bidi@PreventPackageFromLoading#1}{\@@bidi@PreventPackageFromLoading#1[]}%
}
\newcommand*{\@@bidi@PreventPackageFromLoading}{}

\def\@@bidi@PreventPackageFromLoading#1[#2]#3{%
  \edef\reserved@b{\zap@space#3 \@empty}%
  \ifx \reserved@b\@empty
    #1{biditools}{%
    \string\bidi@PreventPackageFromLoading\space with empty packages\MessageBreak
      argument ignored%
    }%
  \else
    \ifx\bidi@excludedpackages\@empty
      \let\bidi@saved@RequirePackage\RequirePackage
      \let\RequirePackage\bidi@RequirePackage
      \def\reserved@a##1##{%
        \@latex@error
        {\noexpand \usepackage before \string\documentclass}%
        {\noexpand \usepackage may only appear in the document
          preamble, i.e.,\MessageBreak
          between \noexpand\documentclass and
          \string\begin{document}.}%
        \@gobble}%
      \ifx\reserved@a\usepackage\else
        \ifx\usepackage\bidi@saved@RequirePackage\else
          \PackageWarning{biditools}{%
           Maybe serious problem: unexpected definition of\MessageBreak
            \string\usepackage
          }%
        \fi
        \let\usepackage\RequirePackage
      \fi
    \fi
   \expandafter\@for \expandafter\reserved@a\expandafter:\expandafter=%
    \reserved@b\do {%
      \ifx\reserved@a\@empty
        #1{biditools}{%
          empty package argument for
          \string\bidi@PreventPackageFromLoading\MessageBreak
          ignored%
        }%
      \else
```

```
        \expandafter\@ifpackageloaded\expandafter{\reserved@a}{%
          #1{biditools}{%
            package `\reserved@a' already loaded.\MessageBreak
            Cannot prevent it from beeing loaded%
          }%
        }{%
          \edef\bidi@excludedpackages{\bidi@excludedpackages,%
            \reserved@a}%
          \if\relax\detokenize{#2}\relax\else
            \@ifundefined{bidi@exclude@package@\reserved@a @do}{%
              \@namedef{bidi@exclude@package@\reserved@a @do}{}%
            }{}%
            \expandafter\def
            \csname bidi@exclude@package@\reserved@a
                    @do\expandafter\expandafter\expandafter\endcsname
            \expandafter\expandafter\expandafter{%
              \csname bidi@exclude@package@\reserved@a @do\endcsname
              #2%
            }%
          \fi
        }%
      \fi
    }%
    \ifx\bidi@excludedpackages\@empty
      \bidi@ResetPreventPackageFromLoading
    \fi
  \fi
}

\@onlypreamble\bidi@PreventPackageFromLoading
\newcommand*{\bidi@ResetPreventPackageFromLoading}{%
  \let\bidi@excludedpackages\@empty
  \ifx\RequirePackage\bidi@RequirePackage
    \ifx\usepackage\RequirePackage
      \let\usepackage\bidi@saved@RequirePackage
    \fi
    \let\RequirePackage\bidi@saved@RequirePackage
  \fi
}
\@onlypreamble\bidi@ResetPreventPackageFromLoading
\newcommand*{\bidi@StorePreventPackageFromLoading}[1]{%
  \let#1\bidi@excludedpackages
}
\@onlypreamble\bidi@StorePreventPackageFromLoading
\newcommand*{\bidi@UnPreventPackageFromLoading}{%
  \@ifstar {\@tempswatrue\@bidi@UnPreventPackageFromLoading}%
           {\@tempswafalse\@bidi@UnPreventPackageFromLoading}%
}

\newcommand*{\@bidi@UnPreventPackageFromLoading}[1]{%
```

```
  \edef\reserved@b{\zap@space#1 \@empty}%
  \if@tempswa
    \@for\reserved@a:=\reserved@b\do {%
      \ifx\reserved@a\@empty \else
        \ifcsname bidi@exclude@package@\reserved@a @do\endcsname
          \expandafter\let
          \csname bidi@exclude@package@\reserved@a @do\endcsname
          \undefined
        \fi
      \fi
    }%
  \fi
  \ifcsname bidi@excludedpackages\endcsname
    \let\reserved@a\bidi@excludedpackages
    \let\bidi@excludedpackages\@empty
    \expandafter\@for\expandafter\reserved@c
    \expandafter:\expandafter=\reserved@a
    \do{%
      \ifx\reserved@c\@empty\else
        \@expandtwoargs\in@{,\reserved@c,}{,\reserved@b,}%
        \ifin@
        \else
          \edef\bidi@excludedpackages{%
            \bidi@excludedpackages,\reserved@c
          }%
        \fi
      \fi
    }%
   \ifx\bidi@excludedpackages\@empty\bidi@ResetPreventPackageFromLoading\fi
  \fi
}


\newcommand*{\bidi@RequirePackage}[2][]{%
  \let\reserved@c\@empty
  \let\reserved@d\@empty
  \edef\reserved@b{\zap@space#2 \@empty}%
 \expandafter\@for\expandafter\reserved@b\expandafter:\expandafter=\reserved@b
  \do {%
    \begingroup
      \@tempswatrue
      \@for\reserved@a:=\bidi@excludedpackages\do {%
        \ifx\reserved@a\reserved@b
          \@tempswafalse
        \fi
      }%
      \if@tempswa
        \xdef\reserved@c{\reserved@c,\reserved@b}%
      \else
        \ifx\reserved@b\@empty\else
```

```
      \PackageInfo{biditools}{Excluding package `\reserved@b'\MessageBreak
           from loading}%
         \@ifundefined{bidi@exclude@package@\reserved@b @do}{%
         }{%
           \expandafter\g@addto@macro\expandafter\reserved@d
           \csname bidi@exclude@package@\reserved@b @do\endcsname
         }%
       \fi
     \fi
   \endgroup
 }%
 \ifx\reserved@c\@empty
   \let\reserved@a\bidi@gobbleopt
 \else
   \edef\reserved@a{\noexpand\bidi@saved@RequirePackage[#1]{%
       \expandafter\@gobble\reserved@c\@empty}}%
 \fi
 \expandafter\reserved@d
 \reserved@a
}

\newcommand{\bidi@gobbleopt}[1][]{}
\AtEndDocument{%
  \let\bidi@saved@checkend=\@checkend
  \renewcommand*{\@checkend}[1]{%
    \def\reserved@a{#1}\def\reserved@b{document}%
    \bidi@saved@checkend{#1}%
    \ifx\reserved@a\reserved@b
      \let\bidi@saved@clearpage=\clearpage
      \renewcommand*{\clearpage}{\bidi@saved@clearpage
        \bidi@hook@bcma
        \bidi@restore@newpage
        \let\clearpage=\bidi@saved@clearpage}%
    \fi%
    \let\bidi@saved@dofilelist\@dofilelist
    \def\@dofilelist{%
      \bidi@hook@acma
      \let\@dofilelist\bidi@saved@dofilelist
      \bidi@saved@dofilelist
    }%
  }%
}


\newcommand*{\bidi@saved@checkend}{}
\newcommand*{\bidi@saved@dofilelist}{}
\newcommand*{\bidi@redefine@newpage}{%
  \let\bidi@saved@newpage\newpage
  \def\bidi@restore@newpage{%
    \renewcommand*{\newpage}{%
```

```
      \PackageWarningNoLine{%
        biditools%
      }{%
        \string\newpage\space at main aux file!\MessageBreak
        You have output material at the main aux file.\MessageBreak
     Note, that the \string\bidi@BeforeClosingMainAux\space commands\MessageBreak
        are processed before the output from aux file%
      }%
      \let\newpage\bidi@saved@newpage
      \newpage
    }%
  }%
  \renewcommand*{\newpage}{%
    \PackageError{%
      biditools%
    }{%
      \string\newpage\space at \string\bidi@BeforeClosingMainAux
    }{%
      You should never use \string\newpage\space or
    \string\clear(double)page or other output material at the\MessageBreak
      argument of \string\bidi@BeforeClosingMainAux!\MessageBreak
      If you'll continue, the \string\newpage\space will be ignored to
      avoid corruption of\MessageBreak
      every prior use of \string\bidi@BeforeClosingMainAux.
    }%
  }%
}

\newcommand*{\bidi@restore@newpage}{}
\newcommand*{\bidi@hook@bcma}{}
\newcommand*{\bidi@hook@acma}{}
\newcommand*{\bidi@BeforeClosingMainAux}{%
  \ifx\bidi@hook@bcma\@empty
    \gdef\bidi@hook@bcma{%
      \renewcommand*{\bidi@BeforeClosingMainAux}[1]{####1}%
      \let\protected@write\bidi@protected@immediate@write
      \bidi@redefine@newpage
    }%
  \fi
  \g@addto@macro\bidi@hook@bcma%
}

\newcommand*{\bidi@AfterReadingMainAux}{%
  \ifx\bidi@hook@acma\@empty
    \gdef\bidi@hook@acma{%
      \renewcommand*{\bidi@AfterReadingMainAux}[1]{####1}%
      \let\protected@write\bidi@protected@immediate@write
    }%
  \fi
  \g@addto@macro\bidi@hook@acma%
```

```
}

\long\def\bidi@protected@immediate@write#1#2#3{%
  \begingroup
    #2%
    \let\protect\@unexpandable@protect
    \edef\reserved@a{\immediate\write#1{#3}}%
    \reserved@a
  \endgroup
  \if@nobreak\ifvmode\nobreak\fi\fi
}

\def\bidi@patch@counter{0}%
\if@bidi@csundef{numexpr}{%
  \def\bidi@patch@stepcounter{%
    \begingroup
      \count@\bidi@patch@counter\relax
      \advance\count@\@ne\relax
    \edef\x{\endgroup
      \noexpand\def\noexpand\bidi@patch@counter{\the\count@}%
    }%
    \x
  }%
}{%
  \def\bidi@patch@stepcounter{%
    \edef\bidi@patch@counter{%
      \the\numexpr\bidi@patch@counter+\@ne\relax
    }%
  }%
}
\def\bidi@patch@list{}
\def\bidi@patch@Add{%
  \bidi@appto\bidi@patch@list
}
\def\bidi@patch@AfterPackage#1{%
  \@ifpackageloaded{#1}{%
    \@firstofone
  }{%
    \bidi@patch@AfterPackage{#1}%
  }%
}
\def\bidi@patch@AfterPackage#1{%
  \edef\bidi@patch@temp{#1}%
  \bidi@patch@stepcounter
  \expandafter\bidi@patch@@AfterPackage
  \csname bidi@patch@\bidi@patch@counter\expandafter\endcsname{%
    \bidi@patch@temp
  }%
}
\def\bidi@patch@@AfterPackage#1#2#3{%
```

```
  \begingroup
    \toks@{#3}%
    \xdef\bidi@patch@gtemp{%
      \noexpand\@ifpackageloaded{#2}{%
        \noexpand\let\noexpand#1\noexpand\relax
        \the\toks@
      }{}%
    }%
  \endgroup
  \let#1\bidi@patch@gtemp
  \bidi@patch@Add#1%
  \bidi@patch@try{bidi@AfterPackage}{#2}#1%
}

\def\bidi@patch@try#1#2#3{%
  \if@bidi@csundef{#1}{}{%
    \csname #1\endcsname{#2}{#3}%
  }%
}

\AtBeginDocument{\bidi@patch@list}

\bidi@AtEndPreamble{\bidi@patch@list}%

\bidi@AfterEndPreamble{%
  \let\bidi@patch@OrgIfPackageLoaded\@ifpackageloaded
  \let\bidi@patch@OrgIfPackageLater\@ifpackagelater
  \let\bidi@patch@OrgIfClassLoaded\@ifclassloaded
  \let\bidi@patch@OrgIfClassLater\@ifclasslater
  \bidi@patch@list
  \let\@ifpackageloaded\bidi@patch@OrgIfPackageLoaded
  \let\@ifpackagelater\bidi@patch@OrgIfPackageLater
  \let\@ifclassloaded\bidi@patch@OrgIfClassLoaded
  \let\@ifclasslater\bidi@patch@OrgIfClassLater
}%
```

7.23 bidituftefloat.sty

```
\NeedsTeXFormat{LaTeX2e}
\ProvidesPackage{bidituftefloat}[2011/06/14 v0.1
bidi implementation of tufte float]
\RequirePackage{xifthen}
\newcommand{\@bidituftefloat@pkgname}{bidituftefloat}
\newcommand{\bidituftefloatError}[2]{\PackageError{\@bidituftefloat@pkgname}{#1}{#2}}
\newcommand{\bidituftefloatDebugInfoNL}[1]{\ifthenelse{\boolean{@bidituftefloat@debug}}{\bidi
\newcommand{\bidituftefloatInfoNL}[1]{\PackageInfo{\@bidituftefloat@pkgname}{#1\@gobble}}
\newboolean{@bidituftefloat@RTLgeometry}
\setboolean{@bidituftefloat@RTLgeometry}{true}
\DeclareOption{RTLgeometry}{\setboolean{@bidituftefloat@RTLgeometry}{true}}
\DeclareOption{LTRgeometry}{\setboolean{@bidituftefloat@RTLgeometry}{false}}
```

```
\newboolean{@bidituftefloat@afourpaper}
\DeclareOption{a4paper}{\setboolean{@bidituftefloat@afourpaper}{true}}
\newboolean{@bidituftefloat@bfivepaper}
\DeclareOption{b5paper}{\setboolean{@bidituftefloat@bfivepaper}{true}}
\newboolean{@bidituftefloat@symmetric}
\newboolean{@bidituftefloat@twoside}
\DeclareOption{twoside}{%
\@twosidetrue  \@mparswitchtrue%
\setboolean{@bidituftefloat@twoside}{true}%
\setboolean{@bidituftefloat@symmetric}{true}%
}
\DeclareOption{oneside}{%
\@twosidefalse  \@mparswitchfalse%
\setboolean{@bidituftefloat@twoside}{false}%
\setboolean{@bidituftefloat@symmetric}{false}%
}
\@ifclassloaded{book}{\ExecuteOptions{twoside}}{}
\newboolean{@bidituftefloat@debug}
\newcommand*{\@bidituftefloat@caption@justification}{\@bidituftefloat@justification@autodetec
\ProcessOptions
%% Globally sets the length
\newcommand*{\gsetlength}[2]{%
  \setlength{#1}{#2}%
  \global#1=#1\relax%
}
%% Globally sets a boolean
\newcommand*{\gsetboolean}[2]{% based on code from ifthen pkg
  \lowercase{\def\@tempa{#2}}%
  \@ifundefined{@tempswa\@tempa}%
   {\PackageError{ifthen}{You can only set a boolean to `true' or `false'}\@ehc}%
    {\@ifundefined{#1\@tempa}%
      {\PackageError{ifthen}{Boolean #1 undefined}\@ehc}%
      {\global\csname#1\@tempa\endcsname}%
    }%
}
%% Set the font sizes and baselines to match bidituftefloat's books
\renewcommand\normalsize{%
   \@setfontsize\normalsize\@xpt{14}%
   \abovedisplayskip 10\p@ \@plus2\p@ \@minus5\p@
   \abovedisplayshortskip \z@ \@plus3\p@
   \belowdisplayshortskip 6\p@ \@plus3\p@ \@minus3\p@
   \belowdisplayskip \abovedisplayskip
   \let\@listi\@listI}
\normalbaselineskip=14pt
\normalsize
\renewcommand\footnotesize{%
   \@setfontsize\footnotesize\@viiipt{10}%
   \abovedisplayskip 6\p@ \@plus2\p@ \@minus4\p@
   \abovedisplayshortskip \z@ \@plus\p@
   \belowdisplayshortskip 3\p@ \@plus\p@ \@minus2\p@
```

```
    \def\@listi{\leftmargin\leftmargini
                \topsep 3\p@ \@plus\p@ \@minus\p@
                \parsep 2\p@ \@plus\p@ \@minus\p@
                \itemsep \parsep}%
    \belowdisplayskip \abovedisplayskip
}
%% Paragraph indentation and separation for marginal text
\newcommand{\@bidituftefloat@margin@par}{%
  \setlength{\RaggedRightParindent}{0.5pc}%
  \setlength{\JustifyingParindent}{0.5pc}%
  \setlength{\parindent}{0.5pc}%
  \setlength{\parskip}{0pt}%
}
\RequirePackage{ragged2e}
\ifthenelse{\boolean{@bidituftefloat@RTLgeometry}}{%
\RequirePackage[letterpaper,right=1in,top=1in,headsep=2\baselineskip,textwidth=26pc,marginpars
\ifthenelse{\boolean{@bidituftefloat@afourpaper}}
 {\geometry{a4paper,right=24.8mm,top=27.4mm,headsep=2\baselineskip,textwidth=107mm,marginpars
  {}
\ifthenelse{\boolean{@bidituftefloat@bfivepaper}}
 {\geometry{paperwidth=176mm,paperheight=250mm,right=14.66mm,top=13.88mm,textwidth=102.66mm,m
  {}}{%
\RequirePackage[letterpaper,left=1in,top=1in,headsep=2\baselineskip,textwidth=26pc,marginpars
\ifthenelse{\boolean{@bidituftefloat@afourpaper}}
 {\geometry{a4paper,left=24.8mm,top=27.4mm,headsep=2\baselineskip,textwidth=107mm,marginparse
  {}
\ifthenelse{\boolean{@bidituftefloat@bfivepaper}}
 {\geometry{paperwidth=176mm,paperheight=250mm,left=14.66mm,top=13.88mm,textwidth=102.66mm,ma
  {}}
\ifthenelse{\boolean{@bidituftefloat@symmetric}}
  {}
  {\geometry{asymmetric}}% forces internal LaTeX `twoside'
\setlength\marginparpush{10pt}
%% Font for margin items
\newcommand{\@bidituftefloat@marginfont}{\normalfont\footnotesize}
\newcommand*{\@bidituftefloat@caption@font}{\@bidituftefloat@marginfont}
\newcommand*{\setcaptionfont}[1]{\renewcommand*{\@bidituftefloat@caption@font}{#1}}
\newcommand{\@bidituftefloat@justification}{\justifying}%
\setlength\abovedisplayskip{6pt plus 2pt minus 4pt}
\setlength\belowdisplayskip{6pt plus 2pt minus 4pt}
\newboolean{@bidituftefloat@changepage}
\IfFileExists{changepage.sty}{%
  \bidituftefloatDebugInfoNL{Found changepage.sty}
  \RequirePackage[strict]{changepage}
  \setboolean{@bidituftefloat@changepage}{true}
}{%
  \bidituftefloatDebugInfoNL{Found chngpage.sty}
  \RequirePackage[strict]{chngpage}
  \setboolean{@bidituftefloat@changepage}{false}
}
```

```
\newboolean{@bidituftefloat@odd@page}
\setboolean{@bidituftefloat@odd@page}{true}
\newcommand*{\@bidituftefloat@checkoddpage}{%
  \checkoddpage%
  \ifthenelse{\boolean{@bidituftefloat@changepage}}{%
    \ifoddpage%
      \setboolean{@bidituftefloat@odd@page}{true}%
    \else%
      \setboolean{@bidituftefloat@odd@page}{false}%
    \fi%
  }{%
    \ifcpoddpage%
      \setboolean{@bidituftefloat@odd@page}{true}%
    \else%
      \setboolean{@bidituftefloat@odd@page}{false}%
    \fi%
  }%
}
\newlength{\@bidituftefloat@overhang}% used by the fullwidth environment and the running heads
\newlength{\@bidituftefloat@fullwidth}
\newlength{\@bidituftefloat@caption@fill}
\newcommand{\bidituftefloatRecalculate}{%
  \setlength{\@bidituftefloat@overhang}{\marginparwidth}
  \addtolength{\@bidituftefloat@overhang}{\marginparsep}

  \setlength{\@bidituftefloat@fullwidth}{\textwidth}
  \addtolength{\@bidituftefloat@fullwidth}{\marginparsep}
  \addtolength{\@bidituftefloat@fullwidth}{\marginparwidth}

  \setlength{\@bidituftefloat@caption@fill}{\textwidth}
  \addtolength{\@bidituftefloat@caption@fill}{\marginparsep}
}
\AtBeginDocument{\bidituftefloatRecalculate}
\RequirePackage{optparams}% provides multiple optional arguments for commands
\RequirePackage{placeins}
\newsavebox{\@bidituftefloat@margin@floatbox}
\newenvironment{@bidituftefloat@margin@float}[2][-1.2ex]%
 {\FloatBarrier% process all floats before this point so the figure/table numbers stay in order.
  \begin{lrbox}{\@bidituftefloat@margin@floatbox}%
  \begin{minipage}{\marginparwidth}%
    \@bidituftefloat@caption@font%
    \def\@captype{#2}%
    \hbox{}\vspace*{#1}%
    \@bidituftefloat@caption@justification%
    \@bidituftefloat@margin@par%
    \noindent%
  }
  {\end{minipage}%
  \end{lrbox}%
  \marginpar{\usebox{\@bidituftefloat@margin@floatbox}}%
```

```
  }
\newenvironment{marginfigure}[1][-1.2ex]%
  {\begin{@bidituftefloat@margin@float}[#1]{figure}}
  {\end{@bidituftefloat@margin@float}}
\newenvironment{margintable}[1][-1.2ex]%
  {\begin{@bidituftefloat@margin@float}[#1]{table}}
  {\end{@bidituftefloat@margin@float}}
\newcommand*{\@bidituftefloat@justification@autodetect}{\justifying}%

\newcommand{\@bidituftefloat@float@debug@info}{}% contains debug info generated as the float is p
\newcommand{\@bidituftefloat@float@debug}[1]{% adds debug info to the queue for output
  \ifthenelse{\equal{\@bidituftefloat@float@debug@info}{}}%
    {\def\@bidituftefloat@float@debug@info{#1}}%
    {\g@addto@macro\@bidituftefloat@float@debug@info{\MessageBreak#1}}%
}
\newcommand{\floatalignment}{x}% holds the current float alignment (t, b, h, p)
\newcommand{\setfloatalignment}[1]{\global\def\floatalignment{#1}\@bidituftefloat@float@debug
\newboolean{@bidituftefloat@float@recto}
\newcommand{\forcerectofloat}{\gsetboolean{@bidituftefloat@float@recto}{true}\@bidituftefloat
\newcommand{\forceversofloat}{\gsetboolean{@bidituftefloat@float@recto}{false}\@bidituftefloa
\newsavebox{\@bidituftefloat@figure@box}
\newsavebox{\@bidituftefloat@caption@box}
\let\@bidituftefloat@orig@float\@float
\let\@bidituftefloat@orig@endfloat\end@float
\newlength{\@bidituftefloat@caption@vertical@offset}
\setlength{\@bidituftefloat@caption@vertical@offset}{0pt}
\newcommand{\@bidituftefloat@stored@shortcaption}{}
\newcommand{\@bidituftefloat@stored@caption}{}
\newcommand{\@bidituftefloat@stored@label}{}
\long\def\@bidituftefloat@caption[#1][#2]#3{%
  \ifthenelse{\isempty{#1}}%
    {\gdef\@bidituftefloat@stored@shortcaption{#3}}%
    {\gdef\@bidituftefloat@stored@shortcaption{#1}}%
  \gsetlength{\@bidituftefloat@caption@vertical@offset}{-#2}% we want a positive offset to lower
  \gdef\@bidituftefloat@stored@caption{#3}%
}
\newcommand{\@bidituftefloat@label}[1]{%
  \gdef\@bidituftefloat@stored@label{#1}%
}
\newcommand{\@bidituftefloat@fps}{}
\newboolean{@bidituftefloat@float@star}
\newlength{\@bidituftefloat@float@contents@width}
\newenvironment{@bidituftefloat@float}[3][htbp]%
  {% begin @bidituftefloat@float
    % Should this float be full-width or just text-width?
    \ifthenelse{\equal{#3}{star}}%
      {\gsetboolean{@bidituftefloat@float@star}{true}}%
      {\gsetboolean{@bidituftefloat@float@star}{false}}%
   % Check page side (recto/verso) and store detected value -- can be overriden in environment cont
    \@bidituftefloat@checkoddpage%
```

```
    \ifthenelse{\boolean{@bidituftefloat@odd@page}}%
    {\gsetboolean{@bidituftefloat@float@recto}{true}\@bidituftefloat@float@debug{Detected page
    {\gsetboolean{@bidituftefloat@float@recto}{false}\@bidituftefloat@float@debug{Detected pag
  % If the float placement specifier is 'b' and only 'b', then bottom-align the mini-pages, otherw
    \renewcommand{\@bidituftefloat@fps}{#1}%
    \@bidituftefloat@float@debug{Allowed positions: [#1]}%
    \ifthenelse{\equal{#1}{b}\OR\equal{#1}{B}}%
    {\renewcommand{\floatalignment}{b}\@bidituftefloat@float@debug{Presumed position: [bottom]
    {\renewcommand{\floatalignment}{t}\@bidituftefloat@float@debug{Presumed position: [top]}}%
   % Capture the contents of the \caption and \label commands to use later
    \global\let\@bidituftefloat@orig@caption\caption%
    \global\let\@bidituftefloat@orig@label\label%
  \renewcommand{\caption}{\optparams{\@bidituftefloat@caption}{[][Opt]}}%
    \renewcommand{\label}[1]{\@bidituftefloat@label{##1}}%
    % Handle subfigure package compatibility
    \ifthenelse{\boolean{@bidituftefloat@packages@subfigure}}{%
     % don't move the label while inside a \subfigure or \subtable command
       \global\let\label\@bidituftefloat@orig@label%
    }{}% subfigure package is not loaded
    \@bidituftefloat@orig@float{#2}[#1]%
    \ifthenelse{\boolean{@bidituftefloat@float@star}}%
    {\setlength{\@bidituftefloat@float@contents@width}{\@bidituftefloat@fullwidth}}%
      {\setlength{\@bidituftefloat@float@contents@width}{\textwidth}}%
    \begin{lrbox}{\@bidituftefloat@figure@box}%
    \begin{minipage}[\floatalignment]{\@bidituftefloat@float@contents@width}\hbox{}%
  }{% end @bidituftefloat@float
    \par\hbox{}\vspace{-\baselineskip}\ifthenelse{\prevdepth>0}{\vspace{-\prevdepth}}{}% align
      \end{minipage}%
    \end{lrbox}%
    % build the caption box
    \begin{lrbox}{\@bidituftefloat@caption@box}%
      \begin{minipage}[\floatalignment]{\marginparwidth}\hbox{}%
     \ifthenelse{\NOT\equal{\@bidituftefloat@stored@caption}{}}{\@bidituftefloat@orig@caption
     \ifthenelse{\NOT\equal{\@bidituftefloat@stored@label}{}}{\@bidituftefloat@orig@label{\@b
        \par\vspace{-\prevdepth}%% TODO: DOUBLE-CHECK FOR SAFETY
      \end{minipage}%
    \end{lrbox}%
    % now typeset the stored boxes
    \begin{fullwidth}%
      \begin{minipage}[\floatalignment]{\linewidth}%
        \ifthenelse{\boolean{@bidituftefloat@float@star}}%
       {\@bidituftefloat@float@fullwidth[\@bidituftefloat@caption@vertical@offset]{\@bidituft
       {\@bidituftefloat@float@textwidth[\@bidituftefloat@caption@vertical@offset]{\@bidituft
      \end{minipage}%
    \end{fullwidth}%
   \@bidituftefloat@orig@endfloat% end original LaTeX float environment
    % output debug info
    \ifthenelse{\boolean{@bidituftefloat@debug}}{%
    \typeout{^^J^^J---------- bidituftefloat package float information ----------}%
      \ifthenelse{\equal{\@bidituftefloat@stored@label}{}}%
```

```
        {\typeout{Warning: Float unlabeled!}}%
        {\typeout{Float label: [\@bidituftefloat@stored@label]}}%
      \typeout{Page number: [\thepage]}%
      \def\MessageBreak{^^J}%
      \typeout{\@bidituftefloat@float@debug@info}%
      \ifthenelse{\boolean{@bidituftefloat@symmetric}}%
        {\typeout{Symmetric: [true]}}%
        {\typeout{Symmetric: [false]}}%
    \typeout{-----------------------------------------------------^^J^^J}%
    }{}%
    % reset commands and temp boxes and captions
    \gdef\@bidituftefloat@float@debug@info{}%
    \let\caption\@bidituftefloat@orig@caption%
    \let\label\@bidituftefloat@orig@label%
    \begin{lrbox}{\@bidituftefloat@figure@box}\hbox{}\end{lrbox}%
    \begin{lrbox}{\@bidituftefloat@caption@box}\hbox{}\end{lrbox}%
    \gdef\@bidituftefloat@stored@shortcaption{}%
    \gdef\@bidituftefloat@stored@caption{}%
    \gdef\@bidituftefloat@stored@label{}%
   \gsetlength{\@bidituftefloat@caption@vertical@offset}{0pt}% reset caption offset
  }
\newcommand{\@bidituftefloat@float@textwidth}[3][0pt]{%
  \ifthenelse{\NOT\boolean{@bidituftefloat@symmetric}\OR\boolean{@bidituftefloat@float@recto}}
    % asymmetric or page is odd, so caption is on the right
    \hbox{%
      \usebox{#2}%
      \hspace{\marginparsep}%
      \smash{\raisebox{#1}{\usebox{#3}}}%
    }
    \@bidituftefloat@float@debug{Caption position: [right]}%
  }{% symmetric pages and page is even, so caption is on the left
    \hbox{%
      \smash{\raisebox{#1}{\usebox{#3}}}%
      \hspace{\marginparsep}%
      \usebox{#2}%
    }
    \@bidituftefloat@float@debug{Caption position: [left]}%
  }%
}
\newcommand{\@bidituftefloat@float@fullwidth}[3][0pt]{%
  \ifthenelse{\equal{\floatalignment}{b}}%
    {% place caption above figure
    \ifthenelse{\NOT\boolean{@bidituftefloat@symmetric}\OR\boolean{@bidituftefloat@float@rect
      {\hfill\smash{\raisebox{#1}{\usebox{#3}}}\par\usebox{#2}\@bidituftefloat@float@debug{Cap
      {\smash{\raisebox{#1}{\usebox{#3}}}\hfill\par\usebox{#2}\@bidituftefloat@float@debug{Cap
    }{% place caption below figure
    \ifthenelse{\NOT\boolean{@bidituftefloat@symmetric}\OR\boolean{@bidituftefloat@float@rect
      {\usebox{#2}\par\hfill\smash{\raisebox{#1}{\usebox{#3}}}\@bidituftefloat@float@debug{Cap
      {\usebox{#2}\par\smash{\raisebox{#1}{\usebox{#3}}}\hfill\@bidituftefloat@float@debug{Cap
    }%
```

```
}
\renewenvironment{figure}[1][htbp]%
  {\ifvmode\else\unskip\fi\begin{@bidituftefloat@float}[#1]{figure}{}}
  {\end{@bidituftefloat@float}}
\renewenvironment{table}[1][htbp]
  {\ifvmode\else\unskip\fi\begin{@bidituftefloat@float}[#1]{table}{}}
  {\end{@bidituftefloat@float}}
\renewenvironment{figure*}[1][htbp]%
 {\ifvmode\else\unskip\fi\begin{@bidituftefloat@float}[#1]{figure}{star}}
  {\end{@bidituftefloat@float}}
\renewenvironment{table*}[1][htbp]%
 {\ifvmode\else\unskip\fi\begin{@bidituftefloat@float}[#1]{table}{star}}
  {\end{@bidituftefloat@float}}
\newenvironment{fullwidth}
  {\ifthenelse{\boolean{@bidituftefloat@symmetric}}%
    {\ifthenelse{\boolean{@bidituftefloat@changepage}}{\begin{adjustwidth*}{}{-\@bidituftefloa
      {\begin{adjustwidth}{}{-\@bidituftefloat@overhang}}%
  }%
  {\ifthenelse{\boolean{@bidituftefloat@symmetric}}%
   {\ifthenelse{\boolean{@bidituftefloat@changepage}}{\end{adjustwidth*}}{\end{adjustwidth}}}%
    {\end{adjustwidth}}%
  }
\long\def\@caption#1[#2]#3{%
  \par%
  \addcontentsline{\csname ext@#1\endcsname}{#1}%
    {\protect\numberline{\csname the#1\endcsname}{\ignorespaces #2}}%
  \begingroup%
    \@parboxrestore%
    \if@minipage%
      \@setminipage%
    \fi%
   \@bidituftefloat@caption@font\@bidituftefloat@caption@justification%
    \noindent\csname fnum@#1\endcsname: \ignorespaces#3\par%
    %\@makecaption{\csname fnum@#1\endcsname}{\ignorespaces #3}\par
  \endgroup}
%%
% Turns newlines into spaces.  Based on code from the `titlesec' package.
\DeclareRobustCommand{\@bidituftefheading@newlinetospace}{%
 \@ifstar{\@bidituftefheading@newlinetospace@i}{\@bidituftefheading@newlinetospace@i}%
}
\def\@bidituftefheading@newlinetospace@i{%
  \ifdim\lastskip>\z@\else\space\fi
  \ignorespaces%
}
\DeclareRobustCommand{\newlinetospace}[1]{%
  \let\@bidituftefheading@orig@cr\\% save the original meaning of \\
  \def\\{\@bidituftefheading@newlinetospace}% turn \\ and \\* into \space
  \let\newline\\% turn \newline into \space
  #1%
  \let\\\@bidituftefheading@orig@cr% revert to original meaning of \\
```

```
}
\RequirePackage{fancyhdr}
\pagestyle{fancy}
\AtBeginDocument{%
  \ifthenelse{\boolean{@bidituftefloat@symmetric}}
    {\fancyhfoffset[LE,RO]{\@bidituftefloat@overhang}}
    {\fancyhfoffset[RE,RO]{\@bidituftefloat@overhang}}
}
% The running heads/feet don't have rules
\renewcommand{\headrulewidth}{0pt}
\renewcommand{\footrulewidth}{0pt}
% The 'fancy' page style is the default style for all pages.
\fancyhf{} % clear header and footer fields
    \ifthenelse{\boolean{@bidituftefloat@symmetric}}
   {\fancyhead[LE]{\thepage\quad\textsl{\newlinetospace{\plainauthor}}}%
    \fancyhead[RO]{\textsl{\newlinetospace{\plaintitle}}\quad\thepage}}%
   {\fancyhead[RE,RO]{\textsl{\newlinetospace{\plaintitle}}\quad\thepage}}%
% The `plain' page style is used on chapter opening pages.
% In Tufte's /Beautiful Evidence/ he never puts page numbers at the
% bottom of pages -- the folios are unexpressed.
\fancypagestyle{plain}{
  \fancyhf{} % clear header and footer fields
  % Uncommment the following five lines of code if you want the opening page
  % of the chapter to express the folio in the lower outside corner.
  %  \ifthenelse{\boolean{@bidituftefloat@symmetric}}
  %  {\fancyfoot[LE,RO]{\thepage}}
  %  {\fancyfoot[RE,RO]{\thepage}}
}
% The `empty' page style suppresses all headers and footers.
% It's used on title pages and `intentionally blank' pages.
\fancypagestyle{empty}{
  \fancyhf{} % clear header and footer fields
}
\def\morefloats{% provides a total of 52 floats
  \ifthenelse{\isundefined{\bx@S}}{%
    \bidituftefloatDebugInfoNL{Adding 34 more float slots.}
    \newinsert\bx@S
    \newinsert\bx@T
    \newinsert\bx@U
    \newinsert\bx@V
    \newinsert\bx@W
    \newinsert\bx@X
    \newinsert\bx@Y
    \newinsert\bx@Z
    \newinsert\bx@a
    \newinsert\bx@b
    \newinsert\bx@c
    \newinsert\bx@d
    \newinsert\bx@e
    \newinsert\bx@f
```

```
    \newinsert\bx@g
    \newinsert\bx@h
    \newinsert\bx@i
    \newinsert\bx@j
    \newinsert\bx@k
    \newinsert\bx@l
    \newinsert\bx@m
    \newinsert\bx@n
    \newinsert\bx@o
    \newinsert\bx@p
    \newinsert\bx@q
    \newinsert\bx@r
    \newinsert\bx@s
    \newinsert\bx@t
    \newinsert\bx@u
    \newinsert\bx@v
    \newinsert\bx@w
    \newinsert\bx@x
    \newinsert\bx@y
    \newinsert\bx@z
    \gdef\@freelist{\@elt\bx@A\@elt\bx@B\@elt\bx@C\@elt\bx@D\@elt\bx@E
                    \@elt\bx@F\@elt\bx@G\@elt\bx@H\@elt\bx@I\@elt\bx@J
                    \@elt\bx@K\@elt\bx@L\@elt\bx@M\@elt\bx@N
                    \@elt\bx@O\@elt\bx@P\@elt\bx@Q\@elt\bx@R
                    \@elt\bx@S\@elt\bx@T\@elt\bx@U\@elt\bx@V
                    \@elt\bx@W\@elt\bx@X\@elt\bx@Y\@elt\bx@Z
                    \@elt\bx@a\@elt\bx@b\@elt\bx@c\@elt\bx@d\@elt\bx@e
                    \@elt\bx@f\@elt\bx@g\@elt\bx@h\@elt\bx@i\@elt\bx@j
                    \@elt\bx@k\@elt\bx@l\@elt\bx@m\@elt\bx@n
                    \@elt\bx@o\@elt\bx@p\@elt\bx@q\@elt\bx@r
                    \@elt\bx@s\@elt\bx@t\@elt\bx@u\@elt\bx@v
                    \@elt\bx@w\@elt\bx@x\@elt\bx@y\@elt\bx@z}%
}{% we've already added another 34 floats, so we'll add 26 more, but that's it!
  \ifthenelse{\isundefined{\bx@AA}}{%
    \bidituftefloatDebugInfoNL{Adding 26 more float slots.}
    \newinsert\bx@AA
    \newinsert\bx@BB
    \newinsert\bx@CC
    \newinsert\bx@DD
    \newinsert\bx@EE
    \newinsert\bx@FF
    \newinsert\bx@GG
    \newinsert\bx@HH
    \newinsert\bx@II
    \newinsert\bx@JJ
    \newinsert\bx@KK
    \newinsert\bx@LL
    \newinsert\bx@MM
    \newinsert\bx@NN
    \newinsert\bx@OO
```

```
      \newinsert\bx@PP
      \newinsert\bx@QQ
      \newinsert\bx@RR
      \newinsert\bx@SS
      \newinsert\bx@TT
      \newinsert\bx@UU
      \newinsert\bx@VV
      \newinsert\bx@WW
      \newinsert\bx@XX
      \newinsert\bx@YY
      \newinsert\bx@ZZ
     \gdef\@freelist{\@elt\bx@A\@elt\bx@B\@elt\bx@C\@elt\bx@D\@elt\bx@E
                     \@elt\bx@F\@elt\bx@G\@elt\bx@H\@elt\bx@I\@elt\bx@J
                      \@elt\bx@K\@elt\bx@L\@elt\bx@M\@elt\bx@N
                      \@elt\bx@O\@elt\bx@P\@elt\bx@Q\@elt\bx@R
                      \@elt\bx@S\@elt\bx@T\@elt\bx@U\@elt\bx@V
                      \@elt\bx@W\@elt\bx@X\@elt\bx@Y\@elt\bx@Z
                     \@elt\bx@a\@elt\bx@b\@elt\bx@c\@elt\bx@d\@elt\bx@e
                     \@elt\bx@f\@elt\bx@g\@elt\bx@h\@elt\bx@i\@elt\bx@j
                      \@elt\bx@k\@elt\bx@l\@elt\bx@m\@elt\bx@n
                      \@elt\bx@o\@elt\bx@p\@elt\bx@q\@elt\bx@r
                      \@elt\bx@s\@elt\bx@t\@elt\bx@u\@elt\bx@v
                      \@elt\bx@w\@elt\bx@x\@elt\bx@y\@elt\bx@z
                \@elt\bx@AA\@elt\bx@BB\@elt\bx@CC\@elt\bx@DD\@elt\bx@EE
                \@elt\bx@FF\@elt\bx@GG\@elt\bx@HH\@elt\bx@II\@elt\bx@JJ
                      \@elt\bx@KK\@elt\bx@LL\@elt\bx@MM\@elt\bx@NN
                      \@elt\bx@OO\@elt\bx@PP\@elt\bx@QQ\@elt\bx@RR
                      \@elt\bx@SS\@elt\bx@TT\@elt\bx@UU\@elt\bx@VV
                      \@elt\bx@WW\@elt\bx@XX\@elt\bx@YY\@elt\bx@ZZ}%
    }{%
    \bidituftefloatError{You may only call \string\morefloats\space twice. See the\MessageBreak
     {There are already 78 float slots allocated. Try using \string\FloatBarrier\space or\Messag
    }%
  }%
}
\newboolean{@bidituftefloat@packages@subfigure}
\setboolean{@bidituftefloat@packages@subfigure}{false}
\AtBeginDocument{%
  \@ifpackageloaded{subfigure}
    {\gsetboolean{@bidituftefloat@packages@subfigure}{true}}
    {\gsetboolean{@bidituftefloat@packages@subfigure}{false}}%
}
\AtBeginDocument{%
  \@ifpackageloaded{float}{%
   % Save the redefined float environment (instead of the LaTeX float environment)
    \let\@bidituftefloat@orig@float\@float
    \let\@bidituftefloat@orig@endfloat\end@float

    % Define Tuftian float styles (with the caption in the margin)
    \newcommand{\floatc@bidituftefloatplain}[2]{%
```

```
      \begin{lrbox}{\@bidituftefloat@caption@box}%
        \begin{minipage}[\floatalignment]{\marginparwidth}\hbox{}%
          \@bidituftefloat@caption@font{\@fs@cfont #1:} #2\par%
        \end{minipage}%
      \end{lrbox}%
    \smash{\hspace{\@bidituftefloat@caption@fill}\usebox{\@bidituftefloat@caption@box}}%
    }
    \newcommand{\fs@bidituftefloatplain}{%
      \def\@fs@cfont{\@bidituftefloat@caption@font}%
      \let\@fs@capt\floatc@bidituftefloatplain%
      \def\@fs@pre{}%
      \def\@fs@post{}%
      \def\@fs@mid{}%
      \let\@fs@iftopcapt\iftrue%
    }
    \let\fs@bidituftefloatplaintop=\fs@bidituftefloatplain
    \let\floatc@bidituftefloatplaintop=\floatc@bidituftefloatplain
    \newcommand\floatc@bidituftefloatruled[2]{%
      {\@fs@cfont #1} #2\par%
    }
    \newcommand\fs@bidituftefloatruled{%
      \def\@fs@cfont{\@bidituftefloat@caption@font}%
      \let\@fs@capt\floatc@bidituftefloatplain%
     \def\@fs@pre{\hrule height.8pt depth0pt width\textwidth \kern2pt}%
      \def\@fs@post{\kern2pt\hrule width\textwidth\relax}%
      \def\@fs@mid{}%
      \let\@fs@iftopcapt\iftrue%
    }
    \newcommand\fs@bidituftefloatboxed{%
      \def\@fs@cfont{}%
      \let\@fs@capt\floatc@bidituftefloatplain%
      \def\@fs@pre{%
        \setbox\@currbox\vbox{\hbadness10000
        \moveleft3.4pt\vbox{\advance\hsize by6.8pt
          \hrule \hbox to\hsize{\vrule\kern3pt
            \vbox{\kern3pt\box\@currbox\kern3pt}\kern3pt\vrule}\hrule}}
      }%
      \def\@fs@mid{\kern2pt}%
      \def\@fs@post{}%
      \let\@fs@iftopcapt\iftrue%
    }
  }{%
    % Nothing to do
  }
}
\AtBeginDocument{%
  \@ifpackageloaded{algorithm}{%
    % Set the float style to the Tuftian version
   \ifthenelse{\equal{\ALG@floatstyle}{plain}\OR\equal{\ALG@floatstyle}{ruled}\OR\equal{\ALG@f
    \biditufteFloatInfoNL{Switching algorithm float style from \ALG@floatstyle\MessageBreak to b
```

```
      \floatstyle{bidituftefloat\ALG@floatstyle}%
      \restylefloat{algorithm}%
    }{}%
  }{%
    % Nothing to do
  }
}
\PassOptionsToPackage{caption=false}{subfig}
```

7.24 bidituftesidenote.sty

```
\NeedsTeXFormat{LaTeX2e}
\ProvidesPackage{bidituftesidenote}[2015/04/30 v0.3
bidi implementation of tufte sidenote]
\RequirePackage{xifthen}
\RequirePackage{ragged2e}
\RequirePackage{setspace}
\RequirePackage{biditools}
\def\bidituftesidenotemarginpar{%
  \ifhmode
    \@bsphack
    \@floatpenalty -\@Mii
  \else
    \@floatpenalty-\@Miii
  \fi
  \ifinner
    \@parmoderr
    \@floatpenalty\z@
  \else
    \@next\@currbox\@freelist{}{}%
    \@next\@marbox\@freelist{\global\count\@marbox\m@ne}%
       {\@floatpenalty\z@
        \@fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}%
  \fi
  \@ifnextchar [\@bidituftesidenotexmpar\@bidituftesidenoteympar}
\long\def\@bidituftesidenotexmpar[#1]#2{%
  \@bidituftesidenotesavemarbox\@marbox{#1}%
  \@bidituftesidenotesavemarbox\@currbox{#2}%
  \@xympar}
\long\def\@bidituftesidenoteympar#1{%
  \@bidituftesidenotesavemarbox\@marbox{#1}%
  \global\setbox\@currbox\copy\@marbox
  \@xympar}
\long\def \@bidituftesidenotesavemarbox #1#2{%
  \global\setbox #1%
    \color@vbox
      \vtop{%
        \hsize\marginparwidth
        \@parboxrestore
        \@bidituftesidenotemarginparreset
```

```
        #2%
        \@minipagefalse
        \outer@nobreak
        }%
    \color@endbox
}
\def \@bidituftesidenotemarginparreset {%
        \reset@font
        \normalsize
        \@minipagetrue
     \everypar{\@minipagefalse\everypar{}\if@RTL@footnote\beginR\else\beginL\fi}%
}
\def\LTRbidituftesidenotemarginpar{%
  \ifhmode
    \@bsphack
    \@floatpenalty -\@Mii
  \else
    \@floatpenalty-\@Miii
  \fi
  \ifinner
    \@parmoderr
    \@floatpenalty\z@
  \else
    \@next\@currbox\@freelist{}{}%
    \@next\@marbox\@freelist{\global\count\@marbox\m@ne}%
       {\@floatpenalty\z@
        \@fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}%
  \fi
  \@ifnextchar [\@LTRbidituftesidenotexmpar\@LTRbidituftesidenoteympar}
\long\def\@LTRbidituftesidenotexmpar[#1]#2{%
  \@LTRbidituftesidenotesavemarbox\@marbox{#1}%
  \@LTRbidituftesidenotesavemarbox\@currbox{#2}%
  \@xympar}
\long\def\@LTRbidituftesidenoteympar#1{%
  \@LTRbidituftesidenotesavemarbox\@marbox{#1}%
  \global\setbox\@currbox\copy\@marbox
  \@xympar}
\long\def \@LTRbidituftesidenotesavemarbox #1#2{%
  \global\setbox #1%
    \color@vbox
      \vtop{%
        \hsize\marginparwidth
        \@parboxrestore
        \@LTRbidituftesidenotemarginparreset
        #2%
        \@minipagefalse
        \outer@nobreak
        }%
    \color@endbox
}
```

```
\def \@LTRbidituftesidenotemarginparreset {%
        \reset@font
        \normalsize
        \@minipagetrue
        \everypar{\@minipagefalse\everypar{}\beginL}%
}
\def\RTLbidituftesidenotemarginpar{%
  \ifhmode
    \@bsphack
    \@floatpenalty -\@Mii
  \else
    \@floatpenalty-\@Miii
  \fi
  \ifinner
    \@parmoderr
    \@floatpenalty\z@
  \else
    \@next\@currbox\@freelist{}{}%
    \@next\@marbox\@freelist{\global\count\@marbox\m@ne}%
       {\@floatpenalty\z@
        \@fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}%
  \fi
  \@ifnextchar [\@RTLbidituftesidenotexmpar\@RTLbidituftesidenoteympar}
\long\def\@RTLbidituftesidenotexmpar[#1]#2{%
  \@RTLbidituftesidenotesavemarbox\@marbox{#1}%
  \@RTLbidituftesidenotesavemarbox\@currbox{#2}%
  \@xympar}
\long\def\@RTLbidituftesidenoteympar#1{%
  \@RTLbidituftesidenotesavemarbox\@marbox{#1}%
  \global\setbox\@currbox\copy\@marbox
  \@xympar}
\long\def \@RTLbidituftesidenotesavemarbox #1#2{%
  \global\setbox #1%
    \color@vbox
      \vtop{%
        \hsize\marginparwidth
        \@parboxrestore
        \@RTLbidituftesidenotemarginparreset
        #2%
        \@minipagefalse
        \outer@nobreak
        }%
    \color@endbox
}
\def \@RTLbidituftesidenotemarginparreset {%
        \reset@font
        \normalsize
        \@minipagetrue
        \everypar{\@minipagefalse\everypar{}\beginR}%
}
```

```
\newcommand{\@bidituftesidenote@marginfont}{\normalfont\footnotesize}
\newcommand*{\@bidituftesidenote@sidenote@font}{\@bidituftesidenote@marginfont}
\newcommand*{\@bidituftesidenote@marginnote@font}{\@bidituftesidenote@marginfont}
\newcommand*{\@bidituftesidenote@citation@font}{\@bidituftesidenote@marginfont}
\newcommand*{\@bidituftеLTRsidenote@citation@font}{\@bidituftesidenote@marginfont}
\newcommand*{\setsidenotefont}[1]{\renewcommand*{\@bidituftesidenote@sidenote@font}{#1}}
\newcommand*{\setmarginnotefont}[1]{\renewcommand*{\@bidituftesidenote@marginnote@font}{#1}}
\newcommand*{\setcitationfont}[1]{\renewcommand*{\@bidituftesidenote@citation@font}{#1}}
\newcommand*{\setLTRcitationfont}[1]{\renewcommand*{\@bidituftеLTRsidenote@citation@font}{#1}}
\newcommand*{\@bidituftesidenote@sidenote@justification}{\@bidituftesidenote@justification@au
\newcommand*{\@bidituftesidenote@marginnote@justification}{\@bidituftesidenote@justification@
\newcommand*{\@bidituftesidenote@citation@justification}{\@bidituftesidenote@justification@au
\newcommand*{\@bidituftesidenote@justification@autodetect}{\justifying}%
\newcommand{\@bidituftesidenote@margin@par}{%
  \setlength{\RaggedRightParindent}{0.5pc}%
  \setlength{\JustifyingParindent}{0.5pc}%
  \setlength{\parindent}{0.5pc}%
  \setlength{\parskip}{0pt}%
}
%%
% Globally sets the length
\@ifundefined{gsetlength}{%
\newcommand*{\gsetlength}[2]{%
  \setlength{#1}{#2}%
  \global#1=#1\relax%
}%
}{}
%%
% Globally sets a boolean
\@ifundefined{gsetboolean}{%
\newcommand*{\gsetboolean}[2]{% based on code from ifthen pkg
  \lowercase{\def\@tempa{#2}}%
  \@ifundefined{@tempswa\@tempa}%
   {\PackageError{ifthen}{You can only set a boolean to `true' or `false'}\@ehc}%
    {\@ifundefined{#1\@tempa}%
      {\PackageError{ifthen}{Boolean #1 undefined}\@ehc}%
      {\global\csname#1\@tempa\endcsname}%
    }%
}%
}{}
%%
% A function that removes leading and trailling spaces from the supplied macro.
% Based on code written by Michael Downes (See ``Around the Bend'', #15.)
% Executing \@bidituftesidenote@trim@spaces\xyzzy will result in the contents of \xyzzy
% being trimmed of leading and trailing white space.
\catcode`\Q=3
\def\@bidituftesidenote@trim@spaces#1{%
  % Use grouping to emulate a multi-token afterassignment queue
  \begingroup%
  % Put `\toks 0 {' into the afterassignment queue
```

```
  \aftergroup\toks\aftergroup0\aftergroup{%
  % Apply \trimb to the replacement text of #1, adding a leading
  % \noexpand to prevent brace stripping and to serve another purpose
  % later.
  \expandafter\@bidituftesidenote@trim@b\expandafter\noexpand#1Q Q}%
  % Transfer the trimmed text back into #1.
  \edef#1{\the\toks0}%
}
% \trimb removes a trailing space if present, then calls \@bidituftesidenote@trim@c to
% clean up any leftover bizarre Qs, and trim a leading space. In
% order for \trimc to work properly we need to put back a Q first.
\def\@bidituftesidenote@trim@b#1 Q{\@bidituftesidenote@trim@c#1Q}
% Execute \vfuzz assignment to remove leading space; the \noexpand
% will now prevent unwanted expansion of a macro or other expandable
% token at the beginning of the trimmed text. The \endgroup will feed
% in the \aftergroup tokens after the \vfuzz assignment is completed.
\def\@bidituftesidenote@trim@c#1Q#2{\afterassignment\endgroup \vfuzz\the\vfuzz#1}
\catcode`\Q=11
%%
% Citations should go in the margin as sidenotes

\RequirePackage{natbib}
\RequirePackage{bibentry}      % allows bibitems to be typeset outside thebibliography environmer
% Redefine the \BR@b@bibitem command to fix a bug with bibentry+chicago style
\renewcommand\BR@b@bibitem[2][]{%
  \ifthenelse{\isempty{#1}}%
    {\BR@bibitem{#2}}%
    {\BR@bibitem[#1]{#2}}%
  \BR@c@bibitem{#2}%
}
\bidi@AtEndPreamble{\nobibliography*}           % pre-loads the bibliography keys
%%
% Normal \cite behavior
\newcounter{@bidituftesidenote@num@bibkeys}%
\newcommand{\@bidituftesidenote@normal@cite}[2][0pt]{%
  % Snag the last bibentry in the list for later comparison
  \let\@temp@last@bibkey\@empty%
  \@for\@temp@bibkey:=#2\do{\let\@temp@last@bibkey\@temp@bibkey}%
  \sidenote[][#1]{%
   % Loop through all the bibentries, separating them with semicolons and spaces
    \normalsize\normalfont\@bidituftesidenote@citation@font%
    \setcounter{@bidituftesidenote@num@bibkeys}{0}%
    \@for\@temp@bibkeyx:=#2\do{%
      \ifthenelse{\equal{\@temp@last@bibkey}{\@temp@bibkeyx}}%
     {\ifthenelse{\equal{\value{@bidituftesidenote@num@bibkeys}}{0}}{}{and\ }%
      \@bidituftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
         \bibentry{\@temp@bibkeyx}}%
     {\@bidituftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
         \bibentry{\@temp@bibkeyx};\ }%
      \stepcounter{@bidituftesidenote@num@bibkeys}%
```

```
    }%
  }%
}
\newcommand{\@bidituftеLTRsidenote@normal@cite}[2][0pt]{%
  % Snag the last bibentry in the list for later comparison
  \let\@temp@last@bibkey\@empty%
  \@for\@temp@bibkey:=#2\do{\let\@temp@last@bibkey\@temp@bibkey}%
  \LTRsidenote[][#1]{%
   % Loop through all the bibentries, separating them with semicolons and spaces
    \normalsize\normalfont\@bidituftеLTRsidenote@citation@font%
    \setcounter{@bidituftesidenote@num@bibkeys}{0}%
    \@for\@temp@bibkeyx:=#2\do{%
      \ifthenelse{\equal{\@temp@last@bibkey}{\@temp@bibkeyx}}%
     {\ifthenelse{\equal{\value{@bidituftesidenote@num@bibkeys}}{0}}{}{and\ }%
      \@bidituftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
         \bibentry{\@temp@bibkeyx}}%
     {\@bidituftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
         \bibentry{\@temp@bibkeyx};\ }%
      \stepcounter{@bidituftesidenote@num@bibkeys}%
    }%
  }%
}
\newcommand{\@bidituftеRTLsidenote@normal@cite}[2][0pt]{%
  % Snag the last bibentry in the list for later comparison
  \let\@temp@last@bibkey\@empty%
  \@for\@temp@bibkey:=#2\do{\let\@temp@last@bibkey\@temp@bibkey}%
  \RTLsidenote[][#1]{%
   % Loop through all the bibentries, separating them with semicolons and spaces
    \normalsize\normalfont\@bidituftesidenote@citation@font%
    \setcounter{@bidituftesidenote@num@bibkeys}{0}%
    \@for\@temp@bibkeyx:=#2\do{%
      \ifthenelse{\equal{\@temp@last@bibkey}{\@temp@bibkeyx}}%
     {\ifthenelse{\equal{\value{@bidituftesidenote@num@bibkeys}}{0}}{}{and\ }%
      \@bidituftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
         \bibentry{\@temp@bibkeyx}}%
     {\@bidituftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
         \bibentry{\@temp@bibkeyx};\ }%
      \stepcounter{@bidituftesidenote@num@bibkeys}%
    }%
  }%
}
%%
% Macros for holding the list of cite keys until after the \sidenote
\gdef\@bidituftesidenote@citations{}% list of cite keys
\newcommand\@bidituftesidenote@add@citation[1]{\relax% adds a new bibkey to the list of cite keys
  \ifx\@bidituftesidenote@citations\@empty\else
    \g@addto@macro\@bidituftesidenote@citations{,}% separate by commas
  \fi
  \g@addto@macro\@bidituftesidenote@citations{#1}
}
```

```
\newcommand{\@bidituftesidenote@print@citations}[1][0pt]{% puts the citations in a margin note
  % Snag the last bibentry in the list for later comparison
  \let\@temp@last@bibkey\@empty%
 \@for\@temp@bibkey:=\@bidituftesidenote@citations\do{\let\@temp@last@bibkey\@temp@bibkey}%
  \marginpar{%
    \hbox{}\vspace*{#1}%
    \@bidituftesidenote@citation@font%
    \@bidituftesidenote@citation@justification%
   \@bidituftesidenote@margin@par% use parindent and parskip settings for marginal text
    \vspace*{-1\baselineskip}%
   % Loop through all the bibentries, separating them with semicolons and spaces
    \setcounter{@bidituftesidenote@num@bibkeys}{0}%
    \@for\@temp@bibkeyx:=\@bidituftesidenote@citations\do{%
      \ifthenelse{\equal{\@temp@last@bibkey}{\@temp@bibkeyx}}%
     {\ifthenelse{\equal{\value{@bidituftesidenote@num@bibkeys}}{0}}{}{and\ }%
      \@bidituftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
         \bibentry{\@temp@bibkeyx}}%
     {\@bidituftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
         \bibentry{\@temp@bibkeyx};\ }%
      \stepcounter{@bidituftesidenote@num@bibkeys}%
    }%
  }%
}
%%
% \cite behavior when executed within a sidenote
\newcommand{\@bidituftesidenote@sidenote@citations}{}% contains list of \cites in sidenote
\newcommand{\@bidituftesidenote@infootnote@cite}[1]{%
  \@bidituftesidenote@add@citation{#1}
}
%%
% Set the default \cite style.  This is set and reset by the \sidenote command.
\let\cite\@bidituftesidenote@normal@cite
\let\LTRcite\@bidituftesidenote@normal@cite
\let\RTLcite\@bidituftesidenote@normal@cite
%%
% Transform existing \footnotes into \sidenotes
% Sidenote: ``Where God meant footnotes to go.'' ---bidituftesidenote
\RequirePackage{optparams}% for our new sidenote commands -- provides multiple optional arguments
\providecommand{\footnotelayout}{\@bidituftesidenote@sidenote@font\@bidituftesidenote@sidenot
\renewcommand{\footnotelayout}{\@bidituftesidenote@sidenote@font\@bidituftesidenote@sidenote@
% Override footmisc's definition to set the sidenote marks (numbers) inside the
% sidenote's text block.
\bidi@patch@AfterPackage{bidi}{\long\def\@makefntext#1{\@textsuperscript{\@bidituftesidenote@
% Set the in-text footnote mark in the same typeface as the body text itself.
\bidi@patch@AfterPackage{bidi}{\def\@makefnmark{\hbox{\@textsuperscript{\normalfont\footnotes
\providecommand*{\multiplefootnotemarker}{3sp}
\providecommand*{\multfootsep}{,}
\bidi@patch@AfterPackage{bidi}{%
\renewcommand{\@footnotemark}{%
  \leavevmode%
```

```
  \ifhmode%
    \edef\@x@sf{\the\spacefactor}%
    \@bidituftesidenote@check@multiple@sidenotes%
    \nobreak%
  \fi%
  \@makefnmark%
  \ifhmode\spacefactor\@x@sf\fi%
  \relax%
}%
}
\newcommand{\@bidituftesidenote@check@multiple@sidenotes}{%
  \ifdim\lastkern=\multiplefootnotemarker\relax%
    \edef\@x@sf{\the\spacefactor}%
    \unkern%
    \textsuperscript{\multfootsep}%
    \spacefactor\@x@sf\relax%
  \fi
}
\bidi@patch@AfterPackage{bidi}{%
\renewcommand\@footnotetext[2][Opt]{%
  \bidituftesidenotemarginpar{%
    \hbox{}\vspace*{#1}%
    \def\baselinestretch {\setspace@singlespace}%
    \reset@font\footnotesize%
   \@bidituftesidenote@margin@par% use parindent and parskip settings for marginal text
    \vspace*{-1\baselineskip}\noindent%
    \protected@edef\@currentlabel{%
       \csname p@footnote\endcsname\@thefnmark%
    }%
    \color@begingroup%
       \@makefntext{%
         \ignorespaces#2%
       }%
    \color@endgroup%
  }%
}%
\renewcommand\@LTRfootnotetext[2][Opt]{%
  \LTRbidituftesidenotemarginpar{%
    \hbox{}\vspace*{#1}%
    \def\baselinestretch {\setspace@singlespace}%
    \reset@font\footnotesize%
   \@bidituftesidenote@margin@par% use parindent and parskip settings for marginal text
    \vspace*{-1\baselineskip}\noindent%
    \protected@edef\@currentlabel{%
       \csname p@footnote\endcsname\@thefnmark%
    }%
    \color@begingroup%
       \@makefntext{%
         \ignorespaces#2%
       }%
```

```
    \color@endgroup%
  }%
}%
\renewcommand\@RTLfootnotetext[2][0pt]{%
  \RTLbidituftesidenotemarginpar{%
    \hbox{}\vspace*{#1}%
    \def\baselinestretch {\setspace@singlespace}%
    \reset@font\footnotesize%
   \@bidituftesidenote@margin@par% use parindent and parskip settings for marginal text
    \vspace*{-1\baselineskip}\noindent%
    \protected@edef\@currentlabel{%
       \csname p@footnote\endcsname\@thefnmark%
    }%
    \color@begingroup%
       \@makefntext{%
         \ignorespaces#2%
       }%
    \color@endgroup%
  }%
}%
}
%
% Define \sidenote command.  Can handle \cite.
\newlength{\@bidituftesidenote@sidenote@vertical@offset}
\setlength{\@bidituftesidenote@sidenote@vertical@offset}{0pt}
% #1 = footnote num, #2 = vertical offset, #3 = footnote text
\long\def\@bidituftesidenote@sidenote[#1][#2]#3{%
  \let\cite\@bidituftesidenote@infootnote@cite%  use the in-sidenote \cite command
  \gdef\@bidituftesidenote@citations{}%       clear out any old citations
  \ifthenelse{\NOT\isempty{#2}}{%
    \gsetlength{\@bidituftesidenote@sidenote@vertical@offset}{#2}%
  }{%
    \gsetlength{\@bidituftesidenote@sidenote@vertical@offset}{0pt}%
  }%
  \ifthenelse{\isempty{#1}}{%
    % no specific footnote number provided
    \stepcounter\@mpfn%
    \protected@xdef\@thefnmark{\thempfn}%
   \@footnotemark\@footnotetext[\@bidituftesidenote@sidenote@vertical@offset]{#3}%
  }{%
    % specific footnote number provided
    \begingroup%
      \csname c@\@mpfn\endcsname #1\relax%
      \unrestored@protected@xdef\@thefnmark{\thempfn}%
    \endgroup%
   \@footnotemark\@footnotetext[\@bidituftesidenote@sidenote@vertical@offset]{#3}%
  }%
  \@bidituftesidenote@print@citations%            print any citations
  \let\cite\@bidituftesidenote@normal@cite%     go back to using normal in-text \cite command
  \let\LTRcite\@bidituftelTRsidenote@normal@cite%     go back to using normal in-text \LTRcite co
```

```
  \let\RTLcite\@bidituftеRTLsidenote@normal@cite%     go back to using normal in-text \RTLcite co
  \unskip\ignorespaces%                remove extra white space
  \kern-\multiplefootnotemarker%     remove \kern left behind by sidenote
  \kern\multiplefootnotemarker\relax% add new \kern here to replace the one we yanked
}
\long\def\@LTRbidituftesidenote@sidenote[#1][#2]#3{%
  \let\cite\@bidituftesidenote@infootnote@cite%  use the in-sidenote \cite command
  \gdef\@bidituftesidenote@citations{}%        clear out any old citations
  \ifthenelse{\NOT\isempty{#2}}{%
    \gsetlength{\@bidituftesidenote@sidenote@vertical@offset}{#2}%
  }{%
    \gsetlength{\@bidituftesidenote@sidenote@vertical@offset}{0pt}%
  }%
  \ifthenelse{\isempty{#1}}{%
    % no specific footnote number provided
    \stepcounter\@mpfn%
    \protected@xdef\@thefnmark{\thempfn}%
   \@footnotemark\@LTRfootnotetext[\@bidituftesidenote@sidenote@vertical@offset]{#3}%
  }{%
    % specific footnote number provided
    \begingroup%
      \csname c@\@mpfn\endcsname #1\relax%
      \unrestored@protected@xdef\@thefnmark{\thempfn}%
    \endgroup%
   \@footnotemark\@LTRfootnotetext[\@bidituftesidenote@sidenote@vertical@offset]{#3}%
  }%
  \@bidituftesidenote@print@citations%             print any citations
  \let\cite\@bidituftesidenote@normal@cite%     go back to using normal in-text \cite command
  \let\LTRcite\@bidituftеLTRsidenote@normal@cite%     go back to using normal in-text \LTRcite co
  \let\RTLcite\@bidituftеRTLsidenote@normal@cite%     go back to using normal in-text \RTLcite co
  \unskip\ignorespaces%                remove extra white space
  \kern-\multiplefootnotemarker%     remove \kern left behind by sidenote
  \kern\multiplefootnotemarker\relax% add new \kern here to replace the one we yanked
}
\long\def\@RTLbidituftesidenote@sidenote[#1][#2]#3{%
  \let\cite\@bidituftesidenote@infootnote@cite%  use the in-sidenote \cite command
  \gdef\@bidituftesidenote@citations{}%        clear out any old citations
  \ifthenelse{\NOT\isempty{#2}}{%
    \gsetlength{\@bidituftesidenote@sidenote@vertical@offset}{#2}%
  }{%
    \gsetlength{\@bidituftesidenote@sidenote@vertical@offset}{0pt}%
  }%
  \ifthenelse{\isempty{#1}}{%
    % no specific footnote number provided
    \stepcounter\@mpfn%
    \protected@xdef\@thefnmark{\thempfn}%
   \@footnotemark\@RTLfootnotetext[\@bidituftesidenote@sidenote@vertical@offset]{#3}%
  }{%
    % specific footnote number provided
    \begingroup%
```

```
      \csname c@\@mpfn\endcsname #1\relax%
      \unrestored@protected@xdef\@thefnmark{\thempfn}%
    \endgroup%
   \@footnotemark\@RTLfootnotetext[\@bidituftesidenote@sidenote@vertical@offset]{#3}%
  }%
  \@bidituftesidenote@print@citations%             print any citations
 \let\cite\@bidituftesidenote@normal@cite%     go back to using normal in-text \cite command
 \let\LTRcite\@biditufteLTRsidenote@normal@cite%     go back to using normal in-text \LTRcite co
 \let\RTLcite\@biditufteRTLsidenote@normal@cite%     go back to using normal in-text \RTLcite co
  \unskip\ignorespaces%                remove extra white space
 \kern-\multiplefootnotemarker%     remove \kern left behind by sidenote
 \kern\multiplefootnotemarker\relax% add new \kern here to replace the one we yanked
}
\newcommand{\sidenote}{\optparams{\@bidituftesidenote@sidenote}{[][0pt]}}
\newcommand{\LTRsidenote}{\optparams{\@LTRbidituftesidenote@sidenote}{[][0pt]}}
\newcommand{\RTLsidenote}{\optparams{\@RTLbidituftesidenote@sidenote}{[][0pt]}}
\bidi@patch@AfterPackage{bidi}{%
\renewcommand{\footnote}{\optparams{\@bidituftesidenote@sidenote}{[][0pt]}}%
\renewcommand{\LTRfootnote}{\optparams{\@LTRbidituftesidenote@sidenote}{[][0pt]}}%
\renewcommand{\RTLfootnote}{\optparams{\@RTLbidituftesidenote@sidenote}{[][0pt]}}%
}
%%
% Sidenote without the footnote mark
\newcommand\marginnote[2][0pt]{%
 \let\cite\@bidituftesidenote@infootnote@cite%  use the in-sidenote \cite command
 \gdef\@bidituftesidenote@citations{}%        clear out any old citations
 \bidituftesidenotemarginpar{\hbox{}\vspace*{#1}\@bidituftesidenote@marginnote@font\@bidituft
  \@bidituftesidenote@print@citations%             print any citations
 \let\cite\@bidituftesidenote@normal@cite%     go back to using normal in-text \cite command
 \let\LTRcite\@biditufteLTRsidenote@normal@cite%     go back to using normal in-text \LTRcite co
 \let\RTLcite\@biditufteRTLsidenote@normal@cite%     go back to using normal in-text \RTLcite co
}
\newcommand\LTRmarginnote[2][0pt]{%
 \let\cite\@bidituftesidenote@infootnote@cite%  use the in-sidenote \cite command
 \gdef\@bidituftesidenote@citations{}%        clear out any old citations
 \LTRbidituftesidenotemarginpar{\hbox{}\vspace*{#1}\@bidituftesidenote@marginnote@font\@bidit
  \@bidituftesidenote@print@citations%             print any citations
 \let\cite\@bidituftesidenote@normal@cite%     go back to using normal in-text \cite command
 \let\LTRcite\@biditufteLTRsidenote@normal@cite%     go back to using normal in-text \LTRcite co
 \let\RTLcite\@biditufteRTLsidenote@normal@cite%     go back to using normal in-text \RTLcite co
}
\newcommand\RTLmarginnote[2][0pt]{%
 \let\cite\@bidituftesidenote@infootnote@cite%  use the in-sidenote \cite command
 \gdef\@bidituftesidenote@citations{}%        clear out any old citations
 \RTLbidituftesidenotemarginpar{\hbox{}\vspace*{#1}\@bidituftesidenote@marginnote@font\@bidit
  \@bidituftesidenote@print@citations%             print any citations
 \let\cite\@bidituftesidenote@normal@cite%     go back to using normal in-text \cite command
 \let\LTRcite\@biditufteLTRsidenote@normal@cite%     go back to using normal in-text \LTRcite co
 \let\RTLcite\@biditufteRTLsidenote@normal@cite%     go back to using normal in-text \RTLcite co
}
```

7.25 bidituftetoc.sty

```
\NeedsTeXFormat{LaTeX2e}
\ProvidesPackage{bidituftetoc}[2011/06/17 v0.1
bidi implementation of tufte toc]
\RequirePackage{titlesec,titletoc,xifthen,biditools}
\newcommand{\@bidituftetoc@pkgname}{bidituftetoc}
\newcommand{\bidituftetocError}[2]{\PackageError{\@bidituftetoc@pkgname}{#1}{#2}}
%%
% Turn off section numbering
\setcounter{secnumdepth}{-1}
\newboolean{@bidituftetoc@toc}
\setboolean{@bidituftetoc@toc}{true}
\DeclareOption{notoc}{\setboolean{@bidituftetoc@toc}{false}}
\DeclareOption{toc}{\setboolean{@bidituftetoc@toc}{true}}
\ProcessOptions
%%
% Make Tuftian-style section headings and TOC formatting
\bidi@patch@AfterPackage{bidi}{%
\titleformat{\chapter}%
  [display]% shape
 {\relax\ifthenelse{\NOT\boolean{@bidituftefloat@symmetric}}{\begin{fullwidth}}{}}% format app
  {\itshape\huge\thechapter}% label
  {0pt}% horizontal separation between label and title body
  {\huge\rmfamily\itshape}% before the title body
 [\ifthenelse{\NOT\boolean{@bidituftefloat@symmetric}}{\end{fullwidth}}{}]% after the title bo
\titleformat{\section}%
  [hang]% shape
  {\normalfont\Large\itshape}% format applied to label+text
  {\thesection}% label
  {1em}% horizontal separation between label and title body
  {}% before the title body
  []% after the title body
\titleformat{\subsection}%
  [hang]% shape
  {\normalfont\large\itshape}% format applied to label+text
  {\thesubsection}% label
  {1em}% horizontal separation between label and title body
  {}% before the title body
  []% after the title body
\titleformat{\paragraph}%
  [runin]% shape
  {\normalfont\itshape}% format applied to label+text
  {\theparagraph}% label
  {1em}% horizontal separation between label and title body
  {}% before the title body
  []% after the title body
\titlespacing*{\chapter}{0pt}{50pt}{40pt}
\titlespacing*{\section}{0pt}{3.5ex plus 1ex minus .2ex}{2.3ex plus .2ex}
\titlespacing*{\subsection}{0pt}{3.25ex plus 1ex minus .2ex}{1.5ex plus.2ex}
```

```
}
% Subsubsection and following section headings shouldn't be used.
% See Bringhurst's _The Elements of Typography_, section 4.2.2.
\renewcommand\subsubsection{%
  \bidituftetocError{\noexpand\subsubsection is undefined by this class.%
    \MessageBreak See Robert Bringhurst's _The Elements of
    \MessageBreak Typographic Style_, section 4.2.2.
    \MessageBreak \noexpand\subsubsection was used}
   {From Bringhurst's _The Elements of Typographic Style_, section 4.2.2: Use as
   \MessageBreak many levels of headings as you need, no more and no fewer.  Also see the many
   \MessageBreak related threads on Ask E.T. at http://www.edwardbidituftetoc.com/.}
}
\renewcommand\subparagraph{%
  \bidituftetocError{\noexpand\subparagraph is undefined by this class.%
    \MessageBreak See Robert Bringhurst's _The Elements of
    \MessageBreak Typographic Style_, section 4.2.2.
    \MessageBreak \noexpand\subparagraph was used}
   {From Bringhurst's _The Elements of Typographic Style_, section 4.2.2: Use as
   \MessageBreak many levels of headings as you need, no more and no fewer.  Also see the many
   \MessageBreak related threads on Ask E.T. at http://www.edwardbidituftetoc.com/.}
}
% Formatting for main TOC (printed in front matter)
% {section} [left] {above} {before w/label} {before w/o label} {filler + page} [after]
\ifthenelse{\boolean{@bidituftetoc@toc}}{%
 \bidi@patch@AfterPackage{bidi}{%
 \titlecontents{part}% FIXME
    [0em] % distance from left margin
   {\vspace{1.5\baselineskip}\begin{fullwidth}\LARGE\rmfamily\itshape} % above (global formatti
    {\contentslabel{2em}} % before w/label (label = ``II'')
    {} % before w/o label
   {\rmfamily\upshape\qquad\thecontentspage} % filler + page (leaders and page num)
    [\end{fullwidth}] % after
  \titlecontents{chapter}%
    [0em] % distance from left margin
   {\vspace{1.5\baselineskip}\begin{fullwidth}\LARGE\rmfamily\itshape} % above (global formatti
    {\hspace*{0em}\contentslabel{2em}} % before w/label (label = ``2'')
    {\hspace*{0em}} % before w/o label
   {\rmfamily\upshape\qquad\thecontentspage} % filler + page (leaders and page num)
    [\end{fullwidth}] % after
  \titlecontents{section}% FIXME
    [0em] % distance from left margin
   {\vspace{0\baselineskip}\begin{fullwidth}\Large\rmfamily\itshape} % above (global formatting
    {\hspace*{2em}\contentslabel{2em}} % before w/label (label = ``2.6'')
    {\hspace*{2em}} % before w/o label
   {\rmfamily\upshape\qquad\thecontentspage} % filler + page (leaders and page num)
    [\end{fullwidth}] % after
  \titlecontents{subsection}% FIXME
    [0em] % distance from left margin
   {\vspace{0\baselineskip}\begin{fullwidth}\large\rmfamily\itshape} % above (global formatting
   {\hspace*{4em}\contentslabel{4em}} % before w/label (label = ``2.6.1'')
```

```
    {\hspace*{4em}} % before w/o label
   {\rmfamily\upshape\qquad\thecontentspage} % filler + page (leaders and page num)
    [\end{fullwidth}] % after
  \titlecontents{paragraph}% FIXME
    [0em] % distance from left margin
   {\vspace{0\baselineskip}\begin{fullwidth}\normalsize\rmfamily\itshape} % above (global forma
   {\hspace*{6em}\contentslabel{2em}} % before w/label (label = ``2.6.0.0.1'')
    {\hspace*{6em}} % before w/o label
   {\rmfamily\upshape\qquad\thecontentspage} % filler + page (leaders and page num)
    [\end{fullwidth}] % after
}%
}{}
%%
% Format lists of figures/tables
\renewcommand\listoffigures{%
  \@ifundefined{chapter}%
    {\section*{\listfigurename}}%
    {\chapter*{\listfigurename}}%
%  \begin{fullwidth}%
    \@starttoc{lof}%
%  \end{fullwidth}%
}
\renewcommand\listoftables{%
  \@ifundefined{chapter}%
    {\section*{\listtablename}}%
    {\chapter*{\listtablename}}%
%  \begin{fullwidth}%
    \@starttoc{lot}%
%  \end{fullwidth}%
}
\newcommand{\@bidituftetoc@lof@line}[2]{%
  % #1 is the figure/table number and its caption text
  % #2 is the page number on which the figure/table appears
  \leftskip 0.0em
  \rightskip 0em
  \parfillskip 0em plus 1fil
  \parindent 0.0em
  \@afterindenttrue
  \interlinepenalty\@M
  \leavevmode
  \@tempdima 2.0em
 \if@RTL\advance\rightskip\@tempdima\else\advance\leftskip\@tempdima\fi
  \null\nobreak\hskip -\if@RTL\rightskip\else\leftskip\fi
  {#1}\nobreak\qquad\nobreak#2%
  \par%
}
\renewcommand*\l@figure{\@bidituftetoc@lof@line}
\let\l@table\l@figure
```

7.26 bidituftegeneralstructure.sty

```
\NeedsTeXFormat{LaTeX2e}
\ProvidesPackage{bidituftegeneralstructure}[2011/06/18 v0.1
bidi implementation of tufte general structure]
\renewcommand\small{%
   \@setfontsize\small\@ixpt{12}%
   \abovedisplayskip 8.5\p@ \@plus3\p@ \@minus4\p@
   \abovedisplayshortskip \z@ \@plus2\p@
   \belowdisplayshortskip 4\p@ \@plus2\p@ \@minus2\p@
   \def\@listi{\leftmargin\leftmargini
               \topsep 4\p@ \@plus2\p@ \@minus2\p@
               \parsep 2\p@ \@plus\p@ \@minus\p@
               \itemsep \parsep}%
   \belowdisplayskip \abovedisplayskip
}
\renewcommand\scriptsize{\@setfontsize\scriptsize\@viipt\@viiipt}
\renewcommand\tiny{\@setfontsize\tiny\@vpt\@vipt}
\renewcommand\large{\@setfontsize\large\@xipt{15}}
\renewcommand\Large{\@setfontsize\Large\@xiipt{16}}
\renewcommand\LARGE{\@setfontsize\LARGE\@xivpt{18}}
\renewcommand\huge{\@setfontsize\huge\@xxpt{30}}
\renewcommand\Huge{\@setfontsize\Huge{24}{36}}
\setlength\leftmargini   {1pc}
\setlength\leftmarginii  {1pc}
\setlength\leftmarginiii {1pc}
\setlength\leftmarginiv  {1pc}
\setlength\leftmarginv   {1pc}
\setlength\leftmarginvi  {1pc}
\setlength\labelsep      {.5pc}
\setlength\labelwidth    {\leftmargini}
\addtolength\labelwidth{-\labelsep}
\setlength{\parindent}{1.0pc}%
\setlength{\parskip}{0pt}%
\RequirePackage{ragged2e}
\setlength{\RaggedRightRightskip}{\z@ plus 0.08\hsize}
% Paragraph indentation and separation for normal text
\newcommand{\@bidituftegeneralstructure@reset@par}{%
  \setlength{\RaggedRightParindent}{1.0pc}%
  \setlength{\JustifyingParindent}{1.0pc}%
  \setlength{\parindent}{1pc}%
  \setlength{\parskip}{0pt}%
}
\@bidituftegeneralstructure@reset@par
% Require paralist package for tighter lists
\RequirePackage{paralist}
% Add rightmargin to compactenum
\def\@compactenum@{%
  \expandafter\list\csname label\@enumctr\endcsname{%
    \usecounter{\@enumctr}%
```

```
    \rightmargin=2em% added this
    \parsep\plparsep
    \itemsep\plitemsep
    \topsep\pltopsep
    \partopsep\plpartopsep
    \def\makelabel##1{\hss\llap{##1}}}}
%%
% An environment for paragraph-style section
\providecommand\newthought[1]{%
   \addvspace{1.0\baselineskip plus 0.5ex minus 0.2ex}%
   \noindent\textbf{#1}%
}
%%
% Redefine the display environments (quote, quotation, etc.)
\renewenvironment{verse}
               {\let\\\@centercr
                \list{}{\itemsep      \z@
                        \itemindent   -1pc%
                        \listparindent\itemindent
                        \rightmargin  \leftmargin
                        \advance\leftmargin 1pc}%
                \small%
                \item\relax}
               {\endlist}
\renewenvironment{quotation}
               {\list{}{\listparindent 1pc%
                        \itemindent    \listparindent
                        \rightmargin   \leftmargin
                        \parsep        \z@ \@plus\p@}%
                \small%
                \item\relax\noindent\ignorespaces}
               {\endlist}
\renewenvironment{quote}
               {\list{}{\rightmargin\leftmargin}%
                \small%
                \item\relax}
               {\endlist}
% Italicize description run-in headings (instead of the default bold)
\renewcommand*\descriptionlabel[1]{\hspace\labelsep\normalfont\em #1}
%%
% Redefine \bibsection to not mark the running heads.
% (Code modified from natbib.sty.)
\@ifundefined{chapter}%
  {\renewcommand\bibsection{\section*{\refname}}}
  {\@ifundefined{NAT@sectionbib}%
    {\renewcommand\bibsection{\chapter{\bibname}}}
    {\renewcommand\bibsection{\section*{\bibname}}}}
\RequirePackage{multicol}
\renewenvironment{theindex}{%
\@ifundefined{chapter}%
```

```
    {\section*{\indexname}}%
    {\chapter{\indexname}}%
  \begin{fullwidth}%
  \small%
  \parskip0pt%
  \parindent0pt%
  \let\item\@idxitem%
  \begin{multicols}{3}%
}{%
  \end{multicols}%
  \end{fullwidth}%
}
\AtBeginDocument{%
\renewcommand\@idxitem{\par\hangindent \if@RTL-\fi2em}%
\renewcommand\subitem{\par\hangindent \if@RTL-\fi3em\hspace*{1em}}%
\renewcommand\subsubitem{\par\hangindent \if@RTL-\fi4em\hspace*{2em}}}
\renewcommand\indexspace{\par\addvspace{1.0\baselineskip plus 0.5ex minus 0.2ex}\relax}%
\newcommand{\lettergroup}[1]{}% swallow the letter heading in the index
```

7.27 bidituftehyperref.sty

```
\NeedsTeXFormat{LaTeX2e}
\ProvidesPackage{bidituftehyperref}[2011/06/18 v0.1
bidi implementation of tufte hyperref]
%%
% Color
\RequirePackage[usenames,dvipsnames,svgnames]{xcolor}%
\newboolean{@bidituftehyperref@loadhyper}
\setboolean{@bidituftehyperref@loadhyper}{true}
\DeclareOption{hyper}{\setboolean{@bidituftehyperref@loadhyper}{true}}
\DeclareOption{nohyper}{\setboolean{@bidituftehyperref@loadhyper}{false}}
\ProcessOptions
%% Loads the hyperref package and sets some default options.
\newcommand{\bidituftehyperrefLoadHyperref}{%
\RequirePackage[hyperfootnotes=false,colorlinks=true]{hyperref}
  \hypersetup{%
    bookmarksdepth = section,
    citecolor = DarkGreen,
    linkcolor = DarkBlue,
%    pagecolor = DarkBlue,
    urlcolor = DarkGreen,
  }%
}
\ifthenelse{\boolean{@bidituftehyperref@loadhyper}}{%
  \bidituftehyperrefLoadHyperref%
}{% hyperfootnotes override our modifications to the \footnote* and \@footnote* commands.
  \PassOptionsToPackage{hyperfootnotes=false}{hyperref}
}
```

7.28 bidituftetitle.sty

```
\NeedsTeXFormat{LaTeX2e}
\ProvidesPackage{bidituftetitle}[2011/06/18 v0.1
bidi implementation of tufte title]
\RequirePackage{biditools}
%%
% `titlepage' option -- creates a full title page with \maketitle
\newboolean{@bidituftetitle@titlepage}
\DeclareOption{titlepage}{\setboolean{@bidituftetitle@titlepage}{true}}
\DeclareOption{notitlepage}{\setboolean{@bidituftetitle@titlepage}{false}}
% Default `book' and `handout' options
\@ifclassloaded{book}{%
\ExecuteOptions{titlepage}}{%
\@ifclassloaded{article}{%
\ExecuteOptions{notitlepage}}%
{}}
\ProcessOptions
%%
% Modified \title, \author, and \date commands.  These store the
% (footnote-less) values in \plaintitle, \plainauthor, and \thedate, respectively.
\newcommand{\plaintitle}{}%     plain-text-only title
\newcommand{\plainauthor}{}%    plain-text-only author
\newcommand{\plainpublisher}{}% plain-text-only publisher
\newcommand{\thanklesstitle}{}%     full title text minus \thanks{}
\newcommand{\thanklessauthor}{}%    full author text minus \thanks{}
\newcommand{\thanklesspublisher}{}% full publisher minus \thanks{}
\newcommand{\@publisher}{}% full publisher with \thanks{}
\newcommand{\thedate}{\today}
\bidi@patch@AfterPackage{bidi}{%
\renewcommand{\thanks}[1]{\footnote{#1}}
\renewcommand{\LTRthanks}[1]{\LTRfootnote{#1}}
\renewcommand{\RTLthanks}[1]{\RTLfootnote{#1}}
}
\renewcommand{\title}[2][]{%
  \gdef\@title{#2}%
  \begingroup%
    % TODO store contents of \thanks command
    \renewcommand{\thanks}[1]{}% swallow \thanks contents
    \renewcommand{\LTRthanks}[1]{}% swallow \LTRthanks contents
    \renewcommand{\RTLthanks}[1]{}% swallow \RTLthanks contents
    \protected@xdef\thanklesstitle{#2}%
  \endgroup%
  \ifthenelse{\isempty{#1}}%
    {\renewcommand{\plaintitle}{\thanklesstitle}}% use thankless title
    {\renewcommand{\plaintitle}{#1}}% use provided plain-text title
  \@ifundefined{hypersetup}%
    {}% hyperref is not loaded; do nothing
    {\hypersetup{pdftitle={\plaintitle}}}% set the PDF metadata title
}
\let\@author\@empty% suppress default latex.ltx ``no author'' warning
\renewcommand{\author}[2][]{%
```

```
  \ifthenelse{\isempty{#2}}{}{\gdef\@author{#2}}%
  \begingroup%
    % TODO store contents of \thanks command
    \renewcommand{\thanks}[1]{}% swallow \thanks contents
    \renewcommand{\LTRthanks}[1]{}% swallow \LTRthanks contents
    \renewcommand{\RTLthanks}[1]{}% swallow \RTLthanks contents
    \protected@xdef\thanklessauthor{#2}%
  \endgroup%
  \ifthenelse{\isempty{#1}}%
   {\renewcommand{\plainauthor}{\thanklessauthor}}% use thankless author
    {\renewcommand{\plainauthor}{#1}}% use provided plain-text author
  \@ifundefined{hypersetup}%
    {}% hyperref is not loaded; do nothing
   {\hypersetup{pdfauthor={\plainauthor}}}% set the PDF metadata author
}
\renewcommand{\date}[1]{%
  \gdef\@date{#1}%
  \begingroup%
    % TODO store contents of \thanks command
    \renewcommand{\thanks}[1]{}% swallow \thanks contents
    \renewcommand{\LTRthanks}[1]{}% swallow \LTRthanks contents
    \renewcommand{\RTLthanks}[1]{}% swallow \RTLthanks contents
    \protected@xdef\thedate{#1}%
  \endgroup%
}
%%
% Provides a \publisher command to set the publisher
\newcommand{\publisher}[2][]{%
  \gdef\@publisher{#2}%
  \begingroup%
    \renewcommand{\thanks}[1]{}% swallow \thanks contents
    \renewcommand{\LTRthanks}[1]{}% swallow \LTRthanks contents
    \renewcommand{\RTLthanks}[1]{}% swallow \RTLthanks contents
    \protected@xdef\thanklesspublisher{#2}%
  \endgroup%
  \ifthenelse{\isempty{#1}}
   {\renewcommand{\plainpublisher}{\thanklesspublisher}}% use thankless publisher
   {\renewcommand{\plainpublisher}{#1}}% use provided plain-text publisher
}
%%
% Produces a full title page
\newcommand{\maketitlepage}[0]{%
  \cleardoublepage%
  {%
  \bfseries%
  \begin{fullwidth}%
  \fontsize{18}{20}\selectfont\par\noindent\thanklessauthor%
  \vspace{11.5pc}%
  \fontsize{36}{40}\selectfont\par\noindent\thanklesstitle%
  \vfill%
```

```
  \fontsize{14}{16}\selectfont\par\noindent\thanklesspublisher%
  \end{fullwidth}%
  }
  \thispagestyle{empty}%
  \clearpage%
}
%%
% Title block
\bidi@AfterEndPreamble{%
\renewcommand{\maketitle}{%
  \newpage%
 \global\@topnum\z@% prevent floats from being placed at the top of the page
  \begingroup%
    \setlength{\parindent}{0pt}%
    \setlength{\parskip}{4pt}%
    \let\@@title\@empty%
    \let\@@author\@empty%
    \let\@@date\@empty%
      \gdef\@@title{\LARGE\itshape\@title\par}%
      \gdef\@@author{\Large\itshape\@author\par}%
      \gdef\@@date{\Large\itshape\@date\par}%
    \@@title%
    \@@author%
    \@@date%
  \endgroup%
  \thispagestyle{plain}% suppress the running head
}%
}
%%
% Title page (if the `titlepage' option was passed to the bidituftetitle-handout
% class.)
\bidi@AfterEndPreamble{%
\ifthenelse{\boolean{@bidituftetitle@titlepage}}
  {\renewcommand{\maketitle}{\maketitlepage}}
  {}
}
%%
% When \cleardoublepage is called, produce a blank (empty) page -- i.e.,
% without headers and footers
\def\cleardoublepage{\clearpage\if@twoside\ifodd\c@page\else
  \hbox{}
  %\vspace*{\fill}
  %\begin{center}
  %  This page intentionally contains only this sentence.
  %\end{center}
  %\vspace{\fill}
  \thispagestyle{empty}
  \newpage
  \if@twocolumn\hbox{}\newpage\fi\fi\fi}
```

7.29 bidituftе-handout.cls

```
\NeedsTeXFormat{LaTeX2e}[1994/06/01]
\ProvidesClass{bidituftе-handout}[2011/06/18 v0.1 bidituftе-handout class]
\DeclareOption*{\PassOptionsToClass{\CurrentOption}{article}}
\DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidituftefloat}}
\DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidituftetoc}}
\DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidituftehyperref}}
\DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidituftetitle}}
\ProcessOptions\relax
\LoadClass{article}
\RequirePackage{bidituftefloat}
\RequirePackage{bidituftesidenote}
\RequirePackage{bidituftetoc}
\RequirePackage{bidituftegeneralstructure}
\RequirePackage{bidituftehyperref}
\RequirePackage{bidituftetitle}
\renewenvironment{abstract}
  {\begin{quotation}}
  {\end{quotation}}
\AtBeginDocument{%
\IfFileExists{bidituftе-handout.cfg}
  {\input{bidituftе-handout.cfg}
  \ClassInfo{bidituftе-handout}{Loading bidituftе-handout configuration file \@gobble}}
  {}%
}
```

7.30 bidituftе-book.cls

```
\NeedsTeXFormat{LaTeX2e}[1994/06/01]
\ProvidesClass{bidituftе-book}[2011/06/18 v0.1 bidituftе-book class]
\DeclareOption*{\PassOptionsToClass{\CurrentOption}{book}}
\DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidituftefloat}}
\DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidituftetoc}}
\DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidituftehyperref}}
\DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidituftetitle}}
\ProcessOptions\relax
\LoadClass{book}
\RequirePackage{bidituftefloat}
\RequirePackage{bidituftesidenote}
\RequirePackage{bidituftetoc}
\RequirePackage{bidituftegeneralstructure}
\RequirePackage{bidituftehyperref}
\RequirePackage{bidituftetitle}
%%
% Set up any book-specific stuff now
%%
% The front matter in Tufte's /Beautiful Evidence/ contains everything up
% to the opening page of Chapter 1.  The running heads, when they appear,
% contain only the (arabic) page number in the outside corner.
%\newif\if@mainmatter \@mainmattertrue
```

```
\renewcommand\frontmatter{%
  \cleardoublepage%
  \@mainmatterfalse%
  \pagenumbering{arabic}%
  %\pagestyle{plain}%
  \fancyhf{}%
    \ifthenelse{\boolean{@bidituftefloat@twoside}}%
    {\fancyhead[LE,RO]{\thepage}}%
    {\fancyhead[RE,RO]{\thepage}}%
}
%%
% The main matter in Tufte's /Beautiful Evidence/ doesn't restart the page
% numbering---it continues where it left off in the front matter.
\renewcommand\mainmatter{%
  \cleardoublepage%
  \@mainmattertrue%
  \fancyhf{}%
  \ifthenelse{\boolean{@bidituftefloat@twoside}}%
      {\renewcommand{\chaptermark}[1]{\markboth{##1}{}}%
    \fancyhead[LE]{\thepage\quad\smallcaps{\newlinetospace{\plaintitle}}}% book title
    \fancyhead[RO]{\smallcaps{\newlinetospace{\leftmark}}\quad\thepage}}% chapter title
    {\fancyhead[RE,RO]{\smallcaps{\newlinetospace{\plaintitle}}\quad\thepage}}% book title
}
%%
% The back matter contains appendices, indices, glossaries, endnotes,
% biliographies, list of contributors, illustration credits, etc.
\renewcommand\backmatter{%
  \if@openright%
    \cleardoublepage%
  \else%
    \clearpage%
  \fi%
  \@mainmatterfalse%
}
%%
% Only show the chapter titles in the table of contents
\setcounter{tocdepth}{0}
\AtBeginDocument{%
\IfFileExists{biditufte-book.cfg}
  {\input{biditufte-book.cfg}
  \ClassInfo{biditufte-book}{Loading biditufte-book configuration file \@gobble}}
  {}%
}
```

7.31 bidipoem.sty

```
\NeedsTeXFormat{LaTeX2e}
\ProvidesPackage{bidipoem}%
[2014/04/27 v0.9 Environments for typesetting Persian traditional and modern poems]

```

```
% Usage:
%
% \Setversedim #1#2  % define the layout (within a group):
% #1 = length of both half-verses
% #2 = separation distance = length of a connection, if present
%  Variant:
% \Setversedim #1[#2]#3  % for half-verses of unequal length
% #1 = length of first (=right) half-verse
% #2 = length of second (=left) half-verse
% #3 = separation distance = length of a connection, if present
%
% \traditionalhalfverses #1#2 % typeset two separated half-verses
% #1 = text of first (=right) half-verse
% #2 = text of second (=left) half-verse
%  Variant:
% \traditionalhalfverses #1[#2]#3 % typeset two connected half-verses
% #1 = text of first (=right) half-verse
% #2 = text of connection
% #3 = text of second (=left) half-verse
%
% Alternative (if preferred):
%
% \traditionalconnverses #1#2#3 % = \traditionalhalfverses #1[#2]#3


\newcommand*{\bidipoem@spreadbox}[2]{\hbox to #1{#2}}

% define the layout, verses will be centered

\newdimen \bidipoem@hvlen \newdimen \bidipoem@hvsep
\newdimen \bidipoem@hvind \newdimen \bidipoem@@hvlen

\newcommand*{\Setversedim}[2]{% set lengths of half-verse, [separation]
\bidipoem@hvind \textwidth
\bidipoem@hvlen #1\relax \advance \bidipoem@hvind -\bidipoem@hvlen
\ifx [#2\def \bidipoem@next {\bidipoem@set@verseI [}\else
\bidipoem@@hvlen \bidipoem@hvlen \def \bidipoem@next {\bidipoem@set@@verse {#2}}\fi \bidipoem@n

\def \bidipoem@set@verseI [#1]{% optional parameter
\bidipoem@@hvlen #1\relax \bidipoem@set@@verse }

\newcommand*{\bidipoem@set@@verse}[1]{% separation
\advance \bidipoem@hvind -\bidipoem@@hvlen \bidipoem@hvsep #1\relax
\advance \bidipoem@hvind -\bidipoem@hvsep  \divide \bidipoem@hvind 2 }

\newcommand*{\traditionalconnverses}[3]{% first half-verse, connection, second half-verse
\ifdim 0pt > \bidipoem@hvind %
\bidipoem@spreadbox \bidipoem@hvlen {#1}\\ \hfill % first block
\else
\noindent \hskip \bidipoem@hvind \relax \bidipoem@spreadbox \bidipoem@hvlen {#1}\fi
```

```
\bidipoem@spreadbox \bidipoem@hvsep {#2}% separator
\bidipoem@spreadbox \bidipoem@@hvlen {#3}% second block
\par }

% macro for two half verses
\newcommand*{\traditionalhalfverses}[2]{% optional parameter?
\ifx [#2\def\bidipoem@half@verses@next{\bidipoem@half@verses {#1}[]%
\else\def\bidipoem@half@verses@next{\bidipoem@half@verses {#1}[\hfill]{#2}}\fi%
\bidipoem@half@verses@next}

\def \bidipoem@half@verses #1[#2]#3{% first[mid]second
\traditionalconnverses {#1}{#2}{#3}}


{\catcode`\^^M=\active % these lines must end with %
 \gdef\traditionalpoem@obeylines{\catcode`\^^M\active \let^^M\traditionalpoem@par}%
 \global\let^^M\traditionalpoem@par} % this is in case ^^M appears in a \write
{\catcode`\^^M=\active % these lines must end with %
 \gdef\modernpoem@obeylines{\catcode`\^^M\active \let^^M\modernpoem@par}%
 \global\let^^M\modernpoem@par} % this is in case ^^M appears in a \write
\def\poemcolsepskip{.1\versewidth plus .1\versewidth minus .05\versewidth}
\def\poemmarginskip{1em plus 1fil minus 1em}
\def\poemextrabaselineskip{0\baselineskip}
\def\poemskip{\medskip}
\newcommand{\bidipoem@openbox}{\leavevmode
  \hbox to.77778em{%
  \hfil\vrule
  \vbox to.675em{\hrule width.6em\vfil\hrule}%
  \vrule\hfil}}
\def\poemblocksep{\quad\hbox{\bidipoem@openbox}}
\newdimen\versewidth
\newtoks\bidipoem@p@ftn
\def\poem@verse#1{%
\ifdim\wd#1>\new@poem@width
\xdef\new@poem@width{\the\wd#1}%
\ifdim\new@poem@width>\poem@width
\xdef\poem@width{\new@poem@width}%
\global\let\poem@needrun\relax
\fi
\fi
\hbox to\poem@width{\unhbox#1}%
\global\bidipoem@p@ftn\expandafter{\expandafter}\the\bidipoem@p@ftn%
}
\def\poem@linebegin{\vadjust{}\hskip\@flushglue\hskip\poemmarginskip\relax}
\def\poem@lineend{\nobreak\hskip\poemmarginskip\hskip\@flushglue\vadjust{}}
\def\poem@lineversesep{%
\nobreak
\hskip\z@ plus 1filll%
\penalty600%
\hskip\poemcolsepskip
```

```
\hskip\z@ plus -2filll%
\vadjust{}%
\nobreak
\hskip\z@ plus 1filll%
}
\def\poem@lineparsebegin{%
\halign\bgroup
\global\setbox\verse@i=\hbox{%
\let\@footnotetext\bidipoem@p@ftntext%
\let\@LTRfootnotetext\bidipoem@p@LTRftntext%
\let\@RTLfootnotetext\bidipoem@p@RTLftntext%
\let\@xfootnotenext\bidipoem@p@xftntext%
\let\@xfootnote\bidipoem@p@xfootnote%
\let\@xLTRfootnotenext\bidipoem@p@xLTRftntext%
\let\@xLTRfootnote\bidipoem@p@xLTRfootnote%
\let\@xRTLfootnotenext\bidipoem@p@xRTLftntext%
\let\@xRTLfootnote\bidipoem@p@xRTLfootnote%
\ignorespaces##\unskip}&&
\global\setbox\verse@ii=\hbox{%
\let\@footnotetext\bidipoem@p@ftntext%
\let\@LTRfootnotetext\bidipoem@p@LTRftntext%
\let\@RTLfootnotetext\bidipoem@p@RTLftntext%
\let\@xfootnotenext\bidipoem@p@xftntext%
\let\@xfootnote\bidipoem@p@xfootnote%
\let\@xLTRfootnotenext\bidipoem@p@xLTRftntext%
\let\@xLTRfootnote\bidipoem@p@xLTRfootnote%
\let\@xRTLfootnotenext\bidipoem@p@xRTLftntext%
\let\@xRTLfootnote\bidipoem@p@xRTLfootnote%
\ignorespaces##\unskip}
\cr
}
\def\poem@lineparseend{%
\crcr\egroup
\vskip-\baselineskip
}
\def\traditionalpoem@cr{%
  \cr\poem@line
}
\newbox\verse@i
\newbox\verse@ii
\newif\ifpoem@started

\def\poem@line{%
\poem@lineparseend
\ifdim\wd\verse@i>\z@\global\poem@startedtrue\fi
\ifdim\wd\verse@ii>\z@\global\poem@startedtrue\fi
\ifpoem@started
  \ifdim\wd\verse@ii>\z@\else
  \nopagebreak[3]
  \fi
```

```
  \leavevmode
  \poem@linebegin
  \poem@verse\verse@i
  \ifdim\wd\verse@ii>\z@
  \poem@lineversesep
  \poem@verse\verse@ii
  \fi
  \poem@lineend
%  \nopagebreak
  \par
  \vskip\poemextrabaselineskip
\fi
\poem@lineparsebegin
}
\def\@traditionalpoem{%
\stepcounter{poem@no}
        \ifnum\max@poem@no<\number\c@poem@no%
\xdef\poem@width{\z@}%
        \else
\xdef\poem@width{\poem@prop{poem@width}}%
\fi
\xdef\new@poem@width{\z@}%
\global\versewidth=\poem@width
\poemskip\par
\begingroup
\tabskip=\z@
\parskip=\z@
\parindent=\z@
\parfillskip=\z@
\rightskip=\z@
\leftskip=\z@
\widowpenalty=10000% No break between verses of the same line.
\clubpenalty=10000% Same as above.  Not really needed.
\def\newblock{\hfil\poemblocksep\hfil\null}%
\def\traditionalpoem@par{\traditionalpoem@cr}% Redefine \par for possible \obeylines
\def\\{\global\poem@startedtrue\traditionalpoem@cr}%
\global\poem@startedfalse
\csname poem@obeylines\endcsname
\let\poem@obeylines\relax
\poem@lineparsebegin
}
\def\@endtraditionalpoem{%
\cr
\ifdim\wd\verse@i>\z@\poem@line\else\ifdim\wd\verse@ii>\z@\poem@line\else
\noalign{%
\skip0=\poemextrabaselineskip
\vskip-\skip0
\vskip-\baselineskip
}%
```

```
\fi\fi
\poem@lineparseend
\endgroup
\par
\vskip\baselineskip
\poemskip
  \if@noparlist \else
    \ifdim\lastskip >\z@
      \@tempskipa\lastskip \vskip -\lastskip
      \advance\@tempskipa\parskip \advance\@tempskipa -\@outerparskip
      \vskip\@tempskipa
    \fi
    \@endparenv
  \fi
\ifdim\new@poem@width<\poem@width
\global\let\poem@needrun\relax
\fi
     \poem@write@aux{poem@width@\romannumeral\c@poem@no}{\new@poem@width}%
\ifx\AtEndDocument\undefined\poem@finish\fi
}


\long\def\bidipoem@p@ftntext#1{%
 \edef\@tempx{\the\bidipoem@p@ftn\noexpand\footnotetext[\the\csname c@\@mpfn\endcsname]}%
  \global\bidipoem@p@ftn\expandafter{\@tempx{#1}}}%
\long\def\bidipoem@p@LTRftntext#1{%
 \edef\@tempxi{\the\bidipoem@p@ftn\noexpand\LTRfootnotetext[\the\csname c@\@mpfn\endcsname]}%
  \global\bidipoem@p@ftn\expandafter{\@tempxi{#1}}}%
\long\def\bidipoem@p@RTLftntext#1{%
 \edef\@tempxii{\the\bidipoem@p@ftn\noexpand\RTLfootnotetext[\the\csname c@\@mpfn\endcsname]}%
  \global\bidipoem@p@ftn\expandafter{\@tempxii{#1}}}%

\long\def\bidipoem@p@xftntext[#1]#2{%
 \global\bidipoem@p@ftn\expandafter{\the\bidipoem@p@ftn\footnotetext[#1]{#2}}}

\long\def\bidipoem@p@xLTRftntext[#1]#2{%
 \global\bidipoem@p@ftn\expandafter{\the\bidipoem@p@ftn\LTRfootnotetext[#1]{#2}}}

\long\def\bidipoem@p@xRTLftntext[#1]#2{%
 \global\bidipoem@p@ftn\expandafter{\the\bidipoem@p@ftn\RTLfootnotetext[#1]{#2}}}

\def\bidipoem@p@xfootnote[#1]{%
   \begingroup
     \csname c@\@mpfn\endcsname #1\relax
     \unrestored@protected@xdef\@thefnmark{\thempfn}%
   \endgroup
   \@footnotemark\bidipoem@p@xftntext[#1]}

\def\bidipoem@p@xLTRfootnote[#1]{%
   \begingroup
```

```
      \csname c@\@mpfn\endcsname #1\relax
      \unrestored@protected@xdef\@thefnmark{\thempfn}%
    \endgroup
    \@footnotemark\bidipoem@p@xLTRftntext[#1]}

\def\bidipoem@p@xRTLfootnote[#1]{%
    \begingroup
      \csname c@\@mpfn\endcsname #1\relax
      \unrestored@protected@xdef\@thefnmark{\thempfn}%
    \endgroup
    \@footnotemark\bidipoem@p@xRTLftntext[#1]}



\newenvironment{traditionalpoem}{\@traditionalpoem}{\@endtraditionalpoem}
\expandafter\def\csname traditionalpoem*\endcsname{\let\poem@obeylines=\traditionalpoem@obeyli
\expandafter\def\csname endtraditionalpoem*\endcsname{\endtraditionalpoem}
\def\poem@finish{%
\poem@write@aux{max@poem@no}{\number\c@poem@no}%
\ifx\poem@needrun\relax
\PackageWarning{bidipoem}{Unjustified poem.  Rerun XeLaTeX to get poem right}%
\global\let\poem@needrun\undefined
\fi
}
\ifx\AtEndDocument\undefined\else\AtEndDocument\poem@finish\fi
\newcounter{poem@no}\setcounter{poem@no}{\z@}
\ifx\max@poem@no\undefined
        \def\max@poem@no{0}%
\fi
\newcommand{\poem@prop}[1]{\@nameuse{#1@\romannumeral\c@poem@no}}
\newcommand{\poem@write@aux}[2]{%
     \def\@x{\immediate\write\@auxout{\global\noexpand\@namedef{#1}{#2}}}%
        \@x
}
\def\@modernpoem{%
\par
\begingroup
\parskip=\z@
\parindent=\z@
\def\[{\@settab\@tabplus\ignorespaces}%
\def\]{\@tabminus\ignorespaces}%
\def\newblock{\poemblocksep}%
\let\newpoem@tabcr\@tabcr
\def\modernpoem@par{% Redefine \par for possible \obeylines
  \ifpoem@started\else
    \ifdim\wd\@curline>\z@\global\poem@startedtrue\else
      \@stopfield
      \ifdim\wd\@curfield>\z@\global\poem@startedtrue\fi
      \@contfield
    \fi
```

```
  \fi
  \ifpoem@started\newpoem@tabcr\fi}%
\def\@tabcr{\global\poem@startedtrue\newpoem@tabcr}%
\global\poem@startedfalse
\csname poem@obeylines\endcsname
\let\poem@obeylines\relax
\begin{tabbing}%
}
\def\@endmodernpoem{%
\global\poem@startedfalse
\ifdim\wd\@curline>\z@\global\poem@startedtrue\else
  \@stopfield
  \ifdim\wd\@curfield>\z@\global\poem@startedtrue\fi
  \@contfield
\fi
\ifpoem@started\else\let\@stopline\@stopfield\fi
\end{tabbing}%
\endgroup
\par
  \if@noparlist \else
    \ifdim\lastskip >\z@
      \@tempskipa\lastskip \vskip -\lastskip
      \advance\@tempskipa\parskip \advance\@tempskipa -\@outerparskip
      \vskip\@tempskipa
    \fi
    \@endparenv
  \fi
}
\newenvironment{modernpoem}{\@modernpoem}{\@endmodernpoem}
\expandafter\def\csname modernpoem*\endcsname{\let\poem@obeylines=\modernpoem@obeylines\moderr
\expandafter\def\csname endmodernpoem*\endcsname{\endmodernpoem}
\gdef\@startfield{%
\global\setbox\@curfield\hbox\bgroup%
\let\@footnotetext\bidipoem@p@ftntext%
\let\@LTRfootnotetext\bidipoem@p@LTRftntext%
\let\@RTLfootnotetext\bidipoem@p@RTLftntext%
\let\@xfootnotenext\bidipoem@p@xftntext%
\let\@xfootnote\bidipoem@p@xfootnote%
\let\@xLTRfootnotenext\bidipoem@p@xLTRftntext%
\let\@xLTRfootnote\bidipoem@p@xLTRfootnote%
\let\@xRTLfootnotenext\bidipoem@p@xRTLftntext%
\let\@xRTLfootnote\bidipoem@p@xRTLfootnote%
\color@begingroup}
\gdef\@stopfield{%
 \color@endgroup\egroup\global\bidipoem@p@ftn\expandafter{\expandafter}\the\bidipoem@p@ftn}
\gdef\@contfield{%
\global\setbox\@curfield\hbox\bgroup%
\let\@footnotetext\bidipoem@p@ftntext%
\let\@LTRfootnotetext\bidipoem@p@LTRftntext%
\let\@RTLfootnotetext\bidipoem@p@RTLftntext%
```

```
\let\@xfootnotenext\bidipoem@p@xftntext%
\let\@xfootnote\bidipoem@p@xfootnote%
\let\@xLTRfootnotenext\bidipoem@p@xLTRftntext%
\let\@xLTRfootnote\bidipoem@p@xLTRfootnote%
\let\@xRTLfootnotenext\bidipoem@p@xRTLftntext%
\let\@xRTLfootnote\bidipoem@p@xRTLfootnote%
\color@begingroup\unhbox\@curfield}
```

7.32 boek3-xetex-bidi.def

```
\ProvidesFile{boek3-xetex-bidi.def}[2015/11/14 v0.3 bidi adaptations for boek3 class for XeTeX e
\renewenvironment{theindex}{%
  \if@twocolumn
    \@restonecolfalse
  \else
    \@restonecoltrue
  \fi
  \columnseprule \z@
  \columnsep 35\p@
  \twocolumn[\@makeschapterhead{\indexname}]%
  \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
  \thispagestyle{plain}\parindent\z@
  \parskip\z@ \@plus .3\p@\relax
  \let\item\@idxitem
  }{%
  \if@restonecol\onecolumn\else\clearpage\fi}
\renewcommand*\head@style{%
    \interlinepenalty \@M
    \hyphenpenalty=\@M \exhyphenpenalty=\@M
    \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
\renewcommand*\@regtocline[3]{%
  \ifnum #1>\c@tocdepth
  \else
    \vskip\z@\@plus.2\p@
    {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
     \if@RTL\rightskip\else\leftskip\fi\unitindent
     \if@RTL\leftskip\else\rightskip\fi\unitindent\@plus 1fil
     \parfillskip\z@
     \@tempdima\unitindent
     \parindent\z@
     \leavevmode
     \hbox{}\hskip -\if@RTL\rightskip\else\leftskip\fi\relax#2\nobreak
     \hskip 1em \nobreak{\slshape #3}\par
     }%
  \fi}
\if@oldtoc
\renewcommand*\l@part[2]{%
  \ifnum \c@tocdepth >-2\relax
    \addpenalty{-\@highpenalty}%
    \addvspace{2.25em \@plus\p@}%
```

```
    \begingroup
      \setlength\@tempdima{3em}%
      \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
      \parfillskip -\@pnumwidth
      {\leavevmode
        \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
        \nobreak
        \global\@nobreaktrue
        \everypar{\global\@nobreakfalse\everypar{}}%
    \endgroup
  \fi}
\else
   \renewcommand*\l@part{%
     \ifnum \c@tocdepth >-2\relax
     \addpenalty{-\@highpenalty}%
     \addvspace{2.25em \@plus \p@}%
     \@regtocline{0}%
   \fi}
\fi
\if@oldtoc
\renewcommand*\l@chapter[2]{%
    \addpenalty{-\@highpenalty}%
    \vskip 1.0em \@plus\p@
    \setlength\@tempdima{1.5em}%
    \begingroup
    \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
    \parfillskip -\@pnumwidth
    \leavevmode \bfseries
    \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
    \hskip -\if@RTL\rightskip\else\leftskip\fi
    #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
    \penalty\@highpenalty
   \endgroup}
\else
  \renewcommand*\l@chapter{\@regtocline{0}}
\fi
\renewenvironment{abstract}{%
      \titlepage
      \null\vfil
      \section*{\SectFont \abstractname}
      \noindent\ignorespaces}
     {\par\vfil\null\endtitlepage}
\renewenvironment{thebibliography}[1]
     {\chapter*{\bibname}%
       \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
    \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
      \list{\@biblabel{\@arabic\c@enumiv}}%
           {\settowidth\labelwidth{\@biblabel{#1}}%
            \leftmargin\labelwidth
            \advance\leftmargin\labelsep
```

```
            \@openbib@code
            \usecounter{enumiv}%
            \let\p@enumiv\@empty
            \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
      \sloppy\clubpenalty4000\widowpenalty4000%
      \sfcode`\.\@m}
     {\def\@noitemerr
       {\@latex@warning{Empty `thebibliography' environment}}%
      \endlist}
\renewcommand*\left@footnoterule{%
  \kern-3\p@
  \kern.5\baselineskip
  \hrule\@width\unitindent
  \kern.4\baselineskip
}
\renewcommand*\right@footnoterule{%
  \kern-3\p@
  \kern.5\baselineskip
  \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
  \kern.4\baselineskip}
\renewcommand*\thesection{\thechapter\@SepMark\@arabic\c@section}
\renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
\renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
\renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
\renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
\renewcommand*\theequation{%
  \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@equation}
\renewcommand*\thefigure{%
  \ifnum\c@chapter>\z@\thechapter\@SepMark\fi\@arabic\c@figure}
\renewcommand*\thetable{%
  \ifnum\c@chapter>\z@\thechapter\@SepMark\fi\@arabic\c@table}
\renewcommand*\maketitle{%
  \begin{titlepage}%
    \let\footnotesize\small
    \let\right@footnoterule\relax
    \let\left@footnoterule\relax
    \let\textwidth@footnoterule\relax
    \let \footnote \thanks
    \long\def\@makefntext##1{\parindent\z@
         \def\labelitemi{\textendash}\@revlabeltrue
         \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
    \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
    \if@compatibility\setcounter{page}{0}\fi
    \null\vfil
    \vskip 60\p@
    \begin{center}%
      \TitleFont
      {\LARGE \def\\{\penalty -\@M}
        \if@allcaps
          \expandafter\uc@nothanks\@title\thanks\relax
```

```
        \else
          \@title
        \fi\par}%
      \vskip 3em%
      {\large
        \lineskip .75em \parindent\z@
        \begin{tabular}[t]{c}%
          \if@allcaps
            \expandafter\uc@authornothanks\@author\and\relax
          \else
            \@author
          \fi
        \end{tabular}\par}%
      \vskip 1.5em%
      {\large
        \if@allcaps
          \uppercase\expandafter{\@date}%
        \else
          \@date
        \fi\par}%
      \end{center}\par
    \@thanks
    \vfil\null
  \end{titlepage}%
  \setcounter{footnote}{0}%
  \global\let\thanks\relax
  \global\let\maketitle\relax
  \global\let\@thanks\@empty
  \global\let\@author\@empty
  \global\let\@title\@empty
  \global\let\@date\@empty
  \global\let\title\relax
  \global\let\author\relax
  \global\let\date\relax
  \global\let\and\relax
}
```

7.33 boek-xetex-bidi.def

```
\ProvidesFile{boek-xetex-bidi.def}[2015/11/14 v0.3 bidi adaptations for boek class for XeTeX eng
\renewenvironment{theindex}{%
  \if@twocolumn
    \@restonecolfalse
  \else
    \@restonecoltrue
  \fi
  \columnseprule \z@
  \columnsep 35\p@
  \twocolumn[\@makeschapterhead{\indexname}]%
  \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
```

```
  \thispagestyle{plain}\parindent\z@
  \parskip\z@ \@plus .3\p@\relax
  \let\item\@idxitem
  }{%
  \if@restonecol\onecolumn\else\clearpage\fi}
\renewcommand*\head@style{%
    \interlinepenalty \@M
    \hyphenpenalty=\@M \exhyphenpenalty=\@M
    \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
\renewcommand*\@regtocline[3]{%
  \ifnum #1>\c@tocdepth
  \else
    \vskip\z@\@plus.2\p@
    {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
     \if@RTL\rightskip\else\leftskip\fi\unitindent
     \if@RTL\leftskip\else\rightskip\fi\unitindent\@plus 1fil
     \parfillskip\z@
     \@tempdima\unitindent
     \parindent\z@
     \leavevmode
     \hbox{}\hskip -\if@RTL\rightskip\else\leftskip\fi\relax#2\nobreak
     \hskip 1em \nobreak{\slshape #3}\par
     }%
  \fi}
\if@oldtoc
\renewcommand*\l@part[2]{%
  \ifnum \c@tocdepth >-2\relax
    \addpenalty{-\@highpenalty}%
    \addvspace{2.25em \@plus\p@}%
    \begingroup
      \setlength\@tempdima{3em}%
      \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
      \parfillskip -\@pnumwidth
      {\leavevmode
        \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
        \nobreak
        \global\@nobreaktrue
        \everypar{\global\@nobreakfalse\everypar{}}%
    \endgroup
  \fi}
\else
   \renewcommand*\l@part{%
     \ifnum \c@tocdepth >-2\relax
     \addpenalty{-\@highpenalty}%
     \addvspace{2.25em \@plus \p@}%
     \@regtocline{0}%
    \fi}
\fi
\if@oldtoc
\renewcommand*\l@chapter[2]{%
```

```
    \addpenalty{-\@highpenalty}%
    \vskip 1.0em \@plus\p@
    \setlength\@tempdima{1.5em}%
    \begingroup
    \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
    \parfillskip -\@pnumwidth
    \leavevmode \bfseries
    \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
    \hskip -\if@RTL\rightskip\else\leftskip\fi
    #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
    \penalty\@highpenalty
   \endgroup}
\else
  \renewcommand*\l@chapter{\@regtocline{0}}
\fi
\renewcommand*\left@footnoterule{%
  \kern-3\p@
  \kern.5\baselineskip
  \hrule\@width\unitindent
  \kern.4\baselineskip
}
\renewcommand*\right@footnoterule{%
  \kern-3\p@
  \kern.5\baselineskip
  \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
  \kern.4\baselineskip}
\renewenvironment{abstract}{%
      \titlepage
      \null\vfil
      \section*{\SectFont \abstractname}
      \noindent\ignorespaces}
     {\par\vfil\null\endtitlepage}
\renewenvironment{thebibliography}[1]
     {\chapter*{\bibname}%
       \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
    \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
      \list{\@biblabel{\@arabic\c@enumiv}}%
           {\settowidth\labelwidth{\@biblabel{#1}}%
            \leftmargin\labelwidth
            \advance\leftmargin\labelsep
            \@openbib@code
            \usecounter{enumiv}%
            \let\p@enumiv\@empty
            \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
      \sloppy\clubpenalty4000\widowpenalty4000%
      \sfcode`\.\@m}
     {\def\@noitemerr
       {\@latex@warning{Empty `thebibliography' environment}}%
      \endlist}
\renewcommand*\thesection{\thechapter\@SepMark\@arabic\c@section}
```

```
\renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
\renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
\renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
\renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
\renewcommand*\theequation{%
  \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@equation}
\renewcommand*\thefigure{%
  \ifnum\c@chapter>\z@\thechapter\@SepMark\fi\@arabic\c@figure}
\renewcommand*\thetable{%
  \ifnum\c@chapter>\z@\thechapter\@SepMark\fi\@arabic\c@table}
\renewcommand*\maketitle{%
  \begin{titlepage}%
    \let\footnotesize\small
    \let\right@footnoterule\relax
    \let\left@footnoterule\relax
    \let\textwidth@footnoterule\relax
    \let \footnote \thanks
    \long\def\@makefntext##1{\parindent\z@
         \def\labelitemi{\textendash}\@revlabeltrue
         \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
    \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
    \if@compatibility\setcounter{page}{0}\fi
    \null\vfil
    \vskip 60\p@
    \begin{center}%
      \TitleFont
      {\LARGE \def\\{\penalty -\@M}
        \if@allcaps
          \expandafter\uc@nothanks\@title\thanks\relax
        \else
          \@title
        \fi\par}%
      \vskip 3em%
      {\large
        \lineskip .75em \parindent\z@
        \begin{tabular}[t]{c}%
          \if@allcaps
            \expandafter\uc@authornothanks\@author\and\relax
          \else
            \@author
          \fi
        \end{tabular}\par}%
      \vskip 1.5em%
      {\large
        \if@allcaps
          \uppercase\expandafter{\@date}%
        \else
          \@date
        \fi\par}%
      \end{center}\par
```

```
    \@thanks
    \vfil\null
  \end{titlepage}%
  \setcounter{footnote}{0}%
  \global\let\thanks\relax
  \global\let\maketitle\relax
  \global\let\@thanks\@empty
  \global\let\@author\@empty
  \global\let\@title\@empty
  \global\let\@date\@empty
  \global\let\title\relax
  \global\let\author\relax
  \global\let\date\relax
  \global\let\and\relax
}
```

7.34 bookest-xetex-bidi.def

```
\ProvidesFile{bookest-xetex-bidi.def}[2010/07/25 v0.4 bidi adaptations for bookest class for XeT
\def\@makechapterhead#1{%
  \vspace*{20\p@}
  {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont
    \ifnum \c@secnumdepth >\m@ne
      \if@mainmatter
        {\colorA\huge\scshape \@chapapp\space \thechapter}
        \par\nobreak
        \vskip 10\p@
      \fi
    \fi
    \interlinepenalty\@M
  {\colorB\hrule}
  \vskip 15\p@
   \if@RTL\begin{flushleft}\else\begin{flushright}\fi
     {\colorA\Huge \bfseries #1}\par\nobreak
   \if@RTL\end{flushleft}\else\end{flushright}\fi
  \vskip 5\p@
  {\colorB\hrule}
  \vskip 30\p@
  }}
\def\@makeschapterhead#1{%
  \vspace*{20\p@}
  {\parindent \z@ \raggedright \normalfont
  {\colorB\hrule}
  \vskip 15\p@
   \begin{center}
     {\colorA\Huge \bfseries #1}\par\nobreak
   \end{center}
  \vskip 5\p@
  {\colorB\hrule}
  \vskip 30\p@
```

```
}}
```

7.35 book-xetex-bidi.def

```
\ProvidesFile{book-xetex-bidi.def}[2015/11/14 v0.9 bidi adaptations for standard book class for l
\renewenvironment{theindex}
               {\if@twocolumn
                  \@restonecolfalse
                \else
                  \@restonecoltrue
                \fi
                \columnseprule \z@
                \columnsep 35\p@
                \twocolumn[\@makeschapterhead{\indexname}]%
                \@mkboth{\MakeUppercase\indexname}%
                        {\MakeUppercase\indexname}%
                \thispagestyle{plain}\parindent\z@
                \parskip\z@ \@plus .3\p@\relax
                \let\item\@idxitem}
               {\if@restonecol\onecolumn\else\clearpage\fi}
\@ifclassloaded{bookest}{}{%
  \if@titlepage
  \renewcommand\maketitle{\begin{titlepage}%
  \let\footnotesize\small
  \let\right@footnoterule\relax
  \let\left@footnoterule\relax
  \let\textwidth@footnoterule\relax
  \let \footnote \thanks
  \let \LTRfootnote \LTRthanks
  \let \RTLfootnote \RTLthanks
  \null\vfil
  \vskip 60\p@
  \begin{center}%
    {\LARGE \@title \par}%
    \vskip 3em%
    {\large
     \lineskip .75em%
      \begin{tabular}[t]{c}%
        \@author
      \end{tabular}\par}%
      \vskip 1.5em%
    {\large \@date \par}%       % Set date in \large size.
  \end{center}\par
  \@thanks
  \vfil\null
  \end{titlepage}%
  \setcounter{footnote}{0}%
  \global\let\thanks\relax
  \global\let\LTRthanks\relax
  \global\let\RTLthanks\relax
```

```
  \global\let\maketitle\relax
  \global\let\@thanks\@empty
  \global\let\@author\@empty
  \global\let\@date\@empty
  \global\let\@title\@empty
  \global\let\title\relax
  \global\let\author\relax
  \global\let\date\relax
  \global\let\and\relax
}
\else
\renewcommand\maketitle{\par
  \begingroup
    \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
    \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
    \long\def\@makefntext##1{\parindent 1em\noindent
            \hb@xt@1.8em{%
                \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
    \if@twocolumn
      \ifnum \col@number=\@ne
        \@maketitle
      \else
        \twocolumn[\@maketitle]%
      \fi
    \else
      \newpage
      \global\@topnum\z@   % Prevents figures from going at top of page.
      \@maketitle
    \fi
    \thispagestyle{plain}\@thanks
  \endgroup
  \setcounter{footnote}{0}%
  \global\let\thanks\relax
  \global\let\LTRthanks\relax
  \global\let\RTLthanks\relax
  \global\let\maketitle\relax
  \global\let\@maketitle\relax
  \global\let\@thanks\@empty
  \global\let\@author\@empty
  \global\let\@date\@empty
  \global\let\@title\@empty
  \global\let\title\relax
  \global\let\author\relax
  \global\let\date\relax
  \global\let\and\relax
}
\def\@maketitle{%
  \newpage
  \null
  \vskip 2em%
```

```
  \begin{center}%
  \let \footnote \thanks
  \let \LTRfootnote \LTRthanks
  \let \RTLfootnote \RTLthanks
    {\LARGE \@title \par}%
    \vskip 1.5em%
    {\large
      \lineskip .5em%
      \begin{tabular}[t]{c}%
        \@author
      \end{tabular}\par}%
    \vskip 1em%
    {\large \@date}%
  \end{center}%
  \par
  \vskip 1.5em}
\fi}
\renewcommand*\l@part[2]{%
  \ifnum \c@tocdepth >-2\relax
    \addpenalty{-\@highpenalty}%
    \addvspace{2.25em \@plus\p@}%
    \setlength\@tempdima{3em}%
    \begingroup
      \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
      \parfillskip -\@pnumwidth
      {\leavevmode
       \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
       \nobreak
         \global\@nobreaktrue
         \everypar{\global\@nobreakfalse\everypar{}}%
    \endgroup
  \fi}
\renewcommand*\l@chapter[2]{%
  \ifnum \c@tocdepth >\m@ne
    \addpenalty{-\@highpenalty}%
    \vskip 1.0em \@plus\p@
    \setlength\@tempdima{1.5em}%
    \begingroup
      \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
      \parfillskip -\@pnumwidth
      \leavevmode \bfseries
      \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
      \hskip -\if@RTL\rightskip\else\leftskip\fi
      #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
      \penalty\@highpenalty
    \endgroup
  \fi}
\renewcommand\left@footnoterule{%
  \kern-3\p@
  \hrule\@width.4\columnwidth
```

```
  \kern2.6\p@}
\renewcommand\right@footnoterule{%
  \kern-3\p@
  \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
  \kern2.6\p@}
\renewcommand\theequation
  {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
\renewcommand \thefigure
     {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
\renewcommand \thetable
     {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
\renewcommand \thechapter {\@arabic\c@chapter}
\renewcommand \thesection {\thechapter\@SepMark\@arabic\c@section}
\renewcommand\thesubsection  {\thesection\@SepMark\@arabic\c@subsection}
\renewcommand\thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
\renewcommand\theparagraph   {\thesubsubsection\@SepMark\@arabic\c@paragraph}
\renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
\def\@makechapterhead#1{%
  \vspace*{50\p@}%
  {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont
    \ifnum \c@secnumdepth >\m@ne
      \if@mainmatter
        \huge\bfseries \@chapapp\space \thechapter
        \par\nobreak
        \vskip 20\p@
      \fi
    \fi
    \interlinepenalty\@M
    \Huge \bfseries #1\par\nobreak
    \vskip 40\p@
  }}
\def\@makeschapterhead#1{%
  \vspace*{50\p@}%
  {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
    \normalfont
    \interlinepenalty\@M
    \Huge \bfseries  #1\par\nobreak
    \vskip 40\p@
  }}
\renewcommand\backmatter{%
  \if@openright
    \cleardoublepage
  \else
    \clearpage
  \fi
  \@mainmatterfalse}
\renewenvironment{thebibliography}[1]
     {\chapter*{\bibname}%
      \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
    \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
```

```
      \list{\@biblabel{\@arabic\c@enumiv}}%
           {\settowidth\labelwidth{\@biblabel{#1}}%
            \leftmargin\labelwidth
            \advance\leftmargin\labelsep
            \@openbib@code
            \usecounter{enumiv}%
            \let\p@enumiv\@empty
            \renewcommand\theenumiv{\@arabic\c@enumiv}}%
      \sloppy
      \clubpenalty4000
      \@clubpenalty \clubpenalty
      \widowpenalty4000%
      \sfcode`\.\@m}
     {\def\@noitemerr
       {\@latex@warning{Empty `thebibliography' environment}}%
      \endlist}
```

7.36 breqn-xetex-bidi.def

```
\ProvidesFile{breqn-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for breqn package for XeTeX
\def\@dmath[#1]{\if@RTL\@RTLfalse\fi%
  \everydisplay\expandafter{\the\everydisplay \display@setup}%
  \if@noskipsec \leavevmode \fi
  \if@inlabel \leavevmode \global\@inlabelfalse \fi
  \if\eq@group\else\eq@prelim\fi
  \setkeys{breqn}{#1}%
  \the\eqstyle
  \eq@setnumber
  \begingroup
  \eq@setup@a
  \eq@startup
}
\def\@dgroup[#1]{\if@RTL\@RTLfalse\fi%
  \let\eq@group\@True \global\let\eq@GRP@first@dmath\@True
  \global\GRP@queue\@emptytoks \global\setbox\GRP@box\box\voidb@x
  \global\let\GRP@label\@empty
  \global\grp@wdL\z@\global\grp@wdR\z@\global\grp@wdT\z@
  \global\grp@linewidth\z@\global\grp@wdNum\z@
  \global\let\grp@eqs@numbered\@False
  \global\let\grp@aligned\@True
  \global\let\grp@shiftnumber\@False
  \eq@prelim
  \setkeys{breqn}{#1}%
  \if\grp@hasNumber \grp@setnumber \fi
}
\def\@dseries[#1]{\if@RTL\@RTLfalse\fi%
  \let\display@setup\dseries@display@setup
  % Question: should this be the default for dseries???
  \global\eq@wdCond\z@
  \@dmath[layout={M},#1]%
```

```
  \mathsurround\z@\@@math \penalty\@Mi
  \let\endmath\ends@math
  \def\premath{%
    \ifdim\lastskip<.3em \unskip
    \else\ifnum\lastpenalty<\@M \dquad\fi\fi
}%
 \def\postmath{\unpenalty\eq@addpunct \penalty\intermath@penalty \dquad \@ignoretrue}%
\ignorespaces
}
\def\eqnumform#1{\if@Latin\else\beginR\@RTLtrue\fi(#1\@@italiccorr)\if@Latin\else\endR\fi}
\renewenvironment{dsuspend}{%
 \global\setbox\EQ@box\vbox\bgroup\if@Latin\else\@RTLtrue\fi \@parboxrestore
    \parshape 1 \displayindent \displaywidth\relax
    \hsize=\columnwidth \noindent\ignorespaces
}{%
  \par\egroup
  \global\setbox\GRP@box\vbox{%
    \hbox{\copy\EQ@box\vtop{\unvbox\EQ@box}}%
    \unvbox\GRP@box
  }%
  \global\GRP@queue\@xp{\the\GRP@queue
     \@elt{\let\eq@isIntertext\@True}%
  }%
}
```

7.37 cals-xetex-bidi.def

```
\ProvidesFile{cals-xetex-bidi.def}[2013/05/28 v0.3 bidi adaptations for cals package for XeTeX e
\renewenvironment{calstable}[1][c]{%
\if@RTL\@RTLtabtrue\cals@activate@rtl\fi
  \if l#1%
   \if@RTLtab\leftskip\fill \rightskip\z@\else\leftskip\z@ \rightskip\fill\fi
  \else\if r#1%
   \if@RTLtab\leftskip\z@ \rightskip\fill\else\leftskip\fill \rightskip\z@\fi
  \else\if c#1%
    \leftskip\fill \rightskip\fill
  \fi\fi\fi
\let\cals@thead@tokens=\relax
\let\cals@tfoot@tokens=\relax
\let\cals@tbreak@tokens=\relax
\cals@tfoot@height=0pt \relax
\let\cals@last@context=n%
\let\cals@current@context=b%
\parindent=0pt %
\cals@setpadding{Ag}\cals@setcellprevdepth{Al}\cals@set@tohsize%
%% Alignment inside is independent on center/flushright outside
\parfillskip=0pt plus1fil\relax
\let\cals@borderL=\relax
\let\cals@borderR=\relax
\let\cals@borderT=\relax
```

```
\let\cals@borderB=\relax
}{% End of the table
\cals@tfoot@tokens\lastrule\@RTLtabfalse}

\renewcommand\alignL{%
\dimen0=\cals@paddingL \if@RTLtab\cals@paddingL=\dimen0 plus 1fill\else\cals@paddingL=\dimen0\
\dimen0=\cals@paddingR \cals@paddingR=\dimen0 \relax}

\renewcommand\alignR{%
\dimen0=\cals@paddingL \if@RTLtab\cals@paddingL=\dimen0\else\cals@paddingL=\dimen0 plus 1fill\
\dimen0=\cals@paddingR \cals@paddingR=\dimen0 \relax}
```

7.38 caption-xetex-bidi.def

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

7.39 caption3-xetex-bidi.def

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

7.40 colortbl-xetex-bidi.def

```
\ProvidesFile{colortbl-xetex-bidi.def}[2012/06/10 v0.2 bidi adaptations for colortbl package for
\def\CT@setup{%
  \@tempdimb\col@sep
  \@tempdimc\col@sep
  \def\CT@color{%
    \global\let\CT@do@color\CT@@do@color
    \bidicolor}}
\def\@classz{\@classx
   \@tempcnta \count@
   \prepnext@tok
\expandafter\CT@extract\the\toks\@tempcnta\columncolor!\@nil
   \@addtopreamble{\if@RTLtab\beginL\fi%
    \setbox\z@\hbox\bgroup\bgroup\if@RTLtab\beginR\fi
      \ifcase \@chnum
      \hskip\stretch{.5}\kern\z@
      \d@llarbegin
      \insert@column
      \d@llarend\hskip\stretch{.5}\or
      \d@llarbegin \insert@column \d@llarend \hfill \or
      \hfill\kern\z@ \d@llarbegin \insert@column \d@llarend \or
  $\vcenter
  \@startpbox{\@nextchar}\insert@column \@endpbox $\or
  \vtop \@startpbox{\@nextchar}\insert@column \@endpbox \or
  \vbox \@startpbox{\@nextchar}\insert@column \@endpbox
  \fi
 \if@RTLtab\endR\fi\egroup\egroup
\begingroup
```

```
  \CT@setup
  \CT@column@color
  \CT@row@color
  \CT@cell@color
  \CT@do@color
\endgroup
        \@tempdima\ht\z@
        \advance\@tempdima\minrowclearance
        \vrule\@height\@tempdima\@width\z@
        \unhbox\z@\if@RTLtab\endL\fi}%
  \prepnext@tok}
```

7.41 color-xetex-bidi.def

```
\ProvidesFile{color-xetex-bidi.def}[2013/04/08 v0.2 bidi adaptations for color package for XeTeX
\long\def\color@b@x#1#2#3{%
 \leavevmode\ifmmode\else\if@RTL\beginL\fi\fi
 \setbox\z@\hbox{\kern\fboxsep{\set@color\if@RTL\beginR\fi#3\if@RTL\endR\fi}\kern\fboxsep}%
 \dimen@\ht\z@\advance\dimen@\fboxsep\ht\z@\dimen@
 \dimen@\dp\z@\advance\dimen@\fboxsep\dp\z@\dimen@
 {#1{#2\color@block{\wd\z@}{\ht\z@}{\dp\z@}%
       \box\z@}}\ifmmode\else\if@RTL\endL\fi\fi}
\def\normalcolor{\let\current@color\default@color\ifhmode\if@RTL\beginL\aftergroup\endR\fi\fi
\DeclareRobustCommand\color{%
 \ifhmode\if@RTL\beginL\aftergroup\endR\fi\fi\@ifnextchar[\@undeclaredcolor\@declaredcolor}
\def\@declaredcolor#1{%
  \@ifundefined{\string\color @#1}%
    {\c@lor@error{`#1'}}%
    {\expandafter\let\expandafter\current@color
     \csname\string\color @#1\endcsname
     \set@color}%
  \ifhmode\if@RTL\beginR\aftergroup\endL\fi\fi\ignorespaces}
\def\@undeclaredcolor[#1]#2{%
  \@ifundefined{color@#1}%
    {\c@lor@error{model `#1'}}%
    {\csname color@#1\endcsname\current@color{#2}%
     \set@color}%
  \ifhmode\if@RTL\beginR\aftergroup\endL\fi\fi\ignorespaces}
\DeclareRobustCommand\bidicolor{%
  \@ifnextchar[\@bidiundeclaredcolor\@bidideclaredcolor}
\def\@bidiundeclaredcolor[#1]#2{%
  \@ifundefined{color@#1}%
    {\c@lor@error{model `#1'}}%
    {\csname color@#1\endcsname\current@color{#2}%
     \set@color}%
  \ignorespaces}
\def\@bidideclaredcolor#1{%
  \@ifundefined{\string\color @#1}%
    {\c@lor@error{`#1'}}%
    {\expandafter\let\expandafter\current@color
```

```
      \csname\string\color @#1\endcsname
      \set@color}%
  \ignorespaces}
\def\color@box#1#2{\color@b@x\relax{\bidicolor#1{#2}}}
\def\color@fbox#1#2#3{%
  \color@b@x{\fboxsep\z@\bidicolor#1{#2}\fbox}{\bidicolor#1{#3}}}
\def\color@setgroup{\begingroup\ifhmode\if@RTL\beginL\aftergroup\endR\fi\fi\set@color\ifhmode
```

7.42 combine-xetex-bidi.def

```
\ProvidesFile{combine-xetex-bidi.def}[2011/09/23 v0.1 bidi adaptations for combine class for XeT
\renewcommand{\c@ll@chapsecii}[2]{%
 \if@RTL\advance\rightskip\@tempdima\else\advance\leftskip\@tempdima\fi
 \if@RTL\hskip -\rightskip\else\hskip -\leftskip\fi
 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
}
\renewcommand{\c@ll@chapseci}{%
  \setlength\@tempdima{0em}%
  \begingroup
    \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
    \parfillskip -\@pnumwidth
    \leavevmode
}
\renewenvironment{tocindent}[1]{%
  \hangindent \if@RTL-\fi#1 \hangafter -100\relax}{}
```

7.43 crop-xetex-bidi.def

```
\ProvidesFile{crop-xetex-bidi.def}[2013/04/10 v0.2 bidi adaptations for crop package for XeTeX e
\renewcommand*\CROP@@ulc{%
   \if@RTLmain%
       \begin{picture}(0,0)
        \unitlength\p@\thinlines
        \put(-40,0){\circle{10}}
        \put(-30,-5){\line(0,1){10}}
        \put(-35,0){\line(1,0){30}}
        \put(-10,30){\circle{10}}
        \put(-5,30){\line(1,0){10}}
        \put(0,35){\line(0,-1){30}}
    \end{picture}%
   \else%
    \begin{picture}(0,0)
        \unitlength\p@\thinlines
        \put(-30,0){\circle{10}}
        \put(-30,-5){\line(0,1){10}}
        \put(-35,0){\line(1,0){30}}
        \put(0,30){\circle{10}}
        \put(-5,30){\line(1,0){10}}
        \put(0,35){\line(0,-1){30}}
    \end{picture}%
    \fi%
```

```
}
\renewcommand*\CROP@@urc{%
   \if@RTLmain%
       \begin{picture}(0,0)
        \unitlength\p@\thinlines
        \put(20,0){\circle{10}}
        \put(30,-5){\line(0,1){10}}
        \put(35,0){\line(-1,0){30}}
        \put(-10,30){\circle{10}}
        \put(-5,30){\line(1,0){10}}
        \put(0,35){\line(0,-1){30}}
    \end{picture}%
   \else%
    \begin{picture}(0,0)
        \unitlength\p@\thinlines
        \put(30,0){\circle{10}}
        \put(30,-5){\line(0,1){10}}
        \put(35,0){\line(-1,0){30}}
        \put(0,30){\circle{10}}
        \put(-5,30){\line(1,0){10}}
        \put(0,35){\line(0,-1){30}}
    \end{picture}%
    \fi%
}
\renewcommand*\CROP@@llc{%
   \if@RTLmain%
       \begin{picture}(0,0)
        \unitlength\p@\thinlines
        \put(-40,0){\circle{10}}
        \put(-30,-5){\line(0,1){10}}
        \put(-35,0){\line(1,0){30}}
        \put(-10,-30){\circle{10}}
        \put(-5,-30){\line(1,0){10}}
        \put(0,-35){\line(0,1){30}}
    \end{picture}%
   \else%
    \begin{picture}(0,0)
        \unitlength\p@\thinlines
        \put(-30,0){\circle{10}}
        \put(-30,-5){\line(0,1){10}}
        \put(-35,0){\line(1,0){30}}
        \put(0,-30){\circle{10}}
        \put(-5,-30){\line(1,0){10}}
        \put(0,-35){\line(0,1){30}}
    \end{picture}%
    \fi%
}
\renewcommand*\CROP@@lrc{%
    \if@RTLmain%
        \begin{picture}(0,0)
```

```
        \unitlength\p@\thinlines
        \put(20,0){\circle{10}}
        \put(30,-5){\line(0,1){10}}
        \put(35,0){\line(-1,0){30}}
        \put(-10,-30){\circle{10}}
        \put(-5,-30){\line(1,0){10}}
        \put(0,-35){\line(0,1){30}}
    \end{picture}%
    \else%
    \begin{picture}(0,0)
        \unitlength\p@\thinlines
        \put(30,0){\circle{10}}
        \put(30,-5){\line(0,1){10}}
        \put(35,0){\line(-1,0){30}}
        \put(0,-30){\circle{10}}
        \put(-5,-30){\line(1,0){10}}
        \put(0,-35){\line(0,1){30}}
    \end{picture}%
    \fi%
}
\@ifpackagewith{crop}{cam}{%
\CROP@execopt{cam}%
}{}
```

7.44 cutwin-xetex-bidi.def

```
\ProvidesFile{cutwin-xetex-bidi.def}[2011/11/12 v0.1 bidi adaptations for cutwin package for XeT
\renewcommand*{\c@twcompctr}[2]{%
  \def\c@twfirst{1}
  \loop\advance\c@twwinlines\m@ne
  \setbox\c@twslicea=\vsplit#1 to\baselineskip
  \setbox\c@twsliceb=\vsplit#1 to\baselineskip
  \c@twprune{\c@twslicea}{\c@twlftside}%
  \c@twprune{\c@twsliceb}{\c@twrtside}%
  \ifnum\c@twfirst=\@ne
    \setbox#2=\vbox{\unvbox#2\hbox
   to\hsize{\if@RTL\box\c@twsliceb\else\box\c@twslicea\fi\pageinwindow\hfil\if@RTL\box\c@twsli
  \else
    \setbox#2=\vbox{\unvbox#2\hbox
   to\hsize{\if@RTL\box\c@twsliceb\else\box\c@twslicea\fi\hfil\if@RTL\box\c@twslicea\else\box\
  \fi
  \def\c@twfirst{2}
  \ifnum\c@twwinlines>\z@\repeat}
\renewcommand*{\c@twcompoddctr}[2]{%
  \def\c@twrounds{1}
  \def\c@twfirst{1}
  \@for\c@twlspec:=\c@twb\do{%
    \ifnum\c@twrounds=1
      \setbox\c@twslicea=\vsplit#1 to\baselineskip % first of pair
      \c@twprune{\c@twslicea}{\c@twlspec}%
```

```
      \def\c@twrounds{2}
    \else
      \setbox\c@twsliceb=\vsplit#1 to\baselineskip % second of pair
      \c@twprune{\c@twsliceb}{\c@twlspec}%
      \ifnum\c@twfirst=1
        \setbox#2=\vbox{\unvbox#2\hbox
     to\hsize{\if@RTL\box\c@twsliceb\else\box\c@twslicea\fi\hfil\picinwindow\hfil\if@RTL\box\
        \def\c@twfirst{2}
      \else
        \setbox#2=\vbox{\unvbox#2\hbox
     to\hsize{\if@RTL\box\c@twsliceb\else\box\c@twslicea\fi\hfil\if@RTL\box\c@twslicea\else\b
      \fi
      \def\c@twrounds{1}
    \fi}}
```

7.45 cuted-xetex-bidi.def

```
\ProvidesFile{cuted-xetex-bidi.def}[2013/04/10 v0.3 bidi adaptations for cuted package for XeTeX
\def\RTL@outputdblcol{%
\if@firstcolumn \global\@firstcolumnfalse
\global\setbox\@leftcolumn \box\@outputbox
 \else
  \global\@firstcolumntrue
\setbox\@outputbox \vbox {\hbox to\textwidth {%
\hskip \columnwidth
\hfil \vrule width\columnseprule \hfil
\hbox to\columnwidth {\box\@leftcolumn \hss}%
\hskip -\textwidth
\hbox to\columnwidth{\box\@outputbox \hss}%
\hskip \columnsep
\hskip \columnwidth }}%
    \ifvoid\hold@viper
    \else
      \setbox\@outputbox \vbox to\textheight{%
                            \box\hold@viper
                            \box\@outputbox
                            \vss
                            }%
    \fi
\@combinedblfloats \@outputpage
\begingroup \@dblfloatplacement \@startdblcolumn
\@whilesw\if@fcolmade \fi
{\@outputpage \@startdblcolumn }%
      \ifvoid\@viper
      \else
        \global\setbox\@viper\vbox{%
                  \vskip-\stripsep
                  \unvbox\@viper
                  }%
        \@viperoutput
```

```
      \fi
\endgroup
\fi}
\def\LTR@outputdblcol{%
  \if@firstcolumn
    \global \@firstcolumnfalse
    \global \setbox\@leftcolumn \box\@outputbox
 \else
  \global\@firstcolumntrue
    \setbox\@outputbox \vbox {%
                          \hb@xt@\textwidth {%
                            \hb@xt@\columnwidth {%
                              \box\@leftcolumn \hss}%
                            \hfil
                            \vrule \@width\columnseprule
                            \hfil
                            \hb@xt@\columnwidth {%
                              \box\@outputbox \hss}%
                                            }%
                             }%
    \ifvoid\hold@viper
    \else
      \setbox\@outputbox \vbox to\textheight{%
                              \box\hold@viper
                              \box\@outputbox
                              \vss
                              }%
    \fi
    \@combinedblfloats
    \@outputpage
    \begingroup
      \@dblfloatplacement
      \@startdblcolumn
      \@whilesw\if@fcolmade \fi
        {\@outputpage
         \@startdblcolumn}%
      \ifvoid\@viper
      \else
        \global\setbox\@viper\vbox{%
                   \vskip-\stripsep
                   \unvbox\@viper
                   }%
        \@viperoutput
      \fi
    \endgroup
  \fi
  }
\def \@addviper {%
   \if@firstcolumn
     \@insertfalse
```

```
    \@reqcolroom .5\@pageht
    \ht@viper\@reqcolroom
    \advance \@reqcolroom \ht\@viper
    \advance \@reqcolroom \stripsep
    \ifvoid\hold@viper\@tempdima=\z@\else\@tempdima\ht\hold@viper\fi
%%
    \@tempdimb \ht@viper
    \loop
    \setbox\v@aaa\copy\@holdpg
    \setbox\v@ccc\vbox to\@tempdimb{%
            \vsplit\v@aaa to\@tempdimb\vss\vsplit\v@aaa to\@tempdimb}%
    \wlog{Extra height:\the\ht\v@aaa\space when \the\@tempdimb}%
    \ifvoid\v@aaa \else \advance\@tempdimb 1pt \repeat
    \loop
    \setbox\v@aaa\copy\@holdpg
    \setbox\v@ccc\vbox to\@tempdimb{%
              \vsplit\v@aaa to\@tempdimb\vss}%
  \wlog{(2)Left:\the\ht\v@ccc\space Right:\the\ht\v@aaa\space Output:\the\@tempdimb}%
    \ifdim \ht\v@ccc<\ht\v@aaa \@tempdimb \the\ht\v@aaa \repeat
  \wlog{- LAST -^^JLeft:\the\ht\v@ccc^^JRight:\the\ht\v@aaa^^JOutput:\the\@tempdimb}%
    \setbox\v@ccc\vbox to\@tempdimb{%
              \vsplit\@holdpg to\@tempdimb\vss}%
%%
    \setbox\@tempboxa \vbox {%
       \hb@xt@\textwidth {%
         \if@RTLmain%
         \hskip \columnwidth
          \hfil \vrule width\columnseprule \hfil
           \hb@xt@\columnwidth {%
                  \vbox to\ht@viper{\box\v@ccc\vss} \hss}%
            \hskip -\textwidth
            \hb@xt@\columnwidth {%
                  \vbox to\ht@viper{\box\@holdpg\vss} \hss}%
             \hskip \columnsep
             \hskip \columnwidth
              \else%
               \hb@xt@\columnwidth {%
                   \vbox to\ht@viper{\box\v@ccc\vss} \hss}%
                   \hfil
                   \vrule \@width\columnseprule
                   \hfil
                   \hb@xt@\columnwidth {%
                   \vbox to\ht@viper{\box\@holdpg\vss} \hss}%
                         \fi}%
                      }%
    \ifvoid\hold@viper
       \global\setbox\hold@viper \vbox {%
               \unvbox\@tempboxa
               \penalty\interlinepenalty
               \vskip\stripsep
```

```
6781                \ifnum\outputpenalty <-\@Mii \vskip -\parskip\fi
6782                \outputpenalty \z@
6783                        }%
6784     \else
6785        \global\setbox\hold@viper \vbox {%
6786                \unvbox\hold@viper
6787                \unvbox\@tempboxa
6788                \penalty\interlinepenalty
6789                \vskip\stripsep
6790                \ifnum\outputpenalty <-\@Mii \vskip -\parskip\fi
6791                \outputpenalty \z@
6792                        }%
6793     \fi
6794     \ifdim \@colroom>\@reqcolroom
6795        \global\setbox\hold@viper \vbox {%
6796                \unvbox\hold@viper
6797                \box\@viper
6798                \penalty\interlinepenalty
6799                \vskip\stripsep
6800                \ifnum\outputpenalty <-\@Mii \vskip -\parskip\fi
6801                \outputpenalty \z@
6802                        }%
6803        \@inserttrue
6804        \advance\@tempdima by-\ht\hold@viper
6805        \global \advance \@colht \@tempdima
6806        \ifdim \@colht<2.5\baselineskip
6807       \@latex@warning@no@line {Optional argument of \noexpand\twocolumn
6808                too tall on page \thepage (1 stulpelis)}%
6809           \@emptycol
6810           \if@firstcolumn
6811           \else
6812             \@emptycol
6813           \fi
6814           \global\@lastvipertrue
6815        \else
6816           \global \vsize \@colht
6817           \global \@colroom \@colht
6818           \check@floats
6819           \ifdim\@tempdima>\z@
6820                   \global\advance\@colroom by-\@tempdima
6821           \fi
6822           \ifdim\@colroom<\z@
6823                   \global\@colroom 1pt
6824                   \ifdim\@tempdima>\@colht
6825                      \@latex@warning@no@line {TOP ir/ar BOT FLOAT's
6826                                netelpa lape \thepage (1 stulpelis)}%
6827                   \fi
6828                   \@emptycol
6829                   \if@firstcolumn
6830                   \else
```

```
                    \@emptycol
                  \fi
                  \global\@lastvipertrue
          \fi
        \fi
    \fi
  \else
    \@insertfalse
    \@reqcolroom\@colht
    \advance\@reqcolroom \@pageht
    \ht@viper.5\@reqcolroom
    \@reqcolroom\ht@viper
    \advance \@reqcolroom \ht\@viper
    \advance \@reqcolroom \stripsep
     \if@flushend@auto@baselineskip
       \setbox\@tempboxa\vbox{\unvcopy\@leftcolumn
         \global\lastskip@d\lastskip
         \global\lastskip@b\lastskip
         \loop
           \global\lastskip@a\lastskip@b
           \unskip\unpenalty
           \global\lastskip@b\lastskip
           \global\advance\lastskip@d by\lastskip
         \ifdim\lastskip@b=-\lastskip@a
           \global\advance\lastskip@d by-\lastskip
         \else
         \repeat
         \ifdim\lastskip@b=-\lastskip@a
           \ifdim\lastskip@b=\z@
             \setbox\lastbox@a\lastbox
             \global\advance\lastskip@d by\ht\lastbox@a
             \global\advance\lastskip@d by\lastskip
             \unskip\unpenalty
             \setbox\lastbox@a\lastbox
             \global\advance\lastskip@d by\dp\lastbox@a
           \else
             \global\lastskip@d\lastskip
             \global\advance\lastskip@d by\topskip
           \fi
         \fi
         \global\advance\lastskip@d by-\topskip
         }%
      \ifdim\ht\@holdpg>\@colht
      \global\setbox\@holdpg\vbox{\unvbox\@leftcolumn\unskip\unpenalty
          \par\eject
          \vbox to \@colht{\unvbox\@holdpg\unskip}%
          }%
      \else
        \global\setbox\@holdpg\vbox{%
          \unvbox\@leftcolumn\unskip\unpenalty
```

```
          \vskip\lastskip@d
          \the\At@ViperColsBreak
          \unvbox\@holdpg
          \unskip
          }%
      \fi
    \else
      \global\setbox\@holdpg\vbox{%
               \unvbox\@leftcolumn
               \setbox\@tempboxa\lastbox
               \on@stripcols@break
               \the\At@ViperColsBreak
               \unvbox\@holdpg
               }%
    \fi
    \global\At@ViperColsBreak{}%
    \ht@viper .5\ht\@holdpg
    \ifdim \ht@viper>\@colht
       \ht@viper \@colht
    \fi
    \ifvoid\hold@viper\@tempdima=\z@\else\@tempdima\ht\hold@viper\fi
%%
    \@tempdimb \ht@viper
    \loop
      \setbox\v@aaa\copy\@holdpg
      \setbox\v@ccc\vbox to\@tempdimb{%
               \vsplit\v@aaa to\@tempdimb
               \vss
               \vsplit\v@aaa to\@tempdimb
               }%
      \wlog{Extra height:\the\ht\v@aaa\space when \the\@tempdimb}%
    \ifvoid\v@aaa
    \else
      \advance\@tempdimb 1\p@
    \repeat
    \loop
      \setbox\v@aaa\copy\@holdpg
      \setbox\v@ccc\vbox to\@tempdimb{\vsplit\v@aaa to\@tempdimb\vss}%
      \wlog{(2)Left:\the\ht\v@ccc\space
              Right:\the\ht\v@aaa\space
             Output:\the\@tempdimb
           }%
    \ifdim\ht\v@ccc<\ht\v@aaa
      \@tempdimb \the\ht\v@aaa
    \repeat
    \wlog{- LAST -^^JLeft:\the\ht\v@ccc
                 ^^JRight:\the\ht\v@aaa
                ^^JOutput:\the\@tempdimb
         }%
    \setbox\v@ccc\vbox to\@tempdimb{\vsplit\@holdpg to\@tempdimb\vss}%
```

```
\setbox\@tempboxa\vbox{%
   \hb@xt@\textwidth {%
      \hb@xt@\columnwidth{\vbox to\ht@viper{\box\v@ccc\vss} \hss}%
       \hfil
       \vrule \@width\columnseprule
       \hfil
    \hb@xt@\columnwidth {\vbox to\ht@viper{\box\@holdpg\vss} \hss}%
       }%
   }%
\ifvoid\hold@viper
   \global\setbox\hold@viper \vbox {%
           \unvbox\@tempboxa
           \penalty\interlinepenalty
           \vskip\stripsep
           \ifnum\outputpenalty <-\@Mii \vskip -\parskip\fi
           \outputpenalty \z@
                   }%
\else
   \global\setbox\hold@viper \vbox {%
           \unvbox\hold@viper
           \unvbox\@tempboxa
           \penalty\interlinepenalty
           \vskip\stripsep
           \ifnum\outputpenalty <-\@Mii \vskip -\parskip\fi
           \outputpenalty \z@
                   }%
\fi
\ifdim \@colht>\@reqcolroom
   \global\setbox\hold@viper \vbox {%
           \unvbox\hold@viper
           \box\@viper
           \penalty\interlinepenalty
           \vskip\stripsep
           \ifnum\outputpenalty <-\@Mii \vskip -\parskip\fi
           \outputpenalty \z@
                   }%
   \@inserttrue
   \global\@firstcolumntrue
   \advance\@tempdima by-\ht\hold@viper
   \global \advance \@colht \@tempdima
   \ifdim \@colht<2.5\baselineskip
   \@latex@warning@no@line {Optional argument of \noexpand\twocolumn
                            too tall on page \thepage (2 stulpelis)}%
       \@emptycol
       \if@firstcolumn
       \else
           \@emptycol
       \fi
       \global\@lastvipertrue
   \else
```

```
            \global \vsize \@colht
            \global \@colroom \@colht
            \check@floats
            \ifdim\@tempdima>\z@
                \global\advance\@colroom by-\@tempdima
            \fi
            \ifdim\@colroom<\z@
                \global\@colroom 1pt
                \ifdim\@tempdima>\@colht
                \@latex@warning@no@line {TOP ir/ar BOT FLOAT's
                                netelpa lape \thepage (2 stulpelis)}%
                \fi
                \@emptycol
                \if@firstcolumn
                \else
                    \@emptycol
                \fi
                \global\@lastvipertrue
            \fi
        \fi
    \fi
\fi
\if@insert
\else
    \advance\@tempdima by-\ht\hold@viper
    \global \advance \@colht \@tempdima
    \global\setbox\hold@viper \vbox {%
                                      \unvbox\hold@viper
                                      \csname viper@top@hook\endcsname
                                      \vsplit\@viper to \@colht
                                      \vss
                                     }%
    \vbox{}%
    \global\@firstcolumnfalse
    \newpage
\fi
}
```

7.46 cvthemebidicasual.sty

```
\NeedsTeXFormat{LaTeX2e}
\ProvidesPackage{cvthemebidicasual}
\DeclareOption{blue}{}
\newif\if@colourorange\@colourorangefalse
\DeclareOption{orange}{\@colourorangetrue}
\newif\if@colourgreen\@colourgreenfalse
\DeclareOption{green}{\@colourgreentrue}
\newif\if@colourred\@colourredfalse
\DeclareOption{red}{\@colourredtrue}
\newif\if@colourgrey\@colourgreyfalse
```

```
\DeclareOption{grey}{\@colourgreytrue}
\DeclareOption*{
  \PackageWarning{cvthemebidicasual}{Unknown option `\CurrentOption'}}
\ExecuteOptions{colour}
\ProcessOptions\relax
\renewcommand*{\listitemsymbol}{\textbullet}
\definecolor{firstnamecolor}{rgb}{0.65,0.65,0.65}
\familynamecolour{808080}
\firstnamecolour{A9A9A9}
\quotecolour{696969}
\addresscolour{696969}
\definecolor{sectionrectanglecolor}{rgb}{0.25,0.50,0.75}
\sectiontitlecolour{1E90FF}
\subsectioncolour{4682B4}
\definecolor{rulecolour}{gray}{0.6}
\definecolor{footersymbolcolour}{rgb}{0.25,0.50,0.75}
\definecolor{footersymbolcolor}{rgb}{0.25,0.50,0.75}
\if@colourorange
  \definecolor{sectionrectanglecolor}{rgb}{1.00,0.65,0.20}
  \definecolor{sectionrectanglecolor}{rgb}{1.00,0.65,0.20}
  \sectiontitlecolour{FF8C00}
  \subsectioncolour{FF8C00}
  \definecolor{footersymbolcolour}{rgb}{0.95,0.55,0.15}
  \definecolor{footersymbolcolor}{rgb}{0.95,0.55,0.15}\fi
\if@colourgreen
  \definecolor{sectionrectanglecolor}{rgb}{0.55,0.85,0.35}
  \definecolor{sectionrectanglecolour}{rgb}{0.55,0.85,0.35}
  \sectiontitlecolour{008000}
  \subsectioncolour{008000}
  \definecolor{footersymbolcolour}{rgb}{0.30,0.65,0.15}
  \definecolor{footersymbolcolor}{rgb}{0.30,0.65,0.15}\fi
\if@colourred
  \definecolor{sectionrectanglecolor}{rgb}{1.00,0.30,0.30}
  \definecolor{sectionrectanglecolour}{rgb}{1.00,0.30,0.30}
  \sectiontitlecolour{FF0000}
  \subsectioncolour{FF0000}
  \definecolor{footersymbolcolour}{rgb}{0.95,0.20,0.20}
  \definecolor{footersymbolcolor}{rgb}{0.95,0.20,0.20}\fi
\if@colourgrey
  \definecolor{sectionrectanglecolor}{rgb}{0.75,0.75,0.75}
  \definecolor{sectionrectanglecolour}{rgb}{0.75,0.75,0.75}
  \sectiontitlecolour{808080}
  \subsectioncolour{808080}
  \definecolor{footersymbolcolour}{rgb}{0.35,0.35,0.35}
  \definecolor{footersymbolcolor}{rgb}{0.35,0.35,0.35}\fi
\renewcommand*{\ttdefault}{pcr}
\renewcommand*{\firstnamefont}{\fontsize{38}{40}\mdseries\upshape}
\renewcommand*{\familynamefont}{\firstnamefont}
\renewcommand*{\addressfont}{\normalsize\mdseries\slshape}
\renewcommand*{\quotefont}{\large\slshape}
```

```
\renewcommand*{\sectionfont}{\Large\mdseries\upshape}
\renewcommand*{\subsectionfont}{\large\mdseries\upshape}
\renewcommand*{\maketitle}{%
  {%
    \ifthenelse{\isundefined{\@photo}}%
      {}%
    {{\color{firstnamecolor}\framebox{\includegraphics[width=\@photowidth]{\@photo}}}}%
    \hfill%
   \bidi@raggedleft{\firstnamestyle{\@firstname}~\familynamestyle{\@familyname}}\\[-.35em]}%
   {\color{firstnamecolor}\rule{\textwidth}{.25ex}\\[2.5em]}%
  \ifthenelse{\isundefined{\@quote}}%
    {}%
   {\centering{\begin{minipage}{\quotewidth}\centering\quotestyle{\@quote}\end{minipage}}\\[2.
  }%
\newif\if@firstfooterelement\@firstfooterelementtrue
\providecommand*{\footersymbol}{}
\renewcommand*{\footersymbol}{%
  \if@firstfooterelement%
  \else%
    { ~~\color{footersymbolcolor}\textbullet~~~}\fi}
\providecommand*{\makefooter}{}
\renewcommand*{\makefooter}{%
  \fancypagestyle{plain}{%
    \fancyfoot[c]{%
      \parbox{0.8\textwidth}{%
      \centering%
      \addressfont\@addresscolour%
      \ifthenelse{\isundefined{\@address}}{}{%
        \addresssymbol~\@address\\%
        \@firstfooterelementfalse}%
    \ifthenelse{\isundefined{\@mobile}}{}{\mobilesymbol~\@mobile\@firstfooterelementfalse}%
    \ifthenelse{\isundefined{\@phone}}{}{\footersymbol\phonesymbol~\@phone\@firstfooterelemen
    \ifthenelse{\isundefined{\@fax}}{}{\footersymbol\faxsymbol~\@fax\@firstfooterelementfalse
    \ifthenelse{\isundefined{\@email}}{}{\footersymbol\emailsymbol~\emaillink{\@email}\@first
    \ifthenelse{\isundefined{\@extrainfo}}{}{\footersymbol\@extrainfo\@firstfooterelementfals
  }%
  \pagestyle{plain}}
\AtBeginDocument{\makefooter}
```

7.47 cvthemebidiclassic.sty

```
\NeedsTeXFormat{LaTeX2e}
\ProvidesPackage{cvthemebidiclassic}
\DeclareOption{blue}{}
\newif\if@colourorange\@colourorangefalse
\DeclareOption{orange}{\@colourorangetrue}
\newif\if@colourgreen\@colourgreenfalse
\DeclareOption{green}{\@colourgreentrue}
\newif\if@colourred\@colourredfalse
\DeclareOption{red}{\@colourredtrue}
```

```
\newif\if@colourgrey\@colourgreyfalse
\DeclareOption{grey}{\@colourgreytrue}
\DeclareOption*{
  \PackageWarning{cvthemebidiclassic}{Unknown option `\CurrentOption'}}
\ExecuteOptions{colour}
\ProcessOptions\relax
\renewcommand*{\listitemsymbol}{\textbullet}
\firstnamecolour{}
\familynamecolour{}
\titlecolour{808080}
\quotecolour{696969}
\addresscolour{696969}
\definecolor{sectionrectanglecolour}{rgb}{0.25,0.50,0.75}
\definecolor{sectionrectanglecolor}{rgb}{0.25,0.5,0.75}
\sectiontitlecolour{1E90FF}
\subsectioncolour{4682B4}
\if@colourorange
  \addresscolour{FF8C00}
  \definecolor{sectionrectanglecolour}{rgb}{1.00,0.65,0.20}
  \definecolor{sectionrectanglecolor}{rgb}{1,0.65,0.20}
  \sectiontitlecolour{FF8C00}
  \subsectioncolour{FF8C00}\fi
\if@colourgreen
  \addresscolour{008000}
  \definecolor{sectionrectanglecolour}{rgb}{0.55,0.85,0.35}
  \definecolor{sectionrectanglecolor}{rgb}{0.55,0.85,0.35}
  \sectiontitlecolour{008000}
  \subsectioncolour{008000}\fi
\if@colourred
  \addresscolour{FF0000}
  \definecolor{sectionrectanglecolour}{rgb}{1.00,0.30,0.30}
  \definecolor{sectionrectanglecolor}{rgb}{1.00,0.30,0.30}
  \sectiontitlecolour{FF0000}
  \subsectioncolour{FF0000}\fi
\if@colourgrey
  \addresscolour{808080}
  \definecolor{sectionrectanglecolour}{rgb}{0.75,0.75,0.75}
  \definecolor{sectionrectanglecolor}{rgb}{0.75,0.75,0.75}
  \sectiontitlecolour{808080}
  \subsectioncolour{808080}\fi
\renewcommand*{\ttdefault}{pcr}
\renewcommand*{\firstnamefont}{\fontsize{34}{36}\mdseries\upshape}
\renewcommand*{\titlefont}{\LARGE\mdseries\slshape}
\renewcommand*{\addressfont}{\normalsize\mdseries\slshape}
\renewcommand*{\familynamefont}{\firstnamefont}
\renewcommand*{\quotefont}{\large\slshape}
\renewcommand*{\sectionfont}{\Large\mdseries\upshape}
\renewcommand*{\subsectionfont}{\large\mdseries\upshape}
\newlength{\maketitlenamemaxwidth}
\setlength{\maketitlenamemaxwidth}{.525\textwidth}
```

```
\newlength{\maketitlenamefullwidth}
\settowidth{\maketitlenamefullwidth}{\firstnamestyle{\@firstname~}\familynamestyle{\@familynar
\newlength{\maketitlenamewidth}
\ifnum\maketitlenamemaxwidth<\maketitlenamefullwidth\setlength{\maketitlenamewidth}{\maketitl
\newlength{\maketitlepicturewidth}
\setlength{\maketitlepicturewidth}{\@photowidth}
\newlength{\maketitledetailswidth}
\renewcommand*{\recomputethemelengths}{%
  \setlength{\maketitledetailswidth}{\textwidth}%
  \addtolength{\maketitledetailswidth}{-\maketitlenamewidth}%
  \addtolength{\maketitledetailswidth}{-\separatorcolumnwidth}%
  \addtolength{\maketitledetailswidth}{-\maketitlepicturewidth}}
\recomputethemelengths
\newif\if@firstdetailselement\@firstdetailselementtrue
\newcommand*{\maketitledetailsnewline}{
  \if@firstdetailselement%
    \@firstdetailselementfalse%
  \else%
    \\[.2em]\fi}
\renewcommand*{\maketitle}{%
  % name and title
  \begin{minipage}[b]{\maketitlenamewidth}%
    \firstnamestyle{\@firstname~}\familynamestyle{\@familyname}%
    \ifthenelse{\equal{\@title}{}}{}{\\[1.25em]\titlestyle{\@title}}%
  \end{minipage}%
  % optional data
  \begin{minipage}[b]{\maketitledetailswidth}%
    \bidi@raggedleft\addressfont\@addresscolour%
   \ifthenelse{\isundefined{\@address}}{}{%
      \maketitledetailsnewline%
      \addresssymbol~\\\@address}%
   \ifthenelse{\isundefined{\@mobile}}{}{\maketitledetailsnewline\mobilesymbol~\@mobile}%
   \ifthenelse{\isundefined{\@phone}}{}{\maketitledetailsnewline\phonesymbol~\@phone}%
   \ifthenelse{\isundefined{\@fax}}{}{\maketitledetailsnewline\faxsymbol~\@fax}%
   \ifthenelse{\isundefined{\@email}}{}{\maketitledetailsnewline\emailsymbol~\emaillink{\@emai
   \ifthenelse{\isundefined{\@extrainfo}}{}{\maketitledetailsnewline\@extrainfo}%
  \end{minipage}%
  % optional photo
  \ifthenelse{\isundefined{\@photo}}%
    {}%
   {\hspace*{\separatorcolumnwidth}\color{firstnamecolor}\framebox{\includegraphics[width=\mak
  % optional quote
  \ifthenelse{\isundefined{\@quote}}%
    {}%
   {\centering{\begin{minipage}{\quotewidth}\centering\quotestyle{\@quote}\end{minipage}}\\[2.
  }
```

7.48 dblfnote-xetex-bidi.def

```
\ProvidesFile{dblfnote-xetex-bidi.def}[2012/12/12 v0.3 bidi adaptations for dblfnote package for
```

```
\let\autofootnoterule\relax
\let\rightfootnoterule\relax
\let\leftfootnoterule\relax
\let\textwidthfootnoterule\relax
\let\LRfootnoterule\relax
\def\footnoterule{\kern-3\p@
  \hrule \@width  \DFNcolumnwidth \kern 2.6\p@}%
\AtBeginDocument{\let\dfn@latex@footnotetext\@footnotetext
\let\@footnotetext\dfn@footnotetext}
\long\def\dfn@LTRfootnotetext#1{{\setbox\dfn@boxa\vbox{
        \let\insert\dfn@gobble
        \columnwidth\DFNcolumnwidth \hbadness\c@DFNsloppiness
        \def\@makefnmark{\smash{\dfn@makefnmark}}
        \dfn@latex@LTRfootnotetext{#1}\par \boxmaxdepth\dfn@fnmaxdp}%
        \dfn@dima\ht\dfn@boxa \advance\dfn@dima\dp\dfn@boxa
        \ifdim\dfn@dima>\z@\else
                \dfn@dima1sp\relax
           \setbox\dfn@boxa\vbox{\vbox to1sp{\unvbox\dfn@boxa\vfil}}\fi
        \global\setbox\dfn@ins\vbox{\boxmaxdepth\dfn@fnmaxdp
                \ifvoid\dfn@ins\else
                       \unvbox\dfn@ins \allowbreak \nointerlineskip \fi
                \ifdfn@allowcbreak \unvbox \else \box \fi \dfn@boxa}%
        \setbox\dfn@boxa\copy\dfn@ins
     \dfn@split{.5\ht\dfn@boxa}\dfn@boxa\dfn@boxb\dfn@fnmaxdp\footnotesep
        \advance\@tempdima\@tempdimb \@tempdimb\@tempdima
        \advance\@tempdima-\dfn@fnht \global\dfn@fnht\@tempdimb
        \insert\footins{\floatingpenalty\@MM \vbox to\@tempdima{}}%
     \xdef\dfn@list{\dfn@list\@elt{\number\dfn@dima}{\number\@tempdima}}}}
\AtBeginDocument{\let\dfn@latex@LTRfootnotetext\@LTRfootnotetext
\let\@LTRfootnotetext\dfn@LTRfootnotetext}
\long\def\dfn@RTLfootnotetext#1{{\setbox\dfn@boxa\vbox{
        \let\insert\dfn@gobble
        \columnwidth\DFNcolumnwidth \hbadness\c@DFNsloppiness
        \def\@makefnmark{\smash{\dfn@makefnmark}}
        \dfn@latex@RTLfootnotetext{#1}\par \boxmaxdepth\dfn@fnmaxdp}%
        \dfn@dima\ht\dfn@boxa \advance\dfn@dima\dp\dfn@boxa
        \ifdim\dfn@dima>\z@\else
                \dfn@dima1sp\relax
           \setbox\dfn@boxa\vbox{\vbox to1sp{\unvbox\dfn@boxa\vfil}}\fi
        \global\setbox\dfn@ins\vbox{\boxmaxdepth\dfn@fnmaxdp
                \ifvoid\dfn@ins\else
                       \unvbox\dfn@ins \allowbreak \nointerlineskip \fi
                \ifdfn@allowcbreak \unvbox \else \box \fi \dfn@boxa}%
        \setbox\dfn@boxa\copy\dfn@ins
     \dfn@split{.5\ht\dfn@boxa}\dfn@boxa\dfn@boxb\dfn@fnmaxdp\footnotesep
        \advance\@tempdima\@tempdimb \@tempdimb\@tempdima
        \advance\@tempdima-\dfn@fnht \global\dfn@fnht\@tempdimb
        \insert\footins{\floatingpenalty\@MM \vbox to\@tempdima{}}%
     \xdef\dfn@list{\dfn@list\@elt{\number\dfn@dima}{\number\@tempdima}}}}
\AtBeginDocument{\let\dfn@latex@RTLfootnotetext\@RTLfootnotetext
```

```
\let\@RTLfootnotetext\dfn@RTLfootnotetext}
\def\dfn@RTLmakecol{{\ifvoid\footins\else
        \dfn@dima\ht\footins
        \@tempcnta\z@ \dfn@countins
        \@tempdima\z@ \let\@elt\dfn@elt@getht
        \dfn@list\@nil
        \ifdim\@tempdima=\z@\else
        \dfn@split\@tempdima\dfn@ins\dfn@boxa\z@\z@
        \global\setbox\dfn@ins\box\dfn@ins
        \@tempswatrue
        \ifdfn@trysingle
               \setbox\dfn@boxb\vbox{\unvcopy\@cclv}\@tempdima\@colroom
          \advance\@tempdima-\ht\dfn@boxb \advance\@tempdima-\dp\dfn@boxb
                \advance\@tempdima-\skip\footins
                \advance\@tempdima-\ht\dfn@boxa
                \ifdim\@tempdima<\z@\else \@tempswafalse
                   \global\setbox\footins\vbox{\boxmaxdepth\dfn@fnmaxdp
                               \footnoterule \unvbox\dfn@boxa}\fi\fi
        \if@tempswa
        \dfn@split{\dfn@dima}\dfn@boxa\dfn@boxb\dfn@fnmaxdp\footnotesep
        \global\setbox\footins\vbox{\hbox{%
                 \hskip \DFNcolumnwidth
                 \hskip\DFNcolumnsep
               \hbox to\DFNcolumnwidth{\vbox to\@tempdima{\footnoterule
                        \unvbox\dfn@boxb\vss}\hss}
                \hskip -\textwidth
                \hbox to\DFNcolumnwidth{\ifvoid\dfn@boxa\else
                        \vbox to\@tempdima{
                                \setbox\@tempboxa\vbox{\footnoterule}
                                \ifdfn@ruleboth \unvbox\@tempboxa
                                \else \@tempdima\ht\@tempboxa
                                        \advance\@tempdima\dp\@tempboxa
                                        \vskip\@tempdima
                                        \prevdepth\dp\@tempboxa \fi
                                \unvbox\dfn@boxa\vss}\fi\hss}
                                 \hskip \DFNcolumnsep
                                 \hskip \DFNcolumnwidth}}\fi\fi
        \global\dfn@fnht\z@
        \ifx\dfn@list\@empty\else
                \let\@elt\dfn@elt@adjust \dfn@dima\z@ \dfn@dimb\z@
                \dfn@list \global\advance\dfn@fnht\dfn@dimb
                \let\@elt\relax
                \ifdim\dfn@dimb>\z@
                   \xdef\dfn@list{\@elt{0}{\number\dfn@dimb}\dfn@list}%
                        \insert\footins{\floatingpenalty\@MM
                                \vbox to\dfn@dimb{}}\fi
                \ifdim\dfn@fnht>\@tempdima
                      \@tempdimb\@tempdima \advance\@tempdimb-\dfn@fnht
                        \global\dfn@fnht\@tempdima
                  \xdef\dfn@list{\dfn@list\@elt{0}{\number\@tempdimb}}%
```

```
                        \xdef\dfn@afteroutput{\insert\footins{
                                        \floatingpenalty\@MM
                                       \vbox to\number\@tempdimb sp{}}%
                           \global\let\noexpand\dfn@afteroutput\relax}%
                \fi\fi
        \fi}%
        \let\footnoterule\relax \dfn@latex@makecol
        \let\footnoterule\dfn@footnoterule}
\def\dfn@LTRmakecol{{\ifvoid\footins\else
        \dfn@dima\ht\footins
        \@tempcnta\z@ \dfn@countins
        \@tempdima\z@ \let\@elt\dfn@elt@getht
        \dfn@list\@nil
        \ifdim\@tempdima=\z@\else
        \dfn@split\@tempdima\dfn@ins\dfn@boxa\z@\z@
        \global\setbox\dfn@ins\box\dfn@ins
        \@tempswatrue
        \ifdfn@trysingle
               \setbox\dfn@boxb\vbox{\unvcopy\@cclv}\@tempdima\@colroom
          \advance\@tempdima-\ht\dfn@boxb \advance\@tempdima-\dp\dfn@boxb
               \advance\@tempdima-\skip\footins
               \advance\@tempdima-\ht\dfn@boxa
               \ifdim\@tempdima<\z@\else \@tempswafalse
                  \global\setbox\footins\vbox{\boxmaxdepth\dfn@fnmaxdp
                              \footnoterule \unvbox\dfn@boxa}\fi\fi
        \if@tempswa
        \dfn@split{\dfn@dima}\dfn@boxa\dfn@boxb\dfn@fnmaxdp\footnotesep
        \global\setbox\footins\vbox{\hbox{%
               \hbox to\DFNcolumnwidth{\vbox to\@tempdima{\footnoterule
                        \unvbox\dfn@boxb\vss}\hss}\hskip\DFNcolumnsep
               \hbox to\DFNcolumnwidth{\ifvoid\dfn@boxa\else
                        \vbox to\@tempdima{
                                \setbox\@tempboxa\vbox{\footnoterule}
                                \ifdfn@ruleboth \unvbox\@tempboxa
                                \else \@tempdima\ht\@tempboxa
                                        \advance\@tempdima\dp\@tempboxa
                                        \vskip\@tempdima
                                        \prevdepth\dp\@tempboxa \fi
                                \unvbox\dfn@boxa\vss}\fi\hss}}}\fi\fi
        \global\dfn@fnht\z@
        \ifx\dfn@list\@empty\else
                \let\@elt\dfn@elt@adjust \dfn@dima\z@ \dfn@dimb\z@
                \dfn@list \global\advance\dfn@fnht\dfn@dimb
                \let\@elt\relax
                \ifdim\dfn@dimb>\z@
                   \xdef\dfn@list{\@elt{0}{\number\dfn@dimb}\dfn@list}%
                        \insert\footins{\floatingpenalty\@MM
                                \vbox to\dfn@dimb{}}\fi
                \ifdim\dfn@fnht>\@tempdima
                      \@tempdimb\@tempdima \advance\@tempdimb-\dfn@fnht
```

```
                        \global\dfn@fnht\@tempdima
                    \xdef\dfn@list{\dfn@list\@elt{0}{\number\@tempdimb}}%
                        \xdef\dfn@afteroutput{\insert\footins{
                                        \floatingpenalty\@MM
                                       \vbox to\number\@tempdimb sp{}}%
                              \global\let\noexpand\dfn@afteroutput\relax}%
                  \fi\fi
          \fi}%
          \let\footnoterule\relax \dfn@latex@makecol
          \let\footnoterule\dfn@footnoterule}
\renewcommand{\dfn@makecol}{\if@RTLmain\dfn@RTLmakecol\else\dfn@LTRmakecol\fi}
\newcommand{\RTLdfnmakecol}{\renewcommand{\dfn@makecol}{\dfn@RTLmakecol}}
\newcommand{\LTRdfnmakecol}{\renewcommand{\dfn@makecol}{\dfn@LTRmakecol}}
\DFNalwaysdouble
```

7.49 draftwatermark-xetex-bidi.def

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

7.50 eso-pic-xetex-bidi.def

```
\ProvidesFile{eso-pic-xetex-bidi.def}[2013/04/10 v0.2 bidi adaptations for eso-pic package for X
\renewcommand\AtPageLowerLeft[1]{\AtPageUpperLeft{%
  \put(\LenToUnit{\if@RTLmain\paperwidth\else0pt\fi},\LenToUnit{-\paperheight}){#1}}}

\ESO@isMEMOIR{%
  \renewcommand\AtTextUpperLeft[1]{%
    \begingroup
      \ifodd\c@page
        \@tempdima=\spinemargin
      \else
        \@tempdima=\paperwidth
        \advance\@tempdima-\textwidth
        \advance\@tempdima-\spinemargin
      \fi
      \@tempdimb=-\uppermargin
      \AtPageUpperLeft{%
       \put(\LenToUnit{\if@RTLmain-\fi\@tempdima},\LenToUnit{\@tempdimb}){#1}%
      }%
    \endgroup
  }
}{%
  \renewcommand\AtTextUpperLeft[1]{%
    \begingroup
      \@tempdima=1in\relax
      \ifodd\c@page
        \advance\@tempdima\oddsidemargin
      \else
        \advance\@tempdima\evensidemargin
```

```
      \fi
      \@tempdimb=-1in\relax
      \advance\@tempdimb-\topmargin
      \advance\@tempdimb-\headheight
      \advance\@tempdimb-\headsep
      \AtPageUpperLeft{%
     \put(\LenToUnit{\if@RTLmain-\fi\@tempdima},\LenToUnit{\@tempdimb}){#1}%
      }%
    \endgroup
  }
}
```

7.51 empheq-xetex-bidi.def

```
\ProvidesFile{empheq-xetex-bidi.def}[2011/09/07 v0.1 bidi adaptations for empheq package for XeT
\MHInternalSyntaxOn
\def\EQ_tag_plus_endmark:{%
  \iftagsleft@
    \gdef\maketag@@@##1{%
      \hfuzz\displaywidth
      \if@RTL\makebox[\widthof{##1}][r]{%
        \hbox to \displaywidth{\m@th\normalfont##1\hss
          \raisebox{-\dp\EQ_mathdisplay_box
                    -\depthof{\EQ_outerbox:{}}}
                   {\PotEndMark{\hss}}}}
      \else\makebox[\widthof{##1}][l]{%
        \hbox to \displaywidth{\m@th\normalfont##1\hss
          \raisebox{-\dp\EQ_mathdisplay_box
                    -\depthof{\EQ_outerbox:{}}}
                   {\PotEndMark{\hss}}}}\fi}%
  \else:
    \gdef\maketag@@@##1{%
      \hbox{\m@th\normalfont##1\llap{\hss\PotEndMark{%
        \settoheight{\@tempdima}{\@nameuse{\InTheoType Symbol}}%
        \MH_addtolength:dn \@tempdima
          {\g_EQ_bottomtag_depth_dim+\mintagvsep}
        \setlength{\@tempdimb}
          {\g_EQ_bottomrow_depth_dim+\depthof{\EQ_outerbox:{}}
            +\depthof{\EQ_innerbox:{}}}
        \if_dim:w \@tempdima>\@tempdimb
          \MH_setlength:dn \@tempdima{-\dp\EQ_mathdisplay_box
            -\@tempdima+\g_EQ_bottomrow_depth_dim}
          \addtolength{\@tempdima}{\depthof{\EQ_innerbox:{}}}%
          \def\EQ_next:{\raisebox{\@tempdima}}%
        \else:
          \def\EQ_next:{
            \raisebox{-\dp\EQ_mathdisplay_box
                      -\depthof{\EQ_outerbox:{}}}}%
        \fi:\EQ_next:}}}}%
  \fi:}
```

```
\def\EQ_post_process:{%
  \EQ_initialize:
  \EQ_begin_equation:
  \MH_if_boolean:nT {outer_mult}{
    \setkeys{\MT_options_name:}{
      firstline-afterskip=0pt,
      lastline-preskip=0pt,
      multlined-width=0pt,
    }
    \ifodd \l_EQ_alignmentmode_int
      \setkeys{\MT_options_name:}{multlined-pos=b}
    \else:
      \setkeys{\MT_options_name:}{multlined-pos=t}
    \fi:
      \g@addto@macro\EQ_complete_mathdisplay:{
        \begin{MTmultlined}\relax}
  }
  \g@addto@macro\EQ_complete_mathdisplay:\EQ_mathbody:
  \MH_if_boolean:nT {outer_mult}{
    \g@addto@macro\EQ_complete_mathdisplay:{\end{MTmultlined}}
  }
  \EQ_end_equation:
  \edef\EQ_hyperref_link_fint{\number\Hy@linkcounter}
  \savecounters@
  \EQ_typeset_tags:
  \edef\l_EQ_equation_fint{\number\c@equation}
  \restorecounters@
  \Hy@linkcounter=\EQ_hyperref_link_fint
  \settowidth\l_EQ_totalwidth_dim{%
    $\EQ_left_side:\EQ_innerbox:{}\EQ_right_side:$}%
  \MH_if_boolean:nTF {outer_mult}
    { \def\EQ_next:{_mult} }
    { \def\EQ_next:{} }
  \@nameuse{EQ_modify_linewidth_
            \romannumeral\l_EQ_equationtype_int\EQ_next: :}%
  \EQ_typeset_display:
  \@nameuse{find_displaywidth_
           \romannumeral\l_EQ_equationtype_int\EQ_next: :}
  \MH_addtolength:dn
    \l_EQ_totalwidth_dim{\l_EQ_displaywidth_dim}
  \savebox\EQ_mathdisplay_box[\l_EQ_totalwidth_dim][c]{%
    $\EQ_left_side:
    \EQ_innerbox:{%
      \if_case:w \l_EQ_alignmentmode_int\or:
        \makebox[\l_EQ_displaywidth_dim][c]
          {\usebox{\EQ_mathdisplay_box}}%
      \or:
        \makebox[\l_EQ_displaywidth_dim][c]
          {\usebox{\EQ_mathdisplay_box}}%
      \or:
```

```
      \if@RTL\makebox[\l_EQ_displaywidth_dim][r]{%
        \if_num:w \l_EQ_equationtype_int=5 \else:
          \if_num:w \l_EQ_equationtype_int=6 \else:
            \kern-\@mathmargin
          \fi:
        \fi:
        \usebox{\EQ_mathdisplay_box}}%
      \else\makebox[\l_EQ_displaywidth_dim][l]{%
        \if_num:w \l_EQ_equationtype_int=5 \else:
          \if_num:w \l_EQ_equationtype_int=6 \else:
            \kern-\@mathmargin
          \fi:
        \fi:
        \usebox{\EQ_mathdisplay_box}}\fi%
    \or:
      \if@RTL\makebox[\l_EQ_displaywidth_dim][r]{%
        \if_num:w \l_EQ_equationtype_int=5 \else:
          \if_num:w \l_EQ_equationtype_int=6 \else:
            \kern-\@mathmargin
          \fi:
        \fi:
        \usebox{\EQ_mathdisplay_box}}
      \else\makebox[\l_EQ_displaywidth_dim][l]{%
        \if_num:w \l_EQ_equationtype_int=5 \else:
          \if_num:w \l_EQ_equationtype_int=6 \else:
            \kern-\@mathmargin
          \fi:
        \fi:
        \usebox{\EQ_mathdisplay_box}}\fi%
    \fi:}%
  \EQ_right_side:$}%
\begin{AmSequation*}
\@nameuse{EQ_place_display_
         \romannumeral\l_EQ_equationtype_int\EQ_next: :}
\if_dim:w \g_EQ_widesttag_dim>\z@
\MH_set_boolean_T:n {show_manual_tags}
  \if_case:w \l_EQ_alignmentmode_int
  \or: \if@RTL\EQ_place_tag:N l\else\EQ_place_tag:N r\fi %#1
  \or: \if@RTL\EQ_place_tag:N r\else\EQ_place_tag:N l\fi %#2
  \or: \if@RTL\EQ_place_tag:N l\else\EQ_place_tag:N r\fi %#3
  \or: \if@RTL\EQ_place_tag:N r\else\EQ_place_tag:N l\fi %#4
  \fi:
\fi:
\end{AmSequation*}
\global\c@equation=\l_EQ_equation_fint\relax
}
\AtBeginDocument{%
  \@ifpackageloaded{fancybox}{%
    \@ifpackageloaded{color}{\definecolor{shadowcolor}{rgb}{0,0,0}}%
    {\renewcommand*\textcolor[2]{\normalcolor{#2}}}%
```

```
    \renewcommand*\shadowbox{%
      \@ifstar{\MH_set_boolean_T:n {shadowbox_star}
               \VerbBox\EQ_shadowbox:n}
              {\MH_set_boolean_F:n {shadowbox_star}
               \VerbBox\EQ_shadowbox:n}}
    \def\EQ_shadowbox:n #1{%
      \sbox{\z@}{\fbox{#1}}%
      \MH_if_boolean:nTF {shadowbox_star}{
        \MH_setlength:dn \@tempdima{\z@}%
      }{
        \MH_setlength:dn \@tempdima{\dp\z@+\shadowsize}%
      }
      \raisebox{\@tempdima}{%
        \if@RTL\makebox[\z@][r]{%
          \kern\shadowsize \textcolor{shadowcolor}{%
            \rule[-\dp\z@-\shadowsize]{\wd\z@}{\shadowsize}}%
        }%
        \else\makebox[\z@][l]{%
          \kern\shadowsize \textcolor{shadowcolor}{%
            \rule[-\dp\z@-\shadowsize]{\wd\z@}{\shadowsize}}%
        }\fi%
        \usebox\z@\textcolor{shadowcolor}{%
          \rule[-\dp\z@-\shadowsize]{\shadowsize}{\ht\z@+\dp\z@}}}}%
  }{}%
}
\MHInternalSyntaxOff
```

7.52 extarticle-xetex-bidi.def

```
\ProvidesFile{extarticle-xetex-bidi.def}[2015/11/14 v0.3 bidi adaptations for extarticle class f
\renewcommand*\l@section[2]{%
  \ifnum \c@tocdepth >\z@
    \addpenalty\@secpenalty
    \addvspace{1.0em \@plus\p@}%
    \setlength\@tempdima{1.5em}%
    \begingroup
      \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
      \parfillskip -\@pnumwidth
      \leavevmode \bfseries
      \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
      \hskip -\if@RTL\rightskip\else\leftskip\fi
      #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
    \endgroup
  \fi}
  \renewcommand*\l@part[2]{%
  \ifnum \c@tocdepth >-2\relax
    \addpenalty\@secpenalty
    \addvspace{2.25em \@plus\p@}%
    \begingroup
      \setlength\@tempdima{3em}%
```

```
      \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
      \parfillskip -\@pnumwidth
      {\leavevmode
       \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
       \nobreak
    \endgroup
  \fi}
  \def\@part[#1]#2{%
    \ifnum \c@secnumdepth >\m@ne
      \refstepcounter{part}%
      \addcontentsline{toc}{part}{\thepart\hspace{1em}#1}%
    \else
      \addcontentsline{toc}{part}{#1}%
    \fi
    {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
     \interlinepenalty \@M
     \normalfont
     \ifnum \c@secnumdepth >\m@ne
       \Large\bfseries \partname~\thepart
       \par\nobreak
     \fi
     \huge \bfseries #2%
     \markboth{}{}\par}%
    \nobreak
    \vskip 3ex
    \@afterheading}
  \def\@spart#1{%
    {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
     \interlinepenalty \@M
     \normalfont
     \huge \bfseries #1\par}%
     \nobreak
     \vskip 3ex
     \@afterheading}
\renewenvironment{thebibliography}[1]
     {\section*{\refname
        \@mkboth{\MakeUppercase\refname}{\MakeUppercase\refname}}%
      \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
         \list{\@biblabel{\@arabic\c@enumiv}}%
           {\settowidth\labelwidth{\@biblabel{#1}}%
            \leftmargin\labelwidth
            \advance\leftmargin\labelsep
            \@openbib@code
            \usecounter{enumiv}%
            \let\p@enumiv\@empty
            \renewcommand\theenumiv{\@arabic\c@enumiv}}%
      \sloppy\clubpenalty4000\widowpenalty4000%
      \sfcode`\.\@m}
     {\def\@noitemerr
       {\@latex@warning{Empty `thebibliography' environment}}%
```

```
      \endlist}
\renewcommand\left@footnoterule{%
  \kern-3\p@
  \hrule\@width.4\columnwidth
  \kern2.6\p@}
\renewcommand\right@footnoterule{%
  \kern-3\p@
  \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
  \kern2.6\p@}
    \if@titlepage
  \renewcommand\maketitle{\begin{titlepage}%
  \let\footnotesize\small
  \let\right@footnoterule\relax
  \let\left@footnoterule\relax
  \let\textwidth@footnoterule\relax
  \let \footnote \thanks
  \null\vfil
  \vskip 60\p@
  \begin{center}%
    {\LARGE \@title \par}%
    \vskip 3em%
    {\large
     \lineskip .75em%
      \begin{tabular}[t]{c}%
        \@author
      \end{tabular}\par}%
      \vskip 1.5em%
    {\large \@date \par}%       % Set date in \large size.
  \end{center}\par
  \@thanks
  \vfil\null
  \end{titlepage}%
  \setcounter{footnote}{0}%
  \global\let\thanks\relax
  \global\let\maketitle\relax
  \global\let\@thanks\@empty
  \global\let\@author\@empty
  \global\let\@date\@empty
  \global\let\@title\@empty
  \global\let\title\relax
  \global\let\author\relax
  \global\let\date\relax
  \global\let\and\relax
}
\else
\renewcommand\maketitle{\par
  \begingroup
    \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
    \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
    \long\def\@makefntext##1{\parindent 1em\noindent
```

```
            \hb@xt@1.8em{%
                \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
    \if@twocolumn
      \ifnum \col@number=\@ne
        \@maketitle
      \else
        \twocolumn[\@maketitle]%
      \fi
    \else
      \newpage
      \global\@topnum\z@   % Prevents figures from going at top of page.
      \@maketitle
    \fi
    \thispagestyle{plain}\@thanks
  \endgroup
  \setcounter{footnote}{0}%
  \global\let\thanks\relax
  \global\let\maketitle\relax
  \global\let\@maketitle\relax
  \global\let\@thanks\@empty
  \global\let\@author\@empty
  \global\let\@date\@empty
  \global\let\@title\@empty
  \global\let\title\relax
  \global\let\author\relax
  \global\let\date\relax
  \global\let\and\relax
}
\def\@maketitle{%
  \newpage
  \null
  \vskip 2em%
  \begin{center}%
  \let \footnote \thanks
    {\LARGE \@title \par}%
    \vskip 1.5em%
    {\large
      \lineskip .5em%
      \begin{tabular}[t]{c}%
        \@author
      \end{tabular}\par}%
    \vskip 1em%
    {\large \@date}%
  \end{center}%
  \par
  \vskip 1.5em}
\fi
\renewcommand\thesubsection  {\thesection\@SepMark\@arabic\c@subsection}
\renewcommand\thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
\renewcommand\theparagraph   {\thesubsubsection\@SepMark\@arabic\c@paragraph}
```

```
\renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}%%
```

7.53 extbook-xetex-bidi.def

```
\ProvidesFile{extbook-xetex-bidi.def}[2010/07/25 v0.3 bidi adaptations for extbook class for XeT
  \if@titlepage
  \renewcommand\maketitle{\begin{titlepage}%
  \let\footnotesize\small
  \let\right@footnoterule\relax
  \let\left@footnoterule\relax
  \let\textwidth@footnoterule\relax
  \let \footnote \thanks
  \let \LTRfootnote \LTRthanks
  \let \RTLfootnote \RTLthanks
  \null\vfil
  \vskip 60\p@
  \begin{center}%
    {\LARGE \@title \par}%
    \vskip 3em%
    {\large
     \lineskip .75em%
      \begin{tabular}[t]{c}%
        \@author
      \end{tabular}\par}%
      \vskip 1.5em%
    {\large \@date \par}%       % Set date in \large size.
  \end{center}\par
  \@thanks
  \vfil\null
  \end{titlepage}%
  \setcounter{footnote}{0}%
  \global\let\thanks\relax
  \global\let\LTRthanks\relax
  \global\let\RTLthanks\relax
  \global\let\maketitle\relax
  \global\let\@thanks\@empty
  \global\let\@author\@empty
  \global\let\@date\@empty
  \global\let\@title\@empty
  \global\let\title\relax
  \global\let\author\relax
  \global\let\date\relax
  \global\let\and\relax
}
\else
\renewcommand\maketitle{\par
  \begingroup
    \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
    \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
    \long\def\@makefntext##1{\parindent 1em\noindent
```

```
            \hb@xt@1.8em{%
                \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
    \if@twocolumn
      \ifnum \col@number=\@ne
        \@maketitle
      \else
        \twocolumn[\@maketitle]%
      \fi
    \else
      \newpage
      \global\@topnum\z@   % Prevents figures from going at top of page.
      \@maketitle
    \fi
    \thispagestyle{plain}\@thanks
  \endgroup
  \setcounter{footnote}{0}%
  \global\let\thanks\relax
  \global\let\LTRthanks\relax
  \global\let\RTLthanks\relax
  \global\let\maketitle\relax
  \global\let\@maketitle\relax
  \global\let\@thanks\@empty
  \global\let\@author\@empty
  \global\let\@date\@empty
  \global\let\@title\@empty
  \global\let\title\relax
  \global\let\author\relax
  \global\let\date\relax
  \global\let\and\relax
}
\def\@maketitle{%
  \newpage
  \null
  \vskip 2em%
  \begin{center}%
  \let \footnote \thanks
  \let \LTRfootnote \LTRthanks
  \let \RTLfootnote \RTLthanks
    {\LARGE \@title \par}%
    \vskip 1.5em%
    {\large
      \lineskip .5em%
      \begin{tabular}[t]{c}%
        \@author
      \end{tabular}\par}%
    \vskip 1em%
    {\large \@date}%
  \end{center}%
  \par
  \vskip 1.5em}
```

```
\fi
\renewcommand*\l@part[2]{%
  \ifnum \c@tocdepth >-2\relax
    \addpenalty{-\@highpenalty}%
    \addvspace{2.25em \@plus\p@}%
    \begingroup
      \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
      \parfillskip -\@pnumwidth
      {\leavevmode
       \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
       \nobreak
         \global\@nobreaktrue
         \everypar{\global\@nobreakfalse\everypar{}}%
    \endgroup
  \fi}
\renewcommand\theequation
  {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
\renewcommand \thefigure
     {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
\renewcommand \thetable
     {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
\renewcommand \thechapter {\@arabic\c@chapter}
\renewcommand \thesection {\thechapter\@SepMark\@arabic\c@section}
\renewcommand\thesubsection  {\thesection\@SepMark\@arabic\c@subsection}
\renewcommand\thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
\renewcommand\theparagraph   {\thesubsubsection\@SepMark\@arabic\c@paragraph}
\renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
\def\@makechapterhead#1{%
  \vspace*{50\p@}%
  {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont
    \ifnum \c@secnumdepth >\m@ne
      \if@mainmatter
        \huge\bfseries \@chapapp\space \thechapter
        \par\nobreak
        \vskip 20\p@
      \fi
    \fi
    \interlinepenalty\@M
    \Huge \bfseries #1\par\nobreak
    \vskip 40\p@
  }}

\def\@makeschapterhead#1{%
  \vspace*{50\p@}%
  {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
    \normalfont
    \interlinepenalty\@M
    \Huge \bfseries  #1\par\nobreak
    \vskip 40\p@
  }}
```

```
\renewcommand\backmatter{%
  \if@openright
    \cleardoublepage
  \else
    \clearpage
  \fi
  \@mainmatterfalse}
\renewenvironment{thebibliography}[1]
     {\chapter*{\bibname
        \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}}%
    \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
      \list{\@biblabel{\@arabic\c@enumiv}}%
           {\settowidth\labelwidth{\@biblabel{#1}}%
            \leftmargin\labelwidth
            \advance\leftmargin\labelsep
            \@openbib@code
            \usecounter{enumiv}%
            \let\p@enumiv\@empty
            \renewcommand\theenumiv{\@arabic\c@enumiv}}%
      \sloppy
      \clubpenalty4000
      \@clubpenalty \clubpenalty
      \widowpenalty4000%
      \sfcode`\.\@m}
     {\def\@noitemerr
       {\@latex@warning{Empty `thebibliography' environment}}%
      \endlist}
```

7.54 extletter-xetex-bidi.def

```
\ProvidesFile{extletter-xetex-bidi.def}[2015/11/14 v0.2 bidi adaptations for extletter class for
\renewcommand*{\opening}[1]{\ifx\@empty\fromaddress
  \thispagestyle{firstpage}%
    {\if@RTL\raggedright\else\raggedleft\fi\@date\par}%
  \else  % home address
    \thispagestyle{empty}%
   {\if@RTL\raggedright\begin{tabular}{r@{}}\else\raggedleft\begin{tabular}{l@{}}\fi\ignorespa
      \fromaddress \\*[2\parskip]%
      \@date \end{tabular}\par}%
  \fi
  \vspace{2\parskip}%
  {\if@RTL\raggedleft\else\raggedright\fi \toname \\ \toaddress \par}%
  \vspace{2\parskip}%
  #1\par\nobreak}
\renewcommand{\closing}[1]{\par\nobreak\vspace{\parskip}%
  \stopbreaks
  \noindent
  \ifx\@empty\fromaddress\else
  \hspace*{\longindentation}\fi
  \parbox{\indentedwidth}{\if@RTL\raggedleft\else\raggedright\fi
```

```
      \ignorespaces #1\\[6\medskipamount]%
      \ifx\@empty\fromsig
          \fromname
      \else \fromsig \fi\strut}%
  \par}
\renewcommand\left@footnoterule{%
  \kern-\p@
  \hrule \@width .4\columnwidth
  \kern .6\p@}
\renewcommand\right@footnoterule{%
  \kern-\p@
  \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
  \kern .6\p@}
```

7.55 extrafootnotefeatures-xetex-bidi.def

```
\ProvidesFile{extrafootnotefeatures-xetex-bidi.def}[2015/11/23 v0.7 bidi extra footnote feature
\let\autofootnoterule\relax
\let\rightfootnoterule\relax
\let\leftfootnoterule\relax
\let\textwidthfootnoterule\relax
\let\LRfootnoterule\relax
\def\footnoterule{\kern-3\p@
  \hrule \@width \columnwidth \kern 2.6\p@}
\bidi@ensure@newcommand{\setRTLparagraphfootnotes}{\@parafootRTLtrue}
\bidi@ensure@newcommand{\setLTRparagraphfootnotes}{\@parafootRTLfalse}
\renewcommand{\@footnotetext}[1]{%
    \insert\footins{%
    \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
    \def\baselinestretch{\m@m@footnote@spacing}%
    \reset@font
    \foottextfont
    \@preamfntext
    \hsize\columnwidth
    \protected@edef\@currentlabel{%
      \csname p@footnote\endcsname\@thefnmark}%
    \color@begingroup
      \@makefntext{%
        \rule\z@\footnotesep\ignorespaces{\foottextfont #1}%
        \@finalstrut\strutbox}%
    \color@endgroup}%
      \m@mmf@prepare}
\renewcommand{\@RTLfootnotetext}[1]{%
    \insert\footins{%
    \@RTLtrue%
    \def\baselinestretch{\m@m@footnote@spacing}%
    \reset@font
    \RTLfoottextfont
    \@preamfntext
    \hsize\columnwidth
```

```
    \protected@edef\@currentlabel{%
      \csname p@footnote\endcsname\@thefnmark}%
    \color@begingroup
      \@makefntext{%
        \rule\z@\footnotesep\ignorespaces{\RTLfoottextfont #1}%
        \@finalstrut\strutbox}%
    \color@endgroup}%
      \m@mmf@prepare}
\renewcommand{\@LTRfootnotetext}[1]{%
    \insert\footins{%
    \@RTLfalse%
    \def\baselinestretch{\m@m@footnote@spacing}%
    \reset@font
    \LTRfoottextfont
    \@preamfntext
    \hsize\columnwidth
    \protected@edef\@currentlabel{%
      \csname p@footnote\endcsname\@thefnmark}%
    \color@begingroup
      \@makefntext{%
        \rule\z@\footnotesep\ignorespaces{\LTRfoottextfont #1}%
        \@finalstrut\strutbox}%
    \color@endgroup}%
      \m@mmf@prepare}
\renewcommand{\@mpfootnotetext}[1]{%
 \global\setbox\@mpfootins\vbox{\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
    \unvbox\@mpfootins
    \def\baselinestretch{\m@m@footnote@spacing}%
    \foottextfont \hsize\columnwidth \@parboxrestore
    \protected@edef\@currentlabel{%
      \csname p@mpfootnote\endcsname\@thefnmark}%
 \color@begingroup
 \reset@font%
   \@makefntext{%
     \rule\z@\footnotesep\ignorespaces{\foottextfont #1}%
     \@finalstrut\strutbox}%
 \color@endgroup}}
\renewcommand{\@mpLTRfootnotetext}[1]{%
 \global\setbox\@mpfootins\vbox{\@RTLfalse%
   \unvbox\@mpfootins
   \def\baselinestretch{\m@m@footnote@spacing}%
   \LTRfoottextfont \hsize\columnwidth \@parboxrestore
   \protected@edef\@currentlabel{%
     \csname p@mpfootnote\endcsname\@thefnmark}%
 \color@begingroup
 \reset@font%
   \@makefntext{%
     \rule\z@\footnotesep\ignorespaces{\LTRfoottextfont #1}%
     \@finalstrut\strutbox}%
 \color@endgroup}}
```

```
\renewcommand{\@mpRTLfootnotetext}[1]{%
  \global\setbox\@mpfootins\vbox{\@RTLtrue%
    \unvbox\@mpfootins
    \def\baselinestretch{\m@m@footnote@spacing}%
    \RTLfoottextfont \hsize\columnwidth \@parboxrestore
    \protected@edef\@currentlabel{%
      \csname p@mpfootnote\endcsname\@thefnmark}%
  \color@begingroup
  \reset@font%
    \@makefntext{%
      \rule\z@\footnotesep\ignorespaces{\RTLfoottextfont #1}%
      \@finalstrut\strutbox}%
  \color@endgroup}}
\let\m@mold@footnotetext\@footnotetext
\let\m@mold@LTRfootnotetext\@LTRfootnotetext
\let\m@mold@RTLfootnotetext\@RTLfootnotetext
\let\m@mold@mpfootnotetext\@mpfootnotetext
\let\m@mold@mpLTRfootnotetext\@mpLTRfootnotetext
\let\m@mold@mpRTLfootnotetext\@mpRTLfootnotetext
\bidi@ensure@newcommand{\normalfootnotes}{%
  \let\@footnotetext\m@mold@footnotetext
  \let\@LTRfootnotetext\m@mold@LTRfootnotetext
  \let\@RTLfootnotetext\m@mold@RTLfootnotetext
  \let\@mpfootnotetext\m@mold@mpfootnotetext
  \let\@mpLTRfootnotetext\m@mold@mpLTRfootnotetext
  \let\@mpRTLfootnotetext\m@mold@mpRTLfootnotetext}
\@ifclassloaded{memoir}{\let\plainfootnotes\normalfootnotes}{}
\bidi@ensure@newcommand*{\RTLcolumnfootnotes}{\@RTLcolumnfootnotestrue}
\bidi@ensure@newcommand*{\LTRcolumnfootnotes}{\@RTLcolumnfootnotesfalse}
\bidi@ensure@newcommand*{\setSingleSpace}[1]{%
  \def\m@m@singlespace{#1}%
  \def\m@m@footnote@spacing{#1}%
  \def\m@m@float@spacing{#1} %
}
\setSingleSpace{1}
\newinsert\sideins
\bidi@ensure@newcommand*{\multiplefootnotemarker}{3sp}
\bidi@ensure@newcommand*{\m@mmf@prepare}{%
  \kern-\multiplefootnotemarker
  \kern\multiplefootnotemarker\relax}
\bidi@ensure@newlength{\footmarkwidth}
\bidi@ensure@newlength{\footmarksep}
\bidi@ensure@newlength{\footparindent}
\bidi@ensure@newcommand*{\footmarkstyle}[1]{\def\footscript##1{#1}}
\bidi@ensure@newcommand{\footfootmark}{%
  \ifdim\footmarkwidth < \z@
    \llap{\hb@xt@ -\footmarkwidth{%
            \hss\normalfont\footscript{\@thefnmark}}%
          \hspace*{-\footmarkwidth}}%
  \else
```

```
    \ifdim\footmarkwidth = \z@
      {\normalfont\footscript{\@thefnmark}}%
    \else
      \hb@xt@\footmarkwidth{\hss\normalfont\footscript{\@thefnmark}}%
    \fi
  \fi}
\footmarkstyle{\textsuperscript{#1}}
\setlength{\footmarkwidth}{1.8em}
\setlength{\footparindent}{1em}
\bidi@ensure@newcommand{\m@mdoextrafeet}{\extrafeetins}
\bidi@ensure@newcommand*{\extrafeetins}{%
  \setbox\@outputbox \vbox{%
    \boxmaxdepth \@maxdepth
    \unvbox\@outputbox
    \ifvoid\footinsv@r\else\@footstartv@r\@footgroupv@r\fi
    \extrafeetinshook}}
\bidi@ensure@newcommand{\extrafeetinshook}{}
\bidi@ensure@newcommand{\foottextfont}{\footnotesize}
\bidi@ensure@newcommand{\LTRfoottextfont}{\footnotesize}
\bidi@ensure@newcommand{\RTLfoottextfont}{\footnotesize}
\bidi@ensure@newlength{\footinsdim}
  \setlength{\footinsdim}{8in}   % standard for \dimen\footins
\bidi@ensure@newcommand{\@preamfntext}{%
  \interlinepenalty\interfootnotelinepenalty
  \floatingpenalty \@MM
  \splittopskip=\footnotesep
  \splitmaxdepth=\dp\strutbox
  \@parboxrestore}
\bidi@ensure@newcommand{\m@mdoextrafeetmini}{%
  \extrafeetminihook}
\bidi@ensure@newcommand{\extrafeetendmini}{%
  \ifvoid\@mpfootinsv@r\else
    \vskip\skip\@mpfootins
    \normalcolor\footnoterule\mp@footgroupv@r
  \fi
  \extrafeetendminihook}
\bidi@ensure@newcommand{\extrafeetendminihook}{}
\bidi@ensure@newcommand{\m@mdoextrafeetendmini}{\extrafeetendmini}
\def\endminipage{%
  \par
  \unskip
  \ifvoid\@mpfootins\else
    \vskip\skip\@mpfootins
    \normalcolor
    \footnoterule
    \unvbox\@mpfootins
  \fi
  \m@mdoextrafeetendmini
  \@minipagefalse
  \color@endgroup
```

```
  \egroup
  \expandafter\@iiiparbox\@mpargs{\unvbox\@tempboxa}}
\bidi@ensure@newcommand{\m@make@footstart}[1]{%
  \@namedef{@footstart#1}{%
    \vskip\bigskipamount
    \leftskip=\z@
    \rightskip=\z@
    \footnoterule}}
\newinsert\footinsv@r
  \skip\footinsv@r\bigskipamount
  \count\footinsv@r=1000 % no magnifcation
  \dimen\footinsv@r=\footinsdim
\m@make@footstart{v@r}
\bidi@ensure@newcommand{\@footgroupv@r}{}
\newinsert\@mpfootinsv@r
\bidi@ensure@newcommand{\mp@footgroupv@r}{}
\newcount\m@m@k \newdimen\m@m@h
\@ifpackageloaded{multicol}{%
\bidi@ensure@newcommand*{\m@mrigidbalance}[3]{\setbox0=\box#1 \m@m@k=#2 \m@m@h=#3
  \hsize\textwidth
 \@@line{\if@RTLcolumnfootnotes\beginR\fi\splittopskip=\m@m@h \vbadness=\@M \hfilneg
  \valign{##\vfill\cr\m@mdosplits}\if@RTLcolumnfootnotes\endR\fi}}
}{%
\bidi@ensure@newcommand*{\m@mrigidbalance}[3]{\setbox0=\box#1 \m@m@k=#2 \m@m@h=#3
 \@@line{\if@RTLcolumnfootnotes\beginR\fi\splittopskip=\m@m@h \vbadness=\@M \hfilneg
  \valign{##\vfill\cr\m@mdosplits}\if@RTLcolumnfootnotes\endR\fi}}}
\bidi@ensure@newcommand*{\m@mdosplits}{\ifnum\m@m@k>0 \noalign{\hfil}\m@msplitoff
  \global\advance\m@m@k-1\cr\m@mdosplits\fi}
\bidi@ensure@newcommand*{\m@msplitoff}{\dimen0=\ht0
  \divide\dimen0 by\m@m@k \advance\dimen0 by\m@m@h
  \setbox2 \vsplit0 to \dimen0
  \unvbox2 }
\bidi@ensure@newcommand{\twocolumnfootnotes}{%
  \@namedef{foottextfontv@r}{\foottextfont}%  % [RS]
  \let\@footnotetext\@twocolfootnotetext
  \let\@LTRfootnotetext\@twocolLTRfootnotetext
  \let\@RTLfootnotetext\@twocolRTLfootnotetext
  \dimen\footinsv@r=2\footinsdim
  \count\footinsv@r=500\relax
  \m@make@twocol@footgroup{v@r}%
  \let\@footgroupv@r\@twocol@footgroupv@r
  \let\@mpfootnotetext\@mptwocolfootnotetext
  \let\@mpLTRfootnotetext\@mptwocolLTRfootnotetext
  \let\@mpRTLfootnotetext\@mptwocolRTLfootnotetext
  \m@make@mptwocol@footgroup{v@r}%
  \let\mp@footgroupv@r\@mptwocol@footgroupv@r}
\bidi@ensure@newcommand{\@twocolfootnotetext}[1]{\insert\footinsv@r{\if@RTL@footnote\@RTLtrue
  \def\baselinestretch{\m@m@footnote@spacing}%
  \reset@font\foottextfont
  \@preamfntext
```

```
  \protected@edef\@currentlabel{%
    \csname p@footnote\endcsname\@thefnmark}%
  \color@begingroup
    \@twocolfootfmt{#1}%
  \color@endgroup}%
  \m@mmf@prepare}
\bidi@ensure@newcommand{\@twocolLTRfootnotetext}[1]{\insert\footinsv@r{\if@RTLcolumnfootnotes
  \def\baselinestretch{\m@m@footnote@spacing}%
  \reset@font\LTRfoottextfont
  \@preamfntext
  \protected@edef\@currentlabel{%
    \csname p@footnote\endcsname\@thefnmark}%
  \color@begingroup
    \@twocolLTRfootfmt{#1}%
  \color@endgroup}%
  \m@mmf@prepare}
\bidi@ensure@newcommand{\@twocolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
  \def\baselinestretch{\m@m@footnote@spacing}%
  \reset@font\RTLfoottextfont
  \@preamfntext
  \protected@edef\@currentlabel{%
    \csname p@footnote\endcsname\@thefnmark}%
  \color@begingroup
    \@twocolRTLfootfmt{#1}%
  \color@endgroup}%
  \m@mmf@prepare}
\bidi@ensure@newcommand{\@preamtwofmt}{%
  \hsize .45\hsize
  \parindent=\z@
  \tolerance=5000\relax
  \leavevmode}
\bidi@ensure@newcommand{\@twocolfootfmt}[1]{%
  \@preamtwofmt
  {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
\bidi@ensure@newcommand{\@twocolLTRfootfmt}[1]{%
  \@preamtwofmt
  {\footfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
\bidi@ensure@newcommand{\@twocolRTLfootfmt}[1]{%
  \@preamtwofmt
  {\footfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
\bidi@ensure@newcommand{\@mptwocolfootnotetext}[1]{%
 \global\setbox\@mpfootinsv@r\vbox{\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
    \unvbox\@mpfootinsv@r
    \def\baselinestretch{\m@m@footnote@spacing}%
    \reset@font\foottextfont
    \hsize\columnwidth \@parboxrestore
    \protected@edef\@currentlabel{%
      \csname p@mpfootnote\endcsname\@thefnmark}%
  \color@begingroup
    \@twocolfootfmt{#1}%
```

```
  \color@endgroup}%
  \m@mmf@prepare}
\bidi@ensure@newcommand{\@mptwocolLTRfootnotetext}[1]{%
  \global\setbox\@mpfootinsv@r\vbox{\@RTLfalse%
    \unvbox\@mpfootinsv@r
    \def\baselinestretch{\m@m@footnote@spacing}%
    \reset@font\LTRfoottextfont
    \hsize\columnwidth \@parboxrestore
    \if@RTLcolumnfootnotes\beginL\fi
    \protected@edef\@currentlabel{%
      \csname p@mpfootnote\endcsname\@thefnmark}%
  \color@begingroup
    \@twocolLTRfootfmt{#1}%
  \color@endgroup}%
  \m@mmf@prepare}
\bidi@ensure@newcommand{\@mptwocolRTLfootnotetext}[1]{%
  \global\setbox\@mpfootinsv@r\vbox{\@RTLtrue%
    \unvbox\@mpfootinsv@r
    \def\baselinestretch{\m@m@footnote@spacing}%
    \reset@font\RTLfoottextfont
    \hsize\columnwidth \@parboxrestore
    \protected@edef\@currentlabel{%
      \csname p@mpfootnote\endcsname\@thefnmark}%
  \color@begingroup
    \@twocolRTLfootfmt{#1}%
  \color@endgroup}%
  \m@mmf@prepare}
\bidi@ensure@newcommand{\twocolumnfootstyle}[1]{%
  \m@make@twocolfootnotetext{#1}%
  \m@make@mptwocolfootnotetext{#1}%
  \m@make@twocolfootfmt{#1}%
  \m@make@twocol@footgroup{#1}%
  \m@make@mptwocol@footgroup{#1}%
  \m@make@footstart{#1}%
  \bidi@namelongdef{@footnotetext#1}##1{%
     \@nameuse{@twocolfootnotetext#1}{##1}}%
  \bidi@namelongdef{@mpfootnotetext#1}##1{%
     \@nameuse{@mptwocolfootnotetext#1}{##1}}%
  \@namedef{@footgroup#1}{\@nameuse{@twocol@footgroup#1}}%
  \@namedef{mp@footgroup#1}{\@nameuse{@mptwocol@footgroup#1}}%
  \expandafter\dimen\csname footins#1\endcsname=2\footinsdim
  \expandafter\count\csname footins#1\endcsname=500\relax}
\bidi@ensure@newcommand{\m@make@twocolfootnotetext}[1]{%
  \bidi@namelongdef{@twocolfootnotetext#1}##1{%
    \insert\@nameuse{footins#1}{%
    \def\baselinestretch{\m@m@footnote@spacing}%
    \reset@font\@nameuse{foottextfont#1}%
    \@preamfntext
    \protected@edef\@currentlabel{%
      \csname p@footnote#1\endcsname \@nameuse{@thefnmark#1}}%
```

```
    \color@begingroup
      \@nameuse{@twocolfootfmt#1}{##1}%
    \color@endgroup}%
    \m@mmf@prepare}}
\bidi@ensure@newcommand{\m@make@mptwocolfootnotetext}[1]{%
\bidi@namelongdef{@mptwocolfootnotetext#1}##1{%
  \global\setbox\@nameuse{@mpfootins#1}\vbox{%
    \unvbox\@nameuse{@mpfootins#1}
    \def\baselinestretch{\m@m@footnote@spacing}%
    \reset@font\@nameuse{foottextfont#1}%
    \hsize\columnwidth \@parboxrestore
    \protected@edef\@currentlabel{%
      \csname p@mpfootnote#1\endcsname\@nameuse{@thefnmark#1}}%
  \color@begingroup
    \@nameuse{@twocolfootfmt#1}{##1}%
  \color@endgroup}\m@mmf@prepare}}
\bidi@ensure@newcommand{\m@make@twocolfootfmt}[1]{%
  \@namedef{@twocolfootfmt#1}##1{%
    \@preamtwofmt
    {\@nameuse{footfootmark#1}\strut
     {\@nameuse{foottextfont#1}##1}\strut\par}\allowbreak}}
\bidi@ensure@newcommand{\m@make@twocol@footgroup}[1]{%
  \@namedef{@twocol@footgroup#1}{{%
   \def\baselinestretch{\m@m@footnote@spacing}%
    \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
     \m@mrigidbalance{\@nameuse{footins#1}}{\tw@}{\splittopskip}}}}
\bidi@ensure@newcommand{\m@make@mptwocol@footgroup}[1]{%
\@namedef{@mptwocol@footgroup#1}{{%
 \def\baselinestretch{\m@m@footnote@spacing}%
  \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
  \m@mrigidbalance{\@nameuse{@mpfootins#1}}{\tw@}{\splittopskip}}}}
\bidi@ensure@newcommand{\threecolumnfootnotes}{%
  \@namedef{foottextfontv@r}{\foottextfont}%  % [RS]
  \let\@footnotetext\@threecolfootnotetext
  \let\@LTRfootnotetext\@threecolLTRfootnotetext
  \let\@RTLfootnotetext\@threecolRTLfootnotetext
  \dimen\footinsv@r=3\footinsdim
  \count\footinsv@r=333\relax
  \m@make@threecol@footgroup{v@r}%
  \let\@footgroupv@r\@threecol@footgroupv@r
  \let\@mpfootnotetext\@mpthreecolfootnotetext
  \let\@mpLTRfootnotetext\@mpthreecolLTRfootnotetext
  \let\@mpRTLfootnotetext\@mpthreecolRTLfootnotetext
  \m@make@mpthreecol@footgroup{v@r}%
  \let\mp@footgroupv@r\@mpthreecol@footgroupv@r}
\bidi@ensure@newcommand{\@threecolfootnotetext}[1]{\insert\footinsv@r{\if@RTL@footnote\@RTLtr
  \def\baselinestretch{\m@m@footnote@spacing}%
  \reset@font\foottextfont
  \@preamfntext
  \protected@edef\@currentlabel{%
```

```
    \csname p@footnote\endcsname\@thefnmark}%
  \color@begingroup
    \@threecolfootfmt{#1}%
  \color@endgroup}\m@mmf@prepare}
\bidi@ensure@newcommand{\@threecolLTRfootnotetext}[1]{\insert\footinsv@r{\if@RTLcolumnfootnot
  \def\baselinestretch{\m@m@footnote@spacing}%
  \reset@font\LTRfoottextfont
  \@preamfntext
  \protected@edef\@currentlabel{%
    \csname p@footnote\endcsname\@thefnmark}%
  \color@begingroup
    \@threecolLTRfootfmt{#1}%
  \color@endgroup}\m@mmf@prepare}
\bidi@ensure@newcommand{\@threecolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
  \def\baselinestretch{\m@m@footnote@spacing}%
  \reset@font\RTLfoottextfont
  \@preamfntext
  \protected@edef\@currentlabel{%
    \csname p@footnote\endcsname\@thefnmark}%
  \color@begingroup
    \@threecolRTLfootfmt{#1}%
  \color@endgroup}\m@mmf@prepare}
\bidi@ensure@newcommand{\@preamthreefmt}{%
  \hsize .3\hsize
  \parindent=\z@
  \tolerance=5000\relax
  \leavevmode}
\bidi@ensure@newcommand{\@threecolfootfmt}[1]{%
  \@preamthreefmt
  {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
\bidi@ensure@newcommand{\@threecolLTRfootfmt}[1]{%
  \@preamthreefmt
  {\footfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
\bidi@ensure@newcommand{\@threecolRTLfootfmt}[1]{%
  \@preamthreefmt
  {\footfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
\bidi@ensure@newcommand{\@mpthreecolfootnotetext}[1]{%
 \global\setbox\@mpfootinsv@r\vbox{\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
    \unvbox\@mpfootinsv@r
    \def\baselinestretch{\m@m@footnote@spacing}%
    \reset@font\foottextfont
    \hsize\columnwidth \@parboxrestore
    \protected@edef\@currentlabel{%
      \csname p@mpfootnote\endcsname\@thefnmark}%
  \color@begingroup
    \@threecolfootfmt{#1}%
  \color@endgroup}\m@mmf@prepare}
\bidi@ensure@newcommand{\@mpthreecolLTRfootnotetext}[1]{%
  \global\setbox\@mpfootinsv@r\vbox{\@RTLfalse%
    \unvbox\@mpfootinsv@r
```

```
    \def\baselinestretch{\m@m@footnote@spacing}%
    \reset@font\LTRfoottextfont
    \hsize\columnwidth \@parboxrestore
    \if@RTLcolumnfootnotes\beginL\fi
    \protected@edef\@currentlabel{%
      \csname p@mpfootnote\endcsname\@thefnmark}%
  \color@begingroup
    \@threecolLTRfootfmt{#1}%
  \color@endgroup}\m@mmf@prepare}
\bidi@ensure@newcommand{\@mpthreecolRTLfootnotetext}[1]{%
  \global\setbox\@mpfootinsv@r\vbox{\@RTLtrue%
    \unvbox\@mpfootinsv@r
    \def\baselinestretch{\m@m@footnote@spacing}%
    \reset@font\RTLfoottextfont
    \hsize\columnwidth \@parboxrestore
    \protected@edef\@currentlabel{%
      \csname p@mpfootnote\endcsname\@thefnmark}%
  \color@begingroup
    \@threecolRTLfootfmt{#1}%
  \color@endgroup}\m@mmf@prepare}
\bidi@ensure@newcommand{\threecolumnfootstyle}[1]{%
  \m@make@threecolfootnotetext{#1}%
  \m@make@mpthreecolfootnotetext{#1}%
  \m@make@threecolfootfmt{#1}%
  \m@make@threecol@footgroup{#1}%
  \m@make@mpthreecol@footgroup{#1}%
  \m@make@footstart{#1}%
  \bidi@namelongdef{@footnotetext#1}##1{%
    \@nameuse{@threecolfootnotetext#1}{##1}}%
  \bidi@namelongdef{@mpfootnotetext#1}##1{%
    \@nameuse{@mpthreecolfootnotetext#1}{##1}}%
  \@namedef{@footgroup#1}{\@nameuse{@threecol@footgroup#1}}%
  \@namedef{mp@footgroup#1}{\@nameuse{@mpthreecol@footgroup#1}}%
  \expandafter\dimen\csname footins#1\endcsname=3\footinsdim
  \expandafter\count\csname footins#1\endcsname=333\relax}
\bidi@ensure@newcommand{\m@make@threecolfootnotetext}[1]{%
\bidi@namelongdef{@threecolfootnotetext#1}##1{%
  \insert\@nameuse{footins#1}{%
  \def\baselinestretch{\m@m@footnote@spacing}%
  \reset@font\@nameuse{foottextfont#1}%
  \@preamfntext
  \protected@edef\@currentlabel{%
    \csname p@footnote#1\endcsname \@nameuse{@thefnmark#1}}%
  \color@begingroup
    \@nameuse{@threecolfootfmt#1}{##1}%
  \color@endgroup}\m@mmf@prepare}}
\bidi@ensure@newcommand{\m@make@mpthreecolfootnotetext}[1]{%
\bidi@namelongdef{@mpthreecolfootnotetext#1}##1{%
  \global\setbox\@nameuse{@mpfootins#1}\vbox{%
    \unvbox\@nameuse{@mpfootins#1}
```

```
    \def\baselinestretch{\m@m@footnote@spacing}%
    \reset@font\@nameuse{foottextfont#1}%
    \hsize\columnwidth \@parboxrestore
    \protected@edef\@currentlabel{%
      \csname p@mpfootnote#1\endcsname\@nameuse{@thefnmark#1}}%
  \color@begingroup
    \@nameuse{@threecolfootfmt#1}{##1}%
  \color@endgroup}\m@mmf@prepare}}
\bidi@ensure@newcommand{\m@make@threecolfootfmt}[1]{%
\bidi@namelongdef{@threecolfootfmt#1}##1{%
  \@preamthreefmt
  {\@nameuse{footfootmark#1}\strut
   {\@nameuse{foottextfont#1}##1}\strut\par}\allowbreak}}
\bidi@ensure@newcommand{\m@make@threecol@footgroup}[1]{%
\@namedef{@threecol@footgroup#1}{{%
 \def\baselinestretch{\m@m@footnote@spacing}%
  \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
  \m@mrigidbalance{\@nameuse{footins#1}}{\thr@@}{\splittopskip}}}}
\bidi@ensure@newcommand{\m@make@mpthreecol@footgroup}[1]{%
\@namedef{@mpthreecol@footgroup#1}{{%
 \def\baselinestretch{\m@m@footnote@spacing}%
  \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
  \m@mrigidbalance{\@nameuse{@mpfootins#1}}{\thr@@}{\splittopskip}}}}
\bidi@ensure@newcommand{\fourcolumnfootnotes}{%
  \@namedef{foottextfontv@r}{\foottextfont}%  % [RS]
  \let\@footnotetext\@fourcolfootnotetext
  \let\@LTRfootnotetext\@fourcolLTRfootnotetext
  \let\@RTLfootnotetext\@fourcolRTLfootnotetext
  \dimen\footinsv@r=4\footinsdim
  \count\footinsv@r=250\relax
  \m@make@fourcol@footgroup{v@r}%
  \let\@footgroupv@r\@fourcol@footgroupv@r
  \let\@mpfootnotetext\@mpfourcolfootnotetext
  \let\@mpLTRfootnotetext\@mpfourcolLTRfootnotetext
  \let\@mpRTLfootnotetext\@mpfourcolRTLfootnotetext
  \m@make@mpfourcol@footgroup{v@r}%
  \let\mp@footgroupv@r\@mpfourcol@footgroupv@r}
\bidi@ensure@newcommand{\@fourcolfootnotetext}[1]{\insert\footinsv@r{\if@RTL@footnote\@RTLtru
  \def\baselinestretch{\m@m@footnote@spacing}%
  \reset@font\foottextfont
  \@preamfntext
  \protected@edef\@currentlabel{%
    \csname p@footnote\endcsname\@thefnmark}%
  \color@begingroup
    \@fourcolfootfmt{#1}%
  \color@endgroup}%
  \m@mmf@prepare}
\bidi@ensure@newcommand{\@fourcolLTRfootnotetext}[1]{\insert\footinsv@r{\if@RTLcolumnfootnote
  \def\baselinestretch{\m@m@footnote@spacing}%
  \reset@font\LTRfoottextfont
```

```
  \@preamfntext
  \protected@edef\@currentlabel{%
    \csname p@footnote\endcsname\@thefnmark}%
  \color@begingroup
    \@fourcolLTRfootfmt{#1}%
  \color@endgroup}%
  \m@mmf@prepare}
\bidi@ensure@newcommand{\@fourcolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
  \def\baselinestretch{\m@m@footnote@spacing}%
  \reset@font\RTLfoottextfont
  \@preamfntext
  \protected@edef\@currentlabel{%
    \csname p@footnote\endcsname\@thefnmark}%
  \color@begingroup
    \@fourcolRTLfootfmt{#1}%
  \color@endgroup}%
  \m@mmf@prepare}
\bidi@ensure@newcommand{\@preamfourfmt}{%
  \hsize .25\hsize
  \parindent=\z@
  \tolerance=5000\relax
  \leavevmode}
\bidi@ensure@newcommand{\@fourcolfootfmt}[1]{%
  \@preamfourfmt
  {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
\bidi@ensure@newcommand{\@fourcolLTRfootfmt}[1]{%
  \@preamfourfmt
  {\footfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
\bidi@ensure@newcommand{\@fourcolRTLfootfmt}[1]{%
  \@preamfourfmt
  {\footfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
\bidi@ensure@newcommand{\@mpfourcolfootnotetext}[1]{%
 \global\setbox\@mpfootinsv@r\vbox{\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
    \unvbox\@mpfootinsv@r
    \def\baselinestretch{\m@m@footnote@spacing}%
    \reset@font\foottextfont
    \hsize\columnwidth \@parboxrestore
    \protected@edef\@currentlabel{%
      \csname p@mpfootnote\endcsname\@thefnmark}%
  \color@begingroup
    \@fourcolfootfmt{#1}%
  \color@endgroup}%
  \m@mmf@prepare}
\bidi@ensure@newcommand{\@mpfourcolLTRfootnotetext}[1]{%
  \global\setbox\@mpfootinsv@r\vbox{\@RTLfalse%
    \unvbox\@mpfootinsv@r
    \def\baselinestretch{\m@m@footnote@spacing}%
    \reset@font\LTRfoottextfont
    \hsize\columnwidth \@parboxrestore
    \if@RTLcolumnfootnotes\beginL\fi
```

```
    \protected@edef\@currentlabel{%
      \csname p@mpfootnote\endcsname\@thefnmark}%
  \color@begingroup
    \@fourcolLTRfootfmt{#1}%
  \color@endgroup}%
  \m@mmf@prepare}
\bidi@ensure@newcommand{\@mpfourcolRTLfootnotetext}[1]{%
  \global\setbox\@mpfootinsv@r\vbox{\@RTLtrue%
    \unvbox\@mpfootinsv@r
    \def\baselinestretch{\m@m@footnote@spacing}%
    \reset@font\RTLfoottextfont
    \hsize\columnwidth \@parboxrestore
    \protected@edef\@currentlabel{%
      \csname p@mpfootnote\endcsname\@thefnmark}%
  \color@begingroup
    \@fourcolRTLfootfmt{#1}%
  \color@endgroup}%
  \m@mmf@prepare}
\bidi@ensure@newcommand{\fourcolumnfootstyle}[1]{%
  \m@make@fourcolfootnotetext{#1}%
  \m@make@mpfourcolfootnotetext{#1}%
  \m@make@fourcolfootfmt{#1}%
  \m@make@fourcol@footgroup{#1}%
  \m@make@mpfourcol@footgroup{#1}%
  \m@make@footstart{#1}%
  \bidi@namelongdef{@footnotetext#1}##1{%
     \@nameuse{@fourcolfootnotetext#1}{##1}}%
  \bidi@namelongdef{@mpfootnotetext#1}##1{%
     \@nameuse{@mpfourcolfootnotetext#1}{##1}}%
  \@namedef{@footgroup#1}{\@nameuse{@fourcol@footgroup#1}}%
  \@namedef{mp@footgroup#1}{\@nameuse{@mpfourcol@footgroup#1}}%
  \expandafter\dimen\csname footins#1\endcsname=2\footinsdim
  \expandafter\count\csname footins#1\endcsname=500\relax}
\bidi@ensure@newcommand{\m@make@fourcolfootnotetext}[1]{%
  \bidi@namelongdef{@fourcolfootnotetext#1}##1{%
    \insert\@nameuse{footins#1}{%
    \def\baselinestretch{\m@m@footnote@spacing}%
    \reset@font\@nameuse{foottextfont#1}%
    \@preamfntext
    \protected@edef\@currentlabel{%
      \csname p@footnote#1\endcsname \@nameuse{@thefnmark#1}}%
    \color@begingroup
      \@nameuse{@fourcolfootfmt#1}{##1}%
    \color@endgroup}%
    \m@mmf@prepare}}
\bidi@ensure@newcommand{\m@make@mpfourcolfootnotetext}[1]{%
\bidi@namelongdef{@mpfourcolfootnotetext#1}##1{%
  \global\setbox\@nameuse{@mpfootins#1}\vbox{%
    \unvbox\@nameuse{@mpfootins#1}
    \def\baselinestretch{\m@m@footnote@spacing}%
```

```
    \reset@font\@nameuse{foottextfont#1}%
    \hsize\columnwidth \@parboxrestore
    \protected@edef\@currentlabel{%
      \csname p@mpfootnote#1\endcsname\@nameuse{@thefnmark#1}}%
  \color@begingroup
    \@nameuse{@fourcolfootfmt#1}{##1}%
  \color@endgroup}\m@mmf@prepare}}
\bidi@ensure@newcommand{\m@make@fourcolfootfmt}[1]{%
  \@namedef{@fourcolfootfmt#1}##1{%
    \@preamfourfmt
    {\@nameuse{footfootmark#1}\strut
     {\@nameuse{foottextfont#1}##1}\strut\par}\allowbreak}}
\bidi@ensure@newcommand{\m@make@fourcol@footgroup}[1]{%
  \@namedef{@fourcol@footgroup#1}{{%
   \def\baselinestretch{\m@m@footnote@spacing}%
    \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
     \m@mrigidbalance{\@nameuse{footins#1}}{4}{\splittopskip}}}}
\bidi@ensure@newcommand{\m@make@mpfourcol@footgroup}[1]{%
\@namedef{@mpfourcol@footgroup#1}{{%
 \def\baselinestretch{\m@m@footnote@spacing}%
  \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
  \m@mrigidbalance{\@nameuse{@mpfootins#1}}{4}{\splittopskip}}}}
\bidi@ensure@newcommand{\fivecolumnfootnotes}{%
  \@namedef{foottextfontv@r}{\foottextfont}%  % [RS]
  \let\@footnotetext\@fivecolfootnotetext
  \let\@LTRfootnotetext\@fivecolLTRfootnotetext
  \let\@RTLfootnotetext\@fivecolRTLfootnotetext
  \dimen\footinsv@r=5\footinsdim
  \count\footinsv@r=200\relax
  \m@make@fivecol@footgroup{v@r}%
  \let\@footgroupv@r\@fivecol@footgroupv@r
  \let\@mpfootnotetext\@mpfivecolfootnotetext
  \let\@mpLTRfootnotetext\@mpfivecolLTRfootnotetext
  \let\@mpRTLfootnotetext\@mpfivecolRTLfootnotetext
  \m@make@mpfivecol@footgroup{v@r}%
  \let\mp@footgroupv@r\@mpfivecol@footgroupv@r}
\bidi@ensure@newcommand{\@fivecolfootnotetext}[1]{\insert\footinsv@r{\if@RTL@footnote\@RTLtru
  \def\baselinestretch{\m@m@footnote@spacing}%
  \reset@font\foottextfont
  \@preamfntext
  \protected@edef\@currentlabel{%
    \csname p@footnote\endcsname\@thefnmark}%
  \color@begingroup
    \@fivecolfootfmt{#1}%
  \color@endgroup}%
  \m@mmf@prepare}
\bidi@ensure@newcommand{\@fivecolLTRfootnotetext}[1]{\insert\footinsv@r{\if@RTLcolumnfootnote
  \def\baselinestretch{\m@m@footnote@spacing}%
  \reset@font\LTRfoottextfont
  \@preamfntext
```

```
  \protected@edef\@currentlabel{%
    \csname p@footnote\endcsname\@thefnmark}%
  \color@begingroup
    \@fivecolLTRfootfmt{#1}%
  \color@endgroup}%
  \m@mmf@prepare}
\bidi@ensure@newcommand{\@fivecolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
  \def\baselinestretch{\m@m@footnote@spacing}%
  \reset@font\RTLfoottextfont
  \@preamfntext
  \protected@edef\@currentlabel{%
    \csname p@footnote\endcsname\@thefnmark}%
  \color@begingroup
    \@fivecolRTLfootfmt{#1}%
  \color@endgroup}%
  \m@mmf@prepare}
\bidi@ensure@newcommand{\@preamfivefmt}{%
  \hsize .2\hsize
  \parindent=\z@
  \tolerance=5000\relax
  \leavevmode}
\bidi@ensure@newcommand{\@fivecolfootfmt}[1]{%
  \@preamfivefmt
  {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
\bidi@ensure@newcommand{\@fivecolLTRfootfmt}[1]{%
  \@preamfivefmt
  {\footfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
\bidi@ensure@newcommand{\@fivecolRTLfootfmt}[1]{%
  \@preamfivefmt
  {\footfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
\bidi@ensure@newcommand{\@mpfivecolfootnotetext}[1]{%
 \global\setbox\@mpfootinsv@r\vbox{\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
    \unvbox\@mpfootinsv@r
    \def\baselinestretch{\m@m@footnote@spacing}%
    \reset@font\foottextfont
    \hsize\columnwidth \@parboxrestore
    \protected@edef\@currentlabel{%
      \csname p@mpfootnote\endcsname\@thefnmark}%
  \color@begingroup
    \@fivecolfootfmt{#1}%
  \color@endgroup}%
  \m@mmf@prepare}
\bidi@ensure@newcommand{\@mpfivecolLTRfootnotetext}[1]{%
  \global\setbox\@mpfootinsv@r\vbox{\@RTLfalse%
    \unvbox\@mpfootinsv@r
    \def\baselinestretch{\m@m@footnote@spacing}%
    \reset@font\LTRfoottextfont
    \hsize\columnwidth \@parboxrestore
    \if@RTLcolumnfootnotes\beginL\fi
    \protected@edef\@currentlabel{%
```

```
      \csname p@mpfootnote\endcsname\@thefnmark}%
  \color@begingroup
    \@fivecolLTRfootfmt{#1}%
  \color@endgroup}%
  \m@mmf@prepare}
\bidi@ensure@newcommand{\@mpfivecolRTLfootnotetext}[1]{%
  \global\setbox\@mpfootinsv@r\vbox{\@RTLtrue%
    \unvbox\@mpfootinsv@r
    \def\baselinestretch{\m@m@footnote@spacing}%
    \reset@font\RTLfoottextfont
    \hsize\columnwidth \@parboxrestore
    \protected@edef\@currentlabel{%
      \csname p@mpfootnote\endcsname\@thefnmark}%
  \color@begingroup
    \@fivecolRTLfootfmt{#1}%
  \color@endgroup}%
  \m@mmf@prepare}
\bidi@ensure@newcommand{\fivecolumnfootstyle}[1]{%
  \m@make@fivecolfootnotetext{#1}%
  \m@make@mpfivecolfootnotetext{#1}%
  \m@make@fivecolfootfmt{#1}%
  \m@make@fivecol@footgroup{#1}%
  \m@make@mpfivecol@footgroup{#1}%
  \m@make@footstart{#1}%
  \bidi@namelongdef{@footnotetext#1}##1{%
     \@nameuse{@fivecolfootnotetext#1}{##1}}%
  \bidi@namelongdef{@mpfootnotetext#1}##1{%
     \@nameuse{@mpfivecolfootnotetext#1}{##1}}%
  \@namedef{@footgroup#1}{\@nameuse{@fivecol@footgroup#1}}%
  \@namedef{mp@footgroup#1}{\@nameuse{@mpfivecol@footgroup#1}}%
  \expandafter\dimen\csname footins#1\endcsname=2\footinsdim
  \expandafter\count\csname footins#1\endcsname=500\relax}
\bidi@ensure@newcommand{\m@make@fivecolfootnotetext}[1]{%
  \bidi@namelongdef{@fivecolfootnotetext#1}##1{%
    \insert\@nameuse{footins#1}{%
    \def\baselinestretch{\m@m@footnote@spacing}%
    \reset@font\@nameuse{foottextfont#1}%
    \@preamfntext
    \protected@edef\@currentlabel{%
      \csname p@footnote#1\endcsname \@nameuse{@thefnmark#1}}%
    \color@begingroup
      \@nameuse{@fivecolfootfmt#1}{##1}%
    \color@endgroup}%
    \m@mmf@prepare}}
\bidi@ensure@newcommand{\m@make@mpfivecolfootnotetext}[1]{%
\bidi@namelongdef{@mpfivecolfootnotetext#1}##1{%
  \global\setbox\@nameuse{@mpfootins#1}\vbox{%
    \unvbox\@nameuse{@mpfootins#1}
    \def\baselinestretch{\m@m@footnote@spacing}%
    \reset@font\@nameuse{foottextfont#1}%
```

```
    \hsize\columnwidth \@parboxrestore
    \protected@edef\@currentlabel{%
      \csname p@mpfootnote#1\endcsname\@nameuse{@thefnmark#1}}%
  \color@begingroup
    \@nameuse{@fivecolfootfmt#1}{##1}%
  \color@endgroup}\m@mmf@prepare}}
\bidi@ensure@newcommand{\m@make@fivecolfootfmt}[1]{%
  \@namedef{@fivecolfootfmt#1}##1{%
    \@preamfivefmt
    {\@nameuse{footfootmark#1}\strut
     {\@nameuse{foottextfont#1}##1}\strut\par}\allowbreak}}
\bidi@ensure@newcommand{\m@make@fivecol@footgroup}[1]{%
  \@namedef{@fivecol@footgroup#1}{{%
   \def\baselinestretch{\m@m@footnote@spacing}%
    \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
     \m@mrigidbalance{\@nameuse{footins#1}}{5}{\splittopskip}}}}
\bidi@ensure@newcommand{\m@make@mpfivecol@footgroup}[1]{%
\@namedef{@mpfivecol@footgroup#1}{{%
 \def\baselinestretch{\m@m@footnote@spacing}%
  \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
  \m@mrigidbalance{\@nameuse{@mpfootins#1}}{5}{\splittopskip}}}}
\bidi@ensure@newcommand{\sixcolumnfootnotes}{%
  \@namedef{foottextfontv@r}{\foottextfont}%  % [RS]
  \let\@footnotetext\@sixcolfootnotetext
  \let\@LTRfootnotetext\@sixcolLTRfootnotetext
  \let\@RTLfootnotetext\@sixcolRTLfootnotetext
  \dimen\footinsv@r=6\footinsdim
  \count\footinsv@r=166\relax
  \m@make@sixcol@footgroup{v@r}%
  \let\@footgroupv@r\@sixcol@footgroupv@r
  \let\@mpfootnotetext\@mpsixcolfootnotetext
  \let\@mpLTRfootnotetext\@mpsixcolLTRfootnotetext
  \let\@mpRTLfootnotetext\@mpsixcolRTLfootnotetext
  \m@make@mpsixcol@footgroup{v@r}%
  \let\mp@footgroupv@r\@mpsixcol@footgroupv@r}
\bidi@ensure@newcommand{\@sixcolfootnotetext}[1]{\insert\footinsv@r{\if@RTL@footnote\@RTLtrue
  \def\baselinestretch{\m@m@footnote@spacing}%
  \reset@font\foottextfont
  \@preamfntext
  \protected@edef\@currentlabel{%
    \csname p@footnote\endcsname\@thefnmark}%
  \color@begingroup
    \@sixcolfootfmt{#1}%
  \color@endgroup}%
  \m@mmf@prepare}
\bidi@ensure@newcommand{\@sixcolLTRfootnotetext}[1]{\insert\footinsv@r{\if@RTLcolumnfootnotes
  \def\baselinestretch{\m@m@footnote@spacing}%
  \reset@font\LTRfoottextfont
  \@preamfntext
  \protected@edef\@currentlabel{%
```

```
    \csname p@footnote\endcsname\@thefnmark}%
  \color@begingroup
    \@sixcolLTRfootfmt{#1}%
  \color@endgroup}%
  \m@mmf@prepare}
\bidi@ensure@newcommand{\@sixcolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
  \def\baselinestretch{\m@m@footnote@spacing}%
  \reset@font\RTLfoottextfont
  \@preamfntext
  \protected@edef\@currentlabel{%
    \csname p@footnote\endcsname\@thefnmark}%
  \color@begingroup
    \@sixcolRTLfootfmt{#1}%
  \color@endgroup}%
  \m@mmf@prepare}
\bidi@ensure@newcommand{\@preamsixfmt}{%
  \hsize .16\hsize
  \parindent=\z@
  \tolerance=5000\relax
  \leavevmode}
\bidi@ensure@newcommand{\@sixcolfootfmt}[1]{%
  \@preamsixfmt
  {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
\bidi@ensure@newcommand{\@sixcolLTRfootfmt}[1]{%
  \@preamsixfmt
  {\footfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
\bidi@ensure@newcommand{\@sixcolRTLfootfmt}[1]{%
  \@preamsixfmt
  {\footfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
\bidi@ensure@newcommand{\@mpsixcolfootnotetext}[1]{\if@RTL@footnote\@RTLtrue\else\@RTLfalse\f
  \global\setbox\@mpfootinsv@r\vbox{%
    \unvbox\@mpfootinsv@r
    \def\baselinestretch{\m@m@footnote@spacing}%
    \reset@font\foottextfont
    \hsize\columnwidth \@parboxrestore
    \protected@edef\@currentlabel{%
      \csname p@mpfootnote\endcsname\@thefnmark}%
  \color@begingroup
    \@sixcolfootfmt{#1}%
  \color@endgroup}%
  \m@mmf@prepare}
\bidi@ensure@newcommand{\@mpsixcolLTRfootnotetext}[1]{\@RTLfalse%
  \global\setbox\@mpfootinsv@r\vbox{%
    \unvbox\@mpfootinsv@r
    \def\baselinestretch{\m@m@footnote@spacing}%
    \reset@font\LTRfoottextfont
    \hsize\columnwidth \@parboxrestore
    \if@RTLcolumnfootnotes\beginL\fi
    \protected@edef\@currentlabel{%
      \csname p@mpfootnote\endcsname\@thefnmark}%
```

```
  \color@begingroup
    \@sixcolLTRfootfmt{#1}%
  \color@endgroup}%
  \m@mmf@prepare}
\bidi@ensure@newcommand{\@mpsixcolRTLfootnotetext}[1]{\@RTLtrue%
  \global\setbox\@mpfootinsv@r\vbox{%
    \unvbox\@mpfootinsv@r
    \def\baselinestretch{\m@m@footnote@spacing}%
    \reset@font\RTLfoottextfont
    \hsize\columnwidth \@parboxrestore
    \protected@edef\@currentlabel{%
      \csname p@mpfootnote\endcsname\@thefnmark}%
  \color@begingroup
    \@sixcolRTLfootfmt{#1}%
  \color@endgroup}%
  \m@mmf@prepare}
\bidi@ensure@newcommand{\sixcolumnfootstyle}[1]{%
  \m@make@sixcolfootnotetext{#1}%
  \m@make@mpsixcolfootnotetext{#1}%
  \m@make@sixcolfootfmt{#1}%
  \m@make@sixcol@footgroup{#1}%
  \m@make@mpsixcol@footgroup{#1}%
  \m@make@footstart{#1}%
  \bidi@namelongdef{@footnotetext#1}##1{%
     \@nameuse{@sixcolfootnotetext#1}{##1}}%
  \bidi@namelongdef{@mpfootnotetext#1}##1{%
     \@nameuse{@mpsixcolfootnotetext#1}{##1}}%
  \@namedef{@footgroup#1}{\@nameuse{@sixcol@footgroup#1}}%
  \@namedef{mp@footgroup#1}{\@nameuse{@mpsixcol@footgroup#1}}%
  \expandafter\dimen\csname footins#1\endcsname=2\footinsdim
  \expandafter\count\csname footins#1\endcsname=500\relax}
\bidi@ensure@newcommand{\m@make@sixcolfootnotetext}[1]{%
  \bidi@namelongdef{@sixcolfootnotetext#1}##1{%
    \insert\@nameuse{footins#1}{%
    \def\baselinestretch{\m@m@footnote@spacing}%
    \reset@font\@nameuse{foottextfont#1}%
    \@preamfntext
    \protected@edef\@currentlabel{%
      \csname p@footnote#1\endcsname \@nameuse{@thefnmark#1}}%
    \color@begingroup
      \@nameuse{@sixcolfootfmt#1}{##1}%
    \color@endgroup}%
    \m@mmf@prepare}}
\bidi@ensure@newcommand{\m@make@mpsixcolfootnotetext}[1]{%
\bidi@namelongdef{@mpsixcolfootnotetext#1}##1{%
  \global\setbox\@nameuse{@mpfootins#1}\vbox{%
    \unvbox\@nameuse{@mpfootins#1}
    \def\baselinestretch{\m@m@footnote@spacing}%
    \reset@font\@nameuse{foottextfont#1}%
    \hsize\columnwidth \@parboxrestore
```

```
    \protected@edef\@currentlabel{%
      \csname p@mpfootnote#1\endcsname\@nameuse{@thefnmark#1}}%
  \color@begingroup
    \@nameuse{@sixcolfootfmt#1}{##1}%
  \color@endgroup}\m@mmf@prepare}}
\bidi@ensure@newcommand{\m@make@sixcolfootfmt}[1]{%
  \@namedef{@sixcolfootfmt#1}##1{%
    \@preamsixfmt
    {\@nameuse{footfootmark#1}\strut
     {\@nameuse{foottextfont#1}##1}\strut\par}\allowbreak}}
\bidi@ensure@newcommand{\m@make@sixcol@footgroup}[1]{%
  \@namedef{@sixcol@footgroup#1}{{%
   \def\baselinestretch{\m@m@footnote@spacing}%
    \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
     \m@mrigidbalance{\@nameuse{footins#1}}{6}{\splittopskip}}}}
\bidi@ensure@newcommand{\m@make@mpsixcol@footgroup}[1]{%
\@namedef{@mpsixcol@footgroup#1}{{%
 \def\baselinestretch{\m@m@footnote@spacing}%
  \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
  \m@mrigidbalance{\@nameuse{@mpfootins#1}}{6}{\splittopskip}}}}
\bidi@ensure@newcommand{\sevencolumnfootnotes}{%
  \@namedef{foottextfontv@r}{\foottextfont}%  % [RS]
  \let\@footnotetext\@sevencolfootnotetext
  \let\@LTRfootnotetext\@sevencolLTRfootnotetext
  \let\@RTLfootnotetext\@sevencolRTLfootnotetext
  \dimen\footinsv@r=7\footinsdim
  \count\footinsv@r=142\relax
  \m@make@sevencol@footgroup{v@r}%
  \let\@footgroupv@r\@sevencol@footgroupv@r
  \let\@mpfootnotetext\@mpsevencolfootnotetext
  \let\@mpLTRfootnotetext\@mpsevencolLTRfootnotetext
  \let\@mpRTLfootnotetext\@mpsevencolRTLfootnotetext
  \m@make@mpsevencol@footgroup{v@r}%
  \let\mp@footgroupv@r\@mpsevencol@footgroupv@r}
\bidi@ensure@newcommand{\@sevencolfootnotetext}[1]{\insert\footinsv@r{\if@RTL@footnote\@RTLtr
  \def\baselinestretch{\m@m@footnote@spacing}%
  \reset@font\foottextfont
  \@preamfntext
  \protected@edef\@currentlabel{%
    \csname p@footnote\endcsname\@thefnmark}%
  \color@begingroup
    \@sevencolfootfmt{#1}%
  \color@endgroup}%
  \m@mmf@prepare}
\bidi@ensure@newcommand{\@sevencolLTRfootnotetext}[1]{\insert\footinsv@r{\if@RTLcolumnfootnot
  \def\baselinestretch{\m@m@footnote@spacing}%
  \reset@font\LTRfoottextfont
  \@preamfntext
  \protected@edef\@currentlabel{%
    \csname p@footnote\endcsname\@thefnmark}%
```

```
  \color@begingroup
    \@sevencolLTRfootfmt{#1}%
  \color@endgroup}%
  \m@mmf@prepare}
\bidi@ensure@newcommand{\@sevencolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
  \def\baselinestretch{\m@m@footnote@spacing}%
  \reset@font\RTLfoottextfont
  \@preamfntext
  \protected@edef\@currentlabel{%
    \csname p@footnote\endcsname\@thefnmark}%
  \color@begingroup
    \@sevencolRTLfootfmt{#1}%
  \color@endgroup}%
  \m@mmf@prepare}
\bidi@ensure@newcommand{\@preamsevenfmt}{%
  \hsize .142\hsize
  \parindent=\z@
  \tolerance=5000\relax
  \leavevmode}
\bidi@ensure@newcommand{\@sevencolfootfmt}[1]{%
  \@preamsevenfmt
  {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
\bidi@ensure@newcommand{\@sevencolLTRfootfmt}[1]{%
  \@preamsevenfmt
  {\footfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
\bidi@ensure@newcommand{\@sevencolRTLfootfmt}[1]{%
  \@preamsevenfmt
  {\footfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
\bidi@ensure@newcommand{\@mpsevencolfootnotetext}[1]{\if@RTL@footnote\@RTLtrue\else\@RTLfalse
  \global\setbox\@mpfootinsv@r\vbox{%
    \unvbox\@mpfootinsv@r
    \def\baselinestretch{\m@m@footnote@spacing}%
    \reset@font\foottextfont
    \hsize\columnwidth \@parboxrestore
    \protected@edef\@currentlabel{%
      \csname p@mpfootnote\endcsname\@thefnmark}%
  \color@begingroup
    \@sevencolfootfmt{#1}%
  \color@endgroup}%
  \m@mmf@prepare}
\bidi@ensure@newcommand{\@mpsevencolLTRfootnotetext}[1]{\@RTLfalse%
  \global\setbox\@mpfootinsv@r\vbox{%
    \unvbox\@mpfootinsv@r
    \def\baselinestretch{\m@m@footnote@spacing}%
    \reset@font\LTRfoottextfont
    \hsize\columnwidth \@parboxrestore
    \if@RTLcolumnfootnotes\beginL\fi
    \protected@edef\@currentlabel{%
      \csname p@mpfootnote\endcsname\@thefnmark}%
  \color@begingroup
```

```
    \@sevencolLTRfootfmt{#1}%
  \color@endgroup}%
  \m@mmf@prepare}
\bidi@ensure@newcommand{\@mpsevencolRTLfootnotetext}[1]{\@RTLtrue%
  \global\setbox\@mpfootinsv@r\vbox{%
    \unvbox\@mpfootinsv@r
    \def\baselinestretch{\m@m@footnote@spacing}%
    \reset@font\RTLfoottextfont
    \hsize\columnwidth \@parboxrestore
    \protected@edef\@currentlabel{%
      \csname p@mpfootnote\endcsname\@thefnmark}%
  \color@begingroup
    \@sevencolRTLfootfmt{#1}%
  \color@endgroup}%
  \m@mmf@prepare}
\bidi@ensure@newcommand{\sevencolumnfootstyle}[1]{%
  \m@make@sevencolfootnotetext{#1}%
  \m@make@mpsevencolfootnotetext{#1}%
  \m@make@sevencolfootfmt{#1}%
  \m@make@sevencol@footgroup{#1}%
  \m@make@mpsevencol@footgroup{#1}%
  \m@make@footstart{#1}%
  \bidi@namelongdef{@footnotetext#1}##1{%
     \@nameuse{@sevencolfootnotetext#1}{##1}}%
  \bidi@namelongdef{@mpfootnotetext#1}##1{%
     \@nameuse{@mpsevencolfootnotetext#1}{##1}}%
  \@namedef{@footgroup#1}{\@nameuse{@sevencol@footgroup#1}}%
  \@namedef{mp@footgroup#1}{\@nameuse{@mpsevencol@footgroup#1}}%
  \expandafter\dimen\csname footins#1\endcsname=2\footinsdim
  \expandafter\count\csname footins#1\endcsname=500\relax}
\bidi@ensure@newcommand{\m@make@sevencolfootnotetext}[1]{%
  \bidi@namelongdef{@sevencolfootnotetext#1}##1{%
    \insert\@nameuse{footins#1}{%
    \def\baselinestretch{\m@m@footnote@spacing}%
    \reset@font\@nameuse{foottextfont#1}%
    \@preamfntext
    \protected@edef\@currentlabel{%
      \csname p@footnote#1\endcsname \@nameuse{@thefnmark#1}}%
    \color@begingroup
      \@nameuse{@sevencolfootfmt#1}{##1}%
    \color@endgroup}%
    \m@mmf@prepare}}
\bidi@ensure@newcommand{\m@make@mpsevencolfootnotetext}[1]{%
\bidi@namelongdef{@mpsevencolfootnotetext#1}##1{%
  \global\setbox\@nameuse{@mpfootins#1}\vbox{%
    \unvbox\@nameuse{@mpfootins#1}
    \def\baselinestretch{\m@m@footnote@spacing}%
    \reset@font\@nameuse{foottextfont#1}%
    \hsize\columnwidth \@parboxrestore
    \protected@edef\@currentlabel{%
```

```
      \csname p@mpfootnote#1\endcsname\@nameuse{@thefnmark#1}}%
  \color@begingroup
    \@nameuse{@sevencolfootfmt#1}{##1}%
  \color@endgroup}\m@mmf@prepare}}
\bidi@ensure@newcommand{\m@make@sevencolfootfmt}[1]{%
  \@namedef{@sevencolfootfmt#1}##1{%
    \@preamsevenfmt
    {\@nameuse{footfootmark#1}\strut
     {\@nameuse{foottextfont#1}##1}\strut\par}\allowbreak}}
\bidi@ensure@newcommand{\m@make@sevencol@footgroup}[1]{%
  \@namedef{@sevencol@footgroup#1}{{%
   \def\baselinestretch{\m@m@footnote@spacing}%
    \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
     \m@mrigidbalance{\@nameuse{footins#1}}{7}{\splittopskip}}}}
\bidi@ensure@newcommand{\m@make@mpsevencol@footgroup}[1]{%
\@namedef{@mpsevencol@footgroup#1}{{%
 \def\baselinestretch{\m@m@footnote@spacing}%
  \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
  \m@mrigidbalance{\@nameuse{@mpfootins#1}}{7}{\splittopskip}}}}
\bidi@ensure@newcommand{\eightcolumnfootnotes}{%
  \@namedef{foottextfontv@r}{\foottextfont}%  % [RS]
  \let\@footnotetext\@eightcolfootnotetext
  \let\@LTRfootnotetext\@eightcolLTRfootnotetext
  \let\@RTLfootnotetext\@eightcolRTLfootnotetext
  \dimen\footinsv@r=8\footinsdim
  \count\footinsv@r=125\relax
  \m@make@eightcol@footgroup{v@r}%
  \let\@footgroupv@r\@eightcol@footgroupv@r
  \let\@mpfootnotetext\@mpeightcolfootnotetext
  \let\@mpLTRfootnotetext\@mpeightcolLTRfootnotetext
  \let\@mpRTLfootnotetext\@mpeightcolRTLfootnotetext
  \m@make@mpeightcol@footgroup{v@r}%
  \let\mp@footgroupv@r\@mpeightcol@footgroupv@r}
\bidi@ensure@newcommand{\@eightcolfootnotetext}[1]{\insert\footinsv@r{\if@RTL@footnote\@RTLtr
  \def\baselinestretch{\m@m@footnote@spacing}%
  \reset@font\foottextfont
  \@preamfntext
  \protected@edef\@currentlabel{%
    \csname p@footnote\endcsname\@thefnmark}%
  \color@begingroup
    \@eightcolfootfmt{#1}%
  \color@endgroup}%
  \m@mmf@prepare}
\bidi@ensure@newcommand{\@eightcolLTRfootnotetext}[1]{\insert\footinsv@r{\if@RTLcolumnfootnot
  \def\baselinestretch{\m@m@footnote@spacing}%
  \reset@font\LTRfoottextfont
  \@preamfntext
  \protected@edef\@currentlabel{%
    \csname p@footnote\endcsname\@thefnmark}%
  \color@begingroup
```

```
    \@eightcolLTRfootfmt{#1}%
  \color@endgroup}%
  \m@mmf@prepare}
\bidi@ensure@newcommand{\@eightcolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
  \def\baselinestretch{\m@m@footnote@spacing}%
  \reset@font\RTLfoottextfont
  \@preamfntext
  \protected@edef\@currentlabel{%
    \csname p@footnote\endcsname\@thefnmark}%
  \color@begingroup
    \@eightcolRTLfootfmt{#1}%
  \color@endgroup}%
  \m@mmf@prepare}
\bidi@ensure@newcommand{\@preameightfmt}{%
  \hsize .125\hsize
  \parindent=\z@
  \tolerance=5000\relax
  \leavevmode}
\bidi@ensure@newcommand{\@eightcolfootfmt}[1]{%
  \@preameightfmt
  {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
\bidi@ensure@newcommand{\@eightcolLTRfootfmt}[1]{%
  \@preameightfmt
  {\footfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
\bidi@ensure@newcommand{\@eightcolRTLfootfmt}[1]{%
  \@preameightfmt
  {\footfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
\bidi@ensure@newcommand{\@mpeightcolfootnotetext}[1]{%
 \global\setbox\@mpfootinsv@r\vbox{\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
    \unvbox\@mpfootinsv@r
    \def\baselinestretch{\m@m@footnote@spacing}%
    \reset@font\foottextfont
    \hsize\columnwidth \@parboxrestore
    \protected@edef\@currentlabel{%
      \csname p@mpfootnote\endcsname\@thefnmark}%
  \color@begingroup
    \@eightcolfootfmt{#1}%
  \color@endgroup}%
  \m@mmf@prepare}
\bidi@ensure@newcommand{\@mpeightcolLTRfootnotetext}[1]{%
  \global\setbox\@mpfootinsv@r\vbox{\@RTLfalse%
    \unvbox\@mpfootinsv@r
    \def\baselinestretch{\m@m@footnote@spacing}%
    \reset@font\LTRfoottextfont
    \hsize\columnwidth \@parboxrestore
    \if@RTLcolumnfootnotes\beginL\fi
    \protected@edef\@currentlabel{%
      \csname p@mpfootnote\endcsname\@thefnmark}%
  \color@begingroup
    \@eightcolLTRfootfmt{#1}%
```

```
  \color@endgroup}%
  \m@mmf@prepare}
\bidi@ensure@newcommand{\@mpeightcolRTLfootnotetext}[1]{%
  \global\setbox\@mpfootinsv@r\vbox{\@RTLtrue%
    \unvbox\@mpfootinsv@r
    \def\baselinestretch{\m@m@footnote@spacing}%
    \reset@font\RTLfoottextfont
    \hsize\columnwidth \@parboxrestore
    \protected@edef\@currentlabel{%
      \csname p@mpfootnote\endcsname\@thefnmark}%
  \color@begingroup
    \@eightcolRTLfootfmt{#1}%
  \color@endgroup}%
  \m@mmf@prepare}
\bidi@ensure@newcommand{\eightcolumnfootstyle}[1]{%
  \m@make@eightcolfootnotetext{#1}%
  \m@make@mpeightcolfootnotetext{#1}%
  \m@make@eightcolfootfmt{#1}%
  \m@make@eightcol@footgroup{#1}%
  \m@make@mpeightcol@footgroup{#1}%
  \m@make@footstart{#1}%
  \bidi@namelongdef{@footnotetext#1}##1{%
     \@nameuse{@eightcolfootnotetext#1}{##1}}%
  \bidi@namelongdef{@mpfootnotetext#1}##1{%
     \@nameuse{@mpeightcolfootnotetext#1}{##1}}%
  \@namedef{@footgroup#1}{\@nameuse{@eightcol@footgroup#1}}%
  \@namedef{mp@footgroup#1}{\@nameuse{@mpeightcol@footgroup#1}}%
  \expandafter\dimen\csname footins#1\endcsname=2\footinsdim
  \expandafter\count\csname footins#1\endcsname=500\relax}
\bidi@ensure@newcommand{\m@make@eightcolfootnotetext}[1]{%
  \bidi@namelongdef{@eightcolfootnotetext#1}##1{%
    \insert\@nameuse{footins#1}{%
    \def\baselinestretch{\m@m@footnote@spacing}%
    \reset@font\@nameuse{foottextfont#1}%
    \@preamfntext
    \protected@edef\@currentlabel{%
      \csname p@footnote#1\endcsname \@nameuse{@thefnmark#1}}%
    \color@begingroup
      \@nameuse{@eightcolfootfmt#1}{##1}%
    \color@endgroup}%
    \m@mmf@prepare}}
\bidi@ensure@newcommand{\m@make@mpeightcolfootnotetext}[1]{%
\bidi@namelongdef{@mpeightcolfootnotetext#1}##1{%
  \global\setbox\@nameuse{@mpfootins#1}\vbox{%
    \unvbox\@nameuse{@mpfootins#1}
    \def\baselinestretch{\m@m@footnote@spacing}%
    \reset@font\@nameuse{foottextfont#1}%
    \hsize\columnwidth \@parboxrestore
    \protected@edef\@currentlabel{%
      \csname p@mpfootnote#1\endcsname\@nameuse{@thefnmark#1}}%
```

```
  \color@begingroup
    \@nameuse{@eightcolfootfmt#1}{##1}%
  \color@endgroup}\m@mmf@prepare}}
\bidi@ensure@newcommand{\m@make@eightcolfootfmt}[1]{%
  \@namedef{@eightcolfootfmt#1}##1{%
    \@preameightfmt
    {\@nameuse{footfootmark#1}\strut
     {\@nameuse{foottextfont#1}##1}\strut\par}\allowbreak}}
\bidi@ensure@newcommand{\m@make@eightcol@footgroup}[1]{%
  \@namedef{@eightcol@footgroup#1}{{%
   \def\baselinestretch{\m@m@footnote@spacing}%
    \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
     \m@mrigidbalance{\@nameuse{footins#1}}{8}{\splittopskip}}}}
\bidi@ensure@newcommand{\m@make@mpeightcol@footgroup}[1]{%
\@namedef{@mpeightcol@footgroup#1}{{%
 \def\baselinestretch{\m@m@footnote@spacing}%
  \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
  \m@mrigidbalance{\@nameuse{@mpfootins#1}}{8}{\splittopskip}}}}
\bidi@ensure@newcommand{\ninecolumnfootnotes}{%
  \@namedef{foottextfontv@r}{\foottextfont}%  % [RS]
  \let\@footnotetext\@ninecolfootnotetext
  \let\@LTRfootnotetext\@ninecolLTRfootnotetext
  \let\@RTLfootnotetext\@ninecolRTLfootnotetext
  \dimen\footinsv@r=9\footinsdim
  \count\footinsv@r=111\relax
  \m@make@ninecol@footgroup{v@r}%
  \let\@footgroupv@r\@ninecol@footgroupv@r
  \let\@mpfootnotetext\@mpninecolfootnotetext
  \let\@mpLTRfootnotetext\@mpninecolLTRfootnotetext
  \let\@mpRTLfootnotetext\@mpninecolRTLfootnotetext
  \m@make@mpninecol@footgroup{v@r}%
  \let\mp@footgroupv@r\@mpninecol@footgroupv@r}
\bidi@ensure@newcommand{\@ninecolfootnotetext}[1]{\insert\footinsv@r{\if@RTL@footnote\@RTLtru
  \def\baselinestretch{\m@m@footnote@spacing}%
  \reset@font\foottextfont
  \@preamfntext
  \protected@edef\@currentlabel{%
    \csname p@footnote\endcsname\@thefnmark}%
  \color@begingroup
    \@ninecolfootfmt{#1}%
  \color@endgroup}%
  \m@mmf@prepare}
\bidi@ensure@newcommand{\@ninecolLTRfootnotetext}[1]{\insert\footinsv@r{\if@RTLcolumnfootnotes
  \def\baselinestretch{\m@m@footnote@spacing}%
  \reset@font\LTRfoottextfont
  \@preamfntext
  \protected@edef\@currentlabel{%
    \csname p@footnote\endcsname\@thefnmark}%
  \color@begingroup
    \@ninecolLTRfootfmt{#1}%
```

```
  \color@endgroup}%
  \m@mmf@prepare}
\bidi@ensure@newcommand{\@ninecolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
  \def\baselinestretch{\m@m@footnote@spacing}%
  \reset@font\RTLfoottextfont
  \@preamfntext
  \protected@edef\@currentlabel{%
    \csname p@footnote\endcsname\@thefnmark}%
  \color@begingroup
    \@ninecolRTLfootfmt{#1}%
  \color@endgroup}%
  \m@mmf@prepare}
\bidi@ensure@newcommand{\@preamninefmt}{%
  \hsize .1\hsize
  \parindent=\z@
  \tolerance=5000\relax
  \leavevmode}
\bidi@ensure@newcommand{\@ninecolfootfmt}[1]{%
  \@preamninefmt
  {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
\bidi@ensure@newcommand{\@ninecolLTRfootfmt}[1]{%
  \@preamninefmt
  {\footfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
\bidi@ensure@newcommand{\@ninecolRTLfootfmt}[1]{%
  \@preamninefmt
  {\footfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
\bidi@ensure@newcommand{\@mpninecolfootnotetext}[1]{%
 \global\setbox\@mpfootinsv@r\vbox{\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
    \unvbox\@mpfootinsv@r
    \def\baselinestretch{\m@m@footnote@spacing}%
    \reset@font\foottextfont
    \hsize\columnwidth \@parboxrestore
    \protected@edef\@currentlabel{%
      \csname p@mpfootnote\endcsname\@thefnmark}%
  \color@begingroup
    \@ninecolfootfmt{#1}%
  \color@endgroup}%
  \m@mmf@prepare}
\bidi@ensure@newcommand{\@mpninecolLTRfootnotetext}[1]{%
  \global\setbox\@mpfootinsv@r\vbox{\@RTLfalse%
    \unvbox\@mpfootinsv@r
    \def\baselinestretch{\m@m@footnote@spacing}%
    \reset@font\LTRfoottextfont
    \hsize\columnwidth \@parboxrestore
    \if@RTLcolumnfootnotes\beginL\fi
    \protected@edef\@currentlabel{%
      \csname p@mpfootnote\endcsname\@thefnmark}%
  \color@begingroup
    \@ninecolLTRfootfmt{#1}%
  \color@endgroup}%
```

```
  \m@mmf@prepare}
\bidi@ensure@newcommand{\@mpninecolRTLfootnotetext}[1]{%
  \global\setbox\@mpfootinsv@r\vbox{\@RTLtrue%
    \unvbox\@mpfootinsv@r
    \def\baselinestretch{\m@m@footnote@spacing}%
    \reset@font\RTLfoottextfont
    \hsize\columnwidth \@parboxrestore
    \protected@edef\@currentlabel{%
      \csname p@mpfootnote\endcsname\@thefnmark}%
  \color@begingroup
    \@ninecolRTLfootfmt{#1}%
  \color@endgroup}%
  \m@mmf@prepare}
\bidi@ensure@newcommand{\ninecolumnfootstyle}[1]{%
  \m@make@ninecolfootnotetext{#1}%
  \m@make@mpninecolfootnotetext{#1}%
  \m@make@ninecolfootfmt{#1}%
  \m@make@ninecol@footgroup{#1}%
  \m@make@mpninecol@footgroup{#1}%
  \m@make@footstart{#1}%
  \bidi@namelongdef{@footnotetext#1}##1{%
     \@nameuse{@ninecolfootnotetext#1}{##1}}%
  \bidi@namelongdef{@mpfootnotetext#1}##1{%
     \@nameuse{@mpninecolfootnotetext#1}{##1}}%
  \@namedef{@footgroup#1}{\@nameuse{@ninecol@footgroup#1}}%
  \@namedef{mp@footgroup#1}{\@nameuse{@mpninecol@footgroup#1}}%
  \expandafter\dimen\csname footins#1\endcsname=2\footinsdim
  \expandafter\count\csname footins#1\endcsname=500\relax}
\bidi@ensure@newcommand{\m@make@ninecolfootnotetext}[1]{%
  \bidi@namelongdef{@ninecolfootnotetext#1}##1{%
    \insert\@nameuse{footins#1}{%
    \def\baselinestretch{\m@m@footnote@spacing}%
    \reset@font\@nameuse{foottextfont#1}%
    \@preamfntext
    \protected@edef\@currentlabel{%
      \csname p@footnote#1\endcsname \@nameuse{@thefnmark#1}}%
    \color@begingroup
      \@nameuse{@ninecolfootfmt#1}{##1}%
    \color@endgroup}%
    \m@mmf@prepare}}
\bidi@ensure@newcommand{\m@make@mpninecolfootnotetext}[1]{%
\bidi@namelongdef{@mpninecolfootnotetext#1}##1{%
  \global\setbox\@nameuse{@mpfootins#1}\vbox{%
    \unvbox\@nameuse{@mpfootins#1}
    \def\baselinestretch{\m@m@footnote@spacing}%
    \reset@font\@nameuse{foottextfont#1}%
    \hsize\columnwidth \@parboxrestore
    \protected@edef\@currentlabel{%
      \csname p@mpfootnote#1\endcsname\@nameuse{@thefnmark#1}}%
  \color@begingroup
```

```
    \@nameuse{@ninecolfootfmt#1}{##1}%
  \color@endgroup}\m@mmf@prepare}}
\bidi@ensure@newcommand{\m@make@ninecolfootfmt}[1]{%
  \@namedef{@ninecolfootfmt#1}##1{%
    \@preamninefmt
    {\@nameuse{footfootmark#1}\strut
     {\@nameuse{foottextfont#1}##1}\strut\par}\allowbreak}}
\bidi@ensure@newcommand{\m@make@ninecol@footgroup}[1]{%
  \@namedef{@ninecol@footgroup#1}{{%
   \def\baselinestretch{\m@m@footnote@spacing}%
    \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
     \m@mrigidbalance{\@nameuse{footins#1}}{9}{\splittopskip}}}}
\bidi@ensure@newcommand{\m@make@mpninecol@footgroup}[1]{%
\@namedef{@mpninecol@footgroup#1}{{%
 \def\baselinestretch{\m@m@footnote@spacing}%
  \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
  \m@mrigidbalance{\@nameuse{@mpfootins#1}}{9}{\splittopskip}}}}
\bidi@ensure@newcommand{\tencolumnfootnotes}{%
  \@namedef{foottextfontv@r}{\foottextfont}%  % [RS]
  \let\@footnotetext\@tencolfootnotetext
  \let\@LTRfootnotetext\@tencolLTRfootnotetext
  \let\@RTLfootnotetext\@tencolRTLfootnotetext
  \dimen\footinsv@r=10\footinsdim
  \count\footinsv@r=100\relax
  \m@make@tencol@footgroup{v@r}%
  \let\@footgroupv@r\@tencol@footgroupv@r
  \let\@mpfootnotetext\@mptencolfootnotetext
  \let\@mpLTRfootnotetext\@mptencolLTRfootnotetext
  \let\@mpRTLfootnotetext\@mptencolRTLfootnotetext
  \m@make@mptencol@footgroup{v@r}%
  \let\mp@footgroupv@r\@mptencol@footgroupv@r}
\bidi@ensure@newcommand{\@tencolfootnotetext}[1]{\insert\footinsv@r{\if@RTL@footnote\@RTLtrue
  \def\baselinestretch{\m@m@footnote@spacing}%
  \reset@font\foottextfont
  \@preamfntext
  \protected@edef\@currentlabel{%
    \csname p@footnote\endcsname\@thefnmark}%
  \color@begingroup
    \@tencolfootfmt{#1}%
  \color@endgroup}%
  \m@mmf@prepare}
\bidi@ensure@newcommand{\@tencolLTRfootnotetext}[1]{\insert\footinsv@r{\if@RTLcolumnfootnotes
  \def\baselinestretch{\m@m@footnote@spacing}%
  \reset@font\LTRfoottextfont
  \@preamfntext
  \protected@edef\@currentlabel{%
    \csname p@footnote\endcsname\@thefnmark}%
  \color@begingroup
    \@tencolLTRfootfmt{#1}%
  \color@endgroup}%
```

```
  \m@mmf@prepare}
\bidi@ensure@newcommand{\@tencolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
  \def\baselinestretch{\m@m@footnote@spacing}%
  \reset@font\RTLfoottextfont
  \@preamfntext
  \protected@edef\@currentlabel{%
    \csname p@footnote\endcsname\@thefnmark}%
  \color@begingroup
    \@tencolRTLfootfmt{#1}%
  \color@endgroup}%
  \m@mmf@prepare}
\bidi@ensure@newcommand{\@preamtenfmt}{%
  \hsize .1\hsize
  \parindent=\z@
  \tolerance=5000\relax
  \leavevmode}
\bidi@ensure@newcommand{\@tencolfootfmt}[1]{%
  \@preamtenfmt
  {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
\bidi@ensure@newcommand{\@tencolLTRfootfmt}[1]{%
  \@preamtenfmt
  {\footfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
\bidi@ensure@newcommand{\@tencolRTLfootfmt}[1]{%
  \@preamtenfmt
  {\footfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
\bidi@ensure@newcommand{\@mptencolfootnotetext}[1]{%
 \global\setbox\@mpfootinsv@r\vbox{\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
    \unvbox\@mpfootinsv@r
    \def\baselinestretch{\m@m@footnote@spacing}%
    \reset@font\foottextfont
    \hsize\columnwidth \@parboxrestore
    \protected@edef\@currentlabel{%
      \csname p@mpfootnote\endcsname\@thefnmark}%
  \color@begingroup
    \@tencolfootfmt{#1}%
  \color@endgroup}%
  \m@mmf@prepare}
\bidi@ensure@newcommand{\@mptencolLTRfootnotetext}[1]{%
  \global\setbox\@mpfootinsv@r\vbox{\@RTLfalse%
    \unvbox\@mpfootinsv@r
    \def\baselinestretch{\m@m@footnote@spacing}%
    \reset@font\LTRfoottextfont
    \hsize\columnwidth \@parboxrestore
    \if@RTLcolumnfootnotes\beginL\fi
    \protected@edef\@currentlabel{%
      \csname p@mpfootnote\endcsname\@thefnmark}%
  \color@begingroup
    \@tencolLTRfootfmt{#1}%
  \color@endgroup}%
  \m@mmf@prepare}
```

```
\bidi@ensure@newcommand{\@mptencolRTLfootnotetext}[1]{%
  \global\setbox\@mpfootinsv@r\vbox{\@RTLtrue%
    \unvbox\@mpfootinsv@r
    \def\baselinestretch{\m@m@footnote@spacing}%
    \reset@font\RTLfoottextfont
    \hsize\columnwidth \@parboxrestore
    \protected@edef\@currentlabel{%
      \csname p@mpfootnote\endcsname\@thefnmark}%
  \color@begingroup
    \@tencolRTLfootfmt{#1}%
  \color@endgroup}%
  \m@mmf@prepare}
\bidi@ensure@newcommand{\tencolumnfootstyle}[1]{%
  \m@make@tencolfootnotetext{#1}%
  \m@make@mptencolfootnotetext{#1}%
  \m@make@tencolfootfmt{#1}%
  \m@make@tencol@footgroup{#1}%
  \m@make@mptencol@footgroup{#1}%
  \m@make@footstart{#1}%
  \bidi@namelongdef{@footnotetext#1}##1{%
     \@nameuse{@tencolfootnotetext#1}{##1}}%
  \bidi@namelongdef{@mpfootnotetext#1}##1{%
     \@nameuse{@mptencolfootnotetext#1}{##1}}%
  \@namedef{@footgroup#1}{\@nameuse{@tencol@footgroup#1}}%
  \@namedef{mp@footgroup#1}{\@nameuse{@mptencol@footgroup#1}}%
  \expandafter\dimen\csname footins#1\endcsname=2\footinsdim
  \expandafter\count\csname footins#1\endcsname=500\relax}
\bidi@ensure@newcommand{\m@make@tencolfootnotetext}[1]{%
  \bidi@namelongdef{@tencolfootnotetext#1}##1{%
    \insert\@nameuse{footins#1}{%
    \def\baselinestretch{\m@m@footnote@spacing}%
    \reset@font\@nameuse{foottextfont#1}%
    \@preamfntext
    \protected@edef\@currentlabel{%
      \csname p@footnote#1\endcsname \@nameuse{@thefnmark#1}}%
    \color@begingroup
      \@nameuse{@tencolfootfmt#1}{##1}%
    \color@endgroup}%
    \m@mmf@prepare}}
\bidi@ensure@newcommand{\m@make@mptencolfootnotetext}[1]{%
\bidi@namelongdef{@mptencolfootnotetext#1}##1{%
  \global\setbox\@nameuse{@mpfootins#1}\vbox{%
    \unvbox\@nameuse{@mpfootins#1}
    \def\baselinestretch{\m@m@footnote@spacing}%
    \reset@font\@nameuse{foottextfont#1}%
    \hsize\columnwidth \@parboxrestore
    \protected@edef\@currentlabel{%
      \csname p@mpfootnote#1\endcsname\@nameuse{@thefnmark#1}}%
  \color@begingroup
    \@nameuse{@tencolfootfmt#1}{##1}%
```

```
  \color@endgroup}\m@mmf@prepare}}
\bidi@ensure@newcommand{\m@make@tencolfootfmt}[1]{%
  \@namedef{@tencolfootfmt#1}##1{%
    \@preamtenfmt
    {\@nameuse{footfootmark#1}\strut
     {\@nameuse{foottextfont#1}##1}\strut\par}\allowbreak}}
\bidi@ensure@newcommand{\m@make@tencol@footgroup}[1]{%
  \@namedef{@tencol@footgroup#1}{{%
   \def\baselinestretch{\m@m@footnote@spacing}%
    \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
     \m@mrigidbalance{\@nameuse{footins#1}}{10}{\splittopskip}}}}
\bidi@ensure@newcommand{\m@make@mptencol@footgroup}[1]{%
\@namedef{@mptencol@footgroup#1}{{%
 \def\baselinestretch{\m@m@footnote@spacing}%
  \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
  \m@mrigidbalance{\@nameuse{@mpfootins#1}}{10}{\splittopskip}}}}
\bidi@ensure@newcommand{\m@munvxh}[1]{%
  \setbox0=\vbox{\unvbox#1%
    \global\setbox1=\lastbox}%
  \unhbox1
  \unskip
  \unskip
  \unpenalty
  \hskip\m@mipn@skip}
\bidi@ensure@newcommand{\m@mungebox}{%
  \setbox0=\hbox{\m@munvxh0}%
  \dp0=\z@
  \ht0=\footfudgefactor\wd0
  \box0
  \penalty0}
\newskip\m@mipn@skip
\bidi@ensure@newcommand*{\m@minterparanoteglue}[1]{%
  {\foottextfont\global\m@mipn@skip=#1\relax}}
\m@minterparanoteglue{1em plus.4em minus.4em}
\@ifpackageloaded{multicol}{%
\bidi@ensure@newcommand*{\m@mmakehboxofhboxes}{%
 \if@parafootRTL\@RTLtrue\else\@RTLfalse\fi%
 \hsize\textwidth%
 \setbox0=\hbox{}%
  \loop
    \unpenalty
    \setbox2=\lastbox
  \ifhbox2
    \setbox0=\hbox{\box2\unhbox0}
  \repeat}
}{%
\bidi@ensure@newcommand*{\m@mmakehboxofhboxes}{%
 \if@parafootRTL\@RTLtrue\else\@RTLfalse\fi%
 \setbox0=\hbox{}%
  \loop
```

```
    \unpenalty
    \setbox2=\lastbox
  \ifhbox2
    \setbox0=\hbox{\box2\unhbox0}
  \repeat}}
\bidi@ensure@newcommand*{\m@mremovehboxes}{\setbox0=\lastbox
  \ifhbox0{\m@mremovehboxes}\unhbox0 \fi}
\bidi@ensure@newcommand*{\footfudgefiddle}{64}
\bidi@ensure@newcommand{\paragraphfootnotes}{%
  \@namedef{foottextfontv@r}{\foottextfont}%  % [RS]
  \let\@footnotetext\@parafootnotetext
  \let\@LTRfootnotetext\@paraLTRfootnotetext
  \let\@RTLfootnotetext\@paraRTLfootnotetext
  \dimen\footinsv@r=\footinsdim
  \count\footinsv@r=1000\relax
  \m@make@para@footgroup{v@r}%
  \let\@footgroupv@r\@para@footgroupv@r
  \let\@mpfootnotetext\@mpparafootnotetext
  \let\@mpLTRfootnotetext\@mpparaLTRfootnotetext
  \let\@mpRTLfootnotetext\@mpparaRTLfootnotetext
  \m@make@mppara@footgroup{v@r}%
  \let\mp@footgroupv@r\@mppara@footgroupv@r
  {\def\baselinestretch{\m@m@footnote@spacing}%
   \foottextfont
   \dimen0=\baselineskip
   \multiply\dimen0 by 1024
   \divide\dimen0 by \hsize \multiply\dimen0 by \footfudgefiddle
   \xdef\footfudgefactor{\expandafter\strip@pt\dimen0 }}}
\bidi@ensure@newcommand{\@parafootnotetext}[1]{\insert\footinsv@r{%
  \let\bidi@RTL@everypar\@empty%
  \def\baselinestretch{\m@m@footnote@spacing}%
  \reset@font\foottextfont
  \@preamfntext
  \protected@edef\@currentlabel{%
    \csname p@footnote\endcsname\@thefnmark}%
  \setbox0=\vbox{\hsize=\maxdimen
    \color@begingroup
    \noindent \@parafootfmt{\if@RTL@footnote\beginR\else\beginL\fi#1\if@RTL@footnote\endR\else
    \color@endgroup}%
  \m@mungebox}\m@mmf@prepare}
\bidi@ensure@newcommand{\@paraLTRfootnotetext}[1]{\insert\footinsv@r{%
 \let\bidi@RTL@everypar\@empty%
  \def\baselinestretch{\m@m@footnote@spacing}%
  \reset@font\LTRfoottextfont
  \@preamfntext
  \protected@edef\@currentlabel{%
    \csname p@footnote\endcsname\@thefnmark}%
  \setbox0=\vbox{\hsize=\maxdimen
    \color@begingroup
      \noindent \@paraLTRfootfmt{\beginL#1\endL}%
```

```
    \color@endgroup}%
  \m@mungebox}\m@mmf@prepare}
\bidi@ensure@newcommand{\@paraRTLfootnotetext}[1]{\insert\footinsv@r{%
  \let\bidi@RTL@everypar\@empty%
  \def\baselinestretch{\m@m@footnote@spacing}%
  \reset@font\RTLfoottextfont
  \@preamfntext
  \protected@edef\@currentlabel{%
    \csname p@footnote\endcsname\@thefnmark}%
  \setbox0=\vbox{\hsize=\maxdimen
    \color@begingroup
      \noindent \@paraRTLfootfmt{\beginR#1\endR}%
    \color@endgroup}%
  \m@mungebox}\m@mmf@prepare}
\bidi@ensure@newcommand{\@parafootfmt}[1]{%
  \parindent=\z@
  \parfillskip=0pt \@plus 1fil
  {\footfootmark\strut {\foottextfont #1}\penalty-10}}
\bidi@ensure@newcommand{\@paraLTRfootfmt}[1]{%
  \parindent=\z@
  \parfillskip=0pt \@plus 1fil
  {\footfootmark\strut {\LTRfoottextfont #1}\penalty-10}}
\bidi@ensure@newcommand{\@paraRTLfootfmt}[1]{%
  \parindent=\z@
  \parfillskip=0pt \@plus 1fil
  {\footfootmark\strut {\RTLfoottextfont #1}\penalty-10}}
\bidi@ensure@newcommand{\@mpparafootnotetext}[1]{%
  \global\setbox\@mpfootinsv@r\vbox{%
    \let\bidi@RTL@everypar\@empty%
    \unvbox\@mpfootinsv@r
    \def\baselinestretch{\m@m@footnote@spacing}%
    \reset@font\foottextfont
    \hsize\columnwidth \@parboxrestore
    \protected@edef\@currentlabel{%
      \csname p@mpfootnote\endcsname\@thefnmark}%
    \setbox0=\vbox{\hsize=\maxdimen
      \color@begingroup
    \noindent \@parafootfmt{\if@RTL@footnote\beginR\else\beginL\fi#1\if@RTL@footnote\endR\else
      \color@endgroup}%
  \m@mungebox}\m@mmf@prepare}
\bidi@ensure@newcommand{\@mpparaLTRfootnotetext}[1]{%
  \global\setbox\@mpfootinsv@r\vbox{%
   \let\bidi@RTL@everypar\@empty%
    \unvbox\@mpfootinsv@r
    \def\baselinestretch{\m@m@footnote@spacing}%
    \reset@font\LTRfoottextfont
    \hsize\columnwidth \@parboxrestore
    \protected@edef\@currentlabel{%
      \csname p@mpfootnote\endcsname\@thefnmark}%
    \setbox0=\vbox{\hsize=\maxdimen
```

```
      \color@begingroup
      \noindent \@paraLTRfootfmt{\beginL#1\endL}%
      \color@endgroup}%
  \m@mungebox}\m@mmf@prepare}
\bidi@ensure@newcommand{\@mpparaRTLfootnotetext}[1]{%
  \global\setbox\@mpfootinsv@r\vbox{%
   \let\bidi@RTL@everypar\@empty%
    \unvbox\@mpfootinsv@r
    \def\baselinestretch{\m@m@footnote@spacing}%
    \reset@font\RTLfoottextfont
    \hsize\columnwidth \@parboxrestore
    \protected@edef\@currentlabel{%
      \csname p@mpfootnote\endcsname\@thefnmark}%
    \setbox0=\vbox{\hsize=\maxdimen
      \color@begingroup
      \noindent \@paraRTLfootfmt{\beginR#1\endR}%
      \color@endgroup}%
  \m@mungebox}\m@mmf@prepare}
\bidi@ensure@newcommand{\paragraphfootstyle}[1]{%
  \m@make@parafootnotetext{#1}%
  \m@make@mpparafootnotetext{#1}%
  \m@make@parafootfmt{#1}%
  \m@make@para@footgroup{#1}%
  \m@make@mppara@footgroup{#1}%
  \m@make@para@footstart{#1}%
  \bidi@namelongdef{@footnotetext#1}##1{%
    \@nameuse{@parafootnotetext#1}{##1}}%
  \bidi@namelongdef{@mpfootnotetext#1}##1{%
    \@nameuse{@mpparafootnotetext#1}{##1}}%
  \@namedef{@footgroup#1}{\@nameuse{@para@footgroup#1}}%
  \@namedef{mp@footgroup#1}{\@nameuse{@mppara@footgroup#1}}%
  \@namedef{@footstart#1}{\@nameuse{@para@footstart#1}}%
  \expandafter\dimen\csname footins#1\endcsname=\footinsdim
  \expandafter\count\csname footins#1\endcsname=1000\relax
  {\def\baselinestretch{\m@m@footnote@spacing}%
  \@nameuse{foottextfont#1}%
   \dimen0=\baselineskip
   \multiply\dimen0 by 1024
   \divide\dimen0 by \hsize \multiply\dimen0 by 64
   \xdef\footfudgefactor{\expandafter\strip@pt\dimen0 }}}
\bidi@ensure@newcommand{\m@make@parafootnotetext}[1]{%
\bidi@namelongdef{@parafootnotetext#1}##1{%
  \insert\@nameuse{footins#1}{
  \def\baselinestretch{\m@m@footnote@spacing}%
  \reset@font\@nameuse{foottextfont#1}%
  \@preamfntext
  \protected@edef\@currentlabel{%
    \csname p@footnote#1\endcsname \@nameuse{@thefnmark#1}}%
  \setbox0=\vbox{\hsize=\maxdimen
    \color@begingroup
```

```
      \noindent \@nameuse{@parafootfmt#1}{##1}%
    \color@endgroup}%
  \m@mungebox}\m@mmf@prepare}}
\bidi@ensure@newcommand{\m@make@mpparafootnotetext}[1]{%
\bidi@namelongdef{@mpparafootnotetext#1}##1{%
  \global\setbox\@nameuse{@mpfootins#1}\vbox{%
    \unvbox\@nameuse{@mpfootins#1}
    \def\baselinestretch{\m@m@footnote@spacing}%
    \reset@font\@nameuse{foottextfont#1}%
    \hsize\columnwidth \@parboxrestore
    \protected@edef\@currentlabel{%
      \csname p@mpfootnote#1\endcsname\@nameuse{@thefnmark#1}}%
    \setbox0=\vbox{\hsize=\maxdimen
      \color@begingroup
        \noindent \@nameuse{@parafootfmt#1}{##1}%
      \color@endgroup}%
    \m@mungebox}\m@mmf@prepare}}
\bidi@ensure@newcommand{\m@make@parafootfmt}[1]{%
\bidi@namelongdef{@parafootfmt#1}##1{%
  \parindent=\z@
  \parfillskip=0pt \@plus 1fil
  {\@nameuse{footfootmark#1}\strut
   {\@nameuse{foottextfont#1}##1}\penalty-10}}}
\bidi@ensure@newcommand{\m@make@para@footgroup}[1]{%
\@namedef{@para@footgroup#1}{%
  \unvbox\@nameuse{footins#1}
  \m@mmakehboxofhboxes
  \setbox0=\hbox{\unhbox0 \m@mremovehboxes}%
  \@nameuse{foottextfont#1}%
  \noindent\unhbox0\par}}
\bidi@ensure@newcommand{\m@make@mppara@footgroup}[1]{%
\@namedef{@mppara@footgroup#1}{%
  \unvbox\@nameuse{@mpfootins#1}
  \m@mmakehboxofhboxes
  \setbox0=\hbox{\unhbox0 \m@mremovehboxes}%
  \@nameuse{foottextfont#1}%
  \noindent\unhbox0\par}}
\bidi@ensure@newcommand{\m@make@para@footstart}[1]{%
\@namedef{@para@footstart#1}{%
  \vskip\bigskipamount
  \leftskip=\z@
  \rightskip=\z@
  \parindent=\z@
  \vskip\skip\@nameuse{footins#1}%
  \footnoterule}}
\bidi@ensure@newcommand*{\m@m@makecolfloats}{%
  \xdef\@freelist{\@freelist\@midlist}%
  \global\let\@midlist\@empty
  \@combinefloats}
\bidi@ensure@newcommand*{\m@m@makecoltext}{%
```

```
  \ifvbox\@kludgeins
    \@makespecialcolbox
  \else
    \setbox\@outputbox \vbox to\@colht{%
      \@texttop
      \dimen@ \dp\@outputbox
      \unvbox \@outputbox
      \vskip -\dimen@
      \@textbottom}%
  \fi}
\bidi@ensure@newcommand*{\m@m@makecolintro}{}
\bidi@ensure@newcommand*{\m@mopfootnote}{\setbox\@outputbox \vbox{%
  \boxmaxdepth\@maxdepth
  \@tempdima\dp\@cclv
  \unvbox\@cclv
  \vskip-\@tempdima
  \vskip \skip\footins
  \color@begingroup
    \normalcolor
    \footnoterule
    \unvbox \footins
  \color@endgroup}}
\bidi@ensure@newcommand*{\m@mopsidebar}{%
  \ifvoid\sideins\else
    \setbox\@outputbox \vbox{%
      \sidecontents
      \unvbox\@outputbox}
  \fi}
\gdef\mem@makecol{%
  \m@m@makecolintro
  \ifvoid\footins
    \setbox\@outputbox \box\@cclv
  \else
    \m@mopfootnote
  \fi
  \m@mdoextrafeet
  \m@m@makecolfloats
  \m@mopsidebar
  \m@m@makecoltext
  \global \maxdepth \@maxdepth}
\bidi@ensure@newcommand{\feetabovefloat}{\gdef\@makecol{\mem@makecol}}
\feetabovefloat%
```

7.56 extreport-xetex-bidi.def

```
\ProvidesFile{extreport-xetex-bidi.def}[2015/11/14 v0.2 bidi adaptations for extreport class for
\renewcommand*\l@part[2]{%
  \ifnum \c@tocdepth >-2\relax
    \addpenalty{-\@highpenalty}%
    \addvspace{2.25em \@plus\p@}%
```

```
    \begingroup
      \setlength\@tempdima{3em}%
      \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
      \parfillskip -\@pnumwidth
      {\leavevmode
       \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
       \nobreak
         \global\@nobreaktrue
         \everypar{\global\@nobreakfalse\everypar{}}%
    \endgroup
  \fi}
\renewcommand*\l@chapter[2]{%
  \ifnum \c@tocdepth >\m@ne
    \addpenalty{-\@highpenalty}%
    \vskip 1.0em \@plus\p@
    \setlength\@tempdima{1.5em}%
    \begingroup
      \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
      \parfillskip -\@pnumwidth
      \leavevmode \bfseries
      \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
      \hskip -\if@RTL\rightskip\else\leftskip\fi
      #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
      \penalty\@highpenalty
    \endgroup
  \fi}
\def\@makechapterhead#1{%
  \vspace*{50\p@}%
  {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont
    \ifnum \c@secnumdepth >\m@ne
        \huge\bfseries \@chapapp\space \thechapter
        \par\nobreak
        \vskip 20\p@
    \fi
    \interlinepenalty\@M
    \Huge \bfseries #1\par\nobreak
    \vskip 40\p@
  }}
\def\@makeschapterhead#1{%
  \vspace*{50\p@}%
  {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
    \normalfont
    \interlinepenalty\@M
    \Huge \bfseries  #1\par\nobreak
    \vskip 40\p@
  }}
\renewcommand\left@footnoterule{%
  \kern-3\p@
  \hrule\@width.4\columnwidth
  \kern2.6\p@}
```

```
\renewcommand\right@footnoterule{%
  \kern-3\p@
  \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
  \kern2.6\p@}
\renewenvironment{thebibliography}[1]
     {\chapter*{\bibname
        \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}}%
    \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
      \list{\@biblabel{\@arabic\c@enumiv}}%
           {\settowidth\labelwidth{\@biblabel{#1}}%
            \leftmargin\labelwidth
            \advance\leftmargin\labelsep
            \@openbib@code
            \usecounter{enumiv}%
            \let\p@enumiv\@empty
            \renewcommand\theenumiv{\@arabic\c@enumiv}}%
      \sloppy\clubpenalty4000\widowpenalty4000%
      \sfcode`\.\@m}
     {\def\@noitemerr
       {\@latex@warning{Empty `thebibliography' environment}}%
      \endlist}
  \if@titlepage
  \renewcommand\maketitle{\begin{titlepage}%
  \let\footnotesize\small
  \let\right@footnoterule\relax
  \let\left@footnoterule\relax
  \let\textwidth@footnoterule\relax
  \let \footnote \thanks
  \null\vfil
  \vskip 60\p@
  \begin{center}%
    {\LARGE \@title \par}%
    \vskip 3em%
    {\large
     \lineskip .75em%
      \begin{tabular}[t]{c}%
        \@author
      \end{tabular}\par}%
      \vskip 1.5em%
    {\large \@date \par}%       % Set date in \large size.
  \end{center}\par
  \@thanks
  \vfil\null
  \end{titlepage}%
  \setcounter{footnote}{0}%
  \global\let\thanks\relax
  \global\let\maketitle\relax
  \global\let\@thanks\@empty
  \global\let\@author\@empty
  \global\let\@date\@empty
```

```
  \global\let\@title\@empty
  \global\let\title\relax
  \global\let\author\relax
  \global\let\date\relax
  \global\let\and\relax
}
\else
\renewcommand\maketitle{\par
  \begingroup
    \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
    \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
    \long\def\@makefntext##1{\parindent 1em\noindent
            \hb@xt@1.8em{%
                \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
    \if@twocolumn
      \ifnum \col@number=\@ne
        \@maketitle
      \else
        \twocolumn[\@maketitle]%
      \fi
    \else
      \newpage
      \global\@topnum\z@   % Prevents figures from going at top of page.
      \@maketitle
    \fi
    \thispagestyle{plain}\@thanks
  \endgroup
  \setcounter{footnote}{0}%
  \global\let\thanks\relax
  \global\let\maketitle\relax
  \global\let\@maketitle\relax
  \global\let\@thanks\@empty
  \global\let\@author\@empty
  \global\let\@date\@empty
  \global\let\@title\@empty
  \global\let\title\relax
  \global\let\author\relax
  \global\let\date\relax
  \global\let\and\relax
}
\def\@maketitle{%
  \newpage
  \null
  \vskip 2em%
  \begin{center}%
  \let \footnote \thanks
    {\LARGE \@title \par}%
    \vskip 1.5em%
    {\large
      \lineskip .5em%
```

```
      \begin{tabular}[t]{c}%
        \@author
      \end{tabular}\par}%
    \vskip 1em%
    {\large \@date}%
  \end{center}%
  \par
  \vskip 1.5em}
\fi
\renewcommand\thesection      {\thechapter\@SepMark\@arabic\c@section}
\renewcommand\thesubsection   {\thesection\@SepMark\@arabic\c@subsection}
\renewcommand\thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
\renewcommand\theparagraph    {\thesubsubsection\@SepMark\@arabic\c@paragraph}
\renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
\renewcommand\theequation{%
  \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@equation}
\renewcommand\thefigure{%
  \ifnum \c@chapter>\z@\thechapter\@SepMark\fi \@arabic\c@figure}
\renewcommand\thetable{%
  \ifnum \c@chapter>\z@\thechapter\@SepMark\fi\@arabic\c@table}
```

7.57 fancybox-xetex-bidi.def

```
\ProvidesFile{fancybox-xetex-bidi.def}[2013/05/01 v0.1 bidi adaptations for fancybox package for
\def\fancy@@oval#1#2#3{%
  \boxmaxdepth \maxdimen
  \@ovttrue \@ovbtrue \@ovltrue \@ovrtrue
  \@tfor\@tempa :=#3\do{\csname @ov\@tempa false\endcsname}%
  \@ovxx#1\relax
  \advance\@ovxx-\@wholewidth
  \@ovyy#2\relax
  \advance\@ovyy-\@wholewidth
  \@tempdimb \ifdim \@ovyy >\@ovxx \@ovxx\else \@ovyy \fi
  \advance\@tempdimb-2\p@
  \ifdim\@tempdimb>\the@cornersize\relax
    \@tempdimb=\the@cornersize
  \fi
  \@getcirc\@tempdimb
  \@ovro\ht\@tempboxa \@ovri\dp\@tempboxa
  \@ovdx\@ovxx \advance\@ovdx-\@tempdima \divide\@ovdx \tw@
  \@ovdy\@ovyy \advance\@ovdy-\@tempdima \divide\@ovdy \tw@
  \@circlefnt
  \setbox\@tempboxa\hbox{\beginL%
    \if@ovr \@ovvert32\kern -\@tempdima \fi
    \if@ovl \kern \@ovxx \@ovvert01\kern -\@tempdima \kern -\@ovxx \fi
    \if@ovt \@ovhorz \kern -\@ovxx \fi
    \if@ovb \raise \@ovyy \@ovhorz \fi\endL}%
  \advance\@ovdx\@ovro
  \advance\@ovdy\@ovro
  \advance\@ovxx\@wholewidth
```

```
  \wd\@tempboxa=\@ovxx
  \dp\@tempboxa=\z@}
```

7.58 fancyhdr-xetex-bidi.def

```
\ProvidesFile{fancyhdr-xetex-bidi.def}[2012/04/18 v0.4 bidi adaptations for fancyhdr package for
\let\fnch@everypar\everypar%
\def\@fancyhead#1#2#3#4#5{\if@RTLmain\beginR\else\beginL\fi#1\if@RTLmain\endR\else\endL\fi\hb
  \@fancyvbox\headheight{\hbox
   {\rlap{\parbox[b]{\headwidth}{\bidi@raggedright\if@RTLmain\beginR\else\beginL\fi#2\if@RTLma
     \parbox[b]{\headwidth}{\centering\if@RTLmain\beginR\else\beginL\fi#3\if@RTLmain\endR\else
     \llap{\parbox[b]{\headwidth}{\bidi@raggedleft\if@RTLmain\beginR\else\beginL\fi#4\if@RTLma
\def\@fancyfoot#1#2#3#4#5{\if@RTLmain\beginR\else\beginL\fi#1\if@RTLmain\endR\else\endL\fi\hb
    \@fancyvbox\footskip{\footrule
    \hbox{\rlap{\parbox[t]{\headwidth}{\bidi@raggedright\if@RTLmain\beginR\else\beginL\fi#2\i
      \parbox[t]{\headwidth}{\centering\if@RTLmain\beginR\else\beginL\fi#3\if@RTLmain\endR\els
      \llap{\parbox[t]{\headwidth}{\bidi@raggedleft\if@RTLmain\beginR\else\beginL\fi#4\if@RTLm
```

7.59 fix2col-xetex-bidi.def

```
\ProvidesFile{fix2col-xetex-bidi.def}[2013/04/10 v0.3 bidi adaptations for fix2col package for X
\def\RTL@outputdblcol{%
  \if@firstcolumn
    \global\@firstcolumnfalse
    \global\setbox\@leftcolumn\copy\@outputbox
    \splitmaxdepth\maxdimen
    \vbadness\maxdimen
    \setbox\@outputbox\vsplit\@outputbox to\maxdimen
    \toks@\expandafter{\topmark}%
    \xdef\@firstcoltopmark{\the\toks@}%
    \toks@\expandafter{\splitfirstmark}%
    \xdef\@firstcolfirstmark{\the\toks@}%
    \ifx\@firstcolfirstmark\@empty
      \global\let\@setmarks\relax
    \else
      \gdef\@setmarks{%
        \let\firstmark\@firstcolfirstmark
        \let\topmark\@firstcoltopmark}%
    \fi
\else  \global\@firstcolumntrue
\setbox\@outputbox \vbox {\hbox to\textwidth {%
\hskip \columnwidth
\hfil \vrule width\columnseprule \hfil
\hbox to\columnwidth {\box\@leftcolumn \hss}%
\hskip -\textwidth
\hbox to\columnwidth{\box\@outputbox \hss}%
\hskip \columnsep
\hskip \columnwidth }}%
\@combinedblfloats \@setmarks \@outputpage
\begingroup \@dblfloatplacement \@startdblcolumn
\@whilesw\if@fcolmade \fi
```

```
{\@outputpage \@startdblcolumn }\endgroup
\fi}
\def\LTR@outputdblcol{%
  \if@firstcolumn
    \global\@firstcolumnfalse
    \global\setbox\@leftcolumn\copy\@outputbox
    \splitmaxdepth\maxdimen
    \vbadness\maxdimen
    \setbox\@outputbox\vsplit\@outputbox to\maxdimen
    \toks@\expandafter{\topmark}%
    \xdef\@firstcoltopmark{\the\toks@}%
    \toks@\expandafter{\splitfirstmark}%
    \xdef\@firstcolfirstmark{\the\toks@}%
    \ifx\@firstcolfirstmark\@empty
      \global\let\@setmarks\relax
    \else
      \gdef\@setmarks{%
        \let\firstmark\@firstcolfirstmark
        \let\topmark\@firstcoltopmark}%
    \fi
  \else
    \global\@firstcolumntrue
    \setbox\@outputbox\vbox{%
     \hb@xt@\textwidth{%
        \hb@xt@\columnwidth{\box\@leftcolumn \hss}%
        \hfil
        \vrule \@width\columnseprule
        \hfil
       \hb@xt@\columnwidth{\box\@outputbox \hss}}}%
  \@combinedblfloats
    \@setmarks
    \@outputpage
    \begingroup
      \@dblfloatplacement
      \@startdblcolumn
      \@whilesw\if@fcolmade \fi{\@outputpage\@startdblcolumn}%
    \endgroup
  \fi}
```

7.60 fleqn-xetex-bidi.def

```
\ProvidesFile{fleqn-xetex-bidi.def}[2010/03/01 v0.1 bidi adaptations for fleqn tag for XeTeX eng
\renewcommand\[{\relax
                \ifmmode\@badmath
                \else
                  \begin{trivlist}%
                    \@beginparpenalty\predisplaypenalty
                    \@endparpenalty\postdisplaypenalty
                    \item[]\leavevmode
                  \hb@xt@\linewidth\bgroup \beginL$\m@th\displaystyle %$
```

```
                        \hskip\mathindent\bgroup
                  \fi}
\renewcommand\]{\relax
                  \ifmmode
                        \egroup $\hfil% $
                     \endL\egroup
                   \end{trivlist}%
                  \else \@badmath
                  \fi}
\renewenvironment{equation}%
    {\@beginparpenalty\predisplaypenalty
     \@endparpenalty\postdisplaypenalty
     \refstepcounter{equation}%
     \trivlist \item[]\leavevmode
       \hb@xt@\linewidth\bgroup\beginL $\m@th% $
         \displaystyle
         \hskip\mathindent}%
        {$\hfil % $
         \displaywidth\linewidth\hbox{\@eqnnum}%
       \endL\egroup
     \endtrivlist}
```

7.61 float-xetex-bidi.def

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

7.62 floatrow-xetex-bidi.def

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

7.63 flowfram-xetex-bidi.def

```
\ProvidesFile{flowfram-xetex-bidi.def}[2010/07/25 v0.2 bidi adaptations for flowfram package for
\def\@outputdblcol{%
\@nxtcol=\c@thisframe
\c@curpg=\c@page
\@g@tnextcol{\@nxtcol}%
\if@ff@nwpg % next flow frame starts on new page
  \global\@firstcolumntrue
  \@setcolbox\c@thisframe
```

```
  \if@specialpage
    \global\@specialpagefalse
    \@nameuse{ps@\@specialstyle}\relax
  \fi
  \if@twoside
    \ifodd\count\z@
      \let\@thehead\@oddhead
      \let\@thefoot\@oddfoot
    \else
      \let\@thehead\@evenhead
      \let\@thefoot\@evenfoot
    \fi
  \else
    \let\@thehead\@oddhead
    \let\@thefoot\@oddfoot
  \fi
  \@begindvi
  \@dodynamicthehead\@dodynamicthefoot
  \vbadness=\@M
  \setbox\@outputbox\vbox{\hbox to \textwidth{\@ff@do@allframes}}%
  \@combinedblfloats
  \@outputpage
\advance\c@curpg by -\c@page\relax
  \whiledo{\c@curpg>0}{\advance\c@curpg by -1\relax
  \setbox\@outputbox\vbox{\hbox to \textwidth{\@ff@do@allframes}}%
\@outputpage}
  \begingroup
    \@dblfloatplacement
    \@startdblcolumn
    \@whilesw \if@fcolmade \fi
       {\@outputpage \@startdblcolumn }\endgroup
  \@resetst@tics
  \@resetdyn@mics
\else % still on same page, save contents of box255
  \global\@firstcolumnfalse
  \@setcolbox\c@thisframe
\fi
\global\c@thisframe=\@nxtcol
\@setcol{\c@thisframe}\relax
\global\@colht\vsize
}
\def\@outputpage{%
\begingroup
  \let\protect\noexpand
  \@resetactivechars
  \global\let\@@if@newlist\if@newlist
  \global\@newlistfalse\@parboxrestore
  \shipout\vbox{\set@typeset@protect
    \aftergroup
    \endgroup
```

```
    \aftergroup
    \set@typeset@protect
    \reset@font\normalsize\normalsfcodes
    \let\label\@gobble
    \let\index\@gobble
    \let\glossary\@gobble
    \baselineskip\z@skip
    \lineskip\z@skip
    \lineskiplimit\z@
    \vskip\topmargin\moveright\@themargin
    \vbox{%
      \vskip\headheight
      \vskip\headsep
      \box\@outputbox
    }}%
  \global\let\if@newlist\@@if@newlist
  \stepcounter{page}%
  \setcounter{displayedframe}{0}%
  \let\firstmark\botmark}


\newcommand*\bidi@s@tfftextcol{\ifthenelse{\equal{\ff@txtcol}{}}{}{%
\expandafter\bidicolor\ff@txtcol}}

\newcommand{\bidi@ff@box}[3]{{\@ffbackground{\vbox to#2
{\hb@xt@ #1{\hss{\bidi@s@tfftextcol #3}\hss}\vss\kern\z@}}}}


\renewcommand*{\@docolbox}[1]{%
\edef\ff@frametype{%
\csname @ff@frametype@\romannumeral#1\endcsname}%
\edef\ff@col{\csname @ff@col@\romannumeral#1\endcsname}%
\edef\ff@txtcol{\csname @ff@txtcol@\romannumeral#1\endcsname}%
\edef\ff@backcol{\csname @ff@backcol@\romannumeral#1\endcsname}%
\@ff@setoffset{#1}%
\rotateframe{\csname @ff@angle@\romannumeral#1\endcsname}{%
\ifthenelse{\boolean{columnframe\romannumeral#1}}{%
\@ff@fbox{\csname colwidth\romannumeral#1\endcsname}%
{\csname colheight\romannumeral#1\endcsname}{%
\expandafter\box\csname column\romannumeral#1\endcsname}{%
\csname\ff@frametype\endcsname}%
}{%
\bidi@ff@box{\csname colwidth\romannumeral#1\endcsname}%
{\csname colheight\romannumeral#1\endcsname}{%
\expandafter\box\csname column\romannumeral#1\endcsname}%
}}}
\@ifclassloaded{book}{%
\renewcommand\theequation
  {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
\renewcommand \thefigure
```

```
      {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
\renewcommand \thetable
      {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
\renewcommand \thechapter {\@arabic\c@chapter}
\renewcommand \thesection {\thechapter\@SepMark\@arabic\c@section}
\renewcommand\thesubsection  {\thesection\@SepMark\@arabic\c@subsection}
\renewcommand\thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
\renewcommand\theparagraph   {\thesubsubsection\@SepMark\@arabic\c@paragraph}
\renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}}{}
\@ifclassloaded{report}{%
\renewcommand\theequation
  {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
\renewcommand \thefigure
      {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
\renewcommand \thetable
      {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
\renewcommand \thechapter {\@arabic\c@chapter}
\renewcommand \thesection {\thechapter\@SepMark\@arabic\c@section}
\renewcommand\thesubsection  {\thesection\@SepMark\@arabic\c@subsection}
\renewcommand\thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
\renewcommand\theparagraph   {\thesubsubsection\@SepMark\@arabic\c@paragraph}
\renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}}{}
\renewcommand{\rotateframe}[2]{\if@ttb@rotate
\rotatebox{#1}{\if@RTL\beginL\fi#2\if@RTL\endL\fi}%
\else
#2\relax
\fi}
```

7.64 footnote-xetex-bidi.def

```
\ProvidesFile{footnote-xetex-bidi.def}[2015/11/14 v0.9 bidi footnote macros for XeTeX engine]
\if@RTLmain\@RTL@footnotetrue\else\@RTL@footnotefalse\fi
\newif\ifbidi@autofootnoterule
\def\bidi@mpfootnoterule{\footnoterule}
\newcounter{footdir@label}
\renewcommand*{\thefootdir@label}{footdir@\the\value{footdir@label}}
\newcommand*{\footdir@write}{%
  \stepcounter{footdir@label}%
  \zref@labelbyprops{\thefootdir@label}{abspage}%
}
\newif\iffootdir@debug
\newcommand*{\debugfootnotedirection}{\footdir@debugtrue}
\newtoks\footdir@toks
\newcommand*{\footdir@debug}[1]{%
  \iffootdir@debug
    \typeout{[footdir] #1}%
  \fi
}
\@ifpackagelater{zref-abspage}{2012/10/27}{%
  \newcommand*{\footdir@LeftRightElse}{%
```

```
    \ltx@ifundefined{footdir@\the\value{zabspage}}{%
      \footdir@debug{abspage \the\value{zabspage}: else}%
      \ltx@thirdofthree
    }{%
      \if\csname footdir@\the\value{zabspage}\endcsname L%
        \footdir@debug{abspage \the\value{zabspage}: left}%
        \expandafter\ltx@firstofthree
      \else
        \footdir@debug{abspage \the\value{zabspage}: right}%
        \expandafter\ltx@secondofthree
      \fi
    }%
  }%
}{%
  \providecommand*{\c@zabspage}{\c@abspage}%
  \newcommand*{\footdir@LeftRightElse}{%
    \footdir@write
    \zifrefundefined{\thefootdir@label}{%
      \footdir@debug{abspage ??: else}%
      \ltx@thirdofthree
    }{%
      \edef\footdir@abspage{%
        \zref@extractdefault{\thefootdir@label}{abspage}{0}%
      }%
      \ltx@ifundefined{footdir@\footdir@abspage}{%
        \footdir@debug{\footdir@abspage: else}%
        \ltx@thirdofthree
      }{%
        \if\csname footdir@\footdir@abspage\endcsname L%
          \footdir@debug{\footdir@abspage: left}%
          \expandafter\ltx@firstofthree
        \else
          \footdir@debug{\footdir@abspage: right}%
          \expandafter\ltx@secondofthree
        \fi
      }%
    }%
  }%
}
\newcommand*{\footdir@fntext}[1]{%
  \zifrefundefined{\thefootdir@label}{%
  }{%
    \edef\footdir@name{%
      footdir@\zref@extractdefault{\thefootdir@label}{abspage}{0}%
    }%
    \@ifundefined{\footdir@name}{%
      \expandafter\gdef\csname\footdir@name\endcsname{#1}%
    }{}%
  }%
}
```

```
\newcommand*{\footdir@temp}[3]{%
  \@ifdefinable{#1}{%
    \let#1#2%
    \renewcommand{#2}[1]{%
      \footdir@write
      \footdir@fntext{#3}%
      \stepcounter{footdir@label}%
      \footdir@fntext{#3}%
      \footdir@toks{##1}%
      \footdir@toks\expandafter{%
        \the\expandafter\footdir@toks
        \expandafter
        \zref@labelbyprops\expandafter{\thefootdir@label}{abspage}%
      }%
      \expandafter#1\expandafter{\the\footdir@toks}%
    }%
  }%
}

\def\right@footnoterule{%
  \kern-3\p@
  \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
  \kern2.6\p@}
\def\left@footnoterule{\kern-3\p@
  \hrule \@width .4\columnwidth \kern 2.6\p@}
\def\textwidth@footnoterule{\kern-3\p@
  \hrule \@width \columnwidth \kern 2.6\p@}
\def\leftfootnoterule{%
\bidi@autofootnoterulefalse%
\def\footnoterule{\left@footnoterule}}
\let\LRfootnoterule=\leftfootnoterule
\def\rightfootnoterule{%
\bidi@autofootnoterulefalse%
\def\footnoterule{\right@footnoterule}}
\def\textwidthfootnoterule{%
\bidi@autofootnoterulefalse%
\def\footnoterule{\textwidth@footnoterule}}


\def\auto@footnoterule{%
\footdir@LeftRightElse%
\left@footnoterule%
\right@footnoterule%
\left@footnoterule%
}
```

```
\def\autofootnoterule{%
\bidi@autofootnoteruletrue%
\def\footnoterule{\auto@footnoterule}%
}

\newcommand*{\SplitFootnoteRule}{%
  \gdef\split@prev{0}
  \let\pagefootnoterule\footnoterule
  \let\mpfootnoterule\footnoterule
  \def\splitfootnoterule{\kern-3\p@ \hrule \kern2.6\p@}
  \def\footnoterule{\relax
    \ifx \@listdepth\@mplistdepth
      \mpfootnoterule
    \else
      \ifnum\split@prev=\z@
        \pagefootnoterule
      \else
        \splitfootnoterule
      \fi
      \xdef\split@prev{\the\insertpenalties}%
    \fi
  }%
}



\def\RTLfootnote{\@ifnextchar[\@xRTLfootnote{\stepcounter\@mpfn
      \protected@xdef\@thefnmark{\thempfn}%
      \@footnotemark\@RTLfootnotetext}}
\def\@xRTLfootnote[#1]{%
    \begingroup
      \csname c@\@mpfn\endcsname #1\relax
      \unrestored@protected@xdef\@thefnmark{\thempfn}%
    \endgroup
    \@footnotemark\@RTLfootnotetext}
\def\LTRfootnote{\@ifnextchar[\@xLTRfootnote{\stepcounter\@mpfn
      \protected@xdef\@thefnmark{\thempfn}%
      \@footnotemark\@LTRfootnotetext}}
\def\@xLTRfootnote[#1]{%
    \begingroup
      \csname c@\@mpfn\endcsname #1\relax
      \unrestored@protected@xdef\@thefnmark{\thempfn}%
    \endgroup
    \@footnotemark\@LTRfootnotetext}


\def\setfootnoteRL{\@RTL@footnotetrue}
\def\unsetfootnoteRL{\@RTL@footnotefalse}
\def\setfootnoteLR{\unsetfootnoteRL}
```

```
10428
10429 \long\def\@footnotetext#1{\insert\footins{%
10430     \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
10431     \reset@font\footnotesize
10432     \interlinepenalty\interfootnotelinepenalty
10433     \splittopskip\footnotesep
10434     \splitmaxdepth \dp\strutbox \floatingpenalty \@MM
10435     \hsize\columnwidth \@parboxrestore
10436     \protected@edef\@currentlabel{%
10437        \csname p@footnote\endcsname\@thefnmark
10438     }%
10439     \color@begingroup
10440       \@makefntext{%
10441         \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}%
10442     \color@endgroup}}%
10443
10444
10445 \long\def\@RTLfootnotetext#1{\insert\footins{%
10446     \@RTLtrue%
10447     \reset@font\footnotesize
10448     \interlinepenalty\interfootnotelinepenalty
10449     \splittopskip\footnotesep
10450     \splitmaxdepth \dp\strutbox \floatingpenalty \@MM
10451     \hsize\columnwidth \@parboxrestore
10452     \protected@edef\@currentlabel{%
10453        \csname p@footnote\endcsname\@thefnmark
10454     }%
10455     \color@begingroup
10456       \@makefntext{%
10457         \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}%
10458     \color@endgroup}}%
10459
10460 \long\def\@LTRfootnotetext#1{\insert\footins{%
10461     \@RTLfalse%
10462     \reset@font\footnotesize
10463     \interlinepenalty\interfootnotelinepenalty
10464     \splittopskip\footnotesep
10465     \splitmaxdepth \dp\strutbox \floatingpenalty \@MM
10466     \hsize\columnwidth \@parboxrestore
10467     \protected@edef\@currentlabel{%
10468        \csname p@footnote\endcsname\@thefnmark
10469     }%
10470     \color@begingroup
10471       \@makefntext{%
10472         \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}%
10473     \color@endgroup}}%
10474
10475 \AtBeginDocument{%
10476 \if@RTL@footnote
10477   \newcommand*{\bidi@footdir@footnote}{R}
```

```
\else
  \newcommand*{\bidi@footdir@footnote}{L}
\fi%
}

\footdir@temp\footdir@ORG@bidi@footnotetext\@footnotetext{\bidi@footdir@footnote}%
\footdir@temp\footdir@ORG@bidi@RTLfootnotetext\@RTLfootnotetext{R}%
\footdir@temp\footdir@ORG@bidi@LTRfootnotetext\@LTRfootnotetext{L}%

\long\def\@mpRTLfootnotetext#1{%
 \ifbidi@autofootnoterule\ifnum\c@mpfootnote=\@ne\global\let\bidi@mpfootnoterule\right@footno
  \global\setbox\@mpfootins\vbox{\@RTLtrue%
    \unvbox\@mpfootins
    \reset@font\footnotesize
    \hsize\columnwidth
    \@parboxrestore
    \protected@edef\@currentlabel
         {\csname p@mpfootnote\endcsname\@thefnmark}%
    \color@begingroup
      \@makefntext{%
        \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}%
    \color@endgroup}}
\long\def\@mpLTRfootnotetext#1{%
 \ifbidi@autofootnoterule\ifnum\c@mpfootnote=\@ne\global\let\bidi@mpfootnoterule\left@footnote
  \global\setbox\@mpfootins\vbox{\@RTLfalse%
    \unvbox\@mpfootins
    \reset@font\footnotesize
    \hsize\columnwidth
    \@parboxrestore
    \protected@edef\@currentlabel
         {\csname p@mpfootnote\endcsname\@thefnmark}%
    \color@begingroup
      \@makefntext{%
        \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}%
    \color@endgroup}}
\long\def\@mpfootnotetext#1{%
 \ifbidi@autofootnoterule\ifnum\c@mpfootnote=\@ne\if@RTL@footnote\global\let\bidi@mpfootnoteru
  \global\setbox\@mpfootins\vbox{\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
    \unvbox\@mpfootins
    \reset@font\footnotesize
    \hsize\columnwidth
    \@parboxrestore
    \protected@edef\@currentlabel
         {\csname p@mpfootnote\endcsname\@thefnmark}%
    \color@begingroup
      \@makefntext{%
        \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}%
    \color@endgroup}}
\def\@iiiminipage#1#2[#3]#4{%
  \leavevmode
```

```
  \@pboxswfalse
  \if@RTLtab\@bidi@list@minipage@parbox@not@nobtrue\fi
 \if@RTL\if#1t\@bidi@list@minipage@parboxtrue\else\if#1b\@bidi@list@minipage@parboxtrue\fi\fi
  \setlength\@tempdima{#4}%
  \def\@mpargs{{#1}{#2}[#3]{#4}}%
  \setbox\@tempboxa\vbox\bgroup
    \color@begingroup
      \hsize\@tempdima
      \textwidth\hsize \columnwidth\hsize
      \@parboxrestore
     \def\@mpfn{mpfootnote}\def\thempfn{\thempfootnote}\c@mpfootnote\z@
      \let\@footnotetext\@mpfootnotetext
      \let\@LTRfootnotetext\@mpLTRfootnotetext
      \let\@RTLfootnotetext\@mpRTLfootnotetext
      \let\@listdepth\@mplistdepth \@mplistdepth\z@
      \@minipagerestore
      \@setminipage}
\def\endminipage{%
    \par
    \unskip
    \ifvoid\@mpfootins\else
      \vskip\skip\@mpfootins
      \normalcolor
      \bidi@mpfootnoterule
      \unvbox\@mpfootins
    \fi
    \@minipagefalse   %% added 24 May 89
  \color@endgroup
  \egroup
  \expandafter\@iiiparbox\@mpargs{\unvbox\@tempboxa}}
\def\LTRthanks#1{\footnotemark
    \protected@xdef\@thanks{\@thanks
        \protect\LTRfootnotetext[\the\c@footnote]{#1}}%
}
\def\LTRfootnotetext{%
     \@ifnextchar [\@xLTRfootnotenext
       {\protected@xdef\@thefnmark{\thempfn}%
    \@LTRfootnotetext}}
\def\@xLTRfootnotenext[#1]{%
  \begingroup
     \csname c@\@mpfn\endcsname #1\relax
     \unrestored@protected@xdef\@thefnmark{\thempfn}%
  \endgroup
  \@LTRfootnotetext}
\def\RTLthanks#1{\footnotemark
    \protected@xdef\@thanks{\@thanks
        \protect\RTLfootnotetext[\the\c@footnote]{#1}}%
}
\let\@thanks\@empty
\def\RTLfootnotetext{%
```

```
      \@ifnextchar [\@xRTLfootnotenext
        {\protected@xdef\@thefnmark{\thempfn}%
     \@RTLfootnotetext}}
\def\@xRTLfootnotenext[#1]{%
  \begingroup
     \csname c@\@mpfn\endcsname #1\relax
     \unrestored@protected@xdef\@thefnmark{\thempfn}%
  \endgroup
  \@RTLfootnotetext}
\leftfootnoterule
```

7.65 framed-xetex-bidi.def

```
\ProvidesFile{framed-xetex-bidi.def}[2012/06/05 v0.3 bidi adaptations for framed package for XeT
\renewcommand\TitleBarFrame[3][]{\begingroup
  \ifx\delimiter#1\delimiter
    \let\TF@conlab\@empty
  \else
    \def\TF@conlab{% continuation label
     \nointerlineskip
     \smash{\rlap{\kern\wd\@tempboxa\kern\fboxrule\kern\fboxsep #1}}}%
  \fi
  %\let\TF@savecolor\current@color
  \textcolor{TFFrameColor}{%
  \CustomFBox
    {\TF@Title{#2}}{\TF@conlab}%
    \fboxrule\fboxrule\fboxrule\fboxrule
    %{\let\current@color\TF@savecolor\set@color #3}%
    {\normalcolor #3}%
  }\endgroup
}
\renewenvironment{titled-frame}[1]{%
  \def\FrameCommand{\fboxsep8pt\fboxrule2pt
     \TitleBarFrame{\textbf{#1}}}%
  \def\FirstFrameCommand{\fboxsep8pt\fboxrule2pt
    \TitleBarFrame[$\if@RTL\blacktriangleleft\else\blacktriangleright\fi$]{\textbf{#1}}}%
  \def\MidFrameCommand{\fboxsep8pt\fboxrule2pt
    \TitleBarFrame[$\if@RTL\blacktriangleleft\else\blacktriangleright\fi$]{\textbf{#1\ (cont)}}
  \def\LastFrameCommand{\fboxsep8pt\fboxrule2pt
     \TitleBarFrame{\textbf{#1\ (cont)}}}%
  \MakeFramed{\advance\hsize-20pt \FrameRestore}}%
%  note: 8 + 2 + 8 + 2 = 20.  Don't use \width because the frame title
%  could interfere with the width measurement.
 {\endMakeFramed}
\chardef\FrameRestore=\catcode`\| % for debug
\catcode`\|=\catcode`\% % (debug: insert space after backslash)
\def\fb@put@frame#1#2{\relax
 \ifdim\pagegoal=\maxdimen \pagegoal\vsize \fi
|   \message{=============== Entering putframe ====================^^J
|     \pagegoal=\the\pagegoal,  \pagetotal=\the\pagetotal. }%
```

```
 \ifinner
   \fb@putboxa#1%
   \fb@afterframe
 \else
  \dimen@\pagegoal \advance\dimen@-\pagetotal % natural space left on page
  \ifdim\dimen@<2\baselineskip % Too little room on page
|   \message{Page has only \the\dimen@\space room left; eject. }%
    \eject \fb@adjheight \fb@put@frame#1#2%
  \else % there's appreciable room left on the page
    \fb@sizeofframe#1%
|   \message{\string\pagetotal=\the\pagetotal,
|       \string\pagegoal=\the\pagegoal,
|       \string\pagestretch=\the\pagestretch,
|       \string\pageshrink=\the\pageshrink,
|       \string\fb@frh=\the\fb@frh. \space}
|   \message{^^JBox of size \the\ht\@tempboxa\space}%
    \begingroup % temporarily set \dimen@ to be...
    \advance\dimen@.8\pageshrink  % maximum space available on page
   \advance\dimen@-\fb@frh\relax % max space available for frame's contents
%%% LOOKS SUBTRACTED AND ADDED, SO DOUBLE ACCOUNTING!
    \expandafter\endgroup
    % expand \ifdim, then restore \dimen@ to real room left on page
    \ifdim\dimen@>\ht\@tempboxa % whole box does fit
|      \message{fits in \the\dimen@. }%
       % ToDo: Change this to use vsplit anyway to capture the marks
       % MERGE THIS WITH THE else CLAUSE!!!
       \fb@putboxa#1%
       \fb@afterframe
    \else % box must be split
|      \message{must be split to fit in \the\dimen@. }%
     % update frame measurement to use \FirstFrameCommand or \MidFrameCommand
       \fb@sizeofframe#2%
      \setbox\@tempboxa\vbox{% simulate frame and flexiblity of the page:
           \vskip \fb@frh \@plus\pagestretch \@minus.8\pageshrink
           \kern137sp\kern-137sp\penalty-30
           \unvbox\@tempboxa}%
       \edef\fb@resto@set{\boxmaxdepth\the\boxmaxdepth
                          \splittopskip\the\splittopskip}%
       \boxmaxdepth\z@ \splittopskip\z@
|   \message{^^JPadded box of size \the\ht\@tempboxa\space split to \the\dimen@}%
       % Split box here
       \setbox\tw@\vsplit\@tempboxa to\dimen@
|      \toks99\expandafter{\splitfirstmark}%
|      \toks98\expandafter{\splitbotmark}%
|      \message{Marks are: \the\toks99, \the\toks98. }%
       \setbox\tw@\vbox{\unvbox\tw@}% natural-sized
|      \message{Natural height of split box is \the\ht\tw@, leaving
|         \the\ht\@tempboxa\space remainder. }%
     % If the split-to size > (\vsize-\topskip), then set box to full size.
       \begingroup
```

```
        \advance\dimen@\topskip
        \expandafter\endgroup
        \ifdim\dimen@>\pagegoal
          \message{Frame is big -- Use up the full column. }%
          \dimen@ii\pagegoal
          \advance\dimen@ii -\topskip
          \advance\dimen@ii \FrameHeightAdjust\relax
        \else  % suspect this is implemented incorrectly:
        % If the split-to size > feasible room_on_page, rebox it smaller.
          \advance\dimen@.8\pageshrink
          \ifdim\ht\tw@>\dimen@
            \message{Box too tall; rebox it to \the\dimen@. }%
            \dimen@ii\dimen@
          \else % use natural size
            \dimen@ii\ht\tw@
          \fi
        \fi
        % Re-box contents to desired size \dimen@ii
        \advance\dimen@ii -\fb@frh
        \setbox\tw@\vbox to\dimen@ii \bgroup
        % remove simulated frame and page flexibility:
        \vskip -\fb@frh \@plus-\pagestretch \@minus-.8\pageshrink
        \unvbox\tw@ \unpenalty\unpenalty
        \ifdim\lastkern=-137sp % whole box went to next page
           \message{box split at beginning! }%
           % need work here???
       \egroup \fb@resto@set \eject % (\vskip for frame size was discarded)
           \fb@adjheight
           \fb@put@frame#1#2% INSERTED ???
        \else % Got material split off at the head
           \egroup \fb@resto@set
           \ifvoid\@tempboxa % it all fit after all
              \message{box split at end! }%
              \setbox\@tempboxa\box\tw@
              \fb@putboxa#1%
              \fb@afterframe
           \else % it really did split
         \message{box split as expected. Its reboxed height is \the\ht\tw@. }%
              \ifdim\wd\tw@>\z@
                \wd\tw@\wd\@tempboxa
            \centerline{#2{\hboxL{\box\tw@}}}%  ??? \centerline bad idea
              \else
           \message{Zero width means likely blank. Don't frame it (guess)}%
                \box\tw@
              \fi
              \hrule \@height\z@ \@width\hsize
              \eject
              \fb@adjheight
              \fb@put@frame\LastFrameCommand\MidFrameCommand
  \fi\fi\fi\fi\fi
```

```
}
\def\fb@putboxa#1{%
  \ifvoid\@tempboxa
    \PackageWarning{framed}{Boxa is void -- discard it. }%
  \else
|   \message{Frame and place boxa. }%
|   %{\showoutput\showbox\@tempboxa}%
    \centerline{#1{\hboxL{\box\@tempboxa}}}%
  \fi
}
\catcode`\|=\FrameRestore
\def\FrameRestore{%
   \let\if@nobreak\iffalse
   \let\if@noskipsec\iffalse
   \let\-\@dischyph
   \let\'\@acci\let\`\@accii\let\=\@acciii
   %  \message{FrameRestore:
   %    \@totalleftmargin=\the \@totalleftmargin,
   %    \rightmargin=\the\rightmargin,
   %    \@listdepth=\the\@listdepth.  }%
   % Test if we are in a list (or list-like paragraph)
   \ifnum \ifdim\@totalleftmargin>\z@ 1\fi
          \ifdim\rightmargin>\z@ 1\fi
          \ifnum\@listdepth>\z@ 1\fi 0>\z@
    %   \message{In a list: \linewidth=\the\linewidth, \@totalleftmargin=\the\@totalleftmargin,
    %     \parshape=\the\parshape, \columnwidth=\the\columnwidth, \hsize=\the\hsize,
      %       \labelwidth=\the\labelwidth. }%
      \@setminipage % snug fit around the item
    % Now try to propageate changes of width from \hsize to list parameters.
    % This is deficient, but a more advanced way to indicate modification to text
    % dimensions is not (yet) provided; in particular, no separate left/right
      % adjustment.
      \advance\linewidth-\columnwidth \advance\linewidth\hsize
      \parshape\@ne \@totalleftmargin \linewidth
   \else % Not in list
     \linewidth=\hsize
     %\message{No list, set \string\linewidth=\the\hsize. }%
   \fi
   \sloppy
}
```

7.66 ftnright-xetex-bidi.def

```
\ProvidesFile{ftnright-xetex-bidi.def}[2013/04/10 v0.3 bidi adaptations for ftnright package for
\def\LTR@outputdblcol{\if@firstcolumn
  \global\@firstcolumnfalse
  \global\setbox\@leftcolumn\box\@outputbox
  \global\count\footins\@m
  \global\skip\footins\rcol@footinsskip
\else \preparefootins
```

```
  \global\@firstcolumntrue
  \setbox\@outputbox\vbox{\hbox to\textwidth
    {\hbox to\columnwidth
                  {\box\@leftcolumn\hss}%
     \hfil\vrule\@width\columnseprule\hfil
     \hbox to\columnwidth
                  {\box\@outputbox\hss}}}%
  \@combinedblfloats\@outputpage
  \begingroup
   \@dblfloatplacement\@startdblcolumn
   \@whilesw\if@fcolmade\fi
    {\@outputpage\@startdblcolumn}%
  \endgroup
 \fi}
 \def\RTL@outputdblcol{\if@firstcolumn
  \global\@firstcolumnfalse
  \global\setbox\@leftcolumn\box\@outputbox
  \global\count\footins\@m
  \global\skip\footins\rcol@footinsskip
 \else \preparefootins
  \global\@firstcolumntrue
  \setbox\@outputbox\vbox{\hbox to\textwidth
    {\hskip \columnwidth
     \hfil \vrule width\columnseprule \hfil
    \hbox to\columnwidth
                  {\box\@leftcolumn\hss}%
     \hskip -\textwidth
     \hbox to\columnwidth
                  {\box\@outputbox\hss}
      \hskip \columnsep
      \hskip \columnwidth}}%
  \@combinedblfloats\@outputpage
  \begingroup
   \@dblfloatplacement\@startdblcolumn
   \@whilesw\if@fcolmade\fi
    {\@outputpage\@startdblcolumn}%
  \endgroup
 \fi}
\let\leftfootnoterule\@empty
\let\rightfootnoterule\@empty
\let\textwidthfootnoterule\@empty
\let\autofootnoterule\@empty
\let\footnoterule\@empty
\long\def\@makefntext#1{\parindent 1em
   \noindent\hbox to 2em{}%
   \llap{\@thefnmark\hbox{.}\,\,}#1}
```

7.67 graphicx-xetex-bidi.def

```
\ProvidesFile{graphicx-xetex-bidi.def}[2012/01/01 v0.4 bidi adaptations for graphicx package for
```

```
\def\Grot@box@std#1#2{\ifmmode\else\if@RTL\beginL\fi\fi%
  \Grot@setangle{#1}%
 \setbox\z@\hbox{{\ifmmode\if@RTL\beginR\fi#2\if@RTL\endR\fi\else\if@RTL\beginR\fi#2\if@RTL\e
  \Grot@x\z@
  \Grot@y\z@
  \Grot@box\ifmmode\else\if@RTL\endL\fi\fi}
\long\def\Gscale@box#1[#2]#3{\ifmmode\else\if@RTL\beginL\fi\fi%
  \leavevmode
  \def\Gscale@x{#1}\def\Gscale@y{#2}%
  \setbox\z@\hbox{{#3}}%
  \setbox\tw@\hbox{\Gscale@start\rlap{\copy\z@}\Gscale@end}%
  \ifdim#2\p@<\z@
    \ht\tw@-#2\dp\z@
    \dp\tw@-#2\ht\z@
  \else
    \ht\tw@#2\ht\z@
    \dp\tw@#2\dp\z@
  \fi
  \ifdim#1\p@<\z@
    \hb@xt@-#1\wd\z@{\kern-#1\wd\z@\box\tw@\hss}%
  \else
    \wd\tw@#1\wd\z@
    \box\tw@
  \fi\ifmmode\else\if@RTL\endL\fi\fi}
\def\Gin@iii[#1,#2][#3,#4]#5{%
  \begingroup
  \ifmmode\else\if@RTL\beginL\fi\fi
  \Gin@bboxtrue
  \Gin@defaultbp\Gin@llx{#1}%
  \Gin@defaultbp\Gin@lly{#2}%
  \Gin@defaultbp\Gin@urx{#3}%
  \Gin@defaultbp\Gin@ury{#4}%
  \Ginclude@graphics{#5}%
  \ifmmode\else\if@RTL\endL\fi\fi
  \endgroup}
\def\Gin@ii[#1]#2{%
    \def\@tempa{[}\def\@tempb{#2}%
    \ifx\@tempa\@tempb
      \def\@tempa{\Gin@iii[#1][}%
      \expandafter\@tempa
    \else
     \begingroup
       \ifmmode\else\if@RTL\beginL\fi\fi
       \@tempswafalse
       \toks@{\Ginclude@graphics{#2}}%
       \setkeys{Gin}{#1}%
       \Gin@esetsize
       \the\toks@
       \ifmmode\else\if@RTL\endL\fi\fi
     \endgroup
```

```
    \fi}
\def\reflectbox{\bidiGscale@box-1[1]}
\long\def\bidiGscale@box#1[#2]#3{\ifmmode\else\if@RTL\beginL\fi\fi%
  \leavevmode
  \def\Gscale@x{#1}\def\Gscale@y{#2}%
  \setbox\z@\hbox{{\ifmmode\if@RTL\beginR\fi#3\if@RTL\endR\fi\else\if@RTL\beginR\fi#3\if@RTL\e
  \setbox\tw@\hbox{\Gscale@start\rlap{\copy\z@}\Gscale@end}%
  \ifdim#2\p@<\z@
    \ht\tw@-#2\dp\z@
    \dp\tw@-#2\ht\z@
  \else
    \ht\tw@#2\ht\z@
    \dp\tw@#2\dp\z@
  \fi
  \ifdim#1\p@<\z@
    \hb@xt@-#1\wd\z@{\kern-#1\wd\z@\box\tw@\hss}%
  \else
    \wd\tw@#1\wd\z@
    \box\tw@
  \fi\ifmmode\else\if@RTL\endL\fi\fi}
\def\scalebox#1{%
  \@ifnextchar[{\bidiGscale@box{#1}}{\bidiGscale@box{#1}[#1]}}
\def\resizebox{%
  \leavevmode
  \@ifstar{\bidiGscale@@box\totalheight}{\bidiGscale@@box\height}}
\def\bidiGscale@@box#1#2#3{%
  \let\@tempa\Gin@exclamation
  \expandafter\def\expandafter\@tempb\expandafter{\string#2}%
  \expandafter\def\expandafter\@tempc\expandafter{\string#3}%
  \ifx\@tempb\@tempa
    \ifx\@tempc\@tempa
      \toks@{\mbox}%
    \else
      \toks@{\bidiGscale@box@dd{#3}#1}%
    \fi
  \else
    \ifx\@tempc\@tempa
      \toks@{\bidiGscale@box@dd{#2}\width}%
    \else
      \toks@{\bidiGscale@box@dddd{#2}\width{#3}#1}%
    \fi
  \fi
  \the\toks@}
\long\def\bidiGscale@box@dd#1#2#3{%
  \@begin@tempboxa\hbox{\ifmmode\if@RTL\beginR\fi#3\if@RTL\endR\fi\else\if@RTL\beginR\fi#3\if@
    \setlength\@tempdima{#1}%
    \setlength\@tempdimb{#2}%
    \Gscale@div\@tempa\@tempdima\@tempdimb
    \Gscale@box\@tempa[\@tempa]{\box\@tempboxa}%
  \@end@tempboxa}
```

```
\long\def\bidiGscale@box@dddd#1#2#3#4#5{%
 \@begin@tempboxa\hbox{\ifmmode\if@RTL\beginR\fi#5\if@RTL\endR\fi\else\if@RTL\beginR\fi#5\if@
   \setlength\@tempdima{#1}%
   \setlength\@tempdimb{#2}%
   \Gscale@div\@tempa\@tempdima\@tempdimb
   \setlength\@tempdima{#3}%
   \setlength\@tempdimb{#4}%
   \Gscale@div\@tempb\@tempdima\@tempdimb
   \ifGin@iso
     \ifdim\@tempa\p@>\@tempb\p@
       \let\@tempa\@tempb
     \else
       \let\@tempb\@tempa
     \fi
   \fi
   \Gscale@box\@tempa[\@tempb]{\box\@tempboxa}%
 \@end@tempboxa}
```

7.68 geometry-xetex-bidi.def

```
\ProvidesFile{geometry-xetex-bidi.def}[2013/04/01 v0.1 bidi adaptations for geometry package for
\renewcommand*{\Gm@vrules@mpi}{%
\if@RTLmain%
        \hb@xt@\@tempdima{\hskip-\marginparwidth\hskip-\marginparsep
        \llap{\Gm@vrule}\ignorespaces
        \hskip \marginparwidth\rlap{\Gm@vrule}\hskip \marginparsep
        \llap{\Gm@vrule}\hskip\textwidth\rlap{\Gm@vrule}\hss}%
   \else%
  \hb@xt@\@tempdima{\llap{\Gm@vrule}\ignorespaces
  \hskip \textwidth\Gm@vrule\hskip \marginparsep
  \llap{\Gm@vrule}\hfil\Gm@vrule}\fi}%
\renewcommand*{\Gm@vrules@mpii}{%
\if@RTLmain%
  \hb@xt@\@tempdima{\llap{\Gm@vrule}\ignorespaces
  \hskip \textwidth\Gm@vrule\hskip \marginparsep
  \llap{\Gm@vrule}\hfil\Gm@vrule}%
\else%
  \hb@xt@\@tempdima{\hskip-\marginparwidth\hskip-\marginparsep
  \llap{\Gm@vrule}\ignorespaces
  \hskip \marginparwidth\rlap{\Gm@vrule}\hskip \marginparsep
  \llap{\Gm@vrule}\hskip\textwidth\rlap{\Gm@vrule}\hss}\fi}%

```

7.69 hvfloat-xetex-bidi.def

```
\ProvidesFile{hvfloat-xetex-bidi.def}[2012/04/18 v0.2 bidi adaptations for hvfloat package for X
\def\do@@hvFloat[#1]#2#3{%
\def\hv@shortCap{#1}
\def\hv@longCap{#2}
\def\hv@label{#3}
%\newcommand*{\hvFloat}[5][]{%
```

```
% [#1]: keyvalues
% #2: type  figure | table | ...
% #3: float contents
% [#4]: short caption
% #5: caption
% #6: label
% \setDefaults%
% \def\@tempa{#1}%
% \ifx\@tempa\empty\else\setkeys{hvSet}{#1}\fi% set options, only when not empty
  \def\@tempa{90}%
  \ifx\hvSet@rotAngle\@tempa \setlength{\hvMaxCapWidth}{\textheight}
  \else                      \setlength{\hvMaxCapWidth}{\linewidth}
  \fi
%
% First we save the object in \hvObjectBox
%
  \ifx\hvSet@objectAngle\hv@Zero % rotate the object?
   \savebox{\hvObjectBox}{\ifhv@useOBox\usebox{\hvOBox}\else\hv@floatObject\fi}
  \else
    \savebox{\hvObjectBox}{%
    \rotatebox{\hvSet@objectAngle}{%
    \ifhv@useOBox\usebox{\hvOBox}\else\hv@floatObject\fi}}
  \fi
  \setlength{\hvObjectWidth}{\wd\hvObjectBox}
%
% Now we save the caption with its defined \hvCapWidth
%
  \ifx\hvSet@capWidth\hv@Width\setlength{\hvCapWidth}{\hvObjectWidth}
  \else
   \ifx\hvSet@capWidth\hv@Height\setlength{\hvCapWidth}{\ht\hvObjectBox}
    \else
      \setlength{\hvCapWidth}{\hvObjectWidth}
    \ifx\hvSet@capPos\hv@Left\addtolength{\hvMaxCapWidth}{-\hvObjectWidth}\fi
    \ifx\hvSet@capPos\hv@Right\addtolength{\hvMaxCapWidth}{-\hvObjectWidth}\fi
      \ifdim\hvSet@capWidth\columnwidth<\hvMaxCapWidth
\setlength{\hvCapWidth}{\hvSet@capWidth\columnwidth}
      \else
\setlength{\hvCapWidth}{\hvMaxCapWidth}
      \fi
    \fi
  \fi
%
% now we have the object and the caption with the right
% rotated angles saved in boxes
%
  \def\fps@figure{\hvSet@floatPos}
  \ifhv@nonFloat\begingroup% Start the nonfloat part
  \else         \begin{\hv@floatType}% Start the floating environment
  \fi%
  \saveCaptionSkip% we put this space ourselve
```

```
  \ifx\hvSet@capAngle\hv@Width % need rotation?
    \sbox{\hvCaptionBox}{%
      \begin{minipage}[b]{\hvCapWidth}% minipage, to get hyphenation
        \ifhv@nonFloat%
  \ifhv@onlyText#2%
     \else%
    \ifx\hv@floatType\hv@figure
      \ifx\relax#1\relax \figcaption{#2}\else\figcaption[#1]{#2}\fi
    \else
      \ifx\relax#1\relax \tabcaption{#2}\else\tabcaption[#1]{#2}\fi%
    \fi
  \fi
\else\ifx\relax\hv@shortCap\relax\caption{#2}\else\caption[#1]{#2}\fi%
\fi%
\label{#3}%
      \end{minipage}%
    }%
  \else%
    \sbox{\hvCaptionBox}{%
      \rotatebox{\hvSet@capAngle}{%
      \begin{minipage}[b]{\hvCapWidth}% minipage, to get hyphenation
\ifhv@nonFloat%
     \ifhv@onlyText#2%
     \else%
    \ifx\hv@floatType\hv@figure
      \ifx\relax#1\relax \figcaption{#2}\else\figcaption[#1]{#2}\fi
    \else
      \ifx\relax#1\relax \tabcaption{#2}\else\tabcaption[#1]{#2}\fi%
    \fi
  \fi
\else\ifx\relax\hv@shortCap\relax\caption{#2}\else\caption[#1]{#2}\fi%
        \fi%
        \label{#3}%
      \end{minipage}%
      }%
    }%
  \fi%
%%
  \restoreCaptionSkip% save old values
  \ifx\hvSet@objectPos\hv@Right\bidi@raggedleft%
  \else%
    \ifx\hvSet@objectPos\hv@Center
      \ifhv@nonFloat\hspace*{\fill}\else\centering\fi%
    \fi%
  \fi%
%
% to rotate object and caption together, we save all in another box
% the caption comes first, if its on the left or the top
%
  \savebox{\@tempboxa}{%
```

```
  \ifx\hvSet@capPos\hv@Left  %  caption on left side
\if@RTL%
\ifx\hvSet@capVPos\hv@Center%
\ifhv@fbox
\fbox{\parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}}
\else
\parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}
\fi%
\hspace{\hvSet@floatCapSep pt}%
\ifhv@fbox
\fbox{\parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}}%
\else
\parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}
\fi%
\else%
\ifx\hvSet@capVPos\hv@Top
\ifhv@fbox
\fbox{\raisebox{-\height}{\usebox{\hvObjectBox}}}%
\else
\raisebox{-\height}{\usebox{\hvObjectBox}}%
\fi%
\hspace{\hvSet@floatCapSep pt}%
\ifhv@fbox
\fbox{\raisebox{-\height}{\usebox{\hvCaptionBox}}}%
\else
\raisebox{-\height}{\usebox{\hvCaptionBox}}%
\fi
\else
\ifhv@fbox
\fbox{\usebox{\hvObjectBox}}%
\else
\usebox{\hvObjectBox}%
\fi
\hspace{\hvSet@floatCapSep pt}%
\ifhv@fbox
\fbox{\usebox{\hvCaptionBox}}%
\else
\usebox{\hvCaptionBox}%
\fi%
\fi%
\fi%
\else% not RTL
    \ifx\hvSet@capVPos\hv@Center%
    \ifhv@fbox\fbox{\parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}}%
      \else     \parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}%
      \fi%
    \hspace{\hvSet@floatCapSep pt}% capfloatsep
    \ifhv@fbox\fbox{\parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}}
    \else     \parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}
    \fi%
```

```
  \else%
    \ifx\hvSet@capVPos\hv@Top % caption at top
      \ifhv@fbox\fbox{\raisebox{-\height}{\usebox{\hvCaptionBox}}}%
      \else     \raisebox{-\height}{\usebox{\hvCaptionBox}}%
      \fi
      \hspace{\hvSet@floatCapSep pt}% capfloatsep
      \ifhv@fbox\fbox{\raisebox{-\height}{\usebox{\hvObjectBox}}}%
      \else     \raisebox{-\height}{\usebox{\hvObjectBox}}%
      \fi%
    \else% caption on bottom
      \ifhv@fbox\fbox{\usebox{\hvCaptionBox}}
                \else\usebox{\hvCaptionBox}
      \fi%
      \hspace{\hvSet@floatCapSep pt}%
      \ifhv@fbox\fbox{\usebox{\hvObjectBox}}
      \else     \usebox{\hvObjectBox}
      \fi%
    \fi%
\fi% end of RTL
  \fi%
  \else
\ifx\hvSet@capPos\hv@Top
\ifdim\wd\hvCaptionBox>\wd\hvObjectBox
\begin{minipage}{\wd\hvCaptionBox}
\else
\begin{minipage}{\wd\hvObjectBox}
\fi
\centering
\ifhv@fbox
\fbox{\usebox{\hvCaptionBox}}\\[\hvBelowCaptionSkip]
\fbox{\usebox{\hvObjectBox}}
\else
\usebox{\hvCaptionBox}\\[\hvBelowCaptionSkip]
\usebox{\hvObjectBox}
\fi%
\end{minipage}
\else
\ifx\hvSet@capPos\hv@Bottom
\ifdim\wd\hvCaptionBox>\wd\hvObjectBox
\begin{minipage}{\wd\hvCaptionBox}
\else
\begin{minipage}{\wd\hvObjectBox}
\fi
\centering
\ifhv@fbox
\fbox{\usebox{\hvObjectBox}}\\[\hvAboveCaptionSkip]
\fbox{\usebox{\hvCaptionBox}}
\else
\usebox{\hvObjectBox}\\[\hvAboveCaptionSkip]
\usebox{\hvCaptionBox}
```

```
\fi%
\end{minipage}
\else% the last option: put the caption on the right
\if@RTL%
    \ifx\hvSet@capVPos\hv@Center%
    \ifhv@fbox\fbox{\parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}}%
      \else     \parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}%
      \fi%
    \hspace{\hvSet@floatCapSep pt}% capfloatsep
    \ifhv@fbox\fbox{\parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}}
    \else     \parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}
    \fi%
  \else%
    \ifx\hvSet@capVPos\hv@Top % caption at top
      \ifhv@fbox\fbox{\raisebox{-\height}{\usebox{\hvCaptionBox}}}%
      \else     \raisebox{-\height}{\usebox{\hvCaptionBox}}%
      \fi
      \hspace{\hvSet@floatCapSep pt}% capfloatsep
      \ifhv@fbox\fbox{\raisebox{-\height}{\usebox{\hvObjectBox}}}%
      \else     \raisebox{-\height}{\usebox{\hvObjectBox}}%
      \fi%
    \else% caption on bottom
      \ifhv@fbox\fbox{\usebox{\hvCaptionBox}}
                \else\usebox{\hvCaptionBox}
      \fi%
      \hspace{\hvSet@floatCapSep pt}%
      \ifhv@fbox\fbox{\usebox{\hvObjectBox}}
      \else     \usebox{\hvObjectBox}
      \fi%
    \fi%
  \fi%
\else% not RTL
\ifx\hvSet@capVPos\hv@Center%
\ifhv@fbox
\fbox{\parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}}
\else
\parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}
\fi%
\hspace{\hvSet@floatCapSep pt}%
\ifhv@fbox
\fbox{\parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}}%
\else
\parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}
\fi%
\else%
\ifx\hvSet@capVPos\hv@Top
\ifhv@fbox
\fbox{\raisebox{-\height}{\usebox{\hvObjectBox}}}%
\else
\raisebox{-\height}{\usebox{\hvObjectBox}}%
```

```
\fi%
\hspace{\hvSet@floatCapSep pt}%
\ifhv@fbox
\fbox{\raisebox{-\height}{\usebox{\hvCaptionBox}}}%
\else
\raisebox{-\height}{\usebox{\hvCaptionBox}}%
\fi
\else
\ifhv@fbox
\fbox{\usebox{\hvObjectBox}}%
\else
\usebox{\hvObjectBox}%
\fi
\hspace{\hvSet@floatCapSep pt}%
\ifhv@fbox
\fbox{\usebox{\hvCaptionBox}}%
\else
\usebox{\hvCaptionBox}%
\fi%
\fi%
\fi
\fi% end of RTL
\fi
\fi
\fi
}% End savebox Object and caption
%
% now we rotate the object and caption, if needed
%
\ifx\hvSet@rotAngle\hv@Zero
\usebox{\@tempboxa}
\else
\rotatebox{\hvSet@rotAngle}{\usebox{\@tempboxa}}
\fi
\ifhv@nonFloat
\ifx\hvSet@objectPos\hv@Center
\ifhv@nonFloat
\hspace{\fill}
\fi
\fi
\endgroup% End the nonfloat part
\else
\end{\hv@floatType}% End the floating environment
\fi
}
```

7.70 hyperref-xetex-bidi.def

```
\ProvidesFile{hyperref-xetex-bidi.def}[2015/11/26 v0.9 bidi adaptations for hyperref package for
\AtBeginDocument{%
```

```
\def\contentsline#1#2#3#4{%
  \ifx\\#4\\%
    \csname l@#1\endcsname{#2}{#3}%
  \else
    \ifcase\Hy@linktoc % none
      \csname l@#1\endcsname{#2}{#3}%
    \or % section
      \csname l@#1\endcsname{%
     \hyper@linkstart{link}{#4}{\if@RTL\beginR\fi#2\if@RTL\endR\fi}\hyper@linkend
      }{#3}%
    \or % page
      \csname l@#1\endcsname{{#2}}{%
        \hyper@linkstart{link}{#4}{#3}\hyper@linkend
      }%
    \else % all
      \csname l@#1\endcsname{%
     \hyper@linkstart{link}{#4}{\if@RTL\beginR\fi#2\if@RTL\endR\fi}\hyper@linkend
      }{%
        \hyper@linkstart{link}{#4}{#3}\hyper@linkend
      }%
    \fi
  \fi
}
\ifHy@hyperfootnotes
   \let\H@@footnotetext\@footnotetext
   \let\HRTL@@RTLfootnotetext\@RTLfootnotetext
   \let\HLTR@@LTRfootnotetext\@LTRfootnotetext
    \def\@xfootnotenext[#1]{%
    \begingroup
      \csname c@\@mpfn\endcsname #1\relax
      \unrestored@protected@xdef\@thefnmark{\thempfn}%
    \endgroup
    \ifx\@footnotetext\@mpfootnotetext
      \expandafter\H@@mpfootnotetext
    \else
      \expandafter\H@@footnotetext
    \fi
  }%
    \def\@xRTLfootnotenext[#1]{%
    \begingroup
      \csname c@\@mpfn\endcsname #1\relax
      \unrestored@protected@xdef\@thefnmark{\thempfn}%
    \endgroup
    \ifx\@RTLfootnotetext\@mpRTLfootnotetext
      \expandafter\HRTL@@mpRTLfootnotetext
    \else
      \expandafter\HRTL@@RTLfootnotetext
    \fi
  }%
    \def\@xLTRfootnotenext[#1]{%
```

```
    \begingroup
      \csname c@\@mpfn\endcsname #1\relax
      \unrestored@protected@xdef\@thefnmark{\thempfn}%
    \endgroup
    \ifx\@LTRfootnotetext\@mpLTRfootnotetext
      \expandafter\HLTR@@mpLTRfootnotetext
    \else
      \expandafter\HLTR@@LTRfootnotetext
    \fi
  }%
    \def\@xfootnotemark[#1]{%
    \begingroup
      \c@footnote #1\relax
      \unrestored@protected@xdef\@thefnmark{\thefootnote}%
    \endgroup
    \H@@footnotemark
  }%
  \let\H@@mpfootnotetext\@mpfootnotetext
  \let\HRTL@@mpRTLfootnotetext\@mpRTLfootnotetext
  \let\HLTR@@mpLTRfootnotetext\@mpLTRfootnotetext
    \long\def\@mpfootnotetext#1{%
    \H@@mpfootnotetext{%
      \ifHy@nesting
        \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
      \else
        \Hy@raisedlink{%
          \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
        }#1%
      \fi
    }%
  }%
  \long\def\@mpRTLfootnotetext#1{%
    \HRTL@@mpRTLfootnotetext{%
      \ifHy@nesting
        \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
      \else
        \Hy@raisedlink{%
          \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
        }#1%
      \fi
    }%
  }%
    \long\def\@mpLTRfootnotetext#1{%
    \HLTR@@mpLTRfootnotetext{%
      \ifHy@nesting
        \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
      \else
        \Hy@raisedlink{%
          \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
        }#1%
```

```
    \fi
  }%
}%
  \long\def\@footnotetext#1{%
  \H@@footnotetext{%
    \ifHy@nesting
      \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
    \else
      \Hy@raisedlink{%
        \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
      }%
      \let\@currentHlabel\Hy@footnote@currentHlabel
      \let\@currentHref\Hy@footnote@currentHref
      \let\@currentlabelname\@empty
      #1%
    \fi
  }%
}%
  \long\def\@RTLfootnotetext#1{%
  \HRTL@@RTLfootnotetext{%
    \ifHy@nesting
      \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
    \else
      \Hy@raisedlink{%
        \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
      }%
      \let\@currentHlabel\Hy@footnote@currentHlabel
      \let\@currentHref\Hy@footnote@currentHref
      \let\@currentlabelname\@empty
      #1%
    \fi
  }%
}%
  \long\def\@LTRfootnotetext#1{%
  \HLTR@@LTRfootnotetext{%
    \ifHy@nesting
      \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
    \else
      \Hy@raisedlink{%
        \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
      }%
      \let\@currentHlabel\Hy@footnote@currentHlabel
      \let\@currentHref\Hy@footnote@currentHref
      \let\@currentlabelname\@empty
      #1%
    \fi
  }%
}%
  \@ifpackageloaded{tabularx}{%
  \let\HyOrg@TX@endtabularx\TX@endtabularx
```

```
    \def\Hy@tabularx@hook{%
      \let\@footnotetext\H@@footnotetext
      \let\@LTRfootnotetext\HLTR@@LTRfootnotetext
      \let\@RTLfootnotetext\HRTL@@RTLfootnotetext
      \let\@footnotemark\H@@footnotemark
      \let\@mpfootnotetext\H@@mpfootnotetext
      \let\@mpLTRfootnotetext\HLTR@@mpLTRfootnotetext
      \let\@mpRTLfootnotetext\HRTL@@mpRTLfootnotetext
    }%
    \begingroup
      \toks@\expandafter{\TX@endtabularx}%
      \xdef\Hy@gtemp{%
        \noexpand\Hy@tabularx@hook
        \the\toks@
      }%
    \endgroup
    \let\TX@endtabularx\Hy@gtemp
  }{}%
    \@ifpackageloaded{longtable}{%
    \CheckCommand*{\LT@p@LTRftntext}[1]{%
      \edef\@tempa{%
        \the\LT@p@ftn
        \noexpand\LTRfootnotetext[\the\c@footnote]%
      }%
      \global\LT@p@ftn\expandafter{\@tempa{#1}}%
    }%
    \long\def\LT@p@LTRftntext#1{%
      \edef\@tempa{%
        \the\LT@p@ftn
        \begingroup
          \noexpand\c@footnote=\the\c@footnote\relax
          \noexpand\protected@xdef\noexpand\@thefnmark{%
            \noexpand\thempfn
          }%
          \noexpand\Hy@LT@LTRfootnotetext{%
            \Hy@footnote@currentHref
          }%
      }%
      \global\LT@p@ftn\expandafter{%
          \@tempa{#1}%
        \endgroup
      }%
    }%
    \long\def\Hy@LT@LTRfootnotetext#1#2{%
     \HLTR@@LTRfootnotetext{%
        \ifHy@nesting
          \hyper@@anchor{#1}{#2}%
        \else
          \Hy@raisedlink{%
            \hyper@@anchor{#1}{\relax}%
```

```
        }%
        \def\@currentHref{#1}%
        \let\@currentlabelname\@empty
        #2%
      \fi
    }%
  }%
  \CheckCommand*{\LT@p@RTLftntext}[1]{%
    \edef\@tempa{%
      \the\LT@p@ftn
      \noexpand\RTLfootnotetext[\the\c@footnote]%
    }%
    \global\LT@p@ftn\expandafter{\@tempa{#1}}%
  }%
  \long\def\LT@p@RTLftntext#1{%
    \edef\@tempa{%
      \the\LT@p@ftn
      \begingroup
        \noexpand\c@footnote=\the\c@footnote\relax
        \noexpand\protected@xdef\noexpand\@thefnmark{%
          \noexpand\thempfn
        }%
        \noexpand\Hy@LT@RTLfootnotetext{%
          \Hy@footnote@currentHref
        }%
    }%
    \global\LT@p@ftn\expandafter{%
        \@tempa{#1}%
      \endgroup
    }%
  }%
  \long\def\Hy@LT@RTLfootnotetext#1#2{%
   \HRTL@@RTLfootnotetext{%
      \ifHy@nesting
        \hyper@@anchor{#1}{#2}%
      \else
        \Hy@raisedlink{%
          \hyper@@anchor{#1}{\relax}%
        }%
        \def\@currentHref{#1}%
        \let\@currentlabelname\@empty
        #2%
      \fi
    }%
  }%
}{}%
  \@ifpackageloaded{bidipoem}{%
  \long\def\bidipoem@p@ftntext#1{%
    \edef\@tempx{%
      \the\bidipoem@p@ftn
```

```
      \begingroup
     \noexpand\csname c@\@mpfn\endcsname=\the\csname c@\@mpfn\endcsname\relax
        \noexpand\protected@xdef\noexpand\@thefnmark{%
          \noexpand\thempfn
        }%
        \noexpand\Hy@bidipoem@footnotetext{%
          \Hy@footnote@currentHref
        }%
    }%
    \global\bidipoem@p@ftn\expandafter{%
        \@tempx{#1}%
      \endgroup
    }%
  }%
  \long\def\Hy@bidipoem@footnotetext#1#2{%
    \H@@footnotetext{%
      \ifHy@nesting
        \hyper@@anchor{#1}{#2}%
      \else
        \Hy@raisedlink{%
          \hyper@@anchor{#1}{\relax}%
        }%
        \def\@currentHref{#1}%
        \let\@currentlabelname\@empty
        #2%
      \fi
    }%
  }%
      \long\def\bidipoem@p@LTRftntext#1{%
    \edef\@tempxi{%
      \the\bidipoem@p@ftn
      \begingroup
     \noexpand\csname c@\@mpfn\endcsname=\the\csname c@\@mpfn\endcsname\relax
        \noexpand\protected@xdef\noexpand\@thefnmark{%
          \noexpand\thempfn
        }%
        \noexpand\Hy@bidipoem@LTRfootnotetext{%
          \Hy@footnote@currentHref
        }%
    }%
    \global\bidipoem@p@ftn\expandafter{%
        \@tempxi{#1}%
      \endgroup
    }%
  }%
  \long\def\Hy@bidipoem@LTRfootnotetext#1#2{%
    \HLTR@@LTRfootnotetext{%
      \ifHy@nesting
        \hyper@@anchor{#1}{#2}%
      \else
```

```
          \Hy@raisedlink{%
            \hyper@@anchor{#1}{\relax}%
          }%
          \def\@currentHref{#1}%
          \let\@currentlabelname\@empty
          #2%
        \fi
      }%
    }%
        \long\def\bidipoem@p@RTLftntext#1{%
      \edef\@tempxii{%
        \the\bidipoem@p@ftn
        \begingroup
       \noexpand\csname c@\@mpfn\endcsname=\the\csname c@\@mpfn\endcsname\relax
          \noexpand\protected@xdef\noexpand\@thefnmark{%
            \noexpand\thempfn
          }%
          \noexpand\Hy@bidipoem@RTLfootnotetext{%
            \Hy@footnote@currentHref
          }%
      }%
      \global\bidipoem@p@ftn\expandafter{%
          \@tempxii{#1}%
        \endgroup
      }%
    }%
    \long\def\Hy@bidipoem@RTLfootnotetext#1#2{%
      \HRTL@@RTLfootnotetext{%
        \ifHy@nesting
          \hyper@@anchor{#1}{#2}%
        \else
          \Hy@raisedlink{%
            \hyper@@anchor{#1}{\relax}%
          }%
          \def\@currentHref{#1}%
          \let\@currentlabelname\@empty
          #2%
        \fi
      }%
    }%
  }{}%
  \let\HyOrg@maketitle\maketitle
  \def\maketitle{%
    \let\Hy@saved@footnotemark\@footnotemark
    \let\Hy@saved@footnotetext\@footnotetext
    \let\HyRTL@saved@RTLfootnotetext\@RTLfootnotetext
    \let\HyLTR@saved@LTRfootnotetext\@LTRfootnotetext
    \let\@footnotemark\H@@footnotemark
    \let\@footnotetext\H@@footnotetext
    \let\@RTLfootnotetext\HRTL@@RTLfootnotetext
```

```
    \let\@LTRfootnotetext\HLTR@@LTRfootnotetext
    \@ifnextchar[\Hy@maketitle@optarg{% ]
      \HyOrg@maketitle
      \Hy@maketitle@end
    }%
  }%
  \def\Hy@maketitle@optarg[#1]{%
    \HyOrg@maketitle[{#1}]%
    \Hy@maketitle@end
  }%
  \def\Hy@maketitle@end{%
    \ifx\@footnotemark\H@@footnotemark
      \let\@footnotemark\Hy@saved@footnotemark
    \fi
    \ifx\@footnotetext\H@@footnotetext
      \let\@footnotetext\Hy@saved@footnotetext
    \fi
    \ifx\@RTLfootnotetext\HRTL@@RTLfootnotetext
      \let\@RTLfootnotetext\HyRTL@saved@RTLfootnotetext
    \fi
    \ifx\@LTRfootnotetext\HLTR@@LTRfootnotetext
      \let\@LTRfootnotetext\HyLTR@saved@LTRfootnotetext
    \fi
  }%
  \def\realfootnote{%
    \@ifnextchar[\@xfootnote{%
      \stepcounter{\@mpfn}%
      \protected@xdef\@thefnmark{\thempfn}%
      \H@@footnotemark\H@@footnotetext
    }%
  }%
\fi
\def\Hy@BeginAnnot#1{%
  \ifmmode\else\beginL\fi%
  \stepcounter{Hy@AnnotLevel}%
  \ifnum\value{Hy@AnnotLevel}=\@ne
    #1%
  \fi
}
\def\Hy@EndAnnot{%
  \ifnum\value{Hy@AnnotLevel}=\@ne
    \Hy@endcolorlink
    \@pdfm@mark{eann}%
  \fi
  \addtocounter{Hy@AnnotLevel}\m@ne
  \ifmmode\else\endL\fi%
}
\def\hyper@link#1#2#3{%
  \hyper@linkstart{#1}{#2}\ifmmode\else\if@RTL\beginR\fi\fi#3\ifmmode\else\if@RTL\endR\fi\fi\H
}
```

```
\def\hyper@linkfile#1#2#3{%
  \leavevmode
  \Hy@BeginAnnot{%
    \def\Hy@pstringF{#2}%
    \Hy@CleanupFile\Hy@pstringF
    \Hy@pstringdef\Hy@pstringF\Hy@pstringF
    \Hy@pstringdef\Hy@pstringD{#3}%
    \Hy@MakeRemoteAction
    \@pdfm@mark{%
      bann<<%
        /Type/Annot%
        /Subtype/Link%
        \ifHy@pdfa /F 4\fi
        \Hy@setpdfborder
        \ifx\@filebordercolor\relax
        \else
          /C[\@filebordercolor]%
        \fi
        /A<<%
          /S/GoToR%
          /F(\Hy@pstringF)%
          /D%
          \ifx\\#3\\%
            [\Hy@href@page\@pdfremotestartview]%
          \else
            (\Hy@pstringD)%
          \fi
          \Hy@SetNewWindow
          \Hy@href@nextactionraw
        >>%
      >>%
    }%
    \Hy@colorlink\@filecolor
  }%
  \ifmmode\else\if@RTL\beginR\fi\fi#1\ifmmode\else\if@RTL\endR\fi\fi\Hy@xspace@end
  \Hy@EndAnnot
}
\def\@hyper@launch run:#1\\#2#3{% filename, anchor text linkname
  \leavevmode
  \Hy@BeginAnnot{%
    \Hy@pstringdef\Hy@pstringF{#1}%
    \Hy@pstringdef\Hy@pstringP{#3}%
    \@pdfm@mark{%
      bann<<%
        /Type/Annot%
        /Subtype/Link%
        \ifHy@pdfa /F 4\fi
        \Hy@setpdfborder
        \ifx\@runbordercolor\relax
        \else
```

```
          /C[\@runbordercolor]%
        \fi
        /A<<%
          /F(\Hy@pstringF)%
          /S/Launch%
          \Hy@SetNewWindow
          \ifx\\#3\\%
          \else
            /Win<</P(\Hy@pstringP)/F(\Hy@pstringF)>>%
          \fi
          \Hy@href@nextactionraw
        >>%
      >>%
    }%
    \Hy@colorlink\@runcolor
  }%
  \ifmmode\else\if@RTL\beginR\fi\fi#2\ifmmode\else\if@RTL\endR\fi\fi\Hy@xspace@end
  \Hy@EndAnnot
}
\def\hyper@linkurl#1#2{%
  \leavevmode
  \Hy@BeginAnnot{%
    \Hy@pstringdef\Hy@pstringURI{#2}%
    \@pdfm@mark{%
      bann<<%
        /Type/Annot%
        /Subtype/Link%
        \ifHy@pdfa /F 4\fi
        \Hy@setpdfborder
        \ifx\@urlbordercolor\relax
        \else
          /C[\@urlbordercolor]%
        \fi
        /A<<%
          /S/URI%
          /URI(\Hy@pstringURI)%
          \ifHy@href@ismap
            /IsMap true%
          \fi
          \Hy@href@nextactionraw
        >>%
      >>%
    }%
    \Hy@colorlink\@urlcolor
  }%
  \ifmmode\else\if@RTL\beginR\fi\fi#1\ifmmode\else\if@RTL\endR\fi\fi\Hy@xspace@end
  \Hy@EndAnnot
}
\def\Acrobatmenu#1#2{%
  \Hy@Acrobatmenu{#1}{#2}{%
```

```
    \Hy@BeginAnnot{%
      \EdefEscapeName\Hy@temp@menu{#1}%
      \@pdfm@mark{%
        bann<<%
          /Type/Annot%
          /Subtype/Link%
          \ifHy@pdfa /F 4\fi
          \Hy@setpdfborder
          \ifx\@menubordercolor\relax
          \else
            /C[\@menubordercolor]%
          \fi
          /A<<%
            /S/Named%
            /N/\Hy@temp@menu
            \Hy@href@nextactionraw
          >>%
        >>%
      }%
      \Hy@colorlink\@menucolor
    }%
   \ifmmode\else\if@RTL\beginR\fi\fi#2\ifmmode\else\if@RTL\endR\fi\fi\Hy@xspace@end
    \Hy@EndAnnot
  }%
}
\def\hyper@natlinkstart#1{%
  \Hy@backout{#1}%
  \hyper@linkstart{cite}{cite.#1}\if@RTL\beginR\fi%
  \def\hyper@nat@current{#1}%
}
\def\hyper@natlinkend{%
  \if@RTL\endR\fi\hyper@linkend
}
\def\hyper@natlinkbreak#1#2{%
  \if@RTL\endR\fi\hyper@linkend#1\hyper@linkstart{cite}{cite.#2}\if@RTL\beginR\fi%
}%
}
\pdfstringdefDisableCommands{%
\let\LRE\@firstofone
\let\LR\@firstofone
\let\RLE\@firstofone
\let\RL\@firstofone
\def\XeTeX{Xe\TeX}
\def\XeLaTeX{Xe\LaTeX}
}
\@ifpackageloaded{longtable}{%
  \begingroup
    \def\y{\LT@array}%
    \@ifundefined{scr@LT@array}{%
      \@ifundefined{adl@LT@array}{}{\def\y{\adl@LT@array}}%
```

```
    }{\def\y{\scr@LT@array}}%
    \long\def\x\refstepcounter#1#2\@sharp#3#4\@nil{%
      \expandafter\endgroup
      \expandafter\def\y[##1]##2{%
        \H@refstepcounter{#1}%
        \hyper@makecurrent{table}%
        \let\Hy@LT@currentHref\@currentHref
        #2\@sharp#####4%
      }%
    }%
  \expandafter\expandafter\expandafter\x\y[{#1}]{#2}\@nil
  \begingroup
    \def\x#1\ifvoid\LT@foot#2\fi#3\@nil{%
      \endgroup
      \def\LT@start{%
        #1%
        \ifvoid\LT@foot#2\fi
        \let\@currentHref\Hy@LT@currentHref
        \Hy@raisedlink{%
          \hyper@anchorstart{\@currentHref}\hyper@anchorend
        }%
        #3%
      }%
    }%
  \expandafter\x\LT@start\@nil
}{}
```

7.71 leqno-xetex-bidi.def

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

7.72 letter-xetex-bidi.def

```
\ProvidesFile{letter-xetex-bidi.def}[2015/11/14 v0.3 bidi adaptations for standard letter class
\renewcommand*{\opening}[1]{\ifx\@empty\fromaddress
  \thispagestyle{firstpage}%
    {\if@RTL\raggedright\else\raggedleft\fi\@date\par}%
  \else  % home address
    \thispagestyle{empty}%
   {\if@RTL\raggedright\else\raggedleft\fi\if@RTL\begin{tabular}{r@{}}\else\begin{tabular}{l@{
      \fromaddress \\*[2\parskip]%
      \@date \end{tabular}\par}%
  \fi
  \vspace{2\parskip}%
  {\if@RTL\raggedleft\else\raggedright\fi \toname \\ \toaddress \par}%
  \vspace{2\parskip}%
  #1\par\nobreak}
\renewcommand\left@footnoterule{%
```

```
  \kern-\p@
  \hrule \@width .4\columnwidth
  \kern .6\p@}
\renewcommand\right@footnoterule{%
  \kern-\p@
  \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
  \kern .6\p@}
```

7.73 lettrine-xetex-bidi.def

```
\ProvidesFile{lettrine-xetex-bidi.def}[2015/02/17 v0.5 bidi adaptations for lettrine package for
\def\@lettrine[#1]#2#3{%
  \setcounter{L@lines}{\theDefaultLines}%
  \setcounter{L@depth}{\theDefaultDepth}%
  \renewcommand*{\L@hang}{\DefaultLhang}%
  \renewcommand*{\L@oversize}{\DefaultLoversize}%
  \renewcommand*{\L@raise}{\DefaultLraise}%
  \renewcommand*{\L@ante}{}%
  \setlength{\L@Findent}{\DefaultFindent}%
  \setlength{\L@Nindent}{\DefaultNindent}%
  \setlength{\L@slope}{\DefaultSlope}%
  \setlength{\L@novskip}{\DiscardVskip}%
  \ifLettrineImage\L@imagetrue\else\L@imagefalse\fi
  \ifLettrineOnGrid\L@gridtrue\else\L@gridfalse\fi
  \if\DefaultOptionsFile\relax
  \else
    \begingroup
    \InputIfFileExists{\DefaultOptionsFile}%
      {}%
      {\PackageWarning{lettrine.sty}%
         {File \DefaultOptionsFile\space not found}%
      }%
    \def\color##1##{\l@color{##1}}%
    \let\l@color\@gobbletwo
    \def\textcolor##1##{\l@textcolor{##1}}%
    \def\l@textcolor##1##2##3{##3}%
    \expandafter\ifx\csname l@#2-keys\endcsname\relax
                  \gdef\l@LOKeys{}%
                \else
                  \xdef\l@LOKeys{\csname l@#2-keys\endcsname}%
                \fi
    \endgroup
    \def\KV@prefix{KV@L@}%
    \let\@tempc\relax
    \expandafter\KV@do\l@LOKeys,\relax,
    \sbox{\L@lbox}{\LettrineFont #2}%
    \setlength{\LettrineWidth}{\wd\L@lbox}%
    \def\KV@prefix{KV@L@}%
    \let\@tempc\relax
    \expandafter\KV@do\l@LOKeys,\relax,
```

```
\fi
\setkeys{L}{#1}%
\ifL@image
   \sbox{\L@lbox}{\LettrineFontEPS{#2}}%
\else
   \sbox{\L@lbox}{\LettrineFont #2}%
\fi
\sbox{\L@tbox}{\LettrineTextFont{#3}}%
 \@tempdima=\baselineskip
 \ifnum\theL@lines=1
   \setlength{\L@first}{\ht\L@lbox}%
   \addtolength{\L@first}{-\ht\L@tbox}%
   \setlength{\L@lraise}{\z@}%
 \else
   \setlength{\L@first}{-\theL@lines\@tempdima}%
   \addtolength{\L@first}{\@tempdima}%
   \sbox{\@tempboxa}{\LettrineTextFont x}%
   \addtolength{\L@first}{-\ht\@tempboxa}%
   \setlength{\L@lraise}{-\L@raise\L@first}%
   \addtolength{\L@first}{\L@lraise}%
   \addtolength{\L@first}{\ht\L@lbox}%
   \addtolength{\L@lraise}{-\theL@lines\@tempdima}%
   \addtolength{\L@lraise}{\@tempdima}%
 \fi
 \par
 \ifdim\L@first>\L@novskip
   \ifL@grid
     \@tempdima=\baselineskip
     \@tempdimb=\@tempdima
     \advance\@tempdimb by \L@novskip
     \@tempcnta=1
     \loop\ifdim\L@first>\@tempdimb
       \advance\@tempcnta by 1
       \advance\L@first by -\@tempdima
     \repeat
     \vskip\@tempcnta\baselineskip
   \else
     \vskip\L@first
   \fi
 \fi
\setlength{\L@Pindent}{\wd\L@lbox}%
\addtolength{\L@Pindent}{-\L@hang\wd\L@lbox}%
\settowidth{\L@first}{\L@ante}%
\addtolength{\L@Pindent}{\L@first}%
\addtolength{\L@Pindent}{\L@Findent}%
\setlength{\L@first}{\linewidth}%
\addtolength{\L@first}{-\L@Pindent}%
\addtolength{\L@Nindent}{\L@Pindent}%
\setlength{\L@next}{\linewidth}%
\addtolength{\L@next}{-\L@Nindent}%
```

```
  \addtolength{\L@Pindent}{\rightmargin}%
  \addtolength{\L@Nindent}{\rightmargin}%
  \setlength{\LettrineWidth}{\wd\L@lbox}%
  \setlength{\LettrineHeight}{\ht\L@lbox}%
  \setlength{\LettrineDepth}{\dp\L@lbox}%
  \addtocounter{L@lines}{1}%
  \addtocounter{L@lines}{\the\c@L@depth}%
 \if@RTL\def\L@parshape{\c@L@lines 0pt \the\L@first}\else\def\L@parshape{\c@L@lines \the\L@Pin
  \@tempcnta=\tw@
  \@whilenum \@tempcnta<\c@L@lines\do{%
   \if@RTL\edef\L@parshape{\L@parshape 0pt \the\L@next}\else\edef\L@parshape{\L@parshape \the\
     \addtolength{\L@Nindent}{\L@slope}%
     \addtolength{\L@next}{-\L@slope}%
     \advance\@tempcnta\@ne}%
 \if@RTL \edef\L@parshape{\L@parshape 0pt \the\linewidth}\else\edef\L@parshape{\L@parshape \ri
  \noindent
  \parshape=\L@parshape\relax
  \smash{\llap{\mbox{\L@ante}\raisebox{\L@lraise}{\usebox{\L@lbox}}%
          \hskip \the\L@Findent}}%
  \usebox{\L@tbox}%
}
```

7.74 listings-xetex-bidi.def

```
\ProvidesFile{listings-xetex-bidi.def}[2015/08/23 v0.9 bidi adaptations for listings package for
\lst@Key{captiondirection}{textdirection}{%
    \lstKV@SwitchCases{#1}%
    {textdirection&\\%
     RTL&\chardef\bidi@lst@caption@direction\@ne\\%
     LTR&\chardef\bidi@lst@caption@direction\z@%
    }{\PackageError{Listings}{direction #1 unknown}\@ehc}}
\newcommand*{\bidi@lst@ensure@caption@direction}[2]{%
   \@ifundefined{bidi@lst@caption@direction}{}{%
    \ifnum\bidi@lst@caption@direction=\z@%
        #1%
    \else%
         \ifnum\bidi@lst@caption@direction=\@ne%
             #2%
         \fi%
     \fi%
}}
\long\def\@bidi@lst@makecaption#1#2{%
   \vskip\abovecaptionskip
   \bidi@lst@ensure@caption@direction{\@RTLfalse}{\@RTLtrue}%
   \sbox\@tempboxa{%
   \bidi@lst@ensure@caption@direction{\beginL}{\beginR}%
   #1: #2%
   \bidi@lst@ensure@caption@direction{\endL}{\endR}%
   }%
   \ifdim \wd\@tempboxa >\hsize
```

```
      #1: #2\par
    \else
      \global \@minipagefalse
      \hb@xt@\hsize{\hfil\box\@tempboxa\hfil}%
    \fi
    \vskip\belowcaptionskip}%
\def\lst@makecaption{\@bidi@lst@makecaption}
\def\lst@maketitle{\@bidi@lst@makecaption\lst@title@dropdelim}
\bidi@patchcmd{\lst@MakeCaption}{%
     \ifx #1t%
         \ifx\lst@@caption\@empty\expandafter\lst@HRefStepCounter \else
                                  \expandafter\refstepcounter
         \fi {lstlisting}%
}{%
     \ifx #1t%
        \bidi@lst@ensure@caption@direction{\@RTLfalse}{\@RTLtrue}%
         \ifx\lst@@caption\@empty\expandafter\lst@HRefStepCounter \else
                                  \expandafter\refstepcounter
         \fi {lstlisting}%
         \bidi@lst@ensure@caption@direction{\@RTLfalse}{\@RTLfalse}%
}{}{}
\bidi@patchcmd{\lst@MakeCaption}{%
                 \addcontentsline{lol}{lstlisting}%
                     {\protect\numberline{\thelstlisting}\lst@@caption}%
}{%
\begingroup%
              \bidi@lst@ensure@caption@direction{\@RTLfalse}{\@RTLtrue}%
                 \addcontentsline{lol}{lstlisting}%
                     {\protect\numberline{\thelstlisting}\lst@@caption}%
\endgroup%
}{}{}
\AtBeginDocument{%
\@ifundefined{captionlabelfalse}{}{%
  \def\lst@maketitle{\captionlabelfalse\@bidi@lst@makecaption\@empty}}%
\@ifundefined{caption@startrue}{}{%
  \def\lst@maketitle{\caption@startrue\@bidi@lst@makecaption\@empty}}%
}
\AtBeginDocument{
  \@ifundefined{thechapter}{\let\lst@ifnumberbychapter\iffalse}{}
  \lst@ifnumberbychapter
      \gdef\thelstlisting%
       {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@lstlisting}
  \else
      \gdef\thelstlisting{\@arabic\c@lstlisting}
  \fi}
```

7.75 loadingorder-xetex-bidi.def

```
\ProvidesFile{loadingorder-xetex-bidi.def}[2015/10/16 v0.96 making sure that bidi is the last pa
\bidi@isloaded{amsmath}
```

```
\bidi@isloaded{amstext}
\bidi@isloaded{amsthm}
\bidi@isloaded{animate}
\bidi@isloaded{breqn}
\bidi@isloaded{cals}
\bidi@isloaded{caption}
\bidi@isloaded{crop}
\bidi@isloaded{cuted}
\bidi@isloaded{cutwin}
\bidi@isloaded{color}
\bidi@isloaded{dblfnote}
\bidi@isloaded{xcolor}
\bidi@isloaded{colortbl}
\bidi@isloaded{float}
\bidi@isloaded{floatrow}
\bidi@isloaded{flowfram}
\bidi@isloaded{framed}
\bidi@isloaded{ftnright}
\bidi@isloaded{xltxtra}
\bidi@isloaded{xunicode}
\bidi@isloaded{wrapfig}
\bidi@isloaded{graphicx}
\bidi@isloaded{geometry}
\bidi@isloaded{hvfloat}
\bidi@isloaded{mdframed}
\bidi@isloaded{midfloat}
\bidi@isloaded{ntheorem}
\bidi@isloaded{ntheorem-hyper}
\bidi@isloaded{hyperref}
\bidi@isloaded{fancybox}
\bidi@isloaded{fancyhdr}
\bidi@isloaded{fix2col}
\bidi@isloaded{draftwatermark}
\bidi@isloaded{empheq}
\bidi@isloaded{overpic}
\bidi@isloaded{pdfpages}
\bidi@isloaded{listings}
\bidi@isloaded{lettrine}
\bidi@isloaded{media9}
\bidi@isloaded{pstricks}
\bidi@isloaded{pgf}
\bidi@isloaded{picinpar}
\bidi@isloaded{quotchap}
\bidi@isloaded{tikz}
\bidi@isloaded{titlesec}
\bidi@isloaded{titletoc}
\bidi@isloaded{array}
\bidi@isloaded{soul}
\bidi@isloaded{stabular}
\bidi@isloaded{subfig}
```

```
\bidi@isloaded{subfigure}
\bidi@isloaded{supertabular}
\bidi@isloaded{xtab}
\bidi@isloaded{longtable}
\bidi@isloaded{arydshln}
\bidi@isloaded{multicol}
\bidi@isloaded{multienum}
\bidi@isloaded{minitoc}
\bidi@isloaded{natbib}
\bidi@isloaded{newfloat}
\bidi@isloaded{ragged2e}
\bidi@isloaded{rotating}
\bidi@isloaded{tabls}
\bidi@isloaded{tabulary}
\bidi@isloaded{tocstyle}
\bidi@isloaded{tocbibind}
\bidi@isloaded{fontspec}
\bidi@isloaded{arabxetex}
\bidi@isloaded{polyglossia}
\bidi@isloaded{fancyvrb}
\AtBeginDocument{
  \if@bidi@amsmathloaded@\else
   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package amsmath after bidi package. P
  \fi%
    \if@bidi@amstextloaded@\else
   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package amstext after bidi package. P
  \fi%
  \if@bidi@amsthmloaded@\else
   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package amsthm after bidi package. Pl
  \fi%
  \if@bidi@animateloaded@\else
   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package animate after bidi package. P
  \fi%
  \if@bidi@breqnloaded@\else
   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package breqn after bidi package. Ple
  \fi%
    \if@bidi@calsloaded@\else
   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package cals after bidi package. Plea
  \fi%
  \if@bidi@captionloaded@\else
   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package caption after bidi package. P
  \fi%
  \if@bidi@croploaded@\else
   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package crop after bidi package. Plea
  \fi%
  \if@bidi@colorloaded@\else
  \@ifpackageloaded{hyperref}{}{%
   \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package color after bidi package. Ple
  \fi%
  \if@bidi@cutwinloaded@\else
```

```
 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package cutwin after bidi package. Pl
\fi%
  \if@bidi@cutedloaded@\else
 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package cuted after bidi package. Ple
\fi%
\if@bidi@dblfnoteloaded@\else
 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package dblfnote after bidi package.
\fi%
\if@bidi@xcolorloaded@\else
 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package xcolor after bidi package. Pl
\fi%
\if@bidi@colortblloaded@\else
 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package colortbl after bidi package.
\fi%
\if@bidi@floatloaded@\else
 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package float after bidi package. Ple
\fi%
  \if@bidi@floatrowloaded@\else
 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package floatrow after bidi package.
\fi%
\if@bidi@flowframloaded@\else
 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package flowfram after bidi package.
\fi%
\if@bidi@framedloaded@\else
 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package framed after bidi package. Pl
\fi%
  \if@bidi@ftnrightloaded@\else
 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package ftnright after bidi package.
\fi%
\if@bidi@xltxtraloaded@\else
 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package xltxtra after bidi package. P
\fi%
\if@bidi@xunicodeloaded@\else
 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package xunicode after bidi package.
\fi%
\if@bidi@wrapfigloaded@\else
 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package wrapfig after bidi package. P
\fi%
\if@bidi@graphicxloaded@\else
 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package graphicx after bidi package.
\fi%
  \if@bidi@geometryloaded@\else
 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package geometry after bidi package.
\fi%
\if@bidi@hvfloatloaded@\else
 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package hvfloat after bidi package. P
\fi%
    \if@bidi@mdframedloaded@\else
 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package mdframed after bidi package.
\fi%
```

```
      \if@bidi@midfloatloaded@\else
 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package midfloat after bidi package.
\fi%
  \if@bidi@ntheoremloaded@\else
 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package ntheorem after bidi package.
\fi%
\if@bidi@hyperrefloaded@\else
 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package hyperref after bidi package.
\fi%
  \if@bidi@fancyboxloaded@\else
 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package fancybox after bidi package.
\fi%
\if@bidi@fancyhdrloaded@\else
 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package fancyhdr after bidi package.
\fi%
\if@bidi@draftwatermarkloaded@\else
 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package draftwatermark after bidi pa
\fi%
\if@bidi@empheqloaded@\else
 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package empheq after bidi package. Pl
\fi%
  \if@bidi@overpicloaded@\else
 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package overpic after bidi package. P
\fi%
\if@bidi@pdfpagesloaded@\else
 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package pdfpages after bidi package.
\fi%
\if@bidi@lettrineloaded@\else
 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package lettrine after bidi package.
\fi%
\if@bidi@listingsloaded@\else
 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package listings after bidi package.
\fi%
\csname if@bidi@media9loaded@\endcsname\else
 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package media9 after bidi package. Pl
\fi%
\if@bidi@pstricksloaded@\else
 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package pstricks after bidi package.
\fi%
\if@bidi@pgfloaded@\else
 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package pgf after bidi package. Pleas
\fi%
\if@bidi@picinparloaded@\else
 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package picinpar after bidi package.
\fi%
\if@bidi@quotchaploaded@\else
 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package quotchap after bidi package.
\fi%
\if@bidi@tikzloaded@\else
 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package tikz after bidi package. Plea
```

```
\fi%
\if@bidi@titlesecloaded@\else
 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package titlesec after bidi package.
\fi%
\if@bidi@titletocloaded@\else
 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package titletoc after bidi package.
\fi%
\if@bidi@arrayloaded@\else
 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package array after bidi package. Ple
\fi%
\if@bidi@stabularloaded@\else
 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package stabular after bidi package.
\fi%
\if@bidi@soulloaded@\else
 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package soul after bidi package. Plea
\fi%
\if@bidi@subfigloaded@\else
 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package subfig after bidi package. Pl
\fi%
\if@bidi@subfigureloaded@\else
 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package subfigure after bidi package
\fi%
\if@bidi@supertabularloaded@\else
 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package supertabular after bidi packa
\fi%
\if@bidi@xtabloaded@\else
 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package xtab after bidi package. Plea
\fi%
\if@bidi@longtableloaded@\else
 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package longtable after bidi package
\fi%
\if@bidi@arydshlnloaded@\else
 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package arydshln after bidi package.
\fi%
\if@bidi@multicolloaded@\else
 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package multicol after bidi package.
\fi%
\if@bidi@multienumloaded@\else
 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package multienum after bidi package
\fi%
\if@bidi@minitocloaded@\else
 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package minitoc after bidi package. P
\fi%
\if@bidi@natbibloaded@\else
 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package natbib after bidi package. Pl
\fi%
  \if@bidi@newfloatloaded@\else
 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package newfloat after bidi package.
\fi%
\csname if@bidi@ragged2eloaded@\endcsname\else
```

```
 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package ragged2e after bidi package.
\fi%
  \if@bidi@rotatingloaded@\else
 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package rotating after bidi package.
\fi%
\if@bidi@tablsloaded@\else
 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package tabls after bidi package. Ple
\fi%
\if@bidi@tabularyloaded@\else
 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package tabulary after bidi package.
\fi%
\if@bidi@tocstyleloaded@\else
 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package tocstyle after bidi package.
\fi%
\if@bidi@tocbibindloaded@\else
 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package tocbibind after bidi package
\fi%
\if@bidi@fontspecloaded@\else
 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package fontspec after bidi package.
\fi%
\if@bidi@arabxetexloaded@\else
 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package arabxetex after bidi package
\fi%
\if@bidi@polyglossialoaded@\else
 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package polyglossia after bidi packa
\fi%
\if@bidi@fancyvrbloaded@\else
 \bidi@isloaded[\PackageError{bidi}{Oops! you have loaded package fancyvrb after bidi package.
\fi%
}
```

7.76 longtable-xetex-bidi.def

```
\ProvidesFile{longtable-xetex-bidi.def}[2013/04/01 v0.3 bidi adaptations for longtable package f
\def\LT@array[#1]#2{%
  \refstepcounter{table}\stepcounter{LT@tables}%
  \if l#1%
    \if@RTLtab\LTleft\fill \LTright\z@\else\LTleft\z@ \LTright\fill\fi
  \else\if r#1%
    \if@RTLtab\LTleft\z@ \LTright\fill\else\LTleft\fill \LTright\z@\fi
  \else\if c#1%
    \LTleft\fill \LTright\fill
  \fi\fi\fi
  \let\LT@mcol\multicolumn
  \let\LT@@tabarray\@tabarray
  \let\LT@@hl\hline
  \def\@tabarray{%
    \let\hline\LT@@hl
    \LT@@tabarray}%
  \let\\\LT@tabularcr\let\tabularnewline\\%
```

```
  \def\newpage{\noalign{\break}}%
  \def\pagebreak{\noalign{\ifnum`}=0\fi\@testopt{\LT@no@pgbk-}4}%
  \def\nopagebreak{\noalign{\ifnum`}=0\fi\@testopt\LT@no@pgbk4}%
  \let\hline\LT@hline \let\kill\LT@kill\let\caption\LT@caption
  \@tempdima\ht\strutbox
  \let\@endpbox\LT@endpbox
  \ifx\extrarowheight\@undefined
    \let\@acol\@tabacol
    \let\@classz\@tabclassz \let\@classiv\@tabclassiv
    \def\@startpbox{\vtop\LT@startpbox}%
    \let\@@startpbox\@startpbox
    \let\@@endpbox\@endpbox
    \let\LT@LL@FM@cr\@tabularcr
  \else
    \advance\@tempdima\extrarowheight
    \col@sep\tabcolsep
    \let\@startpbox\LT@startpbox\let\LT@LL@FM@cr\@arraycr
  \fi
  \setbox\@arstrutbox\hbox{\vrule
    \@height \arraystretch \@tempdima
    \@depth \arraystretch \dp \strutbox
    \@width \z@}%
  \let\@sharp##\let\protect\relax
   \begingroup
    \@mkpream{#2}%
    \xdef\LT@bchunk{%
       \global\advance\c@LT@chunks\@ne
       \global\LT@rows\z@\setbox\z@\vbox\bgroup
       \LT@setprevdepth
       \tabskip\LTleft \noexpand\halign to\hsize\bgroup
      \tabskip\z@ \@arstrut \@preamble \tabskip\LTright \cr}%
  \endgroup
  \expandafter\LT@nofcols\LT@bchunk&\LT@nofcols
  \LT@make@row
  \m@th\let\par\@empty
  \everycr{}\lineskip\z@\baselineskip\z@
  \LT@bchunk}
\def\LT@makecaption#1#2#3{%
  \LT@mcol\LT@cols c{\hbox to\z@{\hss\parbox[t]\LTcapwidth{%
    \sbox\@tempboxa{\if@RTL\beginR\fi#1{#2: }#3\if@RTL\endR\fi}%
    \ifdim\wd\@tempboxa>\hsize
      #1{#2: }#3%
    \else
      \hbox to\hsize{\hfil\box\@tempboxa\hfil}%
    \fi
    \endgraf\vskip\baselineskip}%
  \hss}}}
\def\LT@startpbox#1{%
  \bgroup
    \let\@footnotetext\LT@p@ftntext
```

```
    \let\@LTRfootnotetext\LT@p@LTRftntext
    \let\@RTLfootnotetext\LT@p@RTLftntext
    \setlength\hsize{#1}%
    \@arrayparboxrestore
    \vrule \@height \ht\@arstrutbox \@width \z@}
\def\LT@p@LTRftntext#1{%
 \edef\@tempa{\the\LT@p@ftn\noexpand\LTRfootnotetext[\the\c@footnote]}%
 \global\LT@p@ftn\expandafter{\@tempa{#1}}}%
\def\LT@p@RTLftntext#1{%
 \edef\@tempa{\the\LT@p@ftn\noexpand\RTLfootnotetext[\the\c@footnote]}%
 \global\LT@p@ftn\expandafter{\@tempa{#1}}}%
```

7.77 mdframed-xetex-bidi.def

```
\ProvidesFile{mdframed-xetex-bidi.def}[2013/09/22 v0.4 bidi adaptations for mdframed package for
\newif\if@bidi@mdf@RTL
\def\mdf@lrbox#1{%
  \mdf@patchamsthm%patch amsthm
   \if@RTL\@bidi@mdf@RTLtrue\fi%
   \@RTLfalse%
 \setbox#1\vbox\bgroup%
   \color@begingroup%
    \if@bidi@mdf@RTL\@RTLtrue\fi%
     \mdf@horizontalmargin@equation%
     \columnwidth=\hsize%
     \textwidth=\hsize%
     \let\if@nobreak\iffalse%
     \let\if@noskipsec\iffalse%
     \let\par\@@par%
     \let\-\@dischyph%
     \let\'\@acci\let\`\@accii\let\=\@acciii%
     \parindent\z@ \parskip\z@skip%
     \linewidth\hsize%
     \@totalleftmargin\z@%
     \leftskip\z@skip \rightskip\z@skip \@rightskip\z@skip%
     \parfillskip\@flushglue \lineskip\normallineskip%
     \baselineskip\normalbaselineskip%
%%   \sloppy%
     \let\\\@normalcr%
   \mdf@par@local%New feature to restore parskip/parindent local in save box
     \ifbool{mdf@suppressfirstparskip}{\vspace*{-\parskip}}{}%
     \@afterindentfalse%
    %\@afterheading%
}
\renewrobustcmd\mdfframedtitleenv[1]{%
    \mdf@lrbox{\mdf@frametitlebox}%
     \mdf@frametitlealignment%
       \leavevmode{\color{\mdf@frametitlefontcolor}%
           \normalfont\mdf@frametitlefont{#1}
       \ifbool{mdf@ignorelastdescenders}%
```

```
        {%
         \par\strut\par
         \unskip\unskip\setbox0=\lastbox
         \vspace*{\dimexpr\ht\strutbox-\baselineskip\relax}%
        }{}}%
  \par\unskip\ifvmode\nointerlineskip\hrule \@height\z@ \@width\hsize\fi%%
   \endmdf@lrbox\relax%
  \mdf@ignorevbadness%
  \setbox\mdf@frametitlebox=\vbox{\unvbox\mdf@frametitlebox}%
  \mdfframetitleboxwidth=\wd\mdf@frametitlebox\relax%
  \mdfframetitleboxheight=\ht\mdf@frametitlebox\relax%
  \mdfframetitleboxdepth=\dp\mdf@frametitlebox\relax%
  \mdfframetitleboxtotalheight=\dimexpr
                                  \ht\mdf@frametitlebox
                                  +\dp\mdf@frametitlebox%
                                  +\mdf@frametitleaboveskip@length
                                  +\mdf@frametitlebelowskip@length
                                \relax%
}

\renewrobustcmd*\mdf@footnoteoutput{%
    \ifvoid\@mpfootins\else%
         \nobreak%
         \vskip\mdf@footenotedistance@length%
         \normalcolor%
         \bidi@mpfootnoterule%
         \unvbox\@mpfootins%
    \fi%
}


\renewrobustcmd*\mdf@footnoteinput{%
  \def\@mpfn{mpfootnote}%
  \def\thempfn{\thempfootnote}%
  \c@mpfootnote\z@%
  \let\@footnotetext\@mpfootnotetext%
   \let\@LTRfootnotetext\@mpLTRfootnotetext%
   \let\@RTLfootnotetext\@mpRTLfootnotetext%
}
```

7.78 bidi-media9.sty

```
\ProvidesExplPackage{bidi-media9}{2015/11/24}{0.1}
{bidi fixes for media9 package for the XeTeX engine}

\keys_define:nn{media9/mbtn}{
  overface .code:n = {
    \hbox_set:Nn\l_mix_poster_box{\if@RTL\beginR\fi#1\if@RTL\endR\fi}
    \mix_pdfxform:n{\l_mix_poster_box}
    \tl_gset:Nx\g_mix_overbtn_tl{\mix_pdflastxform:}
```

```
  },
  overface .value_required:n = {true},

  downface .code:n = {
    \hbox_set:Nn\l_mix_poster_box{\if@RTL\beginR\fi#1\if@RTL\endR\fi}
    \mix_pdfxform:n{\l_mix_poster_box}
    \tl_gset:Nx\g_mix_downbtn_tl{\mix_pdflastxform:}
  },
  downface .value_required:n = {true}
}



\RenewDocumentCommand\includemedia{O{}mm}{%#1 options, #2 text/image #3 media file
  \mix_uriend:
  \group_begin:
  \beginL
  \leavevmode
  %empty stream as appearance dummy
  \cs_if_exist:NF\g_mix_appearance_tl{
    \hbox_set:Nn\l_mix_poster_box{\phantom{\rule{1pt}{1pt}}}
    \mix_pdfxform:n{\l_mix_poster_box}
    \tl_gset:Nx\g_mix_appearance_tl{\mix_pdflastxform:}
  }
  \mix_reset:
  \mix_uribegin: %treat URI characters correctly
  \keys_set:nn{media9/user}{#1}
  \mix_uriend:
  \tl_greplace_all:Nnn\g_mix_flashvars_tl{~&}{&}
  \tl_greplace_all:Nnn\g_mix_flashvars_tl{&~}{&}
  \tl_greplace_all:Nnn\g_mix_flashvars_tl{~=}{=}
  \tl_greplace_all:Nnn\g_mix_flashvars_tl{=~}{=}
  \tl_gtrim_spaces:N\g_mix_flashvars_tl

  \cs_if_exist:NT\Ginput@path{\cs_set_eq:NN\input@path\Ginput@path}

 \hbox_set:Nn\l_mix_poster_box{\group_begin:\if@RTL\beginR\fi#2\if@RTL\endR\fi\group_end:}
  %\hbox_set:Nn\l_mix_poster_box{#2}
  \mix_scale:n{\l_mix_poster_box}
  \bool_if:nT{
    \dim_compare_p:n{\g_mix_tt_tl=\c_zero_dim}||
    \dim_compare_p:n{\g_mix_wd_tl=\c_zero_dim}
  }{
    \tl_gset:Nn\g_mix_usrpbtn_tl{none}
  }
  \bool_if:NTF\g_mix_usrdraft_bool{
    \tl_if_empty:NF\g_mix_usrlabel_tl{
      \mix_keytoaux_now:nn{ann@\g_mix_usrlabel_tl}{draft}
    }
```

```
    \tl_if_blank:oTF{#2}{
      \mix_uribegin: %treat URI characters correctly
      \mix_draftbox:n{\tl_to_str:n{#3}}
      \mix_uriend:
    }{
      \hbox_to_wd:nn{\g_mix_wd_tl}{
        \vrule~width~\c_zero_dim~height~\g_mix_ht_tl~depth~\g_mix_dp_tl
        \box_use:N\l_mix_poster_box\hss
      }
    }
  }{
    \bool_if:nF{\str_if_eq_p:Vn\g_mix_usrpbtn_tl{none}}{
     %attach script that switches off play button overlay upon activation
      \mix_pdfobj:nnn{}{stream}{
        var~ocgs=host.getOCGs(host.pageNum);
        for(var~i=0;i<ocgs.length;i++){
         if(ocgs[i].name=='MediaPlayButton\int_use:N\g_mix_rmcnt_int'){
            ocgs[i].state=false;
          }
        }
      }
      \mix_pdfobj:nnn{}{dict}{
      /Type/Filespec/EF~<</F~\mix_pdflastobj:>>/F~(btnoff)%/UF~(btnoff)
      }
      \tl_gset:Nx\g_mix_assets_tl{(btnoff)~\mix_pdflastobj:}
      \tl_set:Nx\l_mix_scripts_tl{~\mix_pdflastobj:~}
      %enforce plain playbutton overlay for XeTeX
      \sys_if_engine_xetex:T{\tl_gset:Nn\g_mix_usrpbtn_tl{plain}}
    }
    %embed main asset
    \mix_uribegin:
    \mix_embedasset:n{#3}
    \bool_if:nTF{
    \str_if_eq_p:Vn\l_mix_ext_tl{prc}||\str_if_eq_p:Vn\l_mix_ext_tl{u3d}
    }{
      \bool_gset_true:N\g_mix_iiid_bool
      \tl_gset:Nn\g_mix_mainassetsub_tl{3D}
    }{
      \str_case_x:nnF{\l_mix_base_tl}{
        {APlayer}{\tl_gset:Nn\g_mix_mainassetsub_tl{Sound}}
        {AudioPlayer}{\tl_gset:Nn\g_mix_mainassetsub_tl{Sound}}
        {VPlayer}{\tl_gset:Nn\g_mix_mainassetsub_tl{Video}}
        {VideoPlayer}{\tl_gset:Nn\g_mix_mainassetsub_tl{Video}}
        {StrobeMediaPlayback}{\tl_gset:Nn\g_mix_mainassetsub_tl{Video}}
      }{\tl_gset:Nn\g_mix_mainassetsub_tl{Flash}}
    }
    \tl_gset:Nx\g_mix_mainasset_tl{~\g_mix_lastasset_tl}
    \mix_uriend:
    %secondary assets (added by addresource)
    \seq_map_function:NN\g_mix_res_seq\mix_embedasset:n
```

```
  \seq_map_inline:Nn\g_mix_script_seq{
    \mix_embedasset:n{##1}
    \tl_put_right:Nx\l_mix_scripts_tl{~\g_mix_lastasset_tl}
  }
  %attach 3D calculation script
  \bool_if:nT{\g_mix_iiid_bool && \g_mix_iiidcalc_bool}{
    \mix_embedasset:n{3Dmenu.js}
    \tl_put_left:Nx\l_mix_scripts_tl{\g_mix_lastasset_tl~}
  }
  %create 3D views from file (option 3Dviews)
 \bool_if:nT{\g_mix_iiid_bool && !(\tl_if_blank_p:V\g_mix_vfile_tl)}{
    \tl_set:Nn\l_mix_level_tl{\c_minus_one}
    \int_zero:N\l_mix_viewcnt_int
    \int_zero:N\l_mix_lineno_int

    \ior_open:Nn\l_mix_vfile_stream{\g_mix_vfile_tl}
    \ior_map_inline:Nn\l_mix_vfile_stream{
      \int_incr:N\l_mix_lineno_int
      \keys_set:nn{media9/views}{##1} %process input line
    }
    \ior_close:N\l_mix_vfile_stream
  }
  \bool_if:nT{ %create default 3D view if required
    \g_mix_iiid_bool &&
  (\g_mix_opt_iiidview_bool || \tl_if_blank_p:V\l_mix_iiidviewarray_tl)
  }{
    \tl_set_eq:NN\l_mix_bg_tl\g_mix_opt_bg_tl
    \tl_set_eq:NN\l_mix_ls_tl\g_mix_opt_ls_tl
    \tl_set_eq:NN\l_mix_rm_tl\g_mix_opt_rm_tl
    \tl_set_eq:NN\l_mix_psob_tl\g_mix_opt_psob_tl
    \tl_set_eq:NN\l_mix_coo_tl\g_mix_opt_coo_tl
    \tl_set_eq:NN\l_mix_ctoc_tl\g_mix_opt_ctoc_tl
    \tl_set_eq:NN\l_mix_ciiw_tl\g_mix_opt_ciiw_tl

    \fp_set_eq:NN\l_mix_roo_fp\g_mix_opt_roo_fp
    \fp_set_eq:NN\l_mix_aac_fp\g_mix_opt_aac_fp
    \fp_set_eq:NN\l_mix_oscale_fp\g_mix_opt_oscale_fp
    \fp_set_eq:NN\l_mix_roll_fp\g_mix_opt_roll_fp

    \bool_set_eq:NN\l_mix_ciiw_bool\g_mix_opt_ciiw_bool
    \bool_set_eq:NN\l_mix_iiidortho_bool\g_mix_opt_iiidortho_bool
    \tl_clear:N\l_mix_naarray_tl

    \bool_if:NF\l_mix_ciiw_bool{
     \tl_set:Nx\l_mix_args_tl{\l_mix_coo_tl\space\l_mix_ctoc_tl\space}
      \exp_after:wN\mix_calc_ciiw:w\l_mix_args_tl\q_stop
    }

    \tl_clear:N\l_mix_naarray_tl
    \tl_clear:N\l_mix_saarray_tl
```

```
    \tl_set_eq:NN\l_mix_nr_tl\g_mix_nrdflt_tl

    \mix_view:n{Default}
    \tl_set:Nx\l_mix_dfltview_tl{\mix_pdflastobj:}

  }
  \mix_pdfobj:nnn{}{dict}{
    /Type/RichMediaInstance
    /Subtype/\g_mix_mainassetsub_tl
    /Asset~\g_mix_mainasset_tl
    \bool_if:NF\g_mix_iiid_bool{
      /Params~<<
        /Binding\str_if_eq:VnTF\g_mix_transp_tl{true}{
          /Foreground
        }{
          /Background
        }
        \tl_if_blank:VF\g_mix_flashvars_tl{
          /FlashVars~(\g_mix_flashvars_tl)
        }
      >>
    }
  }
  \tl_if_empty:NF\g_mix_usrlabel_tl{
    \mix_keytoaux_now:nn{main@\g_mix_usrlabel_tl}{\mix_pdflastobj:}
  }
  \mix_pdfobj:nnn{}{dict}{
    /Type/RichMediaConfiguration
    /Subtype/\g_mix_mainassetsub_tl
    /Instances~[\mix_pdflastobj:]
  }
  \mix_pdfobj:nnn{}{dict}{
    /Type/RichMediaContent
    /Assets~<</Names~[\g_mix_assets_tl]>>
    /Configurations~[\mix_pdflastobj:]
    \bool_if:nT{
      \g_mix_iiid_bool && !(\tl_if_empty_p:V\l_mix_iiidviewarray_tl)
    }{
      /Views~[\l_mix_iiidviewarray_tl]
    }
  }
  \tl_set:Nx\l_mix_content_tl{\mix_pdflastobj:}
  \bool_if:nT{
    \g_mix_iiid_bool && \str_if_eq_p:Vn\g_mix_playtpe_tl{Oscillating}
  }{
    \tl_gset:Nx\g_mix_playcnt_tl{\int_eval:n{\g_mix_playcnt_tl*2}}
  }
  %determine floating window size
  \bool_if:NT\g_mix_opt_windowed_bool{
    \exp_after:wN\mix_parse_winsizearg:w\g_mix_winsize_tl\q_stop
```

```
}
\mix_pdfobj:nnn{}{dict}{
  /Activation~<<
    /Condition\g_mix_act_tl
    \bool_if:nT{
      \g_mix_iiid_bool &&
      !(\str_if_eq_p:Vn\g_mix_playtpe_tl{None})
    }{%seems to work only with 3D content
      /Animation~<<
        /Subtype/\g_mix_playtpe_tl
        /PlayCount~\g_mix_playcnt_tl
        /Speed~\g_mix_playspd_tl
      >>
    }
    \bool_if:nT{
      \g_mix_iiid_bool && (
    \g_mix_opt_iiidview_bool || \tl_if_blank_p:V\l_mix_iiidviewarray_tl
      )
    }{/View~\l_mix_dfltview_tl}
    /Presentation~<<
      /Transparent~\g_mix_transp_tl
      \bool_if:NTF\g_mix_opt_windowed_bool{
        /Style/Windowed
        /Window~<<
          /Width~<</Default~\tl_mix_fltwd>>
          /Height~<</Default~\tl_mix_fltht>>
          /Position~<<
            /HOffset~0/VOffset~0
            \str_case_x:nnF{\g_mix_winpos_tl}{
              {tl}{/VAlign/Near/HAlign/Near}
              {cl}{/VAlign/Center/HAlign/Near}
              {bl}{/VAlign/Far/HAlign/Near}
              {bc}{/VAlign/Far/HAlign/Center}
              {br}{/VAlign/Far/HAlign/Far}
              {cr}{/VAlign/Center/HAlign/Far}
              {tr}{/VAlign/Near/HAlign/Far}
              {tc}{/VAlign/Near/HAlign/Center}
            }{/HAlign/Center/VAlign/Center}
          >>
        >>
      }{
        /Style/Embedded
      }
      \bool_if:NTF\g_mix_iiid_bool{
        /Toolbar~\g_mix_tools_tl
        /NavigationPane~\g_mix_nav_tl
      }{
        /PassContextClick~\g_mix_contextclick_tl
      }
    >>
```

```
      \tl_if_blank:VF\l_mix_scripts_tl{/Scripts~[\l_mix_scripts_tl]}
    >>
    /Deactivation~<</Condition\g_mix_deact_tl>>
  }
  \tl_set:Nx\l_mix_settings_tl{\mix_pdflastobj:}
  \tl_if_empty:NF\g_mix_usrlabel_tl{
    \tl_gset_eq:NN\g_mix_label_tl\g_mix_usrlabel_tl
  }
  % #1:width, #2:height, #3:depth, #4:content (key-value)
  \mix_pdfannot:nnnn{\g_mix_wd_tl}{\g_mix_ht_tl}{\g_mix_dp_tl}{
    /Subtype/RichMedia
    /F~4\cs_if_exist_use:N\ocgxii@insert@OC
    /BS~<</W~0/S/S>>
  /Contents~(media~embedded~by~media9~[\g_mix_version_tl~(\g_mix_date_tl)])
    /NM~(\g_mix_label_tl)
    /AP~<</N~\g_mix_appearance_tl>>
    /RichMediaSettings~\l_mix_settings_tl
    /RichMediaContent~\l_mix_content_tl
  }
  \tl_if_empty:NF\g_mix_usrlabel_tl{
    \mix_keytoaux_now:nn{ann@\g_mix_usrlabel_tl}{\mix_pdflastann:}
    \mix_keytoaux_shipout:nn{page@\g_mix_usrlabel_tl}{
      \noexpand\the\g@mix@page@int}
  }
  \mix_pdfobj:nnn{}{dict}{
    /S/JavaScript/JS~(
      try{
        if(typeof(annotRM)=='undefined'){annotRM=new~Array();}
        if(typeof(annotRM['\g_mix_label_tl'])=='undefined'){
          annotRM['\g_mix_label_tl']=
            this.getAnnotRichMedia(this.pageNum,'\g_mix_label_tl');
        }
        \str_if_eq_x:nnF{\g_mix_usrpbtn_tl}{none}{
          if(typeof(ocgBtn\int_use:N\g_mix_rmcnt_int)=='undefined'){
            var~ocgs=this.getOCGs(this.pageNum);
            for(var~i=0;i<ocgs.length;i++){
         if(ocgs[i].name=='MediaPlayButton\int_use:N\g_mix_rmcnt_int'){
                  var~ocgBtn\int_use:N\g_mix_rmcnt_int=ocgs[i];
              }
            }
          }
          if(
            !annotRM['\g_mix_label_tl'].activated&&(
              app.viewerType=='Reader'||
              app.viewerType=='Exchange'||
              app.viewerType=='Exchange-Pro'
            )&&app.viewerVersion>=9
          ){
            ocgBtn\int_use:N\g_mix_rmcnt_int.state=true;
          }
```

```
          }
        }catch(e){}
        this.dirty=false;
      )
    }
    \mix_pdfannot:nnnn{0pt}{0pt}{0pt}{
      /Subtype/Widget
      /FT/Btn/Ff~65537/F~2
      /BS~<</W~0>>
      /T~(fd@\g_mix_label_tl)
      /AA~<</PO~\mix_pdflastobj:~/PV~\mix_pdflastobj:>>
    }
    \tl_gput_right:Nx\@anim@fields{\space\mix_pdflastann:\space}
    \hbox_overlap_right:n{\box_use:N\l_mix_poster_box}
    \str_if_eq_x:nnTF{\g_mix_usrpbtn_tl}{none}{
      \hbox_to_wd:nn{\g_mix_wd_tl}{
     \vrule~width~\c_zero_dim~height~\g_mix_ht_tl~depth~\g_mix_dp_tl\hss
      }
    }{%insert play button overlay
      \mix_insert_btnocg: %create OCG
      \cs_gset_eq:Nc\mix_pbtn:NN{g@mix@pbtn@\g_mix_usrpbtn_tl @tl}
      \hbox_set:Nn\l_mix_pbtn_box{\mix_pbtn:NN\g_mix_wd_tl\g_mix_tt_tl}
      \box_move_down:nn{\g_mix_dp_tl}{
        \hbox_to_wd:nn{\g_mix_wd_tl}{
          \vbox_to_ht:nn{\g_mix_tt_tl}{
            \vss
            \ocgbase_oc_bdc:n{\g_mix_btnocg_tl}
            \box_use:N\l_mix_pbtn_box
            \ocgbase_oc_emc:
          }
        }
      }
    }
    \int_gincr:N\g_mix_rmcnt_int
  }
  \endL
  \group_end:
}
\tl_set_eq:NN\l_mix_includemedia_tl\includemedia
\tl_set:Nn\includemedia{\mix_uribegin:\l_mix_includemedia_tl}


\RenewDocumentCommand\mediabutton{O{}m}{%#1 options, #2 normal button text
  \mix_uriend:
  \group_begin:
  \beginL
  \leavevmode
  %reset various variables
  \tl_gclear:N\g_mix_overbtn_tl
```

```
  \tl_gclear:N\g_mix_downbtn_tl
  \tl_gclear:N\g_mix_btnactions_tl
  \tl_gclear:N\g_mix_tooltip_tl
  %process options
  \bool_gset_eq:NN\g_mix_btndraft_bool\g_mix_pkgdraft_bool
  \mix_uribegin: %treat URI characters correctly
  \keys_set:nn{media9/mbtndraft}{#1} %detect draft/final on first pass
  \bool_if:NF\g_mix_btndraft_bool{\keys_set:nn{media9/mbtn}{#1}}
  \mix_uriend:
  %normal button appearance
  \hbox_set:Nn\l_mix_poster_box{\if@RTL\beginR\fi#2\if@RTL\endR\fi}
  \tl_set:Nx\width {\dim_use:N\box_wd:N\l_mix_poster_box}
  \tl_set:Nx\height{\dim_use:N\box_ht:N\l_mix_poster_box}
  \tl_set:Nx\depth {\dim_use:N\box_dp:N\l_mix_poster_box}
  \bool_if:NTF\g_mix_btndraft_bool{\box_use:N\l_mix_poster_box}{
    \mix_pdfxform:n{\l_mix_poster_box}
    \tl_set:Nx\g_mix_normalbtn_tl{\mix_pdflastxform:}
    \bool_if:nT{ %dummy Widget for ocgx2, AR seems to need it
%     \cs_if_exist_p:N\ocgxii@insert@OC && !\tl_if_blank_p:V\ocgxii@insert@OC
      !\cs_if_exist:NTF\ocgxii@insert@OC{
        \tl_if_blank_p:V\ocgxii@insert@OC
      }{
        \c_true_bool
      }
    }{\mix_pdfannot:nnnn{\width}{\height}{\depth}{/Subtype/Widget/F~2}}
    %insert widget annotation
    \mix_pdfannot:nnnn{\width}{\height}{\depth}{
      /Subtype/Widget
      /T~(mbtn@\int_use:N\g_mix_mbtncnt_int)
      \tl_if_empty:NF\g_mix_tooltip_tl{/TU~(\g_mix_tooltip_tl)}
      /FT/Btn/Ff~65536\cs_if_exist_use:N\ocgxii@insert@OC
      \tl_if_empty:NTF\g_mix_downbtn_tl{/H/I}{/H/P}
      /AP~<<
        /N~\g_mix_normalbtn_tl
        \tl_if_empty:NF\g_mix_overbtn_tl{/R~\g_mix_overbtn_tl}
        \tl_if_empty:NF\g_mix_downbtn_tl{/D~\g_mix_downbtn_tl}
      >>
      /MK~<<
        /TP~1~/IF~<</S/A/FB~true/A~[0.0~0.0]>>
        /I~\g_mix_normalbtn_tl
        \tl_if_empty:NF\g_mix_overbtn_tl{/RI~\g_mix_overbtn_tl}
        \tl_if_empty:NF\g_mix_downbtn_tl{/IX~\g_mix_downbtn_tl}
      >>
      /A~<<
        /S/JavaScript/JS~(app.focusRect=false;)
        %sequence of actions to perform
       \tl_if_empty:NF\g_mix_btnactions_tl{/Next~[\g_mix_btnactions_tl]}
      >>
    }
    \tl_gput_right:Nx\@anim@fields{\mix_pdflastann:\space}
```

```
    \hbox_to_wd:nn{\width}{
      \vrule~width~\c_zero_dim~height~\height~depth~\depth\hss
    }
    \int_gincr:N\g_mix_mbtncnt_int
    \cs_if_exist:NF\g_mix_dpiwarned_tl{
      \tl_new:N\g_mix_dpiwarned_tl
      \AtEndDvi{\special{ps::[nobreak]\mix_dpiwarning:}}
    }
  }
  \endL
  \group_end:
}
\tl_set_eq:NN\l_mix_mediabutton_tl\mediabutton
\tl_set:Nn\mediabutton{\mix_uribegin:\l_mix_mediabutton_tl}
```

7.79 memoir-xetex-bidi.def

```
\ProvidesFile{memoir-xetex-bidi.def}[2010/07/25 v0.5 bidi adaptations for memoir class for XeTeX
\renewcommand{\keepthetitle}{%
  \@bsmtitlempty
  \global\let\thanks\relax
  \global\let\LTRthanks\relax
  \global\let\RTLthanks\relax
  \global\let\and\relax
  \global\let\andnext\relax
  \global\let\@thanks\@empty
  \global\let\@title\@empty
  \global\let\@author\@empty
  \global\let\@date\@empty}
\renewcommand{\maketitle}{\par
  \begingroup
    \@bsmarkseries
    \def\@makefnmark{\@textsuperscript{%
       \normalfont\@bsthanksheadpre \tamark \@bsthanksheadpost}}%
    \long\def\@makefntext##1{\makethanksmark ##1}
    \if@twocolumn
      \ifnum \col@number=\@ne
        \@maketitle
      \else
        \twocolumn[\@maketitle]%
      \fi
    \else
      \ifdim\pagetotal>\z@
        \newpage
      \fi
      \global\@topnum\z@
      \@maketitle
```

```
    \fi
    \thispagestyle{title}\@thanks
  \endgroup
  \@bscontmark  %  \setcounter{footnote}{0}%
  }
\renewcommand*{\memRTLleftskip}{\if@RTL\rightskip\else\leftskip\fi}
\renewcommand*{\memRTLrightskip}{\if@RTL\leftskip\else\rightskip\fi}
\renewcommand*{\memRTLvleftskip}{\if@RTL\vrightskip\else\vleftskip\fi}
\renewcommand*{\memRTLvrightskip}{\if@RTL\vleftskip\else\vrightskip\fi}
\renewcommand*{\memRTLraggedright}{\if@RTL\raggedleft\else\raggedright\fi}
\renewcommand*{\memRTLraggedleft}{\if@RTL\raggedright\else\raggedleft\fi}
\renewcommand*{\thesection}{\thechapter\@SepMark\@arabic\c@section}
\renewcommand*{\thesubsection}{%
              \thesection\@SepMark\@arabic\c@subsection}
\renewcommand*{\thesubsubsection}{%
              \thesubsection\@SepMark\@arabic\c@subsubsection}
\renewcommand*{\theparagraph}{%
              \thesubsubsection\@SepMark\@arabic\c@paragraph}
\renewcommand*{\thesubparagraph}{%
              \theparagraph\@SepMark\@arabic\c@subparagraph}
\renewcommand{\setthesection}{\thechapter\@SepMark\Alph{section}}
\renewcommand{\theequation}{%
  \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
\renewcommand{\thefigure}{\thechapter\@SepMark\@arabic\c@figure}
\renewcommand{\thetable}{\thechapter\@SepMark\@arabic\c@table}
\ifartopt
  \chapterstyle{article}
  \counterwithout{figure}{chapter}
  \counterwithout{table}{chapter}
  \counterwithout{footnote}{chapter}
  \counterwithout{equation}{chapter}
  \renewcommand{\chaptername}{}
  \renewcommand{\maketitlehookb}{%
    \vskip -1.5\topsep\vskip -1.5\partopsep}
  \renewcommand{\maketitlehookc}{%
    \vskip -1.5\topsep\vskip -1.5\partopsep}
\fi
\long\def\@makecaption#1#2{\let\@memtempa\relax
  \ifdim\prevdepth>-99\p@ \vskip\abovecaptionskip
  \else \def\@memtempa{\vbox to\topskip{}}\fi
  \let\@contfnote\footnote \renewcommand{\footnote}[2][]{}
  \let\@contfmark\footnotemark \renewcommand{\footnotemark}[1][]{}
  \sbox\@tempboxa{\@contnfont #1\@contdelim \@conttfont #2\@contfinal}
  \let\footnote\@contfnote
  \let\footnotemark\@contfmark
  \ifdim\wd\@tempboxa<\linewidth \centering \fi
  \if@contcw
    \centering
    \parbox{\@contcwidth}{%
    \ifdim\wd\@tempboxa<\@contcwidth \centering \fi
```

```
  \fi
  \ifdim\wd\@tempboxa<\linewidth
    \@contpre
    {\@contnfont #1\@contdelim}\@memtempa
    {\@contcshortstyle \@conttfont #2\@contfinal\par}
  \else
    \if@conthang
      \sbox\@tempboxa{\@contnfont #1\@contdelim}
      \@contpre%
      {\@contcstyle\hangindent=\wd\@tempboxa
       \noindent\box\@tempboxa\@memtempa \@conttfont #2\@contfinal\par}
    \else
      \if@contindent
        \@contpre%
        {\@contnfont #1\@contdelim}\@memtempa
        {\@contcstyle\hangindent=\@contindw
                 \hangafter=\@ne\@conttfont #2\@contfinal\par}% <- v1.4
      \else
        \@contpre%
        {\@contnfont #1\@contdelim}\@memtempa
        {\@contcstyle \@conttfont #2\@contfinal\par}
      \fi
    \fi
  \fi
  \@contpost
  \if@contcw
    \par
    }  % end of the \parbox
  \fi
  \vskip\belowcaptionskip}
\@ifpackageloaded{caption}{%
\AtBeginPackage{caption}{
\ClassWarningNoLine{memoir}{%
  You are using the caption package with the memoir \MessageBreak
  class. This may cause unexpected or inconsistent \MessageBreak
  results if you use any of memoir's captioning facilities}

\long\def\@makecaption##1##2{%
  \vskip\abovecaptionskip
  \sbox\@tempboxa{\if@RTL\beginR\fi##1: ##2\if@RTL\endR\fi}%
  \ifdim \wd\@tempboxa >\hsize
    \if@RTL\beginR\fi##1: ##2\if@RTL\endR\fi\par
  \else
    \global \@minipagefalse
    \hb@xt@\hsize{\hfil\box\@tempboxa\hfil}%
  \fi
  \vskip\belowcaptionskip}

\def\caption{%
   \ifx\@captype\@undefined
```

```
      \@latex@error{\noexpand\caption outside float}\@ehd
      \expandafter\@gobble
    \else
      \refstepcounter\@captype
      \expandafter\@firstofone
    \fi
    {\@dblarg{\@caption\@captype}}%
}

\long\def\@caption##1[##2]##3{%
  \par
  \addcontentsline{\csname ext@##1\endcsname}{##1}%
    {\protect\numberline{\csname the##1\endcsname}{\ignorespaces ##2}}%
  \begingroup
    \@parboxrestore
    \if@minipage
      \@setminipage
    \fi
    \normalsize
    \@makecaption{\csname fnum@##1\endcsname}{\ignorespaces ##3}\par
  \endgroup}
}}{}
\renewenvironment{thebibliography}[1]{%
  \bibsection
  \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
  \begin{bibitemlist}{#1}}{\end{bibitemlist}\postbibhook}
```

7.80 midfloat-xetex-bidi.def

```
\ProvidesFile{midfloat-xetex-bidi.def}[2013/04/10 v0.2 bidi adaptations for midfloat package for
\def\RTL@outputdblcol{%
  \if@firstcolumn
    \global \@firstcolumnfalse
    \global \setbox\@leftcolumn \box\@outputbox
    \global\c@colht\@colht\global\c@addvipersep\z@
    \ifnum\juo@sk>0
        \remove@strip\juo@sar
        \global\@colht\the\juo@pr
        \ifdim\right@cor>\z@
                \global\advance\@colht by\right@cor
        \fi
        \global\advance\@colht by\cor@height
        \global\cor@height=0pt
    \fi
    \global \setbox\@rightcolumn \vbox{}%
  \else
    \ifdim\c@colht>\@colht
            \@tempdima\@colht
            \ifdim\@colht>\z@
            \global\setbox\@rightcolumn \vbox{%
```

```
                        \unvbox\@rightcolumn
                        \vbox to\@tempdima{%
                               \vskip\c@addvipersep\unvbox\@outputbox}%
                        \vskip\stripsep
                        \vrule height\the\juo@ht width 0pt depth 0pt
                        \vskip\stripsep
                        }%
          \global\c@addvipersep\m@addvipersep
          \else
          \global\setbox\@rightcolumn \vbox{%
                        \unvbox\@rightcolumn
                        \vrule height\the\juo@ht width 0pt depth 0pt
                        \vskip\stripsep
                        }%
          \fi
          \ifnum\juo@sk>0
              \remove@strip\juo@sar
              \global\@colht\the\juo@pr
              \global\advance\@colht by -\ht\@rightcolumn
              \global\advance\@colht by\cor@height
              \global\cor@height=0pt
          \else
              \global\advance\c@colht by-\ht\@rightcolumn
              \global\@colht\c@colht
          \fi
  \else
  \global\@firstcolumntrue
   \global\setbox\@outputbox\vbox to\ht\@leftcolumn{%
                        \unvbox\@rightcolumn
                        \vskip\c@addvipersep
                        \unvbox\@outputbox
                        }%
   \setbox\@outputbox \vbox {%
                         \hb@xt@\textwidth {%
                          \hskip \columnwidth
                          \hfil
                           \vrule \@width\columnseprule
                           \hfil
                           \hb@xt@\columnwidth {%
                             \box\@leftcolumn \hss}%
                           \hskip-\textwidth
                           \hb@xt@\columnwidth {%
                             \box\@outputbox \hss}%
                           \hskip\columnwidth
                           \hskip\columnsep}%
                              }%
   \@combinedblfloats
   \@outputpage
   \begingroup
     \@dblfloatplacement
```

```
      \@startdblcolumn
      \@whilesw\if@fcolmade \fi
        {\@outputpage
         \@startdblcolumn}%
    \endgroup
    \global\juo@sk=0\global\juo@sar={}%
    \global\cor@height\z@\global\c@addvipersep\z@
    \fi
  \fi
}


\def\LTR@outputdblcol{%
  \if@firstcolumn
    \global \@firstcolumnfalse
    \global \setbox\@leftcolumn \box\@outputbox
    \global\c@colht\@colht\global\c@addvipersep\z@
    \ifnum\juo@sk>0
        \remove@strip\juo@sar
        \global\@colht\the\juo@pr
        \ifdim\right@cor>\z@
                \global\advance\@colht by\right@cor
        \fi
        \global\advance\@colht by\cor@height
        \global\cor@height=0pt
    \fi
    \global \setbox\@rightcolumn \vbox{}%
  \else
    \ifdim\c@colht>\@colht
            \@tempdima\@colht
            \ifdim\@colht>\z@
            \global\setbox\@rightcolumn \vbox{%
                        \unvbox\@rightcolumn
                        \vbox to\@tempdima{%
                               \vskip\c@addvipersep\unvbox\@outputbox}%
                        \vskip\stripsep
                        \vrule height\the\juo@ht width 0pt depth 0pt
                        \vskip\stripsep
                        }%
            \global\c@addvipersep\m@addvipersep
            \else
            \global\setbox\@rightcolumn \vbox{%
                        \unvbox\@rightcolumn
                        \vrule height\the\juo@ht width 0pt depth 0pt
                        \vskip\stripsep
                        }%
            \fi
            \ifnum\juo@sk>0
                \remove@strip\juo@sar
                \global\@colht\the\juo@pr
```

```
                \global\advance\@colht by -\ht\@rightcolumn
                \global\advance\@colht by\cor@height
                \global\cor@height=0pt
            \else
                \global\advance\c@colht by-\ht\@rightcolumn
                \global\@colht\c@colht
            \fi
  \else
   \global\@firstcolumntrue
    \global\setbox\@outputbox\vbox to\ht\@leftcolumn{%
                          \unvbox\@rightcolumn
                          \vskip\c@addvipersep
                          \unvbox\@outputbox
                          }%
    \setbox\@outputbox \vbox {%
                           \hb@xt@\textwidth {%
                             \hb@xt@\columnwidth {%
                               \box\@leftcolumn \hss}%
                             \hfil
                             \vrule \@width\columnseprule
                             \hfil
                             \hb@xt@\columnwidth {%
                               \box\@outputbox \hss}%
                                             }%
                              }%
    \@combinedblfloats
    \@outputpage
    \begingroup
      \@dblfloatplacement
      \@startdblcolumn
      \@whilesw\if@fcolmade \fi
        {\@outputpage
         \@startdblcolumn}%
    \endgroup
    \global\juo@sk=0\global\juo@sar={}%
    \global\cor@height\z@\global\c@addvipersep\z@
    \fi
  \fi
}


\def\@strip[#1/#2]{\global\@tempdima=#1\global\@tempdimb=#2%
  \global \setbox\@viper\vbox\bgroup\if@RTLmain\moveleft\dimexpr(\columnwidth+\columnsep)\fi\v
        \hsize\textwidth
        \@parboxrestore
        \col@number \@ne
        \vrule height\topskip width0pt depth0pt
}

\def\endstrip{%
```

```
        \egroup\egroup
        \if@firstcolumn
                \ifdim\pagetotal>\z@
                        \vskip\stripsep
                        \global\ht@strip\pagegoal
                        \global\advance\ht@strip by-\pagetotal
                        \global\advance\ht@strip by-\stripsep
                        \global\advance\ht@strip by-\ht\@viper
                        \global\advance\ht@strip by-\stripsep
                        \global\juo@ht=\ht\@viper
                \else
                        \global\ht@strip\z@
                \fi
                \ifdim\ht@strip>\z@
                  \unvbox\@viper
                  \vskip\stripsep
            \add@strip{\the\pagetotal}{\the\juo@ht}{\the\@tempdima}{\the\@tempdimb}%
                  \global\advance\juo@sk by1
                \else
                  \@latex@error{Strip needs more place!}\@ehc
                  \if@vihproof
                    \framebox[\columnwidth]{??? Strip ???}%
                  \fi
                \fi
        \else
          \@latex@error{Strip is used only on left column!}\@ehc
          \if@vihproof
            \framebox[\columnwidth]{??? Strip ???}%
          \fi
        \fi
}
```

7.81 minitoc-xetex-bidi.def

```
\ProvidesFile{minitoc-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for minitoc package for X
\def\@undottedtocline#1#2#3#4#5{%
  \ifnum #1>\c@tocdepth\relax \else
  \vskip \z@ plus.2\p@
 {\if@RTL\rightskip\else\leftskip\fi #2\relax \if@RTL\leftskip\else\rightskip\fi \@tocrmarg \pa
   \parindent #2\relax\@afterindenttrue
   \interlinepenalty\@M
   \leavevmode
  \@tempdima #3\relax \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \hbox{}%
   \hskip -\if@RTL\rightskip\else\leftskip\fi
    #4\nobreak\hfill \nobreak
           \null\par}%
  \fi}
\def\@Undottedtocline#1#2#3#4#5{%
  \ifnum #1>\c@tocdepth\relax \else
    \vskip \z@ \@plus.2\p@
```

```
  {\if@RTL\rightskip\else\leftskip\fi #2\relax \if@RTL\leftskip\else\rightskip\fi \@tocrmarg \
    \parindent #2\relax\@afterindenttrue
    \interlinepenalty\@M
    \leavevmode
    \@tempdima #3\relax
   \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\rightski
    {\coffeefont #4}\nobreak \nobreak\null
   \par}%
 \fi}
\def\@Undottedtoclinep#1#2#3#4#5{%
 \ifnum #1>\c@tocdepth\relax \else
  \vskip \z@ \@plus.2\p@
 {\if@RTL\rightskip\else\leftskip\fi #2\relax \if@RTL\leftskip\else\rightskip\fi \@tocrmarg \
    \parindent #2\relax\@afterindenttrue
    \interlinepenalty\@M
    \leavevmode
    \@tempdima #3\relax
   \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\rightski
    {#4}\nobreak \hfill \nobreak\null
    \hb@xt@\@pnumwidth{{\hfil\normalfont \normalcolor #5}}%
   \par}%
 \fi}
```

7.82 multicol-xetex-bidi.def

```
\ProvidesFile{multicol-xetex-bidi.def}[2015/11/14 v0.7 bidi adaptations for multicol package for
\def\page@sofar{%
  \process@cols\mult@rightbox
      {\ifvoid\count@
         \setbox\count@\hbox to\hsize{}%
       \else
         \wd\count@\hsize
       \fi}%
  \count@\col@number \advance\count@\m@ne
  \mult@info\z@
   {Column spec: \the\full@width\space = indent
                 + columns + sep =\MessageBreak
      \the\multicol@leftmargin\space
      + \the\col@number\space
      x \the\hsize\space
      + \the\count@\space
      x \the\columnsep
    }%
\ifvmode\else\errmessage{Multicol Error}\fi
  \nointerlineskip
  \setbox\z@\hbox{p}\global\dimen\tw@\dp\z@
  \moveright\multicol@leftmargin
   \hbox to\full@width{%
      \bidi@multicol@align@columns
      \rlap{\phantom p}%
```

```
    }%
 \prevdepth\z@
 \kern-\dimen\tw@
 \ifdim\dimen\tw@ > \mc@gridwarn
   \PackageWarning{multicol}%
     {Very deep columns!\MessageBreak
      Grid alignment might be broken}%
 \fi
}
\def\LTR@column@boxes{%
    \process@cols\mult@gfirstbox{%
      \ifdim\dp\count@>\dimen\tw@
        \global\dimen\tw@\dp\count@ \fi
      \mc@col@status@write
      \box\count@
      \hss{\columnseprulecolor\vrule
             \@width\columnseprule}\hss}%
    \ifdim\dp\mult@rightbox>\dimen\tw@
      \global\dimen\tw@\dp\mult@rightbox \fi
    \mc@lastcol@status@write
    \box\mult@rightbox
}

\def\RTL@column@boxes{%
    \process@cols\mult@gfirstbox{%
      \hskip\hsize
      \hss{\columnseprulecolor\vrule
             \@width\columnseprule}\hss
    }%
    \hskip\hsize
    \process@cols\mult@gfirstbox{%
      \ifdim\dp\count@>\dimen\tw@
        \global\dimen\tw@\dp\count@ \fi
      \hskip-\hsize
      \mc@col@status@write
      \box\count@
      \hskip-\hsize
      \hskip-\columnsep
    }%
    \ifdim\dp\mult@rightbox>\dimen\tw@
      \global\dimen\tw@\dp\mult@rightbox \fi
    \hskip-\hsize
    \mc@lastcol@status@write
    \box\mult@rightbox
    \hskip-\hsize
    \hskip\full@width
 }
\newcommand\RTLmulticolcolumns
    {\let\bidi@multicol@align@columns
         \RTL@column@boxes}
```

```
\newcommand\LTRmulticolcolumns
    {\let\bidi@multicol@align@columns
      \LTR@column@boxes}
\newcommand\bidi@multicol@align@columns
    {\if@RTLmain\RTL@column@boxes\else\LTR@column@boxes\fi}
\def\multicols#1{\col@number#1\relax
  \ifnum\col@number<\tw@
     \PackageWarning{multicol}%
      {Using `\number\col@number'
       columns doesn't seem a good idea.^^J
       I therefore use two columns instead}%
     \col@number\tw@ \fi
  \ifnum\col@number>10
     \PackageError{multicol}%
      {Too many columns}%
      {Current implementation doesn't
       support more than 10 columns.%
       \MessageBreak
       I therefore use 10 columns instead}%
     \col@number10 \fi
     \ifx\@footnotetext\mult@footnotetext\else
       \let\orig@footnotetext\@footnotetext
       \let\@footnotetext\mult@footnotetext
     \fi
     \ifx\@LTRfootnotetext\mult@LTRfootnotetext\else
       \let\orig@LTRfootnotetext\@LTRfootnotetext
       \let\@LTRfootnotetext\mult@LTRfootnotetext
     \fi
     \ifx\@RTLfootnotetext\mult@RTLfootnotetext\else
       \let\orig@RTLfootnotetext\@RTLfootnotetext
       \let\@RTLfootnotetext\mult@RTLfootnotetext
     \fi
  \@ifnextchar[\mult@cols{\mult@cols[]}}
\long\def\mult@footnotetext#1{\begingroup
         \hsize\textwidth
         \columnwidth\textwidth
         \orig@footnotetext{#1}\endgroup}
\long\def\mult@LTRfootnotetext#1{\begingroup
         \hsize\textwidth
         \columnwidth\textwidth
         \orig@LTRfootnotetext{#1}\endgroup}
\long\def\mult@RTLfootnotetext#1{\begingroup
         \hsize\textwidth
         \columnwidth\textwidth
         \orig@RTLfootnotetext{#1}\endgroup}
\def\right@footnoterule{%
  \kern-3\p@
  \hbox to \textwidth{\hskip \dimexpr\textwidth-.4\columnwidth\relax \hrulefill }
  \kern2.6\p@}
\def\textwidth@footnoterule{\kern-3\p@
```

```
  \hrule \@width \textwidth \kern 2.6\p@}
```

7.83 multienum-xetex-bidi.def

```
\ProvidesFile{multienum-xetex-bidi.def}[2011/04/16 v0.1 bidi adaptations for multienum package 1
\renewcommand{\itemx}[1]{\parbox[t]%
{\labelwidth}{\hfill{\labelname}}\hskip\labelsep%
\parbox[t]{\remainx}{\bidi@raggedright #1}\par}%\smallskip
\renewcommand{\itemxx}[2]{\parbox[t]%
{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
\parbox[t]{.5\remainxx}{\bidi@raggedright #1}\hfill\parbox[t]%
{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
\parbox[t]{0.5\remainxx}{\bidi@raggedright #2}\smallskip}
\renewcommand{\itemxxx}[3]{\parbox[t]%
{\labelwidth}{\hfill{\labelname}}\hskip\labelsep%
\parbox[t]{.3333\remainxxx}{\bidi@raggedright #1}\hfill\parbox[t]%
{\labelwidth}{\hfill {\labelname}}\hskip\labelsep%
\parbox[t]{0.3333\remainxxx}{\bidi@raggedright #2}\hfill\parbox[t]%
{\labelwidth}{\hfill{\labelname}}\hskip\labelsep%
\parbox[t]{0.3333\remainxxx}{\bidi@raggedright #3}\par}%\smallskip
\renewcommand{\itemxxxx}[4]{\parbox[t]%
{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
\parbox[t]{.25\remainxxxx}{\bidi@raggedright #1}\hfill\parbox[t]%
{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
\parbox[t]{0.25\remainxxxx}{\bidi@raggedright #2}\hfill%
\parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
\parbox[t]{0.25\remainxxxx}{\bidi@raggedright #3}\hfill%
\parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
\parbox[t]{0.25\remainxxxx}{\bidi@raggedright #4}\smallskip}
\renewcommand{\itemxxxxx}[5]{\parbox[t]%
{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
\parbox[t]{0.2\remainxxxxx}{\bidi@raggedright #1}\hfill%
\parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
\parbox[t]{0.2\remainxxxxx}{\bidi@raggedright #2}\hfill%
\parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
\parbox[t]{0.2\remainxxxxx}{\bidi@raggedright #3}\hfill%
\parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
\parbox[t]{0.2\remainxxxxx}{\bidi@raggedright #4}\hfill%
\parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
\parbox[t]{0.2\remainxxxxx}{\bidi@raggedright #5}\smallskip}
\renewcommand{\itemxox}[2]{\parbox[t]%
{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
\parbox[t]{\remainxox}{\bidi@raggedright #1}\hfill%
\parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
\parbox[t]{0.3333\remainxxx}{\bidi@raggedright #2}\smallskip}
\renewcommand{\itemxxo}[2]{\parbox[t]%
{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
\parbox[t]{0.3333\remainxxx}{\bidi@raggedright #1}\hfill%
\parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
\parbox[t]{\remainxox}{\bidi@raggedright #2}\smallskip}
```

```
\renewcommand{\itemxoxx}[3]{\parbox[t]%
{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
\parbox[t]{\remainxoxx}{\bidi@raggedright #1}\hfill%
\parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
\parbox[t]{0.25\remainxxxx}{\bidi@raggedright #2}\hfill%
\parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
\parbox[t]{0.25\remainxxxx}{\bidi@raggedright #3}\smallskip}
\renewcommand{\itemxxox}[3]{\parbox[t]%
{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
\parbox[t]{.25\remainxxxx}{\bidi@raggedright #1}\hfill%
\parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
\parbox[t]{\remainxoxx}{\bidi@raggedright #2}\hfill%
\parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
\parbox[t]{0.25\remainxxxx}{\bidi@raggedright #3}\smallskip}
\renewcommand{\itemxxxo}[3]{\parbox[t]%
{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
\parbox[t]{.25\remainxxxx}{\bidi@raggedright #1}\hfill%
\parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
\parbox[t]{.25\remainxxxx}{\bidi@raggedright #2}\hfill%
\parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
\parbox[t]{\remainxoxx}{\bidi@raggedright #3}\smallskip}
```

7.84 natbib-xetex-bidi.def

```
\ProvidesFile{natbib-xetex-bidi.def}[2011/06/04 v0.1 bidi adaptations for natbib package for XeT
\renewenvironment{thebibliography}[1]{%
 \bibsection
 \parindent\z@
 \bibpreamble
 \bibfont
 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
 \list{\@biblabel{\the\c@NAT@ctr}}{\@bibsetup{#1}\global\c@NAT@ctr\z@}%
 \ifNAT@openbib
   \renewcommand\newblock{\par}%
 \else
   \renewcommand\newblock{\hskip .11em \@plus.33em \@minus.07em}%
 \fi
 \sloppy\clubpenalty4000\widowpenalty4000
 \sfcode`\.\@m
 \let\NAT@bibitem@first@sw\@firstoftwo
    \let\citeN\cite \let\shortcite\cite
    \let\citeasnoun\cite
}{%
 \bibitem@fin
 \bibpostamble
 \def\@noitemerr{%
  \PackageWarning{natbib}{Empty `thebibliography' environment}%
 }%
 \endlist
 \bibcleanup
```

```
}%
```

7.85 newfloat-xetex-bidi.def

```
\ProvidesFile{newfloat-xetex-bidi.def}[2013/05/22 v0.1 bidi adaptations for newfloat package for
\renewcommand*\newfloat@setwithin[2]{%
  \ifcsname c@chapter\endcsname
    \@removefromreset{#1}{chapter}%
  \fi
  \@removefromreset{#1}{section}%
  \edef\@tempa{#2}%
  \ifx\@tempa\@empty
    \def\@tempa{none}%
  \fi
  \def\@tempb{none}%
  \ifx\@tempa\@tempb
    \ifcsname c@chapter\endcsname
      \@chapterlistsgap@off{#1}%
    \fi
    \newfloat@@setwithin{#1}{}{}%
  \else
    \def\@tempb{chapter}%
    \ifx\@tempa\@tempb
      \@addtoreset{#1}{chapter}%
      \@chapterlistsgap@on{#1}%
    \newfloat@@setwithin{#1}{\ifnum\c@chapter>\z@ \thechapter\@SepMark\fi}{\theHchapter\@SepMa
    \else
      \def\@tempb{section}%
      \ifx\@tempa\@tempb
        \@addtoreset{#1}{section}%
        \ifcsname c@chapter\endcsname
          \@addtoreset{#1}{chapter}%
          \@chapterlistsgap@on{#1}%
       \newfloat@@setwithin{#1}{\thesection\@SepMark}{\theHsection\@SepMark}%
        \else
       \newfloat@@setwithin{#1}{\ifnum\c@section>\z@ \thesection\@SepMark\fi}{\theHsection\@Se
        \fi
      \else
        \newfloat@Error{Invalid value `#2' for option `within'}%
      \fi
    \fi
  \fi}
```

7.86 ntheorem-xetex-bidi.def

```
\ProvidesFile{ntheorem-xetex-bidi.def}[2012/05/01 v0.1 bidi adaptations for ntheorem package for
\gdef\@thm#1#2#3{%
  \if@thmmarks
    \stepcounter{end\InTheoType ctr}%
  \fi
  \renewcommand{\InTheoType}{#1}%
```

```
    \if@thmmarks
      \stepcounter{curr#1ctr}%
      \setcounter{end#1ctr}{0}%
    \fi
    \refstepcounter{#2}%
    \theorem@prework
    \thm@topsepadd \theorempostskipamount   % cf. latex.ltx: \@trivlist
    \ifvmode \advance\thm@topsepadd\partopsep\fi
    \trivlist
    \@topsep \theorempreskipamount
    \@topsepadd \thm@topsepadd        % used by \@endparenv
    \advance\linewidth -\theorem@indent
    \advance\@totalleftmargin \theorem@indent
  \if@RTL\parshape \@ne 0pt \linewidth\else  \parshape \@ne \@totalleftmargin \linewidth\fi
    \@ifnextchar[{\@ythm{#1}{#2}{#3}}{\@xthm{#1}{#2}{#3}}}
```

7.87 ntheorem-hyper-xetex-bidi.def

```
\ProvidesFile{ntheorem-hyper-xetex-bidi.def}[2012/05/01 v0.1 bidi adaptations for ntheorem-hype
\gdef\@thm#1#2#3{%
    \if@thmmarks
      \stepcounter{end\InTheoType ctr}%
    \fi
    \renewcommand{\InTheoType}{#1}%
    \if@thmmarks
      \stepcounter{curr#1ctr}%
      \setcounter{end#1ctr}{0}%
    \fi
    \refstepcounter{#2}%
    \thm@topsepadd \theorempostskipamount   % cf. latex.ltx: \@trivlist
    \ifvmode \advance\thm@topsepadd\partopsep\fi
    \trivlist
    \@topsep \theorempreskipamount
    \@topsepadd \thm@topsepadd        % used by \@endparenv
    \advance\linewidth -\theorem@indent
    \advance\@totalleftmargin \theorem@indent
  \if@RTL\parshape \@ne 0pt \linewidth\else  \parshape \@ne \@totalleftmargin \linewidth\fi
    \@ifnextchar[{\@ythm{#1}{#2}{#3}}{\@xthm{#1}{#2}{#3}}}
```

7.88 overpic-xetex-bidi.def

```
\ProvidesFile{overpic-xetex-bidi.def}[2015/12/07 v0.1 bidi adaptations for overpic package for X
\renewenvironment{overpic}[2][]{%
  \sbox{\z@}{\includegraphics[#1]{#2}}%
  \settodepth{\@tempcnta}{\usebox{\z@}}%
  \settoheight{\@tempcntb}{\usebox{\z@}}%
  \advance\@tempcntb\@tempcnta%
  \settowidth{\@tempcnta}{\usebox{\z@}}%
  \setlength{\@tempdima}{\unitlength}%
  \count@=\z@\Gin@gridfalse\setkeys{Gin}{#1}%
%
```

```
  \OVP@calc%
%
  \begin{picture}(\@tempcnta,\@tempcntb)%
    \if@RTL\else\put(0,0){\makebox(0,0)[bl]{\usebox{\z@}}}%
    \ifGin@grid%
      \put(0,0){\normalfont\fontsize\@viipt\@viiipt\selectfont%
        \grid(\@tempcnta,\@tempcntb)(\count@,\count@)[0,0]}%
    \fi\fi%
    % reset the graphics parameter
    \let\Gin@outer@scalex\relax
    \let\Gin@outer@scaley\relax
    \let\Gin@angle\relax
    \let\Gin@ewidth\Gin@exclamation
    \let\Gin@eheight\Gin@ewidth
    \def\Gin@scalex{1}
    \let\Gin@scaley\Gin@exclamation
}{%
    \if@RTL\ifGin@grid%
      \put(0,0){\normalfont\fontsize\@viipt\@viiipt\selectfont%
        \grid(\@tempcnta,\@tempcntb)(\count@,\count@)[0,0]}%
    \fi%
    \put(0,0){\makebox(0,0)[bl]{\usebox{\z@}}}\fi%
  \end{picture}%
}%
```

7.89 pdfpages-xetex-bidi.def

```
\ProvidesFile{pdfpages-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for pdfpages package for
\renewcommand*{\includepdf}[2][]{%
  \begingroup
  \@RTLfalse
  \let\AM@threadname\relax
  \AM@split@options{pdfpages}{#1}%
  \edef\AM@temp{{pdfpages}{\the\@temptokena}}%
  \expandafter\setkeys\AM@temp
  \ifthenelse{\boolean{AM@pkg@draft} \and \boolean{AM@survey}}{%
    \let\AM@currentdocname\relax
    \renewcommand\includegraphics[2][]{Survey in draft-mode}%
    \def\AM@pagecount{0}%
  }{%
    \AM@findfile{#2}%
    \if\AM@threadname\relax
      \def\AM@threadname{\AM@currentdocname}%
    \fi
  }%
  \ifAM@survey
    \def\AM@pagestemp{}%
    \@tempcnta=0
    \def\foo{%
      \@ifundefined{r@\AM@xrprefix pdfpages@page\the\@tempcnta}%
```

```
        {\let\foo\relax}
        {\expandafter\ifx\expandafter\\\AM@pagestemp\\
            \edef\AM@pagestemp{%
               \AM@pageref{\AM@xrprefix pdfpages@page\the\@tempcnta}}%
         \else
           \edef\AM@pagestemp{\AM@pagestemp,%
              \AM@pageref{\AM@xrprefix pdfpages@page\the\@tempcnta}}%
         \fi
         \advance\@tempcnta 1\relax
        }%
      \foo
    }%
    \foo
    \expandafter\ifx\expandafter\\\AM@pagestemp\\
      \def\AM@pagestemp{1}%
    \fi
  \fi
  \ifAM@output
    \expandafter\AM@readlist\expandafter{\AM@pagestemp}%
    \AM@output{#1}%
  \fi
  \AM@CheckAtEnd
  \endgroup
  \AM@ClearShipoutPicture
}
```

7.90 pgfcorescopes.code-xetex-bidi.def

```
\ProvidesFile{pgfcorescopes.code-xetex-bidi.def}[2015/11/14 v0.1 bidi adaptations for pgf packa
\def\pgfpicture{%
  \begingroup%
   \ifmmode\else\@RTLfalse\beginL\fi%
    \pgfpicturetrue%
    \global\advance\pgf@picture@serial@count by1\relax%
    \edef\pgfpictureid{pgfid\the\pgf@picture@serial@count}%
    \let\pgf@nodecallback=\pgfutil@gobble%
    \pgf@picmaxx=-16000pt\relax%
    \pgf@picminx=16000pt\relax%
    \pgf@picmaxy=-16000pt\relax%
    \pgf@picminy=16000pt\relax%
    \pgf@relevantforpicturesizetrue%
    \pgf@resetpathsizes%
    \pgfutil@ifnextchar\bgroup\pgf@oldpicture\pgf@picture}
\def\endpgfpicture{%
              \ifpgfrememberpicturepositiononpage%
                \hbox to0pt{\pgfsys@markposition{\pgfpictureid}}%
              \fi%
              % ok, now let's position the box
              \ifdim\pgf@picmaxx=-16000pt\relax%
                % empty picture. make size 0.
```

```
                \global\pgf@picmaxx=0pt\relax%
                \global\pgf@picminx=0pt\relax%
                \global\pgf@picmaxy=0pt\relax%
                \global\pgf@picminy=0pt\relax%
              \fi%
              % Shift baseline outside:
              \pgf@relevantforpicturesizefalse%
              \pgf@process{\pgf@baseline}%
              \xdef\pgf@shift@baseline{\the\pgf@y}%
              %
              \pgf@process{\pgf@trimleft}%
              \global\advance\pgf@x by-\pgf@picminx
              % prepare \hskip\pgf@trimleft@final.
              % note that \pgf@trimleft@final is also queried
              % by the pgf image externalization.
              \xdef\pgf@trimleft@final{-\the\pgf@x}%
              %
              \pgf@process{\pgf@trimright}%
              \global\advance\pgf@x by-\pgf@picmaxx
              % prepare \hskip\pgf@trimright@final.
              % note that \pgf@trimright@final is also queried
              % by the pgf image externalization.
              \xdef\pgf@trimright@final{\the\pgf@x}%
        %
        \pgf@remember@layerlist@globally
            \endgroup%
            \hss%
          \egroup%
      \pgf@restore@layerlist@from@global
          \pgf@insertlayers%
        \endgroup%
        \pgfsys@discardpath%
        \endgroup%
      \pgfsys@endscope%
    \pgfsys@endpicture%
    \endgroup%
    \hss
  \egroup%
  \pgfsys@typesetpicturebox\pgfpic%
  \ifmmode\else\endL\fi%
  \endgroup%
}
```

7.91 picinpar-xetex-bidi.def

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

```
   \else
    \hbox to\picwd{\if@RTL\beginR\fi\hfil\box\@tempboxa\hfil\if@RTL\endR\fi}
   \fi}
\def\endwindow{%
    \global\tcd=\tcdsav
    \egroup\vskip\parskip\parshape=0 % reset parshape; end \box\rawtext
    \vbadness=10000
    \splittopskip=0pt
%
% Typeset the lines above the window
%
\ifnum\tcd>0\setbox\holder=\vsplit\rawtext to \tcd\baselineskip
\tcn=\tcd
\loop\advance\tcn -1
\setbox\fslice=\vsplit\holder to\baselineskip
\prune\fslice\linewidth
\topheight=0pt
\ifnum\dp\fslice>\dp\wstrutbox
       \advance\topheight-\dp\fslice
       \advance\topheight\dp\wstrutbox
       \advance\topheight\ilg\fi
\hbox to\linewidth{\box\fslice}
\vskip-\topheight
\ifdim\ht\holder>0pt\repeat
\fi
%
% Now we build the boxes beside the window
%
\global\topheight=\tcl\baselineskip
\ifnum\cumpartcl>0\global\tcl=\cumtcl
      \global\topheight=\vpic
\fi
\ifnum\bl>0 \ifnum\br>0 \multiply\topheight by 2\fi\fi
\ifnum\bl>0\setbox\holder=\vsplit\rawtext to\topheight
\else\ifnum\br>0\setbox\holder=\vsplit\rawtext to\topheight\fi\fi
\tcn=\tcl \na=0 \nb=0
\ifnum\bl>0 \ifnum\br>0 \multiply\tcn by 2\fi\fi
\ifnum\bl>0\na=\tcn\ifnum\br>0\divide\na by 2\fi\fi
\ifnum\br>0\nb=\tcn\ifnum\bl>0\divide\nb by 2\fi\fi
\ifnum\na=0\ifnum\nb=0
      \setbox\waslice=\vbox to\vpic{\vss}
      \setbox\wbslice=\vbox to\vpic{\vss}
      \bl=1\br=1
      \vskip\ilg
\fi\fi
%
% both sides
%
\ifnum\na>0 \ifnum\nb>0
\loop\advance\nb -1
```

```
\advance\na -1
\if@RTL%
\setbox\bslice=\vsplit\holder to\baselineskip
\prune\bslice\rtside
\setbox\wbslice=\vbox{\unvbox\wbslice\hbox
to\rtside{\box\bslice\hfil}}
\setbox\aslice=\vsplit\holder to\baselineskip
\prune\aslice\lftside
\setbox\waslice=\vbox{\unvbox\waslice\hbox
to\lftside{\box\aslice\hfil}}
\else%
\setbox\aslice=\vsplit\holder to\baselineskip
\prune\aslice\lftside
\setbox\waslice=\vbox{\unvbox\waslice\hbox
to\lftside{\box\aslice\hfil}}
\setbox\bslice=\vsplit\holder to\baselineskip
\prune\bslice\rtside
\setbox\wbslice=\vbox{\unvbox\wbslice\hbox
to\rtside{\box\bslice\hfil}}
\fi%
\ifnum\nb>0\repeat
\fi\fi
%
% only text on the left side
%
\ifnum\na>0
    \loop\advance\na -1
    \setbox\aslice=\vsplit\holder to\baselineskip
    \prune\aslice\lftside
    \setbox\waslice=\vbox{\unvbox\waslice\hbox
    to\lftside{\box\aslice\hfil}}
    \ifdim\ht\holder>0pt\repeat
\fi
%
% only text on the right side
%
\ifnum\nb>0
    \loop\advance\nb -1
    \setbox\bslice=\vsplit\holder to\baselineskip
    \prune\bslice\rtside
    \setbox\wbslice=\vbox{\unvbox\wbslice\hbox
    to\rtside{\box\bslice\hfil}}
    \ifdim\ht\holder>0pt\repeat
\fi
%
% fixing the dimensions of the window part
%
\ifnum\bl=0\topheight=\ht\wbslice
\else\ifnum\br=0\topheight=\ht\waslice
      \else\ifdim\ht\waslice>\ht\wbslice\topheight=\ht\waslice
```

```
            \else\topheight=\ht\wbslice\fi\fi\fi
%
% ship out the window material to the main vertical list
%
\ifnum\bl>0 \ifnum\br>0 \ifdim\ht\wbslice<\topheight
\setbox\wbslice=\vbox to\topheight{\box\wbslice\vfill}
\fi\fi\fi
\setbox\windowbox=\vbox{\hbox to\linewidth{%
\ifnum\bl>0\box\waslice\hfill\fi%
\vbox to\topheight{\hrule width\picwd height0pt depth0pt\vskip0pt%
\vfill\unvbox\picbox%
\ifnum\picwd>0\vfill\fi%
\vss}\ifnum\br>0\hfill\vbox{\box\wbslice}\fi}}%
\unvbox\windowbox%
\loop
 \setbox\bslice=\vsplit\rawtext to\baselineskip
 \prune\bslice\linewidth
 \setbox\wbslice=\vbox{\hbox to\linewidth{\box\bslice\hfil}}
 \unvbox\wbslice
 \ifdim\ht\rawtext>0pt
\repeat
}% FINITO
```

7.92 plain-xetex-bidi.def

```
\def\TeXXeTOn{\TeXXeTstate=1 }
\def\TeXXeTOff{\TeXXeTstate=0 }
\TeXXeTOn
\def\usebox#1{\leavevmode\copy #1\relax}
\def\bidi@RTL@everypar{{\setbox\z@\lastbox\if@RTL\beginR\else\beginL\fi\ifvoid\z@\else\usebox
   \let\bidi@o@everypar=\everypar
   \newtoks\bidi@n@everypar
   \bidi@n@everypar\expandafter{\the\bidi@o@everypar}
   \bidi@o@everypar{\bidi@RTL@everypar\the\bidi@n@everypar}
   \let\everypar=\bidi@n@everypar
\def\moreLRE{\bracetext \aftergroup\endL \beginL\@RTLfalse}
\def\moreRLE{\bracetext \aftergroup\endR \beginR\@RTLtrue}
\protected\def\hboxR{\hbox\bgroup
 \everyhbox{%
  \aftergroup\egroup
  \everyhbox{}%
  \beginR
  \bgroup
  \aftergroup\endR
  \aftergroup\egroup
 }\hbox}
\protected\def\hboxL{\hbox\bgroup
 \everyhbox{%
  \aftergroup\egroup
  \everyhbox{}%
```

```
  \beginL
  \bgroup
  \aftergroup\endL
  \aftergroup\egroup
 }\hbox}
\protected\def\vboxR{\vbox\bgroup
 \everyvbox{%
  \aftergroup\egroup
  \everyvbox{}%
  \@RTLtrue
  \bgroup
  \aftergroup\egroup
 }\vbox}
\protected\def\vboxL{\vbox\bgroup
 \everyvbox{%
  \aftergroup\egroup
  \everyvbox{}%
  \@RTLfalse
  \bgroup
  \aftergroup\egroup
 }\vbox}
\def\LTR{\par\@RTLfalse\@RTL@footnotefalse\hsize\linewidth\parshape\z@}
\def\endLTR{\par}
\def\RTL{\par\@RTLtrue\@RTL@footnotetrue\hsize\linewidth\parshape\z@}
\def\endRTL{\par}
\def\setRTL{\@RTLtrue\@RTL@footnotetrue}
\def\setLTR{\@RTLfalse\@RTL@footnotefalse}
\let\unsetRTL=\setLTR
\let\unsetLTR=\setRTL
\let\LR=\LRE
\let\RL=\RLE
\def\@ensure@RTL#1{\if@RTL#1\else\RLE{#1}\fi}
\def\@ensure@LTR#1{\if@RTL\LRE{#1}\else#1\fi}
\let\@ensure@RL=\@ensure@RTL
\let\@ensure@LR=\@ensure@LTR
\def\@ensure@dir#1{\if@RTL\RLE{#1}\else{#1}\fi}
\let\@ensure@maindir=\@ensure@dir
\def\@@RTL{RTL}
\def\@@LTR{LTR}
\def\save@dir{\if@RTL\gdef\saved@@dir{RTL}\else\gdef\saved@@dir{LTR}\fi}
\def\reset@dir{\ifx\saved@@dir\@@RTL\setRTL\else\ifx\saved@@dir\@@LTR\setLTR\else\relax\fi\fi
\let\@@TeX\TeX
\def\TeX{\@ensure@LTR{\@@TeX}}
\long\def\bidi@reflect@box#1{%
  \leavevmode
  \setbox\z@\hbox{{#1}}%
  \setbox\tw@\hbox{\special{x:gsave}\special{x:scale -1 1}\rlap{\copy\z@}\special{x:grestore}}%
  \hbox to \wd\z@{\kern\wd\z@\box\tw@\hss}%
}
\def\XeTeX{\LR{\leavevmode$\smash{\hbox{X\lower.5ex
```

```
  \hbox{\kern-.125em\bidi@reflect@box{E}}\kern-.1667em \TeX}}$}}
\let\setRL=\setRTL
\let\setLR=\setLTR
\let\unsetRL=\setLTR
\let\bidi@saved@eqno=\eqno
\let\bidi@saved@leqno=\leqno
\def\eqno{\ifnum\predisplaydirection<\z@ \bidi@saved@leqno \else \bidi@saved@eqno \fi}
\def\leqno{\ifnum\predisplaydirection<\z@ \bidi@saved@eqno \else \bidi@saved@leqno \fi}
\def\centerline#1{\line{\hss\if@RTL\beginR\fi#1\if@RTL\endR\fi\hss}}
\def\leftline#1{\line{\if@RTL\beginR\fi#1\if@RTL\endR\fi\hss}}
\def\rightline#1{\line{\hss\if@RTL\beginR\fi#1\if@RTL\endR\fi}}
```

7.93 pstricks-xetex-bidi.def

```
\ProvidesFile{pstricks-xetex-bidi.def}[2015/11/18 v0.5 bidi adaptations for pstricks package for
\def\pspicture{\begingroup\ifmmode\else\@RTLfalse\beginL\fi\pst@ifstar\pst@picture}
\def\endpspicture{%
  \ifshowgrid\ifnum\showgridp@s>0
   \psgrid[xunit=\sh@wgridXunit,yunit=\sh@wgridYunit,style=gridstyle]\fi\fi%
  \pst@killglue
%  \global\pst@shift=\pst@shift% in fact of the following endgroup
  \endgroup
  \egroup
  \ifdim\wd\pst@hbox=\z@\else
    %\@pstrickserr{Extraneous space in the pspicture environment}%
    %{Type \space <return> \space to proceed.}%
  \fi
  \ht\pst@hbox=\pst@dimd
  \dp\pst@hbox=-\pst@dimb
  \setbox\pst@hbox=\hbox{%
    \kern-\pst@dima
% Orig version ----------
%\ifx\pst@tempa\@empty\else
%\advance\pst@dimd-\pst@dimb
%\pst@dimd=\pst@tempa\pst@dimd
%\advance\pst@dimd\pst@dimb
%\lower\pst@dimd
%\fi
%----- end Orig
   \ifPst@shift@star%\typeout{==pstricks== old behaviour of the shift option}%    shift=*
      \advance\pst@dimd-\pst@dimb
      \pst@dimd=0.5\pst@dimd
    \else\pst@dimd-\pst@shift\fi
    \advance\pst@dimd\pst@dimb
    \lower\pst@dimd
    \box\pst@hbox
    \kern\pst@dimc}%
  \if@star\setbox\pst@hbox=\hbox{\clipbox@@\z@}\fi
  \leavevmode\ifdim\overfullrule=\z@\box\pst@hbox\else
  \fboxsep=0pt
```

```
  \fbox{\rule[-\pst@shift]{0pt}{\ht\pst@hbox}\rule{\wd\pst@hbox}{0pt}}\fi
  \ifmmode\else\endL\fi
  \endgroup%
  \psset[pstricks]{shift=0}% reset value
}
```

7.94 quotchap-xetex-bidi.def

```
\ProvidesFile{quotchap-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for quotchap package for
\renewcommand{\qauthor}[1]{%
  \par\smallskip
 {\if@RTL\raggedright\else\raggedleft\fi\upshape #1\qquad\hbox{}\par}\bigskip}
\renewcommand{\@makechapterhead}[1]{\chapterheadstartvskip%
  {\size@chapter{\sectfont\if@RTL\raggedright\else\raggedleft\fi
      {\chapnumfont
        \ifnum \c@secnumdepth >\m@ne%
        \if@mainmatter\thechapter%
        \fi\fi
        \par\nobreak}%
    {\if@RTL\raggedright\else\raggedleft\fi\advance\if@RTL\rightmargin\else\leftmargin\fi10em
    \nobreak\chapterheadendvskip}}
\renewcommand*{\@iprintcites}{%
  \vbox to\z@{\leavevmode\copy\@quotebox\vss}
  \global\let\@printcites\relax}
```

7.95 ragged2e-xetex-bidi.def

```
\ProvidesFile{ragged2e-xetex-bidi.def}[2010/07/25 v0.2 bidi adaptations for ragged2e package for
\renewcommand{\Centering}{%
   \ifx\\\@raggedtwoe@savedcr
      \let\\\@centercr
   \fi
   \let\@gnewline\@raggedtwoe@gnewline
   \if@RTL\rightskip\else\leftskip\fi\CenteringLeftskip
   \@rightskip\CenteringRightskip
   \if@RTL\leftskip\else\rightskip\fi\@rightskip
   \parfillskip\CenteringParfillskip
   \parindent\CenteringParindent
   \@raggedtwoe@spaceskiptrue
   \@raggedtwoe@everyselectfont
   }
\renewcommand{\RaggedLeft}{%
   \ifx\\\@raggedtwoe@savedcr
      \let\\\@centercr
   \fi
   \let\@gnewline\@raggedtwoe@gnewline
   \if@RTL\rightskip\else\leftskip\fi\RaggedLeftLeftskip
   \@rightskip\RaggedLeftRightskip
   \if@RTL\leftskip\else\rightskip\fi\@rightskip
   \parfillskip\RaggedLeftParfillskip
   \parindent\RaggedLeftParindent
```

```
    \@raggedtwoe@spaceskiptrue
    \@raggedtwoe@everyselectfont
    }
\renewcommand{\RaggedRight}{%
    \ifx\\\@raggedtwoe@savedcr
       \let\\\@centercr
    \fi
    \let\@gnewline\@raggedtwoe@gnewline
    \if@RTL\rightskip\else\leftskip\fi\RaggedRightLeftskip
    \@rightskip\RaggedRightRightskip
    \if@RTL\leftskip\else\rightskip\fi\@rightskip
    \parfillskip\RaggedRightParfillskip
    \parindent\RaggedRightParindent
    \@raggedtwoe@spaceskiptrue
    \@raggedtwoe@everyselectfont
    }
\renewcommand{\justifying}{%
    \let\\\@raggedtwoe@savedcr
    \let\@gnewline\@raggedtwoe@saved@gnewline
    \if@RTL\rightskip\else\leftskip\fi\z@
    \@rightskip\z@
    \if@RTL\leftskip\else\rightskip\fi\@rightskip
    \parfillskip\JustifyingParfillskip
    \parindent\JustifyingParindent
    \@raggedtwoe@spaceskipfalse
    \@raggedtwoe@everyselectfont
    }
\renewcommand*{\@raggedtwoe@raggedrightboxes@opt}{
  \CheckCommand*{\@arrayparboxrestore}{%
    \let\if@nobreak\iffalse
    \let\if@noskipsec\iffalse
    \let\par\@@par
    \let\-\@dischyph
    \let\'\@acci\let\`\@accii\let\=\@acciii
    \parindent\z@ \parskip\z@skip
    \everypar{}%
    \linewidth\hsize
    \@totalleftmargin\z@
   \if@RTL\rightskip\else\leftskip\fi\z@skip \if@RTL\leftskip\else\rightskip\fi\z@skip \@right
    \parfillskip\@flushglue \lineskip\normallineskip
    \baselineskip\normalbaselineskip
    \sloppy}%
  \renewcommand{\@arrayparboxrestore}{%
    \let\if@nobreak\iffalse
    \let\if@noskipsec\iffalse
    \let\par\@@par
    \let\-\@dischyph
    \let\'\@acci\let\`\@accii\let\=\@acciii
    \parskip\z@skip
    \everypar{}%
```

```
    \linewidth\hsize
    \@totalleftmargin\z@
    \RaggedRight
    \lineskip\normallineskip
    \baselineskip\normalbaselineskip
    \sloppy}%
  \let\@raggedtwoe@raggedrightboxes@opt\relax
  }
\let\origin@RaggedLeft=\RaggedLeft
\let\origin@RaggedRight=\RaggedRight
\def\RaggedLeft{\if@RTL\origin@RaggedRight\else\origin@RaggedLeft\fi}
\def\RaggedRight{\if@RTL\origin@RaggedLeft\else\origin@RaggedRight\fi}
```

7.96 rapport1-xetex-bidi.def

```
\ProvidesFile{rapport1-xetex-bidi.def}[2015/11/14 v0.3 bidi adaptations for rapport1 class for X
\renewenvironment{theindex}{%
  \if@twocolumn
    \@restonecolfalse
  \else
    \@restonecoltrue
  \fi
  \columnseprule \z@
  \columnsep 35\p@
  \twocolumn[\@makeschapterhead{\indexname}]%
  \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
  \thispagestyle{plain}\parindent\z@
  \parskip\z@ \@plus .3\p@\relax
  \let\item\@idxitem
  }{%
  \if@restonecol\onecolumn\else\clearpage\fi}
\renewcommand*\head@style{%
    \interlinepenalty \@M
    \hyphenpenalty=\@M \exhyphenpenalty=\@M
    \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
\if@titlepage
  \renewenvironment{abstract}{%
      \titlepage
      \null\vfil
      \section*{\SectFont\abstractname}%
      \noindent\ignorespaces}
     {\par\vfil\null\endtitlepage}
\else
  \renewenvironment{abstract}{%
      \if@twocolumn
        \section*{\abstractname}%
      \else
        \bgroup\if@RTL\leftskip\else\rightskip\fi=\unitindent
        \section*{\small\SectFont\abstractname}%
        \noindent\ignorespaces
```

```
      \fi}
      {\if@twocolumn\else\par\egroup\fi}
\fi
\renewcommand*\@regtocline[3]{%
  \ifnum #1>\c@tocdepth
  \else
    \vskip\z@\@plus.2\p@
    {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
     \if@RTL\rightskip\else\leftskip\fi\unitindent
     \if@RTL\leftskip\else\rightskip\fi\unitindent\@plus 1fil
     \parfillskip\z@
     \@tempdima\unitindent
     \parindent\z@
     \leavevmode
     \hbox{}\hskip -\if@RTL\rightskip\else\leftskip\fi\relax#2\nobreak
     \hskip 1em \nobreak{\slshape #3}\par
     }%
  \fi}
\if@oldtoc
\renewcommand*\l@part[2]{%
  \ifnum \c@tocdepth >-2\relax
    \addpenalty{-\@highpenalty}%
    \addvspace{2.25em \@plus\p@}%
    \begingroup
      \setlength\@tempdima{3em}%
      \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
      \parfillskip -\@pnumwidth
      {\leavevmode
        \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
        \nobreak
        \global\@nobreaktrue
        \everypar{\global\@nobreakfalse\everypar{}}%
    \endgroup
  \fi}
\else
   \renewcommand*\l@part{%
     \ifnum \c@tocdepth >-2\relax
     \addpenalty{-\@highpenalty}%
     \addvspace{2.25em \@plus \p@}%
     \@regtocline{0}%
   \fi}
\fi
\if@oldtoc
\renewcommand*\l@chapter[2]{%
    \addpenalty{-\@highpenalty}%
    \vskip 1.0em \@plus\p@
    \setlength\@tempdima{1.5em}%
    \begingroup
    \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
    \parfillskip -\@pnumwidth
```

```
    \leavevmode \bfseries
    \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
    \hskip -\if@RTL\rightskip\else\leftskip\fi
    #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
    \penalty\@highpenalty
   \endgroup}
\else
  \renewcommand*\l@chapter{\@regtocline{0}}
\fi
\renewcommand*\left@footnoterule{%
  \kern-3\p@
  \kern.5\baselineskip
  \hrule\@width\unitindent
  \kern.4\baselineskip
}
\renewcommand*\right@footnoterule{%
  \kern-3\p@
  \kern.5\baselineskip
  \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
  \kern.4\baselineskip}
\renewenvironment{thebibliography}[1]
     {\chapter*{\bibname}%
       \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
    \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
      \list{\@biblabel{\@arabic\c@enumiv}}%
           {\settowidth\labelwidth{\@biblabel{#1}}%
            \leftmargin\labelwidth
            \advance\leftmargin\labelsep
            \@openbib@code
            \usecounter{enumiv}%
            \let\p@enumiv\@empty
            \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
      \sloppy\clubpenalty4000\widowpenalty4000%
      \sfcode`\.\@m}
     {\def\@noitemerr
       {\@latex@warning{Empty `thebibliography' environment}}%
      \endlist}
\renewcommand*\thesection{\thechapter\@SepMark\@arabic\c@section}
\renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
\renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
\renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
\renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
\renewcommand*\theequation{%
  \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@equation}
\renewcommand*\thefigure{%
  \ifnum\c@chapter>\z@\thechapter\@SepMark\fi\@arabic\c@figure}
\renewcommand*\thetable{%
  \ifnum\c@chapter>\z@\thechapter\@SepMark\fi\@arabic\c@table}
\if@titlepage
\renewcommand*\TitleFont{\rmfamily}
```

```
\renewcommand*\maketitle{%
  \begin{titlepage}%
    \let\footnotesize\small
    \let\right@footnoterule\relax
    \let\left@footnoterule\relax
    \let\textwidth@footnoterule\relax
    \let \footnote \thanks
    \long\def\@makefntext##1{\parindent\z@
         \def\labelitemi{\textendash}\@revlabeltrue
         \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
    \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
    \if@compatibility\setcounter{page}{0}\fi
    \null\vfil
    \vskip 60\p@
    \begin{center}%
      \TitleFont
      {\LARGE \def\\{\penalty -\@M}
        \if@allcaps
          \expandafter\uc@nothanks\@title\thanks\relax
        \else
          \@title
        \fi\par}%
      \vskip 3em%
      {\large
        \lineskip .75em \parindent\z@
        \begin{tabular}[t]{c}%
          \if@allcaps
            \expandafter\uc@authornothanks\@author\and\relax
          \else
            \@author
          \fi
        \end{tabular}\par}%
      \vskip 1.5em%
      {\large
        \if@allcaps
          \uppercase\expandafter{\@date}%
        \else
          \@date
        \fi\par}%
      \end{center}\par
    \@thanks
    \vfil\null
  \end{titlepage}%
  \setcounter{footnote}{0}%
  \global\let\thanks\relax
  \global\let\maketitle\relax
  \global\let\@thanks\@empty
  \global\let\@author\@empty
  \global\let\@title\@empty
  \global\let\@date\@empty
```

```
  \global\let\title\relax
  \global\let\author\relax
  \global\let\date\relax
  \global\let\and\relax
}
\def\uc@nothanks#1\thanks{\uppercase{#1}\futurelet\@tempa\uc@tx}
\def\uc@authornothanks#1\and{\uc@nothanks#1\thanks\relax
    \futurelet\@tempa\uc@ax}
\def\uc@ax{%
  \ifx\@tempa\relax
  \else
    \\ \andname \\ \expandafter\uc@authornothanks
  \fi}
\def\uc@tx{\ifx\@tempa\relax
    \else \expandafter\uc@ty \fi}
\def\uc@ty#1{\thanks{#1}\uc@nothanks}
\else
\renewcommand*\maketitle{\par
  \begingroup
    \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
    \def\@makefnmark{\rlap{%
      \@textsuperscript{\normalfont\@thefnmark}}}%
    \long\def\@makefntext{\@xmakefntext{%
      \@textsuperscript{\normalfont\@thefnmark}}}%
    \if@twocolumn
      \ifnum \col@number=\@ne
        \@maketitle
      \else
        \twocolumn[\@maketitle]%
      \fi
    \else
      \newpage
      \global\@topnum\z@
      \@maketitle
    \fi
    \thispagestyle{plain}\@thanks
  \endgroup
  \setcounter{footnote}{0}%
  \global\let\thanks\relax
  \global\let\maketitle\relax
  \global\let\@maketitle\relax
  \global\let\@thanks\@empty
  \global\let\@author\@empty
  \global\let\@title\@empty
  \global\let\@date\@empty
  \global\let\title\relax
  \global\let\author\relax
  \global\let\date\relax
  \global\let\and\relax
  }
```

```
\def\@maketitle{%
  \newpage
  \null
  \vskip 2em%
  \begin{center}%
    \let \footnote \thanks
    {\LARGE \TitleFont \@title \par}%
    \vskip 1.5em%
    {\large \TitleFont
      \lineskip .5em%
      \begin{tabular}[t]{c}%
        \@author
      \end{tabular}\par}%
    \vskip 1em%
    {\large \TitleFont \@date}%
  \end{center}%
  \par
  \vskip 1.5em}
\fi
```

7.97 rapport3-xetex-bidi.def

```
\ProvidesFile{rapport3-xetex-bidi.def}[2015/11/14 v0.5 bidi adaptations for rapport3 class for X
\renewenvironment{theindex}{%
  \if@twocolumn
    \@restonecolfalse
  \else
    \@restonecoltrue
  \fi
  \columnseprule \z@
  \columnsep 35\p@
  \twocolumn[\@makeschapterhead{\indexname}]%
  \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
  \thispagestyle{plain}\parindent\z@
  \parskip\z@ \@plus .3\p@\relax
  \let\item\@idxitem
  }{%
  \if@restonecol\onecolumn\else\clearpage\fi}
\if@titlepage
\renewcommand*\TitleFont{\rmfamily}
\renewcommand*\maketitle{%
  \begin{titlepage}%
    \let\footnotesize\small
    \let\right@footnoterule\relax
    \let\left@footnoterule\relax
    \let\textwidth@footnoterule\relax
    \let \footnote \thanks
    \let \LTRfootnote \LTRthanks
    \let \RTLfootnote \RTLthanks
    \long\def\@makefntext##1{\parindent\z@
```

```
        \def\labelitemi{\textendash}\@revlabeltrue
        \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
  \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
  \if@compatibility\setcounter{page}{0}\fi
  \null\vfil
  \vskip 60\p@
  \begin{center}%
    \TitleFont
    {\LARGE \def\\{\penalty -\@M}
      \if@allcaps
        \expandafter\uc@nothanks\@title\thanks\relax
      \else
        \@title
      \fi\par}%
    \vskip 3em%
    {\large
      \lineskip .75em \parindent\z@
      \begin{tabular}[t]{c}%
        \if@allcaps
          \expandafter\uc@authornothanks\@author\and\relax
        \else
          \@author
        \fi
      \end{tabular}\par}%
    \vskip 1.5em%
    {\large
      \if@allcaps
        \uppercase\expandafter{\@date}%
      \else
        \@date
      \fi\par}%
    \end{center}\par
  \@thanks
  \vfil\null
\end{titlepage}%
\setcounter{footnote}{0}%
\global\let\thanks\relax
\global\let\LTRthanks\relax
\global\let\RTLthanks\relax
\global\let\maketitle\relax
\global\let\@thanks\@empty
\global\let\@author\@empty
\global\let\@title\@empty
\global\let\@date\@empty
\global\let\title\relax
\global\let\author\relax
\global\let\date\relax
\global\let\and\relax
}
\def\uc@nothanks#1\thanks{\uppercase{#1}\futurelet\@tempa\uc@tx}
```

```
\def\uc@authornothanks#1\and{\uc@nothanks#1\thanks\relax
    \futurelet\@tempa\uc@ax}
\def\uc@ax{%
  \ifx\@tempa\relax
  \else
    \\ \andname \\ \expandafter\uc@authornothanks
  \fi}
\def\uc@tx{\ifx\@tempa\relax
    \else \expandafter\uc@ty \fi}
\def\uc@ty#1{\thanks{#1}\uc@nothanks}
\else
\renewcommand*\maketitle{\par
  \begingroup
    \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
    \def\@makefnmark{\rlap{%
      \@textsuperscript{\normalfont\@thefnmark}}}%
    \long\def\@makefntext{\@xmakefntext{%
      \@textsuperscript{\normalfont\@thefnmark}}}%
    \if@twocolumn
      \ifnum \col@number=\@ne
        \@maketitle
      \else
        \twocolumn[\@maketitle]%
      \fi
    \else
      \newpage
      \global\@topnum\z@
      \@maketitle
    \fi
    \thispagestyle{plain}\@thanks
  \endgroup
  \setcounter{footnote}{0}%
  \global\let\thanks\relax
  \global\let\LTRthanks\relax
  \global\let\RTLthanks\relax
  \global\let\maketitle\relax
  \global\let\@maketitle\relax
  \global\let\@thanks\@empty
  \global\let\@author\@empty
  \global\let\@title\@empty
  \global\let\@date\@empty
  \global\let\title\relax
  \global\let\author\relax
  \global\let\date\relax
  \global\let\and\relax
  }
\def\@maketitle{%
  \newpage
  \null
  \vskip 2em%
```

```
\if@titlecentered
  \begin{center}%
    \let \footnote \thanks
    \let \LTRfootnote \LTRthanks
    \let \RTLfootnote \RTLthanks
    {\LARGE \TitleFont \@title \par}%
    \vskip 1.5em%
    {\large \TitleFont
      \lineskip .5em%
      \begin{tabular}[t]{c}%
        \@author
      \end{tabular}\par}%
    \vskip 1em%
    {\large \TitleFont \@date}%
  \end{center}%
 \else
     {\LARGE \TitleFont \head@style \@title \par} \vskip 1.5em
     {\large \TitleFont \lineskip .5em \tabcolsep\z@
              \def\and{%%% \begin{tabular} has already started
                       \end{tabular}\hskip 1em plus .17fil
                \if@RTL\begin{tabular}[t]{r}\else\begin{tabular}[t]{l}\fi}%% \end{tabular} will
          \if@RTL\begin{tabular}[t]{r}\else\begin{tabular}[t]{l}\fi\@author\end{tabular}\par}
     \vskip 1em {\large \TitleFont \@date}
 \fi
  \par
  \vskip 1.5em}
\fi
\renewcommand*\@regtocline[3]{%
  \ifnum #1>\c@tocdepth
  \else
    \vskip\z@\@plus.2\p@
    {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
     \if@RTL\rightskip\else\leftskip\fi\unitindent
     \if@RTL\leftskip\else\rightskip\fi\unitindent\@plus 1fil
     \parfillskip\z@
     \@tempdima\unitindent
     \parindent\z@
     \leavevmode
     \hbox{}\hskip -\if@RTL\rightskip\else\leftskip\fi\relax#2\nobreak
     \hskip 1em \nobreak{\slshape #3}\par
     }%
  \fi}
\if@oldtoc
\renewcommand*\l@part[2]{%
  \ifnum \c@tocdepth >-2\relax
    \addpenalty{-\@highpenalty}%
    \addvspace{2.25em \@plus\p@}%
    \begingroup
      \setlength\@tempdima{3em}%
      \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
```

```
      \parfillskip -\@pnumwidth
      {\leavevmode
        \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
        \nobreak
        \global\@nobreaktrue
        \everypar{\global\@nobreakfalse\everypar{}}%
    \endgroup
  \fi}
\else
   \renewcommand*\l@part{%
     \ifnum \c@tocdepth >-2\relax
     \addpenalty{-\@highpenalty}%
     \addvspace{2.25em \@plus \p@}%
     \@regtocline{0}%
   \fi}
\fi
\if@oldtoc
\renewcommand*\l@chapter[2]{%
    \addpenalty{-\@highpenalty}%
    \vskip 1.0em \@plus\p@
    \setlength\@tempdima{1.5em}%
    \begingroup
    \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
    \parfillskip -\@pnumwidth
    \leavevmode \bfseries
    \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
    \hskip -\if@RTL\rightskip\else\leftskip\fi
    #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
    \penalty\@highpenalty
   \endgroup}
\else
  \renewcommand*\l@chapter{\@regtocline{0}}
\fi
\renewcommand*\head@style{%
    \interlinepenalty \@M
    \hyphenpenalty=\@M \exhyphenpenalty=\@M
    \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
\if@titlepage
  \renewenvironment{abstract}{%
      \titlepage
      \null\vfil
      \section*{\SectFont\abstractname}%
      \noindent\ignorespaces}
     {\par\vfil\null\endtitlepage}
\else
  \renewenvironment{abstract}{%
      \if@twocolumn
        \section*{\abstractname}%
      \else
        \bgroup\if@RTL\leftskip\else\rightskip\fi=\unitindent
```

```
        \section*{\small\SectFont\abstractname}%
        \noindent\ignorespaces
      \fi}
      {\if@twocolumn\else\par\egroup\fi}
\fi
\renewcommand*\thesection{\thechapter\@SepMark\@arabic\c@section}
\renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
\renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
\renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
\renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
\renewcommand*\thefigure{%
  \ifnum\c@chapter>\z@\thechapter\@SepMark\fi\@arabic\c@figure}
\renewcommand*\thetable{%
  \ifnum\c@chapter>\z@\thechapter\@SepMark\fi\@arabic\c@table}
\renewcommand*\theequation{%
  \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@equation}
\renewenvironment{thebibliography}[1]
     {\chapter*{\bibname}%
       \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
    \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
      \list{\@biblabel{\@arabic\c@enumiv}}%
           {\settowidth\labelwidth{\@biblabel{#1}}%
            \leftmargin\labelwidth
            \advance\leftmargin\labelsep
            \@openbib@code
            \usecounter{enumiv}%
            \let\p@enumiv\@empty
            \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
      \sloppy\clubpenalty4000\widowpenalty4000%
      \sfcode`\.\@m}
     {\def\@noitemerr
       {\@latex@warning{Empty `thebibliography' environment}}%
      \endlist}
\renewcommand*\left@footnoterule{%
  \kern-3\p@
  \kern.5\baselineskip
  \hrule\@width\unitindent
  \kern.4\baselineskip
}
\renewcommand*\right@footnoterule{%
  \kern-3\p@
  \kern.5\baselineskip
  \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
  \kern.4\baselineskip}
\renewcommand*\head@style{%
    \interlinepenalty \@M
    \hyphenpenalty=\@M \exhyphenpenalty=\@M
    \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
```

7.98 refrep-xetex-bidi.def

```
\ProvidesFile{refrep-xetex-bidi.def}[2015/11/14 v0.4 bidi adaptations for refrep class for XeTeX
\if@titlepage
  \renewcommand\maketitle{\begin{titlepage}%
  \let\footnotesize\small
  \let\right@footnoterule\relax
  \let\left@footnoterule\relax
  \let\textwidth@footnoterule\relax
  \let\footnote\thanks
  \let\LTRfootnote\LTRthanks
  \let\RTLfootnote\RTLthanks
  \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
  \def\@makefnmark%
      {\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
  \long\def\@makefntext##1{%
       \@setpar{\@@par
          \@tempdima = \hsize
          \advance\@tempdima -1em
          \parshape \@ne 1em \@tempdima}%
       \par\parindent 1em \noindent
       \hb@xt@\z@{\hss\@textsuperscript{\normalfont\@thefnmark}\,}##1}
  \null\vfil
  \vskip 60\p@
  \begin{center}%
    {\LARGE \@title \par}%
    \vskip 3em%
    {\large
     \lineskip .75em%
      \begin{tabular}[t]{c}%
        \@author
      \end{tabular}\par}%
      \vskip 1.5em%
    {\large \@date \par}%       % Set date in \large size.
  \end{center}\par
  \@thanks
  \vfil\null
  \end{titlepage}%
  \setcounter{footnote}{0}%
  \global\let\thanks\relax
  \global\let\LTRthanks\relax
  \global\let\RTLthanks\relax
  \global\let\maketitle\relax
  \global\let\@thanks\@empty
  \global\let\@author\@empty
  \global\let\@date\@empty
  \global\let\@title\@empty
  \global\let\title\relax
  \global\let\author\relax
  \global\let\date\relax
```

```
  \global\let\and\relax
  }
\else
  \renewcommand\maketitle{\par
    \begingroup
      \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
      \def\@makefnmark%
          {\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
      \long\def\@makefntext##1{%
         \@setpar{\@@par
            \@tempdima = \hsize
            \advance\@tempdima -1em
            \parshape \@ne 1em \@tempdima}%
         \par\parindent 1em \noindent
        \hb@xt@\z@{\hss\@textsuperscript{\normalfont\@thefnmark}\,}##1}
      \if@twocolumn
        \ifnum \col@number=\@ne
          \@maketitle
        \else
          \twocolumn[\@maketitle]%
        \fi
      \else
        \newpage
       \global\@topnum\z@   % Prevents figures from going at top of page.
        \@maketitle
      \fi
      \thispagestyle{empty}\@thanks
    \endgroup
    \setcounter{footnote}{0}%
  \global\let\thanks\relax
  \global\let\LTRthanks\relax
  \global\let\RTLthanks\relax
  \global\let\maketitle\relax
  \global\let\@maketitle\relax
  \global\let\@thanks\@empty
  \global\let\@author\@empty
  \global\let\@date\@empty
  \global\let\@title\@empty
  \global\let\title\relax
  \global\let\author\relax
  \global\let\date\relax
  \global\let\and\relax
}
  \def\@maketitle{%
    \newpage
    \null
    \longthickrule\vskip1.5em%
    \let \footnote \thanks
    \let \LTRfootnote \LTRthanks
    \let \RTLfootnote \RTLthanks
```

```
    {\secshape \parskip\z@ \parindent\z@
    \Large\bfseries \@title \par}%
    \vskip1.5em\longthickrule\vskip1.5em%
    {\normalsize
      \lineskip .5em%
      \begin{flushright}%
        {\slshape\@author\par}
        \vskip 1em%
        {\@date}%
      \end{flushright}\par}%
    \vskip 1.5em}
\fi
\renewcommand*\l@part[2]{%
  \ifnum \c@tocdepth >-2\relax
    \addpenalty{-\@highpenalty}%
    \addvspace{2.25em \@plus\p@}%
    \begingroup
      \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
      \parfillskip -\@pnumwidth
      {\leavevmode
       \large \bfseries #1\hfil \hbox to\@pnumwidth{\hss #2}}\par
       \nobreak
         \global\@nobreaktrue
         \everypar{\global\@nobreakfalse\everypar{}}%
      \endgroup
  \fi}
\renewcommand*\l@chapter[2]{%
  \ifnum \c@tocdepth >\m@ne
    \addpenalty{-\@highpenalty}%
    \vskip 1.0em \@plus\p@
    \setlength\@tempdima{1.5em}%
    \begingroup
    \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
    \parfillskip -\@pnumwidth
    \leavevmode \bfseries
    \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
    \hskip -\if@RTL\rightskip\else\leftskip\fi
    #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
    \penalty\@highpenalty
   \endgroup
  \fi}
\renewcommand\secshape{\if@RTL\rightskip\else\leftskip\fi=-\leftmarginwidth%
                       \if@RTL\leftskip\else\rightskip\fi=\@flushglue%
                       \hyphenpenalty=2000}
\renewcommand\left@footnoterule{%
  \kern-3\p@
  \hrule\@width.4\columnwidth
  \kern 2.6\p@}
\renewcommand\right@footnoterule{%
  \kern-3\p@
```

```
  \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
  \kern2.6\p@}
\renewcommand\theequation
{\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
\renewcommand\thefigure
     {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
\renewcommand\thetable%
     {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
\renewcommand\thesection       {\thechapter\@SepMark\@arabic\c@section}
\renewcommand\thesubsection   {\thesection\@SepMark\@arabic\c@subsection}
\renewcommand\thesubsubsection {\thesubsection \@SepMark\@arabic\c@subsubsection}
\renewcommand\theparagraph    {\thesubsubsection\@SepMark\@arabic\c@paragraph}
\renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
\renewenvironment{thebibliography}[1]
     {\chapter*{\bibname
         \@mkboth{\bibname}{\bibname}}%
    \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
      \list{\@biblabel{\@arabic\c@enumiv}}%
           {\settowidth\labelwidth{\@biblabel{#1}}%
            \leftmargin\labelwidth
            \advance\leftmargin\labelsep
            \@openbib@code
            \usecounter{enumiv}%
            \let\p@enumiv\@empty
            \renewcommand\theenumiv{\@arabic\c@enumiv}}%
            \sloppy
            \clubpenalty4000
            \@clubpenalty \clubpenalty
            \widowpenalty4000%
      \sfcode`\.=\@m}
     {\def\@noitemerr
       {\@latex@warning{Empty `thebibliography' environment}}%
      \endlist}
```

7.99 report-xetex-bidi.def

```
\ProvidesFile{report-xetex-bidi.def}[2015/11/14 v0.7 bidi adaptations for standard report class
\renewenvironment{theindex}
               {\if@twocolumn
                  \@restonecolfalse
                \else
                  \@restonecoltrue
                \fi
                \columnseprule \z@
                \columnsep 35\p@
                \twocolumn[\@makeschapterhead{\indexname}]%
                \@mkboth{\MakeUppercase\indexname}%
                        {\MakeUppercase\indexname}%
                \thispagestyle{plain}\parindent\z@
                \parskip\z@ \@plus .3\p@\relax
```

```
                \let\item\@idxitem}
               {\if@restonecol\onecolumn\else\clearpage\fi}
  \if@titlepage
  \renewcommand\maketitle{\begin{titlepage}%
  \let\footnotesize\small
  \let\right@footnoterule\relax
  \let\left@footnoterule\relax
  \let\textwidth@footnoterule\relax
  \let \footnote \thanks
  \let \LTRfootnote \LTRthanks
  \let \RTLfootnote \RTLthanks
  \null\vfil
  \vskip 60\p@
  \begin{center}%
    {\LARGE \@title \par}%
    \vskip 3em%
    {\large
     \lineskip .75em%
      \begin{tabular}[t]{c}%
        \@author
      \end{tabular}\par}%
      \vskip 1.5em%
    {\large \@date \par}%       % Set date in \large size.
  \end{center}\par
  \@thanks
  \vfil\null
  \end{titlepage}%
  \setcounter{footnote}{0}%
  \global\let\thanks\relax
  \global\let\LTRthanks\relax
  \global\let\RTLthanks\relax
  \global\let\maketitle\relax
  \global\let\@thanks\@empty
  \global\let\@author\@empty
  \global\let\@date\@empty
  \global\let\@title\@empty
  \global\let\title\relax
  \global\let\author\relax
  \global\let\date\relax
  \global\let\and\relax
}
\else
\renewcommand\maketitle{\par
  \begingroup
    \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
    \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
    \long\def\@makefntext##1{\parindent 1em\noindent
            \hb@xt@1.8em{%
                \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
    \if@twocolumn
```

```
      \ifnum \col@number=\@ne
        \@maketitle
      \else
        \twocolumn[\@maketitle]%
      \fi
    \else
      \newpage
      \global\@topnum\z@   % Prevents figures from going at top of page.
      \@maketitle
    \fi
    \thispagestyle{plain}\@thanks
  \endgroup
  \setcounter{footnote}{0}%
  \global\let\thanks\relax
  \global\let\LTRthanks\relax
  \global\let\RTLthanks\relax
  \global\let\maketitle\relax
  \global\let\@maketitle\relax
  \global\let\@thanks\@empty
  \global\let\@author\@empty
  \global\let\@date\@empty
  \global\let\@title\@empty
  \global\let\title\relax
  \global\let\author\relax
  \global\let\date\relax
  \global\let\and\relax
}
\def\@maketitle{%
  \newpage
  \null
  \vskip 2em%
  \begin{center}%
  \let \footnote \thanks
  \let \LTRfootnote \LTRthanks
  \let \RTLfootnote \RTLthanks
    {\LARGE \@title \par}%
    \vskip 1.5em%
    {\large
      \lineskip .5em%
      \begin{tabular}[t]{c}%
        \@author
      \end{tabular}\par}%
    \vskip 1em%
    {\large \@date}%
  \end{center}%
  \par
  \vskip 1.5em}
\fi
\renewcommand*\l@part[2]{%
  \ifnum \c@tocdepth >-2\relax
```

```
    \addpenalty{-\@highpenalty}%
    \addvspace{2.25em \@plus\p@}%
    \setlength\@tempdima{3em}%
    \begingroup
      \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
      \parfillskip -\@pnumwidth
      {\leavevmode
       \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
       \nobreak
         \global\@nobreaktrue
         \everypar{\global\@nobreakfalse\everypar{}}%
    \endgroup
  \fi}
\renewcommand*\l@chapter[2]{%
  \ifnum \c@tocdepth >\m@ne
    \addpenalty{-\@highpenalty}%
    \vskip 1.0em \@plus\p@
    \setlength\@tempdima{1.5em}%
    \begingroup
      \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
      \parfillskip -\@pnumwidth
      \leavevmode \bfseries
      \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
      \hskip -\if@RTL\rightskip\else\leftskip\fi
      #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
      \penalty\@highpenalty
    \endgroup
  \fi}
\renewcommand\left@footnoterule{%
  \kern-3\p@
  \hrule\@width.4\columnwidth
  \kern2.6\p@}
\renewcommand\right@footnoterule{%
  \kern-3\p@
  \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
  \kern2.6\p@}
\renewcommand\theequation
  {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
\renewcommand \thefigure
     {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
\renewcommand \thetable
     {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
\renewcommand \thechapter {\@arabic\c@chapter}
\renewcommand \thesection {\thechapter\@SepMark\@arabic\c@section}
\renewcommand\thesubsection  {\thesection\@SepMark\@arabic\c@subsection}
\renewcommand\thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
\renewcommand\theparagraph   {\thesubsubsection\@SepMark\@arabic\c@paragraph}
\renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
\def\@makechapterhead#1{%
  \vspace*{50\p@}%
```

```
  {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont
    \ifnum \c@secnumdepth >\m@ne
        \huge\bfseries \@chapapp\space \thechapter
        \par\nobreak
        \vskip 20\p@
    \fi
    \interlinepenalty\@M
    \Huge \bfseries #1\par\nobreak
    \vskip 40\p@
  }}
\def\@makeschapterhead#1{%
  \vspace*{50\p@}%
  {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
    \normalfont
    \interlinepenalty\@M
    \Huge \bfseries  #1\par\nobreak
    \vskip 40\p@
  }}
\renewenvironment{thebibliography}[1]
     {\chapter*{\bibname}%
      \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
    \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
      \list{\@biblabel{\@arabic\c@enumiv}}%
           {\settowidth\labelwidth{\@biblabel{#1}}%
            \leftmargin\labelwidth
            \advance\leftmargin\labelsep
            \@openbib@code
            \usecounter{enumiv}%
            \let\p@enumiv\@empty
            \renewcommand\theenumiv{\@arabic\c@enumiv}}%
      \sloppy
      \clubpenalty4000
      \@clubpenalty \clubpenalty
      \widowpenalty4000%
      \sfcode`\.\@m}
     {\def\@noitemerr
       {\@latex@warning{Empty `thebibliography' environment}}%
      \endlist}
```

7.100 rotating-xetex-bidi.def

```
\ProvidesFile{rotating-xetex-bidi.def}[2013/05/22 v0.2 bidi adaptations for rotating package for
\def\end@rotfloat{%
  \end{minipage}\end{lrbox}%
  \stepcounter{r@tfl@t}%
  \rot@label{RF\ther@tfl@t}%
  \rot@pageref{RF\ther@tfl@t}{\R@@page}%
  \edef\@tempa{Adding sideways \@captype\space on page \R@@page\space}
  \rot@mess@toks\expandafter{\@tempa}
  \wd\rot@float@box\z@
```

```
  \ht\rot@float@box\z@
  \dp\rot@float@box\z@
  \vboxL to \textheight{%
   \setkeys{Grot}{units=360}%
   \if@rot@twoside
   \else
     \let\R@@page\rot@LR
   \fi
   \ifthenelse{\isodd{\R@@page}}{%
     \if@rot@twoside
      \rot@mess@toks\expandafter{\the\rot@mess@toks (right hand page)}%
     \fi
     \vfill
     \@@line{%
       \hskip\rotFPtop
       \rotatebox{90}{\box\rot@float@box}%
       \hskip\rotFPbot
     }%
   }{%
     \if@rot@twoside
      \rot@mess@toks\expandafter{\the\rot@mess@toks (left hand page)}%
     \fi
     \@@line{%
       \hskip\rotFPbot
       \rotatebox{-90}{\box\rot@float@box}%
       \hskip\rotFPtop
     }%
     \vfill
   }%
   \rot@message{\the\rot@mess@toks}
  }%
  \end@float
}
\let\endsidewaysfigure\end@rotfloat
\let\endsidewaystable\end@rotfloat
\def\end@rotdblfloat{%
  \end{minipage}\end{lrbox}%
  \stepcounter{r@tfl@t}%
  \rot@label{RF\ther@tfl@t}%
  \rot@pageref{RF\ther@tfl@t}{\R@@page}%
  \edef\@tempa{Adding sideways \@captype\space on page \R@@page\space}
  \rot@mess@toks\expandafter{\@tempa}
  \@tempdima\ht\rot@float@box
  \advance\@tempdima by \dp\rot@float@box
  \wd\rot@float@box\z@
  \ht\rot@float@box\z@
  \dp\rot@float@box\z@
  \vboxL to \textheight{%
    \setkeys{Grot}{units=360}%
    \if@rot@twoside
```

```
    \else
      \let\R@@page\rot@LR
    \fi
    \ifthenelse{\isodd{\R@@page}}{%
      \ifrot@messages
        \if@rot@twoside
  \rot@mess@toks\expandafter{\the\rot@mess@toks (right hand page)}%
\fi
      \fi
      \vfill
      \@@line{%
        \hskip\rotFPtop
        \rotatebox{90}{\box\rot@float@box}%
        \hskip\rotFPbot
      }%
    }{%
      \ifrot@messages
        \if@rot@twoside
  \rot@mess@toks\expandafter{\the\rot@mess@toks (left hand page)}%
\fi
      \fi%
      \@@line{%
        \hskip\rotFPbot
        \rotatebox{-90}{\box\rot@float@box}%
        \hskip\rotFPtop
      }%
      \vfill
    }%
    \rot@message{\the\rot@mess@toks}%
  }%
  \end@dblfloat
}
\def\turn#1{%
  \Grot@setangle{#1}%
  \setbox\z@\color@hbox\ifmmode\if@RTL\beginR\fi\else\if@RTL\beginR\fi\fi\ignorespaces}
\def\endturn{%
  \ifmmode\if@RTL\endR\fi\else\if@RTL\endR\fi\fi
  \unskip\color@endbox
  \Grot@x\z@
  \Grot@y\z@
  \ifmmode\else\if@RTL\beginL\fi\fi\Grot@box\ifmmode\else\if@RTL\endL\fi\fi
}
\def\rotate#1{%
  \Grot@setangle{#1}%
  \setbox\z@\color@hbox\ifmmode\if@RTL\beginR\fi\else\if@RTL\beginR\fi\fi\ignorespaces}
\def\endrotate{%
  \ifmmode\if@RTL\endR\fi\else\if@RTL\endR\fi\fi
  \unskip\color@endbox
  \Grot@x\z@
  \Grot@y\z@
```

```
  \wd0\z@\dp0\z@\ht0\z@
  \ifmmode\else\if@RTL\beginL\fi\fi\Grot@box\ifmmode\else\if@RTL\endL\fi\fi
}
\def\turnbox#1#2{%
  \Grot@setangle{#1}%
  \setbox\z@\hbox{{\ifmmode\if@RTL\beginR\fi\else\if@RTL\beginR\fi\fi#2\ifmmode\if@RTL\endR\fi
  \Grot@x\z@\Grot@y\z@
  \wd0\z@\dp0\z@\ht0\z@
  \ifmmode\else\if@RTL\beginL\fi\fi\Grot@box\ifmmode\else\if@RTL\endL\fi\fi
}
\def\sideways{%
  \Grot@setangle{90}%
  \setbox\z@\color@hbox\ifmmode\if@RTL\beginR\fi\else\if@RTL\beginR\fi\fi\ignorespaces}
\def\endsideways{%
  \ifmmode\if@RTL\endR\fi\else\if@RTL\endR\fi\fi
  \unskip\color@endbox
  \Grot@x\z@
  \Grot@y\z@
  \ifmmode\else\if@RTL\beginL\fi\fi\Grot@box\ifmmode\else\if@RTL\endL\fi\fi
}
```

7.101 scrartcl-xetex-bidi.def

```
\ProvidesFile{scrartcl-xetex-bidi.def}[2015/11/14 v0.8 bidi adaptations for scrartcl class for X
\newcommand{\scr@saved@LTRfootnotetext}{}
\newcommand{\scr@saved@RTLfootnotetext}{}
\let\scr@saved@footnotetext\@footnotetext
\let\scr@saved@LTRfootnotetext\@LTRfootnotetext
\let\scr@saved@RTLfootnotetext\@RTLfootnotetext
\renewcommand{\@footnotetext}[1]{%
  \scr@saved@footnotetext{#1}%
  \csname FN@mf@prepare\endcsname
}
\renewcommand{\@LTRfootnotetext}[1]{%
  \scr@saved@LTRfootnotetext{#1}%
  \csname FN@mf@prepare\endcsname
}
\renewcommand{\@RTLfootnotetext}[1]{%
  \scr@saved@RTLfootnotetext{#1}%
  \csname FN@mf@prepare\endcsname
}
\renewcommand\deffootnote[4][]{%
  \long\def\@makefntext##1{%
    \setlength{\@tempdimc}{#3}%
    \def\@tempa{#1}\ifx\@tempa\@empty
      \@setpar{\@@par
        \@tempdima = \hsize
        \addtolength{\@tempdima}{-#2}%
      \if@RTL\parshape \@ne 0pt \@tempdima\else\parshape \@ne #2 \@tempdima\fi}%
    \else
```

```
      \addtolength{\@tempdimc}{#2}%
      \addtolength{\@tempdimc}{-#1}%
      \@setpar{\@@par
        \@tempdima = \hsize
        \addtolength{\@tempdima}{-#1}%
        \@tempdimb = \hsize
        \addtolength{\@tempdimb}{-#2}%
     \if@RTL\parshape \tw@ 0pt \@tempdima 0pt \@tempdimb\else\parshape \tw@ #1 \@tempdima #2 \@t
      }%
    \fi
    \par
    \parindent\@tempdimc\noindent
    \ftn@font\hbox to \z@{\hss\@@makefnmark}##1%
  }%
  \def\@@makefnmark{\hbox{\ftnm@font{#4}}}%
}
\deffootnote[1em]{1.5em}{1em}{\textsuperscript{\thefootnotemark}}
\renewcommand*\left@footnoterule{%
  \normalsize\ftn@rule@test@values
  \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
  \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
  {\usekomafont{footnoterule}{%
      \hrule \@height\ftn@rule@height \@width\ftn@rule@width}}%
  \kern 2.6\p@}
\renewcommand*\right@footnoterule{%
  \normalsize\ftn@rule@test@values
  \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
  \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
  {\usekomafont{footnoterule}{%
    \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\ftn@rule@width\relax \leavevmode\leader
  \kern 2.6\p@}
\renewcommand*\maketitle[1][1]{%
  \if@titlepage
    \begin{titlepage}
      \setcounter{page}{%
        #1%
      }%
      \let\footnotesize\small
      \let\right@footnoterule\relax
      \let\left@footnoterule\relax
      \let\textwidth@footnoterule\relax
      \let\footnote\thanks
      \let\LTRfootnote\LTRthanks
      \let\RTLfootnote\RTLthanks
      \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
      \let\@oldmakefnmark\@makefnmark
      \renewcommand*{\@makefnmark}{\rlap\@oldmakefnmark}%
      \ifx\@extratitle\@empty \else
        \noindent\@extratitle\next@tpage\cleardoubleemptypage
        \thispagestyle{empty}%
```

```
    \fi
    \setparsizes{\z@}{\z@}{\z@\@plus 1fil}\par@updaterelative
    \ifx\@titlehead\@empty \else
      \begin{minipage}[t]{\textwidth}%
      \@titlehead
      \end{minipage}\par
    \fi
    \null\vfill
    \begin{center}
      \ifx\@subject\@empty \else
        {\subject@font \@subject \par}%
        \vskip 3em
      \fi
      {\titlefont\huge \@title\par}%
      \vskip 1em
    {\ifx\@subtitle\@empty\else\usekomafont{subtitle}\@subtitle\par\fi}%
      \vskip 2em
      {\Large \lineskip 0.75em
        \begin{tabular}[t]{c}
          \@author
        \end{tabular}\par
      }%
      \vskip 1.5em
      {\Large \@date \par}%
      \vskip \z@ \@plus3fill
      {\Large \@publishers \par}%
      \vskip 3em
    \end{center}\par
    \@thanks
    \vfill\null
    \if@twoside\next@tpage
      \begin{minipage}[t]{\textwidth}
        \@uppertitleback
      \end{minipage}\par
      \vfill
      \begin{minipage}[b]{\textwidth}
        \@lowertitleback
      \end{minipage}
    \fi
    \ifx\@dedication\@empty \else
      \next@tpage\null\vfill
      {\centering \Large \@dedication \par}%
      \vskip \z@ \@plus3fill
      \if@twoside \next@tpage\cleardoubleemptypage \fi
    \fi
  \end{titlepage}
\else
  \par
  \@tempcnta=%
  #1%
```

```
    \relax\ifnum\@tempcnta=1\else
      \ClassWarning{\KOMAClassName}{%
        Optional argument of \string\maketitle\space ignored
        at\MessageBreak
        notitlepage-mode%
      }%
    \fi
    \begingroup
      \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
      \let\@oldmakefnmark\@makefnmark
      \renewcommand*{\@makefnmark}{\rlap\@oldmakefnmark}
      \if@twocolumn
        \ifnum \col@number=\@ne
          \@maketitle
        \else
          \twocolumn[\@maketitle]%
        \fi
      \else
        \newpage
        \global\@topnum\z@
        \@maketitle
      \fi
      \thispagestyle{\titlepagestyle}\@thanks
    \endgroup
  \fi
  \setcounter{footnote}{0}%
  \let\thanks\relax
  \let\LTRthanks\relax
  \let\RTLthanks\relax
  \let\maketitle\relax
  \let\@maketitle\relax
  \global\let\@thanks\@empty
  \global\let\@author\@empty
  \global\let\@date\@empty
  \global\let\@title\@empty
  \global\let\@subtitle\@empty
  \global\let\@extratitle\@empty
  \global\let\@titlehead\@empty
  \global\let\@subject\@empty
  \global\let\@publishers\@empty
  \global\let\@uppertitleback\@empty
  \global\let\@lowertitleback\@empty
  \global\let\@dedication\@empty
  \global\let\author\relax
  \global\let\title\relax
  \global\let\extratitle\relax
  \global\let\titlehead\relax
  \global\let\subject\relax
  \global\let\publishers\relax
  \global\let\uppertitleback\relax
```

```
  \global\let\lowertitleback\relax
  \global\let\dedication\relax
  \global\let\date\relax
  \global\let\and\relax
}%
\renewcommand*{\@maketitle}{%
  \clearpage
  \let\footnote\thanks
  \let\LTRfootnote\LTRthanks
  \let\RTLfootnote\RTLthanks
  \ifx\@extratitle\@empty \else
    \noindent\@extratitle \next@tpage \if@twoside \null\next@tpage \fi
  \fi
  \setparsizes{\z@}{\z@}{\z@\@plus 1fil}\par@updaterelative
  \ifx\@titlehead\@empty \else
    \begin{minipage}[t]{\textwidth}
      \@titlehead
    \end{minipage}\par
  \fi
  \null
  \vskip 2em%
  \begin{center}%
    \ifx\@subject\@empty \else
      {\subject@font \@subject \par}
      \vskip 1.5em
    \fi
    {\titlefont\huge \@title \par}%
    \vskip .5em
   {\ifx\@subtitle\@empty\else\usekomafont{subtitle}\@subtitle\par\fi}%
    \vskip 1em
    {\Large
      \lineskip .5em%
      \begin{tabular}[t]{c}
        \@author
      \end{tabular}\par
    }%
    \vskip 1em%
    {\Large \@date \par}%
    \vskip \z@ \@plus 1em
    {\Large \@publishers \par}
    \ifx\@dedication\@empty \else
      \vskip 2em
      {\Large \@dedication \par}
    \fi
  \end{center}%
  \par
  \vskip 2em
}%
\renewcommand*\l@part[2]{%
  \ifnum \c@tocdepth >\m@ne\relax
```

```
    \addpenalty{\@secpenalty}%
    \addvspace{2.25em \@plus\p@}%
    \setlength{\@tempdima}{2em}%
    \if@tocleft
      \ifx\toc@l@number\@empty\else
        \setlength\@tempdima{0\toc@l@number}%
      \fi
    \fi
    \begingroup
      \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
      \parfillskip -\@pnumwidth
      \leavevmode
      \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
      \hskip -\if@RTL\rightskip\else\leftskip\fi
      {\usekomafont{partentry}{#1\nobreak
        \usekomafont{partentrypagenumber}{\hfil\nobreak
          \hb@xt@\@pnumwidth{\hss#2}}}}\par
      \ifnum \scr@compatibility>\@nameuse{scr@v@2.96}\relax
      \endgroup
      \penalty20010
      \else
        \if@compatibility
          \global\@nobreaktrue
          \everypar{\global\@nobreakfalse\everypar{}}%
        \else
          \penalty\@highpenalty
         \fi
      \endgroup
    \fi
  \fi
}
\renewcommand*\l@section[2]{%
  \ifnum \c@tocdepth >\z@
    \ifnum \lastpenalty<20009
      \addpenalty{\@secpenalty}%
    \fi
    \addvspace{1.0em \@plus\p@}%
    \setlength\@tempdima{1.5em}%
     \if@tocleft
      \ifx\toc@l@number\@empty\else
        \setlength\@tempdima{0\toc@l@number}%
      \fi
    \fi
   \begingroup
      \raggedsectionentry
    \parindent \z@ \advance\if@RTL\leftskip\else\rightskip\fi \@pnumwidth
      \parfillskip -\@pnumwidth
      \interlinepenalty\@M
      \leavevmode
    \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\rightsk
```

```
      {\usekomafont{sectionentry}{#1\nobreak
        \usekomafont{sectionentrypagenumber}{%
          \hfill\nobreak
          \hb@xt@\@pnumwidth{\hss#2}}}}\par
    \endgroup
    \ifnum \scr@compatibility>\@nameuse{scr@v@2.96}\relax
      \penalty20008
    \fi
  \fi
}
\def\raggedsection{\if@RTL\raggedleft\else\raggedright\fi}
\def\raggedpart{\if@RTL\raggedleft\else\raggedright\fi}
\renewcommand*\autodot{\if@altsecnumformat\@SepMark\fi}
\renewcommand*{\thesubsection}{\thesection\@SepMark\@arabic\c@subsection}
\renewcommand*{\thesubsubsection}{%
  \thesubsection\@SepMark\@arabic\c@subsubsection
}
\renewcommand*{\theparagraph}{\thesubsubsection\@SepMark\@arabic\c@paragraph}
\renewcommand*{\thesubparagraph}{%
  \theparagraph\@SepMark\@arabic\c@subparagraph
}
\renewenvironment{thebibliography}[1]{%
  \if@bib@break@
    \bib@beginhook
  \else
    \bib@heading
    \ifx\bibpreamble\relax\else\ifx\bibpreamble\@empty\else
        \noindent\bibpreamble\par\nobreak
    \fi\fi
    \bib@beginhook
    \bib@before@hook
  \fi
  \renewcommand{\BreakBibliography}[1]{%
    \@bib@break
    \end{thebibliography}%
    \begingroup ##1\endgroup
    \begin{thebibliography}{#1}
  }%
  \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
  \list{%
    \@biblabel{\@arabic\c@enumiv}%
  }{%
    \settowidth\labelwidth{\@biblabel{#1}}%
    \leftmargin\labelwidth
    \advance\leftmargin\labelsep
    \@openbib@code
    \if@bib@break@
      \edef\@tempa{%
        \noexpand\usecounter{enumiv}%
        \noexpand\setcounter{enumiv}{\the\c@enumiv}%
```

```
      }\@tempa
      \no@bib@break
    \else
      \usecounter{enumiv}%
    \fi
    \let\p@enumiv\@empty
    \renewcommand*\theenumiv{\@arabic\c@enumiv}%
  }%
  \sloppy\clubpenalty4000 \widowpenalty4000
  \sfcode`\.=\@m
}{%
  \if@bib@break@
    \def\@noitemerr{%
      \@latex@warning{%
        \string\BreakBibliography\space at begin of `thebibliography'
        environment\MessageBreak
        or following \string\BreakBibliography}%
    }%
  \else
    \def\@noitemerr{%
      \@latex@warning{%
        Empty `thebibliography' environment or
        \string\BreakBibliography\MessageBreak
        before end of `thebibliography' environment}%
    }%
  \fi
  \endlist
  \if@bib@break@
  \else
    \bib@after@hook
    \let\bib@before@hook\@empty
    \let\bib@after@hook\@empty
  \fi
  \bib@endhook
}
\renewcommand*\left@footnoterule{%
  \kern-3\p@
  \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
  \hrule\@width.4\columnwidth
  \kern 2.6\p@}
\renewcommand*\right@footnoterule{%
  \kern-3\p@
  \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
  \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
  \kern2.6\p@}
\renewcommand*{\raggeddictum}{\if@RTL\raggedright\else\raggedleft\fi}
\renewcommand*{\raggeddictumtext}{\if@RTL\raggedleft\else\raggedright\fi}
\renewcommand*{\raggeddictumauthor}{\if@RTL\raggedright\else\raggedleft\fi}
\renewcommand\marginline[1]{%
  \marginpar[\if@RTL\raggedright\else\raggedleft\fi{#1}]{\if@RTL\raggedleft\else\raggedright\f
```

```
}
\renewcommand{\@@makecaption}[3]{%
  \cap@margin
  \ifonelinecaptions
    \@tempcnta=\value{mpfootnote}\@tempcntb=\value{footnote}%
    \let\scr@tmp@footnotetext=\@footnotetext
    \let\@footnotetext=\@gobble
    \let\scr@tmp@LTRfootnotetext=\@LTRfootnotetext
    \let\@LTRfootnotetext=\@gobble
    \let\scr@tmp@RTLfootnotetext=\@RTLfootnotetext
    \let\@RTLfootnotetext=\@gobble
    \sbox\@tempboxa{%
      {\capfont{\strut\ignorespaces
        #1{{\caplabelfont{#2\captionformat}}}%
        #3\unskip\strut}}%
    }%
    \let\@footnotetext=\scr@tmp@footnotetext
    \let\scr@tmp@footnotetext=\undefined
    \let\@LTRfootnotetext=\scr@tmp@LTRfootnotetext
    \let\scr@tmp@LTRfootnotetext=\undefined
    \let\@RTLfootnotetext=\scr@tmp@RTLfootnotetext
    \let\scr@tmp@RTLfootnotetext=\undefined
    \setcounter{footnote}{\@tempcntb}%
    \setcounter{mpfootnote}{\@tempcnta}%
  \else
    \sbox\@tempboxa{\hspace*{2\cap@width}}%
  \fi
  \begingroup%
    \setlength{\@tempdima}{\cap@width}%
    \ifdim \wd\@tempboxa >\@tempdima
      \hb@xt@\hsize{%
        \setbox\@tempboxa\vbox{\hsize=\cap@width
          \ifdofullc@p
            {\capfont{\@hangfrom{\scr@smashdp{\strut\ignorespaces
                  #1{{\caplabelfont{#2\captionformat}}}}}%
              {#3\unskip\strut\par}}}%
          \else%
            \ifdim\cap@indent<\z@
              {\capfont{\strut\ignorespaces
                #1{{\caplabelfont{#2\captionformat\par}}}%
                \noindent\hspace*{-\cap@indent}#3\unskip\strut\par}}%
            \else%
              \if@capbreak
                {\capfont{\strut\ignorespaces
                  #1{{\caplabelfont{#2\captionformat\par}}}%
                  \noindent\@hangfrom{\hspace*{\cap@indent}}{#3\par}}}%
              \else
             {\capfont{\@hangfrom{\scr@smashdp\strut\hspace*{\cap@indent}}%
                    {\hspace{-\cap@indent}\scr@smashdp{\ignorespaces#1%
               {{\caplabelfont{#2\captionformat}}}}#3\unskip\strut\par}}}%
```

```
              \fi
            \fi
          \fi
        }%
        \setlength{\@tempdima}{\ht\@tempboxa}%
        \addtolength{\@tempdima}{\dp\@tempboxa}%
        \addtolength{\@tempdima}{-\ht\strutbox}%
        \ht\@tempboxa\ht\strutbox
        \dp\@tempboxa\@tempdima
        \strut\cap@left
        \box\@tempboxa
        \cap@right\strut
      }%
    \else
      \global \@minipagefalse
      \sbox\@tempboxa{%
        {\capfont{\scr@smashdp{\strut\ignorespaces
          #1{{\caplabelfont{#2\captionformat}}}}%
          #3}}%
      }%
    {\capfont{\hb@xt@\hsize{\strut\cap@left\if@RTL\beginR\fi\box\@tempboxa\if@RTL\endR\fi\cap
    \fi
  \endgroup
}
\renewcommand{\@makecaption}[2]{%
  \if@captionabove
    \vskip\belowcaptionskip
  \else
    \vskip\abovecaptionskip
  \fi
  \@@makecaption\@firstofone{#1}{#2}%
  \if@captionabove
    \vskip\abovecaptionskip
  \else
    \vskip\belowcaptionskip
  \fi
}
\bidi@AfterFile{longtable-xetex-bidi.def}{%
  \@ifpackageloaded{caption2}{\@komalongtablefalse
    \scr@caption@before@longtable@warning{caption2}%
  }{}%
  \if@komalongtable
    \renewcommand{\LT@makecaption}[3]{%
      \noalign{%
        \if@captionabove
          \vskip\belowcaptionskip
        \else
          \vskip\abovecaptionskip
        \fi
      }%
```

```
      \LT@mcol\LT@cols c{%
        \hbox to\z@{\hss\parbox[t]\linewidth{%
            \@@makecaption{#1}{#2}{#3}%
            \endgraf
            \if@captionabove
              \vskip\abovecaptionskip
            \else
              \vskip\belowcaptionskip
            \fi
          }%
          \hss
        }%
      }%
    }%
    \renewcommand*{\scr@LT@array}{}%
    \let\scr@LT@array=\LT@array
    \renewcommand*{\LT@array}{%
      \let\scr@caption=\LT@caption
      \def\captionabove{\noalign{\global\@captionabovetrue}%
        \scr@caption}%
      \def\captionbelow{\noalign{\global\@captionabovefalse}%
        \scr@caption}%
      \if@tablecaptionabove
        \let\LT@caption=\captionabove
      \else
        \let\LT@caption=\captionbelow
      \fi
      \scr@LT@array
    }%
    \ClassInfo{\KOMAClassName}{%
      longtable captions redefined%
    }%
  \fi
}
```

7.102 scrbook-xetex-bidi.def

```
\ProvidesFile{scrbook-xetex-bidi.def}[2015/11/14 v0.8 bidi adaptations for scrbook class for XeT
\newcommand{\scr@saved@LTRfootnotetext}{}
\newcommand{\scr@saved@RTLfootnotetext}{}
\let\scr@saved@footnotetext\@footnotetext
\let\scr@saved@LTRfootnotetext\@LTRfootnotetext
\let\scr@saved@RTLfootnotetext\@RTLfootnotetext
\renewcommand{\@footnotetext}[1]{%
  \scr@saved@footnotetext{#1}%
  \csname FN@mf@prepare\endcsname
}
\renewcommand{\@LTRfootnotetext}[1]{%
  \scr@saved@LTRfootnotetext{#1}%
  \csname FN@mf@prepare\endcsname
```

```
}
\renewcommand{\@RTLfootnotetext}[1]{%
  \scr@saved@RTLfootnotetext{#1}%
  \csname FN@mf@prepare\endcsname
}
\renewcommand\deffootnote[4][]{%
  \long\def\@makefntext##1{%
    \setlength{\@tempdimc}{#3}%
    \def\@tempa{#1}\ifx\@tempa\@empty
      \@setpar{\@@par
        \@tempdima = \hsize
        \addtolength{\@tempdima}{-#2}%
      \if@RTL\parshape \@ne 0pt \@tempdima\else\parshape \@ne #2 \@tempdima\fi}%
    \else
      \addtolength{\@tempdimc}{#2}%
      \addtolength{\@tempdimc}{-#1}%
      \@setpar{\@@par
        \@tempdima = \hsize
        \addtolength{\@tempdima}{-#1}%
        \@tempdimb = \hsize
        \addtolength{\@tempdimb}{-#2}%
      \if@RTL\parshape \tw@ 0pt \@tempdima 0pt \@tempdimb\else\parshape \tw@ #1 \@tempdima #2 \@t
       }%
    \fi
    \par
    \parindent\@tempdimc\noindent
    \ftn@font\hbox to \z@{\hss\@@makefnmark}##1%
  }%
  \def\@@makefnmark{\hbox{\ftnm@font{#4}}}%
}
\deffootnote[1em]{1.5em}{1em}{\textsuperscript{\thefootnotemark}}
\renewcommand*\left@footnoterule{%
  \normalsize\ftn@rule@test@values
  \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
  \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
  {\usekomafont{footnoterule}{%
      \hrule \@height\ftn@rule@height \@width\ftn@rule@width}}%
  \kern 2.6\p@}
\renewcommand*\right@footnoterule{%
  \normalsize\ftn@rule@test@values
  \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
  \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
  {\usekomafont{footnoterule}{%
    \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\ftn@rule@width\relax \leavevmode\leader
  \kern 2.6\p@}
\renewcommand*\maketitle[1][1]{%
  \if@titlepage
    \begin{titlepage}
      \setcounter{page}{%
        #1%
```

```
  }%
  \let\footnotesize\small
  \let\right@footnoterule\relax
  \let\left@footnoterule\relax
  \let\textwidth@footnoterule\relax
  \let\footnote\thanks
  \let\LTRfootnote\LTRthanks
  \let\RTLfootnote\RTLthanks
  \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
  \let\@oldmakefnmark\@makefnmark
  \renewcommand*{\@makefnmark}{\rlap\@oldmakefnmark}%
  \ifx\@extratitle\@empty \else
    \noindent\@extratitle\next@tpage\cleardoubleemptypage
    \thispagestyle{empty}%
  \fi
  \setparsizes{\z@}{\z@}{\z@\@plus 1fil}\par@updaterelative
  \ifx\@titlehead\@empty \else
    \begin{minipage}[t]{\textwidth}%
    \@titlehead
    \end{minipage}\par
  \fi
  \null\vfill
  \begin{center}
    \ifx\@subject\@empty \else
      {\subject@font \@subject \par}%
      \vskip 3em
    \fi
    {\titlefont\huge \@title\par}%
    \vskip 1em
{\ifx\@subtitle\@empty\else\usekomafont{subtitle}\@subtitle\par\fi}%
    \vskip 2em
    {\Large \lineskip 0.75em
      \begin{tabular}[t]{c}
        \@author
      \end{tabular}\par
    }%
    \vskip 1.5em
    {\Large \@date \par}%
    \vskip \z@ \@plus3fill
    {\Large \@publishers \par}%
    \vskip 3em
  \end{center}\par
  \@thanks
  \vfill\null
  \if@twoside\next@tpage
    \begin{minipage}[t]{\textwidth}
      \@uppertitleback
    \end{minipage}\par
    \vfill
    \begin{minipage}[b]{\textwidth}
```

```
15768           \@lowertitleback
15769         \end{minipage}
15770       \fi
15771       \ifx\@dedication\@empty \else
15772         \next@tpage\null\vfill
15773         {\centering \Large \@dedication \par}%
15774         \vskip \z@ \@plus3fill
15775         \if@twoside \next@tpage\cleardoubleemptypage \fi
15776       \fi
15777     \end{titlepage}
15778   \else
15779     \par
15780     \@tempcnta=%
15781     #1%
15782     \relax\ifnum\@tempcnta=1\else
15783       \ClassWarning{\KOMAClassName}{%
15784         Optional argument of \string\maketitle\space ignored
15785         at\MessageBreak
15786         notitlepage-mode%
15787       }%
15788     \fi
15789     \begingroup
15790       \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
15791       \let\@oldmakefnmark\@makefnmark
15792       \renewcommand*{\@makefnmark}{\rlap\@oldmakefnmark}
15793       \if@twocolumn
15794         \ifnum \col@number=\@ne
15795           \@maketitle
15796         \else
15797           \twocolumn[\@maketitle]%
15798         \fi
15799       \else
15800         \newpage
15801         \global\@topnum\z@
15802         \@maketitle
15803       \fi
15804       \thispagestyle{\titlepagestyle}\@thanks
15805     \endgroup
15806   \fi
15807   \setcounter{footnote}{0}%
15808   \let\thanks\relax
15809   \let\LTRthanks\relax
15810   \let\RTLthanks\relax
15811   \let\maketitle\relax
15812   \let\@maketitle\relax
15813   \global\let\@thanks\@empty
15814   \global\let\@author\@empty
15815   \global\let\@date\@empty
15816   \global\let\@title\@empty
15817   \global\let\@subtitle\@empty
```

```
  \global\let\@extratitle\@empty
  \global\let\@titlehead\@empty
  \global\let\@subject\@empty
  \global\let\@publishers\@empty
  \global\let\@uppertitleback\@empty
  \global\let\@lowertitleback\@empty
  \global\let\@dedication\@empty
  \global\let\author\relax
  \global\let\title\relax
  \global\let\extratitle\relax
  \global\let\titlehead\relax
  \global\let\subject\relax
  \global\let\publishers\relax
  \global\let\uppertitleback\relax
  \global\let\lowertitleback\relax
  \global\let\dedication\relax
  \global\let\date\relax
  \global\let\and\relax
}%
\renewcommand*{\@maketitle}{%
  \clearpage
  \let\footnote\thanks
  \let\LTRfootnote\LTRthanks
  \let\RTLfootnote\RTLthanks
  \ifx\@extratitle\@empty \else
    \noindent\@extratitle \next@tpage \if@twoside \null\next@tpage \fi
  \fi
  \setparsizes{\z@}{\z@}{\z@\@plus 1fil}\par@updaterelative
  \ifx\@titlehead\@empty \else
    \begin{minipage}[t]{\textwidth}
      \@titlehead
    \end{minipage}\par
  \fi
  \null
  \vskip 2em%
  \begin{center}%
    \ifx\@subject\@empty \else
      {\subject@font \@subject \par}
      \vskip 1.5em
    \fi
    {\titlefont\huge \@title \par}%
    \vskip .5em
   {\ifx\@subtitle\@empty\else\usekomafont{subtitle}\@subtitle\par\fi}%
    \vskip 1em
    {\Large
      \lineskip .5em%
      \begin{tabular}[t]{c}
        \@author
      \end{tabular}\par
    }%
```

```
    \vskip 1em%
    {\Large \@date \par}%
    \vskip \z@ \@plus 1em
    {\Large \@publishers \par}
    \ifx\@dedication\@empty \else
      \vskip 2em
      {\Large \@dedication \par}
    \fi
  \end{center}%
  \par
  \vskip 2em
}%
\renewcommand*\l@part[2]{%
  \ifnum \c@tocdepth >-2\relax
    \addpenalty{-\@highpenalty}%
    \addvspace{2.25em \@plus\p@}%
    \setlength{\@tempdima}{2em}%
    \if@tocleft
      \ifx\toc@l@number\@empty\else
        \setlength\@tempdima{0\toc@l@number}%
      \fi
    \fi
    \begingroup
      \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
      \parfillskip -\@pnumwidth
      \leavevmode
      \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
      \hskip -\if@RTL\rightskip\else\leftskip\fi
      {\usekomafont{partentry}{#1\nobreak
        \usekomafont{partentrypagenumber}{\hfil\nobreak
          \hb@xt@\@pnumwidth{\hss#2}}}}\par
      \ifnum \scr@compatibility>\@nameuse{scr@v@2.96}\relax
      \endgroup
      \penalty20010
      \else
          \penalty\@highpenalty
      \endgroup
    \fi
  \fi
}\renewcommand*\l@part[2]{%
  \ifnum \c@tocdepth >-2\relax
    \addpenalty{-\@highpenalty}%
    \addvspace{2.25em \@plus\p@}%
    \setlength{\@tempdima}{2em}%
    \if@tocleft
      \ifx\toc@l@number\@empty\else
        \setlength\@tempdima{0\toc@l@number}%
      \fi
    \fi
    \begingroup
```

```
      \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
      \parfillskip -\@pnumwidth
      \leavevmode
      \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
      \hskip -\if@RTL\rightskip\else\leftskip\fi
      {\usekomafont{partentry}{#1\nobreak
        \usekomafont{partentrypagenumber}{\hfil\nobreak
          \hb@xt@\@pnumwidth{\hss#2}}}}\par
      \ifnum \scr@compatibility>\@nameuse{scr@v@2.96}\relax
      \endgroup
      \penalty20010
      \else
          \penalty\@highpenalty
      \endgroup
    \fi
  \fi
}
\renewcommand*\l@chapter[2]{%
  \ifnum \c@tocdepth >\m@ne
    \ifnum \lastpenalty<20010
      \addpenalty{-\@highpenalty}%
    \fi
    \vskip 1.0em \@plus\p@
    \setlength\@tempdima{1.5em}%
    \if@tocleft
      \ifx\toc@l@number\@empty\else
        \setlength\@tempdima{0\toc@l@number}%
      \fi
    \fi
    \begingroup
      \raggedchapterentry
    \parindent \z@ \advance\if@RTL\leftskip\else\rightskip\fi \@pnumwidth
      \parfillskip -\@pnumwidth
      \interlinepenalty\@M
      \leavevmode
    \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\rightsk
      {\usekomafont{chapterentry}{#1\nobreak
        \usekomafont{chapterentrypagenumber}{%
          \hfill\nobreak
          \hb@xt@\@pnumwidth{\hss#2}}}}\par
      \ifnum \scr@compatibility>\@nameuse{scr@v@2.96}\relax
      \endgroup
      \penalty20009
      \else
        \penalty\@highpenalty
      \endgroup
    \fi
  \fi
}
\def\raggedsection{\if@RTL\raggedleft\else\raggedright\fi}
```

```
\renewcommand*\autodot{\if@altsecnumformat\@SepMark\fi}
\renewcommand*\thesection{%
  \ifnum \scr@compatibility>\@nameuse{scr@v@2.97d}\relax
    \if@mainmatter\thechapter\@SepMark\fi
  \else
  \thechapter\@SepMark%
  \fi
  \@arabic\c@section
}
\renewcommand*{\thesubsection}{\thesection\@SepMark\@arabic\c@subsection}
\renewcommand*{\thesubsubsection}{%
  \thesubsection\@SepMark\@arabic\c@subsubsection
}
\renewcommand*{\theparagraph}{\thesubsubsection\@SepMark\@arabic\c@paragraph}
\renewcommand*{\thesubparagraph}{%
  \theparagraph\@SepMark\@arabic\c@subparagraph
}
\renewcommand*\thefigure{%
  \ifnum \scr@compatibility>\@nameuse{scr@v@2.97d}\relax
    \if@mainmatter\thechapter\@SepMark\fi
  \else
  \thechapter\@SepMark%
  \fi
  \@arabic\c@figure
}
\renewcommand*\thetable{%
  \ifnum \scr@compatibility>\@nameuse{scr@v@2.97d}\relax
    \if@mainmatter\thechapter\@SepMark\fi
  \else
  \thechapter\@SepMark%
  \fi
  \@arabic\c@table
}
\renewcommand*\theequation{%
  \ifnum \scr@compatibility>\@nameuse{scr@v@2.97d}\relax
    \if@mainmatter\thechapter\@SepMark\fi
  \else
  \thechapter\@SepMark%
  \fi
  \@arabic\c@equation
}
\renewenvironment{thebibliography}[1]{%
  \if@bib@break@
    \bib@beginhook
  \else
    \ifx\bibpreamble\relax\else\ifx\bibpreamble\@empty\else
        \setchapterpreamble{\bibpreamble}%
    \fi\fi
    \bib@heading
    \bib@beginhook
```

```
    \bib@before@hook
  \fi
  \renewcommand{\BreakBibliography}[1]{%
    \@bib@break
    \end{thebibliography}%
    \begingroup ##1\endgroup
    \begin{thebibliography}{#1}
  }%
  \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
  \list{%
    \@biblabel{\@arabic\c@enumiv}%
  }{%
    \settowidth\labelwidth{\@biblabel{#1}}%
    \leftmargin\labelwidth
    \advance\leftmargin\labelsep
    \@openbib@code
    \if@bib@break@
      \edef\@tempa{%
        \noexpand\usecounter{enumiv}%
        \noexpand\setcounter{enumiv}{\the\c@enumiv}%
      }\@tempa
      \no@bib@break
    \else
      \usecounter{enumiv}%
    \fi
    \let\p@enumiv\@empty
    \renewcommand*\theenumiv{\@arabic\c@enumiv}%
  }%
  \sloppy\clubpenalty4000 \widowpenalty4000
  \sfcode`\.=\@m
}{%
  \if@bib@break@
    \def\@noitemerr{%
      \@latex@warning{%
        \string\BreakBibliography\space at begin of `thebibliography'
        environment\MessageBreak
        or following \string\BreakBibliography}%
    }%
  \else
    \def\@noitemerr{%
      \@latex@warning{%
        Empty `thebibliography' environment or
        \string\BreakBibliography\MessageBreak
        before end of `thebibliography' environment}%
    }%
  \fi
  \endlist
  \if@bib@break@
  \else
    \bib@after@hook
```

```
    \let\bib@before@hook\@empty
    \let\bib@after@hook\@empty
  \fi
  \bib@endhook
}
\renewcommand*\left@footnoterule{%
  \kern-3\p@
  \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
  \hrule\@width.4\columnwidth
  \kern 2.6\p@}
\renewcommand*\right@footnoterule{%
  \kern-3\p@
  \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
  \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
  \kern2.6\p@}
\renewcommand*{\raggeddictum}{\if@RTL\raggedright\else\raggedleft\fi}
\renewcommand*{\raggeddictumtext}{\if@RTL\raggedleft\else\raggedright\fi}
\renewcommand*{\raggeddictumauthor}{\if@RTL\raggedright\else\raggedleft\fi}
\renewcommand\marginline[1]{%
 \marginpar[\if@RTL\raggedright\else\raggedleft\fi{#1}]{\if@RTL\raggedleft\else\raggedright\f
}
\renewcommand{\@@makecaption}[3]{%
  \cap@margin
  \ifonelinecaptions
    \@tempcnta=\value{mpfootnote}\@tempcntb=\value{footnote}%
    \let\scr@tmp@footnotetext=\@footnotetext
    \let\@footnotetext=\@gobble
    \let\scr@tmp@LTRfootnotetext=\@LTRfootnotetext
    \let\@LTRfootnotetext=\@gobble
    \let\scr@tmp@RTLfootnotetext=\@RTLfootnotetext
    \let\@RTLfootnotetext=\@gobble
    \sbox\@tempboxa{%
      {\capfont{\strut\ignorespaces
        #1{{\caplabelfont{#2\captionformat}}}%
        #3\unskip\strut}}%
    }%
    \let\@footnotetext=\scr@tmp@footnotetext
    \let\scr@tmp@footnotetext=\undefined
    \let\@LTRfootnotetext=\scr@tmp@LTRfootnotetext
    \let\scr@tmp@LTRfootnotetext=\undefined
    \let\@RTLfootnotetext=\scr@tmp@RTLfootnotetext
    \let\scr@tmp@RTLfootnotetext=\undefined
    \setcounter{footnote}{\@tempcntb}%
    \setcounter{mpfootnote}{\@tempcnta}%
  \else
    \sbox\@tempboxa{\hspace*{2\cap@width}}%
  \fi
  \begingroup%
    \setlength{\@tempdima}{\cap@width}%
    \ifdim \wd\@tempboxa >\@tempdima
```

```
      \hb@xt@\hsize{%
        \setbox\@tempboxa\vbox{\hsize=\cap@width
          \ifdofullc@p
            {\capfont{\@hangfrom{\scr@smashdp{\strut\ignorespaces
                  #1{{\caplabelfont{#2\captionformat}}}}}%
              {#3\unskip\strut\par}}}%
          \else%
            \ifdim\cap@indent<\z@
              {\capfont{\strut\ignorespaces
                #1{{\caplabelfont{#2\captionformat\par}}}%
                \noindent\hspace*{-\cap@indent}#3\unskip\strut\par}}%
            \else%
              \if@capbreak
                {\capfont{\strut\ignorespaces
                  #1{{\caplabelfont{#2\captionformat\par}}}%
                  \noindent\@hangfrom{\hspace*{\cap@indent}}{#3\par}}}%
              \else
             {\capfont{\@hangfrom{\scr@smashdp\strut\hspace*{\cap@indent}}%
                    {\hspace{-\cap@indent}\scr@smashdp{\ignorespaces#1%
               {{\caplabelfont{#2\captionformat}}}}#3\unskip\strut\par}}}%
              \fi
            \fi
          \fi
        }%
        \setlength{\@tempdima}{\ht\@tempboxa}%
        \addtolength{\@tempdima}{\dp\@tempboxa}%
        \addtolength{\@tempdima}{-\ht\strutbox}%
        \ht\@tempboxa\ht\strutbox
        \dp\@tempboxa\@tempdima
        \strut\cap@left
        \box\@tempboxa
        \cap@right\strut
      }%
    \else
      \global \@minipagefalse
      \sbox\@tempboxa{%
        {\capfont{\scr@smashdp{\strut\ignorespaces
          #1{{\caplabelfont{#2\captionformat}}}}%
          #3}}%
      }%
    {\capfont{\hb@xt@\hsize{\strut\cap@left\if@RTL\beginR\fi\box\@tempboxa\if@RTL\endR\fi\cap
    \fi
  \endgroup
}
\renewcommand{\@makecaption}[2]{%
  \if@captionabove
    \vskip\belowcaptionskip
  \else
    \vskip\abovecaptionskip
  \fi
```

```
  \@@makecaption\@firstofone{#1}{#2}%
  \if@captionabove
    \vskip\abovecaptionskip
  \else
    \vskip\belowcaptionskip
  \fi
}
\bidi@AfterFile{longtable-xetex-bidi.def}{%
  \@ifpackageloaded{caption2}{\@komalongtablefalse
    \scr@caption@before@longtable@warning{caption2}%
  }{}%
  \if@komalongtable
    \renewcommand{\LT@makecaption}[3]{%
      \noalign{%
        \if@captionabove
          \vskip\belowcaptionskip
        \else
          \vskip\abovecaptionskip
        \fi
      }%
      \LT@mcol\LT@cols c{%
        \hbox to\z@{\hss\parbox[t]\linewidth{%
            \@@makecaption{#1}{#2}{#3}%
            \endgraf
            \if@captionabove
              \vskip\abovecaptionskip
            \else
              \vskip\belowcaptionskip
            \fi
          }%
          \hss
        }%
      }%
    }%
    \renewcommand*{\scr@LT@array}{}%
    \let\scr@LT@array=\LT@array
    \renewcommand*{\LT@array}{%
      \let\scr@caption=\LT@caption
      \def\captionabove{\noalign{\global\@captionabovetrue}%
        \scr@caption}%
      \def\captionbelow{\noalign{\global\@captionabovefalse}%
        \scr@caption}%
      \if@tablecaptionabove
        \let\LT@caption=\captionabove
      \else
        \let\LT@caption=\captionbelow
      \fi
      \scr@LT@array
    }%
    \ClassInfo{\KOMAClassName}{%
```

```
      longtable captions redefined%
    }%
  \fi
}
```

7.103 scrlettr-xetex-bidi.def

```
\ProvidesFile{scrlettr-xetex-bidi.def}[2015/11/14 v0.3 bidi adaptations for scrlettr class for X
\renewcommand\deffootnote[4][]{%
  \long\def\@makefntext##1{%
    \edef\@tempa{#1}\ifx\@tempa\@empty
      \@setpar{\@@par
        \@tempdima = \hsize
        \addtolength{\@tempdima}{-#2}
       \if@RTL\parshape \@ne 0pt \@tempdima\else\parshape \@ne #2 \@tempdima\fi}%
    \else
      \@setpar{\@@par
        \@tempdima = \hsize
        \addtolength{\@tempdima}{-#1}
        \@tempdimb = \hsize
        \addtolength{\@tempdimb}{-#2}
       \if@RTL\parshape \tw@ 0pt \@tempdima 0pt \@tempdimb\else\parshape \tw@ #1 \@tempdima #2 \@t
    \fi
    \par
    \parindent #3\noindent
    \hbox to \z@{\hss\@@makefnmark}##1}
  \def\@@makefnmark{\hbox{#4}}
}
\deffootnote[1em]{1.5em}{1em}
  {\textsuperscript{\thefootnotemark}}
\def\left@footnoterule{\kern-1\p@
 \hrule width 0.4\columnwidth
 \kern .6\p@}
\def\right@footnoterule{%
  \kern-1\p@
  \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
  \kern .6\p@}
\def\@datefield{\@reffalse
 \ifx\varyourref\@empty \else \@reftrue \fi
 \ifx\varyourmail\@empty \else \@reftrue \fi
 \ifx\varmyref\@empty \else \@reftrue \fi
 \ifx\varcustomer\@empty \else \@reftrue \fi
 \ifx\varinvoice\@empty \else \@reftrue \fi
 \ifx\varrefitemi\@empty \else \@reftrue \fi
 \ifx\varrefitemii\@empty \else \@reftrue \fi
 \ifx\varrefitemiii\@empty \else \@reftrue \fi
 \vskip -\parskip
 \vskip \refvskip
 \if@ref
  \ifx\varyourref\@empty \else
```

```
 \settowidth{\sc@temp}{\varyourref}
 \setbox0\hbox{\scriptsize \sf \yourrefname}
 \ifdim \sc@temp > \wd0 \sc@@temp\sc@temp \else \sc@@temp\wd0 \fi
 \parbox[t]{\sc@@temp}{\noindent \box0\par \varyourref}\hfill
\fi
\ifx\varyourmail\@empty \else
 \settowidth{\sc@temp}{\varyourmail}
 \setbox0\hbox{\scriptsize \sf \yourmailname}
 \ifdim \sc@temp > \wd0 \sc@@temp\sc@temp \else \sc@@temp\wd0 \fi
 \parbox[t]{\sc@@temp}{\noindent \box0\par \varyourmail}\hfill
\fi
\ifx\varmyref\@empty \else
 \settowidth{\sc@temp}{\varmyref}
 \setbox0\hbox{\scriptsize \sf \myrefname}
 \ifdim \sc@temp > \wd0 \sc@@temp\sc@temp \else \sc@@temp\wd0 \fi
 \parbox[t]{\sc@@temp}{\noindent \box0\par \varmyref}\hfill
\fi
\ifx\varcustomer\@empty \else
 \settowidth{\sc@temp}{\varcustomer}
 \setbox0\hbox{\scriptsize \sf \customername}
 \ifdim \sc@temp > \wd0 \sc@@temp\sc@temp \else \sc@@temp\wd0 \fi
 \parbox[t]{\sc@@temp}{\noindent \box0\par \varcustomer}\hfill
\fi
\ifx\varinvoice\@empty \else
 \settowidth{\sc@temp}{\varinvoice}
 \setbox0\hbox{\scriptsize \sf \invoicename}
 \ifdim \sc@temp > \wd0 \sc@@temp\sc@temp \else \sc@@temp\wd0 \fi
 \parbox[t]{\sc@@temp}{\noindent \box0\par \varinvoice}\hfill
\fi
\ifx\varrefitemi\@empty \else
 \settowidth{\sc@temp}{\varrefitemi}
 \setbox0\hbox{\scriptsize \sf \varrefitemnamei}
 \ifdim \sc@temp > \wd0 \sc@@temp\sc@temp \else \sc@@temp\wd0 \fi
 \parbox[t]{\sc@@temp}{\noindent \box0\par \varrefitemi}\hfill
\fi
\ifx\varrefitemii\@empty \else
 \settowidth{\sc@temp}{\varrefitemii}
 \setbox0\hbox{\scriptsize \sf \varrefitemnameii}
 \ifdim \sc@temp > \wd0 \sc@@temp\sc@temp \else \sc@@temp\wd0 \fi
 \parbox[t]{\sc@@temp}{\noindent \box0\par \varrefitemii}\hfill
\fi
\ifx\varrefitemiii\@empty \else
 \settowidth{\sc@temp}{\varrefitemiii}
 \setbox0\hbox{\scriptsize \sf \varrefitemnameiii}
 \ifdim \sc@temp > \wd0 \sc@@temp\sc@temp \else \sc@@temp\wd0 \fi
 \parbox[t]{\sc@@temp}{\noindent \box0\par \varrefitemiii}\hfill
\fi
\ifx\@date\@empty \else
 \settowidth{\sc@temp}{\@date}
 \setbox0\hbox{\scriptsize \sf \datename}
```

```
16315    \ifdim \sc@temp > \wd0 \sc@@temp\sc@temp \else \sc@@temp\wd0 \fi
16316    \parbox[t]{\sc@@temp}{\noindent \box0\par \@date}
16317   \fi
16318   \par
16319   \vspace{2.5\baselineskip}
16320  \else
16321  {\ifx\@date\@empty \else \if@RTL\raggedright\else\raggedleft\fi\fromplace\ \@date\par \fi}
16322   \vspace{1.5\baselineskip}
16323  \fi}
16324 \long\def\closing#1{\par\nobreak\vspace{0.5\baselineskip}
16325  \stopbreaks \noindent \sc@temp\textwidth \advance\sc@temp by
16326  -\sigindent \hspace{\sigindent}%
16327  \parbox{\sc@temp}{\if@RTL\raggedleft\else\raggedright\fi\ignorespaces #1\mbox{}\\[\presig@ski
16328  \fromsig\strut}\par
16329  \vspace{1.5\baselineskip}}
```

7.104 scrreprt-xetex-bidi.def

```
16330 \ProvidesFile{scrreprt-xetex-bidi.def}[2015/11/14 v0.8 bidi adaptations for scrreprt class for X
16331 \newcommand{\scr@saved@LTRfootnotetext}{}
16332 \newcommand{\scr@saved@RTLfootnotetext}{}
16333 \let\scr@saved@footnotetext\@footnotetext
16334 \let\scr@saved@LTRfootnotetext\@LTRfootnotetext
16335 \let\scr@saved@RTLfootnotetext\@RTLfootnotetext
16336 \renewcommand{\@footnotetext}[1]{%
16337   \scr@saved@footnotetext{#1}%
16338   \csname FN@mf@prepare\endcsname
16339 }
16340 \renewcommand{\@LTRfootnotetext}[1]{%
16341   \scr@saved@LTRfootnotetext{#1}%
16342   \csname FN@mf@prepare\endcsname
16343 }
16344 \renewcommand{\@RTLfootnotetext}[1]{%
16345   \scr@saved@RTLfootnotetext{#1}%
16346   \csname FN@mf@prepare\endcsname
16347 }
16348 \renewcommand\deffootnote[4][]{%
16349   \long\def\@makefntext##1{%
16350     \setlength{\@tempdimc}{#3}%
16351     \def\@tempa{#1}\ifx\@tempa\@empty
16352       \@setpar{\@@par
16353         \@tempdima = \hsize
16354         \addtolength{\@tempdima}{-#2}%
16355       \if@RTL\parshape \@ne 0pt \@tempdima\else\parshape \@ne #2 \@tempdima\fi}%
16356     \else
16357       \addtolength{\@tempdimc}{#2}%
16358       \addtolength{\@tempdimc}{-#1}%
16359       \@setpar{\@@par
16360         \@tempdima = \hsize
16361         \addtolength{\@tempdima}{-#1}%
```

```
        \@tempdimb = \hsize
        \addtolength{\@tempdimb}{-#2}%
     \if@RTL\parshape \tw@ 0pt \@tempdima 0pt \@tempdimb\else\parshape \tw@ #1 \@tempdima #2 \@t
      }%
    \fi
    \par
    \parindent\@tempdimc\noindent
    \ftn@font\hbox to \z@{\hss\@@makefnmark}##1%
  }%
  \def\@@makefnmark{\hbox{\ftnm@font{#4}}}%
}
\deffootnote[1em]{1.5em}{1em}{\textsuperscript{\thefootnotemark}}
\renewcommand*\left@footnoterule{%
  \normalsize\ftn@rule@test@values
  \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
  \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
  {\usekomafont{footnoterule}{%
      \hrule \@height\ftn@rule@height \@width\ftn@rule@width}}%
  \kern 2.6\p@}
\renewcommand*\right@footnoterule{%
  \normalsize\ftn@rule@test@values
  \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
  \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
  {\usekomafont{footnoterule}{%
    \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\ftn@rule@width\relax \leavevmode\leader
  \kern 2.6\p@}
\renewcommand*\maketitle[1][1]{%
  \if@titlepage
    \begin{titlepage}
      \setcounter{page}{%
        #1%
      }%
      \let\footnotesize\small
      \let\right@footnoterule\relax
      \let\left@footnoterule\relax
      \let\textwidth@footnoterule\relax
      \let\footnote\thanks
      \let\LTRfootnote\LTRthanks
      \let\RTLfootnote\RTLthanks
      \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
      \let\@oldmakefnmark\@makefnmark
      \renewcommand*{\@makefnmark}{\rlap\@oldmakefnmark}%
      \ifx\@extratitle\@empty \else
        \noindent\@extratitle\next@tpage\cleardoubleemptypage
        \thispagestyle{empty}%
      \fi
      \setparsizes{\z@}{\z@}{\z@\@plus 1fil}\par@updaterelative
      \ifx\@titlehead\@empty \else
        \begin{minipage}[t]{\textwidth}%
        \@titlehead
```

```
16412       \end{minipage}\par
16413     \fi
16414     \null\vfill
16415     \begin{center}
16416       \ifx\@subject\@empty \else
16417         {\subject@font \@subject \par}%
16418         \vskip 3em
16419       \fi
16420       {\titlefont\huge \@title\par}%
16421       \vskip 1em
16422     {\ifx\@subtitle\@empty\else\usekomafont{subtitle}\@subtitle\par\fi}%
16423       \vskip 2em
16424       {\Large \lineskip 0.75em
16425         \begin{tabular}[t]{c}
16426           \@author
16427         \end{tabular}\par
16428       }%
16429       \vskip 1.5em
16430       {\Large \@date \par}%
16431       \vskip \z@ \@plus3fill
16432       {\Large \@publishers \par}%
16433       \vskip 3em
16434     \end{center}\par
16435     \@thanks
16436     \vfill\null
16437     \if@twoside\next@tpage
16438       \begin{minipage}[t]{\textwidth}
16439         \@uppertitleback
16440       \end{minipage}\par
16441       \vfill
16442       \begin{minipage}[b]{\textwidth}
16443         \@lowertitleback
16444       \end{minipage}
16445     \fi
16446     \ifx\@dedication\@empty \else
16447       \next@tpage\null\vfill
16448       {\centering \Large \@dedication \par}%
16449       \vskip \z@ \@plus3fill
16450       \if@twoside \next@tpage\cleardoubleemptypage \fi
16451     \fi
16452   \end{titlepage}
16453 \else
16454   \par
16455   \@tempcnta=%
16456   #1%
16457   \relax\ifnum\@tempcnta=1\else
16458     \ClassWarning{\KOMAClassName}{%
16459       Optional argument of \string\maketitle\space ignored
16460       at\MessageBreak
16461       notitlepage-mode%
```

```
    }%
  \fi
  \begingroup
    \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
    \let\@oldmakefnmark\@makefnmark
    \renewcommand*{\@makefnmark}{\rlap\@oldmakefnmark}
    \if@twocolumn
      \ifnum \col@number=\@ne
        \@maketitle
      \else
        \twocolumn[\@maketitle]%
      \fi
    \else
      \newpage
      \global\@topnum\z@
      \@maketitle
    \fi
    \thispagestyle{\titlepagestyle}\@thanks
  \endgroup
\fi
\setcounter{footnote}{0}%
\let\thanks\relax
\let\LTRthanks\relax
\let\RTLthanks\relax
\let\maketitle\relax
\let\@maketitle\relax
\global\let\@thanks\@empty
\global\let\@author\@empty
\global\let\@date\@empty
\global\let\@title\@empty
\global\let\@subtitle\@empty
\global\let\@extratitle\@empty
\global\let\@titlehead\@empty
\global\let\@subject\@empty
\global\let\@publishers\@empty
\global\let\@uppertitleback\@empty
\global\let\@lowertitleback\@empty
\global\let\@dedication\@empty
\global\let\author\relax
\global\let\title\relax
\global\let\extratitle\relax
\global\let\titlehead\relax
\global\let\subject\relax
\global\let\publishers\relax
\global\let\uppertitleback\relax
\global\let\lowertitleback\relax
\global\let\dedication\relax
\global\let\date\relax
\global\let\and\relax
}%
```

```
\renewcommand*{\@maketitle}{%
  \clearpage
  \let\footnote\thanks
  \let\LTRfootnote\LTRthanks
  \let\RTLfootnote\RTLthanks
  \ifx\@extratitle\@empty \else
    \noindent\@extratitle \next@tpage \if@twoside \null\next@tpage \fi
  \fi
  \setparsizes{\z@}{\z@}{\z@\@plus 1fil}\par@updaterelative
  \ifx\@titlehead\@empty \else
    \begin{minipage}[t]{\textwidth}
      \@titlehead
    \end{minipage}\par
  \fi
  \null
  \vskip 2em%
  \begin{center}%
    \ifx\@subject\@empty \else
      {\subject@font \@subject \par}
      \vskip 1.5em
    \fi
    {\titlefont\huge \@title \par}%
    \vskip .5em
   {\ifx\@subtitle\@empty\else\usekomafont{subtitle}\@subtitle\par\fi}%
    \vskip 1em
    {\Large
      \lineskip .5em%
      \begin{tabular}[t]{c}
        \@author
      \end{tabular}\par
    }%
    \vskip 1em%
    {\Large \@date \par}%
    \vskip \z@ \@plus 1em
    {\Large \@publishers \par}
    \ifx\@dedication\@empty \else
      \vskip 2em
      {\Large \@dedication \par}
    \fi
  \end{center}%
  \par
  \vskip 2em
}%
\renewcommand*\l@part[2]{%
  \ifnum \c@tocdepth >-2\relax
    \addpenalty{-\@highpenalty}%
    \addvspace{2.25em \@plus\p@}%
    \setlength{\@tempdima}{2em}%
    \if@tocleft
      \ifx\toc@l@number\@empty\else
```

```
        \setlength\@tempdima{0\toc@l@number}%
      \fi
    \fi
    \begingroup
      \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
      \parfillskip -\@pnumwidth
      \leavevmode
      \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
      \hskip -\if@RTL\rightskip\else\leftskip\fi
      {\usekomafont{partentry}{#1\nobreak
        \usekomafont{partentrypagenumber}{\hfil\nobreak
          \hb@xt@\@pnumwidth{\hss#2}}}}\par
      \ifnum \scr@compatibility>\@nameuse{scr@v@2.96}\relax
      \endgroup
      \penalty20010
      \else
          \penalty\@highpenalty
      \endgroup
    \fi
  \fi
}
\renewcommand*\l@chapter[2]{%
  \ifnum \c@tocdepth >\m@ne
    \ifnum \lastpenalty<20010
      \addpenalty{-\@highpenalty}%
    \fi
    \vskip 1.0em \@plus\p@
    \setlength\@tempdima{1.5em}%
    \if@tocleft
      \ifx\toc@l@number\@empty\else
        \setlength\@tempdima{0\toc@l@number}%
      \fi
    \fi
    \begingroup
      \raggedchapterentry
    \parindent \z@ \advance\if@RTL\leftskip\else\rightskip\fi \@pnumwidth
      \parfillskip -\@pnumwidth
      \interlinepenalty\@M
      \leavevmode
    \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\rightsk
      {\usekomafont{chapterentry}{#1\nobreak
        \usekomafont{chapterentrypagenumber}{%
          \hfill\nobreak
          \hb@xt@\@pnumwidth{\hss#2}}}}\par
      \ifnum \scr@compatibility>\@nameuse{scr@v@2.96}\relax
      \endgroup
      \penalty20009
      \else
        \penalty\@highpenalty
      \endgroup
```

```
    \fi
  \fi
}
\def\raggedsection{\if@RTL\raggedleft\else\raggedright\fi}
\renewcommand*\autodot{\if@altsecnumformat\@SepMark\fi}
\renewcommand*\thesection{%
  \thechapter\@SepMark%
  \@arabic\c@section
}
\renewcommand*{\thesubsection}{\thesection\@SepMark\@arabic\c@subsection}
\renewcommand*{\thesubsubsection}{%
  \thesubsection\@SepMark\@arabic\c@subsubsection
}
\renewcommand*{\theparagraph}{\thesubsubsection\@SepMark\@arabic\c@paragraph}
\renewcommand*{\thesubparagraph}{%
  \theparagraph\@SepMark\@arabic\c@subparagraph
}
\renewcommand*\thefigure{%
  \thechapter\@SepMark%
  \@arabic\c@figure
}
\renewcommand*\thetable{%
  \thechapter\@SepMark%
  \@arabic\c@table
}
\renewcommand*\theequation{%
  \thechapter\@SepMark%
  \@arabic\c@equation
}
\renewenvironment{thebibliography}[1]{%
  \if@bib@break@
    \bib@beginhook
  \else
    \ifx\bibpreamble\relax\else\ifx\bibpreamble\@empty\else
        \setchapterpreamble{\bibpreamble}%
    \fi\fi
    \bib@heading
    \bib@beginhook
    \bib@before@hook
  \fi
  \renewcommand{\BreakBibliography}[1]{%
    \@bib@break
    \end{thebibliography}%
    \begingroup ##1\endgroup
    \begin{thebibliography}{#1}
  }%
 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
  \list{%
    \@biblabel{\@arabic\c@enumiv}%
  }{%
```

```
    \settowidth\labelwidth{\@biblabel{#1}}%
    \leftmargin\labelwidth
    \advance\leftmargin\labelsep
    \@openbib@code
    \if@bib@break@
      \edef\@tempa{%
        \noexpand\usecounter{enumiv}%
        \noexpand\setcounter{enumiv}{\the\c@enumiv}%
      }\@tempa
      \no@bib@break
    \else
      \usecounter{enumiv}%
    \fi
    \let\p@enumiv\@empty
    \renewcommand*\theenumiv{\@arabic\c@enumiv}%
  }%
  \sloppy\clubpenalty4000 \widowpenalty4000
  \sfcode`\.=\@m
}{%
  \if@bib@break@
    \def\@noitemerr{%
      \@latex@warning{%
        \string\BreakBibliography\space at begin of `thebibliography'
        environment\MessageBreak
        or following \string\BreakBibliography}%
    }%
  \else
    \def\@noitemerr{%
      \@latex@warning{%
        Empty `thebibliography' environment or
        \string\BreakBibliography\MessageBreak
        before end of `thebibliography' environment}%
    }%
  \fi
  \endlist
  \if@bib@break@
  \else
    \bib@after@hook
    \let\bib@before@hook\@empty
    \let\bib@after@hook\@empty
  \fi
  \bib@endhook
}
\renewcommand*\left@footnoterule{%
  \kern-3\p@
  \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
  \hrule\@width.4\columnwidth
  \kern 2.6\p@}
\renewcommand*\right@footnoterule{%
  \kern-3\p@
```

```
  \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
  \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
  \kern2.6\p@}
\renewcommand*{\raggeddictum}{\if@RTL\raggedright\else\raggedleft\fi}
\renewcommand*{\raggeddictumtext}{\if@RTL\raggedleft\else\raggedright\fi}
\renewcommand*{\raggeddictumauthor}{\if@RTL\raggedright\else\raggedleft\fi}
\renewcommand\marginline[1]{%
 \marginpar[\if@RTL\raggedright\else\raggedleft\fi{#1}]{\if@RTL\raggedleft\else\raggedright\f
}
\renewcommand{\@@makecaption}[3]{%
  \cap@margin
  \ifonelinecaptions
    \@tempcnta=\value{mpfootnote}\@tempcntb=\value{footnote}%
    \let\scr@tmp@footnotetext=\@footnotetext
    \let\@footnotetext=\@gobble
    \let\scr@tmp@LTRfootnotetext=\@LTRfootnotetext
    \let\@LTRfootnotetext=\@gobble
    \let\scr@tmp@RTLfootnotetext=\@RTLfootnotetext
    \let\@RTLfootnotetext=\@gobble
    \sbox\@tempboxa{%
      {\capfont{\strut\ignorespaces
        #1{{\caplabelfont{#2\captionformat}}}%
        #3\unskip\strut}}%
    }%
    \let\@footnotetext=\scr@tmp@footnotetext
    \let\scr@tmp@footnotetext=\undefined
    \let\@LTRfootnotetext=\scr@tmp@LTRfootnotetext
    \let\scr@tmp@LTRfootnotetext=\undefined
   \let\@RTLfootnotetext=\scr@tmp@RTLfootnotetext
    \let\scr@tmp@RTLfootnotetext=\undefined
    \setcounter{footnote}{\@tempcntb}%
    \setcounter{mpfootnote}{\@tempcnta}%
  \else
    \sbox\@tempboxa{\hspace*{2\cap@width}}%
  \fi
  \begingroup%
    \setlength{\@tempdima}{\cap@width}%
    \ifdim \wd\@tempboxa >\@tempdima
      \hb@xt@\hsize{%
        \setbox\@tempboxa\vbox{\hsize=\cap@width
          \ifdofullc@p
            {\capfont{\@hangfrom{\scr@smashdp{\strut\ignorespaces
                  #1{{\caplabelfont{#2\captionformat}}}}}%
              {#3\unskip\strut\par}}}%
          \else%
            \ifdim\cap@indent<\z@
              {\capfont{\strut\ignorespaces
                #1{{\caplabelfont{#2\captionformat\par}}}%
                \noindent\hspace*{-\cap@indent}#3\unskip\strut\par}}%
            \else%
```

```
              \if@capbreak
                {\capfont{\strut\ignorespaces
                  #1{{\caplabelfont{#2\captionformat\par}}}%
                  \noindent\@hangfrom{\hspace*{\cap@indent}}{#3\par}}}%
              \else
            {\capfont{\@hangfrom{\scr@smashdp\strut\hspace*{\cap@indent}}%
                {\hspace{-\cap@indent}\scr@smashdp{\ignorespaces#1%
              {{\caplabelfont{#2\captionformat}}}}#3\unskip\strut\par}}}%
              \fi
            \fi
          \fi
        }%
        \setlength{\@tempdima}{\ht\@tempboxa}%
        \addtolength{\@tempdima}{\dp\@tempboxa}%
        \addtolength{\@tempdima}{-\ht\strutbox}%
        \ht\@tempboxa\ht\strutbox
        \dp\@tempboxa\@tempdima
        \strut\cap@left
        \box\@tempboxa
        \cap@right\strut
      }%
    \else
      \global \@minipagefalse
      \sbox\@tempboxa{%
        {\capfont{\scr@smashdp{\strut\ignorespaces
          #1{{\caplabelfont{#2\captionformat}}}}%
          #3}}%
      }%
    {\capfont{\hb@xt@\hsize{\strut\cap@left\if@RTL\beginR\fi\box\@tempboxa\if@RTL\endR\fi\cap
    \fi
  \endgroup
}
\renewcommand{\@makecaption}[2]{%
  \if@captionabove
    \vskip\belowcaptionskip
  \else
    \vskip\abovecaptionskip
  \fi
  \@@makecaption\@firstofone{#1}{#2}%
  \if@captionabove
    \vskip\abovecaptionskip
  \else
    \vskip\belowcaptionskip
  \fi
}
\bidi@AfterFile{longtable-xetex-bidi.def}{%
  \@ifpackageloaded{caption2}{\@komalongtablefalse
    \scr@caption@before@longtable@warning{caption2}%
  }{}%
  \if@komalongtable
```

```
    \renewcommand{\LT@makecaption}[3]{%
      \noalign{%
        \if@captionabove
          \vskip\belowcaptionskip
        \else
          \vskip\abovecaptionskip
        \fi
      }%
      \LT@mcol\LT@cols c{%
        \hbox to\z@{\hss\parbox[t]\linewidth{%
            \@@makecaption{#1}{#2}{#3}%
            \endgraf
            \if@captionabove
              \vskip\abovecaptionskip
            \else
              \vskip\belowcaptionskip
            \fi
          }%
          \hss
        }%
      }%
    }%
    \renewcommand*{\scr@LT@array}{}%
    \let\scr@LT@array=\LT@array
    \renewcommand*{\LT@array}{%
      \let\scr@caption=\LT@caption
      \def\captionabove{\noalign{\global\@captionabovetrue}%
        \scr@caption}%
      \def\captionbelow{\noalign{\global\@captionabovefalse}%
        \scr@caption}%
      \if@tablecaptionabove
        \let\LT@caption=\captionabove
      \else
        \let\LT@caption=\captionbelow
      \fi
      \scr@LT@array
    }%
    \ClassInfo{\KOMAClassName}{%
      longtable captions redefined%
    }%
  \fi
}
```

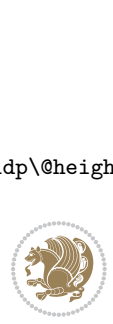
7.105 sidecap-xetex-bidi.def

```
\ProvidesFile{sidecap-xetex-bidi.def}[2010/08/01 v0.1 bidi adaptations for sidecap package for X
\renewcommand*{\SC@FLOAT}[2]{\if@RTL%
   \isSC@ODD{{#1}\hspace{\sidecaptionsep}{#2}} {{#2}\hspace{\sidecaptionsep}{#1}}\else%
\isSC@ODD{{#2}\hspace{\sidecaptionsep}{#1}} {{#1}\hspace{\sidecaptionsep}{#2}}\fi}
  \renewcommand*\SC@justify@caption{\if@RTL%
```

```
\isSC@ODD{\RaggedLeft}{\RaggedRight}\else%
    \isSC@ODD{\RaggedRight}{\RaggedLeft}\fi}
```

7.106 soul-xetex-bidi.def

```
\ProvidesFile{soul-xetex-bidi.def}[2015/10/16 v0.1 bidi adaptations for soul package for XeTeX e
\long\def\SOUL@start#1{{%
  \let\bidi@RTL@everypar\@empty
   \let\<\SOUL@lowerthan
   \let\>\empty
   \def\soulomit{\noexpand\soulomit}%
   \gdef\SOUL@eventuallyexhyphen##1{}%
   \let\SOUL@soeventuallyskip\relax
   \SOUL@spaceskip=\fontdimen\tw@\font\@plus\fontdimen\thr@@\font
       \@minus\fontdimen4\font
   \SOUL@ignorespacesfalse
   \leavevmode
   \SOUL@preamble
   \SOUL@lasttoken={}%
   \SOUL@word={}%
   \SOUL@minus\z@
   \SOUL@comma\z@
   \SOUL@apo\z@
   \SOUL@grave\z@
   \SOUL@do{#1}%
   \SOUL@postamble
}}
\def\SOUL@ulunderline#1{{%
   \setbox\z@\hbox{#1}%
   \dimen@=\wd\z@
   \dimen@i=\SOUL@uloverlap
   \advance\dimen@2\dimen@i
   \if@RTL
   \unhcopy\z@
   \llap{%
       \null
       \kern-\dimen@i
       \SOUL@ulcolor{\SOUL@ulleaders\hskip\dimen@}%
   }%
   \else
   \rlap{%
       \null
       \kern-\dimen@i
       \SOUL@ulcolor{\SOUL@ulleaders\hskip\dimen@}%
   }%
   \unhcopy\z@
   \fi
}}
\def\bidi@SOUL@ulleaders{%
  \leaders\hb@xt@0.1pt{\hss\SOUL@ulcolor{\vrule\@depth\SOUL@uldp\@height\SOUL@ulht}\hss}\rela
```

```
}
\def\SOUL@uleveryspace#1{%
        \if@RTL
        #1%
        \bidi@SOUL@ulleaders
        \hskip\spaceskip
        \else
    \SOUL@ulcolor{%
         #1%
         \SOUL@ulleaders
         \hskip\spaceskip
    }%
    \fi
    \null
}
```

7.107 stabular-xetex-bidi.def

```
\ProvidesFile{stabular-xetex-bidi.def}[2015/11/07 v0.3 bidi adaptations for stabular package for
\def\@stabular{\if@RTL\@RTLtabtrue\fi
   \leavevmode \bgroup \if@RTLtab\beginR \fi
   \let\@acol\@tabacol
   \let\@classz\@tabclassz
   \let\@classiv\@tabclassiv \let\\\@tabularcr\@stabarray}
\def\endstabular{\crcr\egroup\if@RTLtab\egroup\endR\egroup\fi
                 \egroup \if@RTLtab\endR\fi\egroup
                 \@RTLtabfalse}
\expandafter \let \csname endstabular*\endcsname = \endstabular
\def\@sarray[#1]#2{%
  \bgroup
  \setbox\@arstrutbox\hbox{%
    \vrule \@height\arraystretch\ht\strutbox
           \@depth\arraystretch \dp\strutbox
           \@width\z@}%
  \@mkpream{#2}%
  \edef\@preamble{%
    \ialign \noexpand\@halignto
      \bgroup \@arstrut \@preamble \tabskip\z@skip \cr}%
  \let\@startpbox\@@startpbox \let\@endpbox\@@endpbox
  \let\tabularnewline\\%
    \let\@sharp##%
    \set@typeset@protect
    \lineskip\z@skip\baselineskip\z@skip
  \if@RTLtab\hbox\bgroup\beginR\if #1t\vtop \else \vbox \fi\bgroup\fi
    \@preamble}
```

7.108 subfigure-xetex-bidi.def

```
\ProvidesFile{subfigure-xetex-bidi.def}[2010/03/01 v0.1 bidi adaptations for subfigure package f
\AtBeginDocument{%
\let\p@subfigure=\thefigure
```

```
\let\p@subtable=\thetable%
}
```

7.109 tabls-xetex-bidi.def

```
\ProvidesFile{tabls-xetex-bidi.def}[2015/11/07 v0.3 bidi adaptations for tabls package for XeTeX
\def\endtabular{\endarray $\if@RTLtab\endR\fi\egroup
                  \@RTLtabfalse}

\expandafter\let\csname endtabular*\endcsname=\endtabular

\def\endarray{\ifvmode\csname crcr\endcsname % just do \crcr if \\ given
  \else \\[\z@ \global\advance\@arstdepth-\@otarlinesep]%
  \fi\egroup\if@RTLtab\egroup\endR\egroup\fi\@unrecurse\egroup}

\def\@array[#1]#2{%  remember global variables to allow recursion:
 \edef\@unrecurse{\global\@skip@bove\the\@skip@bove
   \global\@arstheight\the\@arstheight\global\@arstdepth\the\@arstdepth}%
 \let\@otarlinesep\@tarlinesep \global\@skip@bove-\@otarlinesep
 \ifx\@classz\@arrayclassz \let\@tarlinesep\arraylinesep
 \else \let\@tarlinesep\tablinesep \fi
 \divide\@tarlinesep\tw@ % half sep is applied to height & depth
 \let\@seesize\relax \let\@rememsize\relax \@mkpream{#2}%
\@tempdima\arraystretch\ht\strutbox \@tempdimb\arraystretch\dp\strutbox
 \ifdim\@tarlinesep>\z@ % (need \protect for \multicolumn)
   \def\@rememsize{\protect\@r@m@msize}\let\@seesize\@s@@size
   \advance\@tempdima-\@tarlinesep \advance\@tempdimb-\@tarlinesep
 \fi \setbox\@arstrutbox\hbox{% set up smaller strut
    \vrule \@height\@tempdima \@depth\@tempdimb \@width\z@}%
 \let\protect\noexpand
 \edef\@preamble{\ialign \noexpand\@halignto \bgroup
 \unhcopy\@arstrutbox \@preamble \tabskip\z@skip &\@sharp \cr}%
 \let\@startpbox\@@startpbox \let\@endpbox\@@endpbox
 \if#1t\vtop \else \if#1b\vbox \else \vcenter \fi\fi
 \bgroup \let\par\@empty
 \global\@arstheight\ht\@arstrutbox \global\@arstdepth\dp\@arstrutbox
 \advance\extrarulesep.5\arrayrulewidth
 \let\@sharp##\let\protect\relax \lineskip\z@skip \baselineskip\z@skip
 \if@RTLtab\hbox\bgroup\beginR\if#1t\vtop \else \vbox \fi\bgroup\fi
 \@preamble}
```

7.110 tabularx-xetex-bidi.def

```
\ProvidesFile{tabularx-xetex-bidi.def}[2014/11/08 v0.1 bidi adaptations for tabularx package for
\def\TX@endtabularx{%
   \expandafter\expandafter\expandafter
     \TX@find@endtabularxa\csname end\TX@\endcsname
     \endtabularx\TX@\endtabularx\TX@find@endtabularxa
  \expandafter\TX@newcol\expandafter{\tabularxcolumn{\TX@col@width}}%
  \let\verb\TX@verb
  \def\@elt##1{\global\value{##1}\the\value{##1}\relax}%
```

```
  \edef\TX@ckpt{\cl@@ckpt}%
  \let\@elt\relax
  \TX@old@table\maxdimen
  \TX@col@width\TX@target
  \global\TX@cols\@ne
  \TX@typeout@
    {\@spaces Table Width\@spaces Column Width\@spaces X Columns}%
  \TX@trial{\def\NC@rewrite@X{%
          \global\advance\TX@cols\@ne\NC@find p{\TX@col@width}}}%
  \loop
    \TX@arith
    \ifTX@
    \TX@trial{}%
  \repeat
  {\let\@footnotetext\TX@ftntext\let\@xfootnotenext\TX@xftntext
  \let\@LTRfootnotetext\TX@LTRftntext\let\@xLTRfootnotenext\TX@xLTRftntext
  \let\@RTLfootnotetext\TX@RTLftntext\let\@xRTLfootnotenext\TX@xRTLftntext
    \csname tabular*\expandafter\endcsname\expandafter\TX@target
      \the\toks@
    \csname endtabular*\endcsname}%
  \global\TX@ftn\expandafter{\expandafter}\the\TX@ftn
  \ifnum0=`{\fi}%
   \expandafter\expandafter\expandafter
   \TX@find@endtabularxbb
    \expandafter\end\expandafter{\TX@}%
    \endtabularx\TX@\endtabularx\TX@find@endtabularxb
}

\def\TX@trial#1{%
  \setbox\@tempboxa\hbox{%
    #1\relax
  \let\@footnotetext\TX@trial@ftn
  \let\@LTRfootnotetext\TX@trial@ftn
  \let\@RTLfootnotetext\TX@trial@ftn
  \let\TX@vwarn\@empty
   \expandafter\let\expandafter\tabularx\csname tabular*\endcsname
  \expandafter\let\expandafter\endtabularx\csname endtabular*\endcsname
   \def\write{\begingroup
     \def\let{\afterassignment\endgroup\toks@}%
        \afterassignment\let\count@}%
    \hbadness\@M
    \hfuzz\maxdimen
    \let\hbadness\@tempcnta
    \let\hfuzz\@tempdima
    \expandafter\tabular\the\toks@
    \endtabular}%
  \TX@ckpt
  \TX@typeout@{\@spaces
     \expandafter\TX@align
        \the\wd\@tempboxa\space\space\space\space\space\@@
```

```
    \expandafter\TX@align
       \the\TX@col@width\space\space\space\space\space\@@
    \@spaces\the\TX@cols}}

\long\def\TX@LTRftntext#1{%
  \edef\@tempa{\the\TX@ftn\noexpand\LTRfootnotetext
                     [\the\csname c@\@mpfn\endcsname]}%
  \global\TX@ftn\expandafter{\@tempa{#1}}}%
\long\def\TX@xLTRftntext[#1]#2{%
  \global\TX@ftn\expandafter{\the\TX@ftn\LTRfootnotetext[#1]{#2}}}

\long\def\TX@RTLftntext#1{%
  \edef\@tempa{\the\TX@ftn\noexpand\RTLfootnotetext
                     [\the\csname c@\@mpfn\endcsname]}%
  \global\TX@ftn\expandafter{\@tempa{#1}}}%
\long\def\TX@xRTLftntext[#1]#2{%
  \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 for
\def\@testpach{\@chclass
 \ifnum \@lastchclass=6 \@ne \@chnum \@ne \else
  \ifnum \@lastchclass=7 5 \else
   \ifnum \@lastchclass=8 \tw@ \else
    \ifnum \@lastchclass=9 \thr@@
   \else \z@
   \ifnum \@lastchclass = 10 \else
   \edef\@nextchar{\expandafter\string\@nextchar}%
   \@chnum
   \if \@nextchar c\z@ \else
    \if \@nextchar \if@RTLtab r\else l\fi\@ne \else
     \if \@nextchar \if@RTLtab l\else r\fi\tw@ \else
   \if \@nextchar C7 \else
    \if \@nextchar L8 \else
     \if \@nextchar R9 \else
     \if \@nextchar J10 \else
   \z@ \@chclass
   \if\@nextchar |\@ne \else
    \if \@nextchar !6 \else
     \if \@nextchar @7 \else
      \if \@nextchar <8 \else
       \if \@nextchar >9 \else
  10
  \@chnum
  \if \@nextchar m\thr@@\else
   \if \@nextchar p4 \else
    \if \@nextchar b5 \else
   \z@ \@chclass \z@ \@preamerr \z@ \fi \fi \fi \fi\fi \fi \fi\fi \fi
     \fi  \fi  \fi  \fi  \fi  \fi \fi \fi \fi \fi \fi}
```

7.112 tc-xetex-bidi.def

```
\ProvidesFile{tc-xetex-bidi.def}[2014/07/08 v0.1 bidi adaptations for Clipping driver for XeTeX
\def\@cliptoboxdim#1{%
    \setbox#1=\hbox{%
        \Gin@defaultbp\WIDTH{\wd#1}%
        \Gin@defaultbp\DEPTH{\dp#1}%
        \@tempdima\ht#1%
        \advance\@tempdima\dp#1%
        \Gin@defaultbp\TOTALHEIGHT{\@tempdima}%
        \beginL\special{pdf:bcontent }%
        \special{%
            pdf:literal direct
                0 -\DEPTH\space \WIDTH\space \TOTALHEIGHT\space re
        }%
        \special{pdf:literal direct W }%
        \special{pdf:literal direct n }%
            \if@RTL\beginR\fi\box#1\if@RTL\endR\fi%
        \special{pdf:econtent }\endL%
    }%
}
```

7.113 titlesec-xetex-bidi.def

```
\ProvidesFile{titlesec-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for titlesec package for
\renewcommand\filright{%
  \gdef\ttl@filleft##1{\hskip##1}%
  \gdef\ttl@filright##1{\hfill}%
  \let\\\@centercr
  \advance\rightskip\z@ \@plus 1fil
\parfillskip\z@}
\def\ttlh@hang#1#2#3#4#5#6#7#8{%
  \gdef\ttl@makeline##1{\ttl@calc\hspace{#6}##1\ttl@calc\hspace{#7}}%
  \setlength\leftskip{#6}%
  \setlength\rightskip{#7}%
  \interlinepenalty\@M
  \ttl@changecentercr
  \ttl@beginlongest
  #1{\ifhmode\ttl@hmode@error\fi
     \ttl@glcmds
     \parindent\z@
     \leavevmode
     \begingroup
       \ifttl@label
          \sbox\z@{#2\strut\ttl@calc\hspace{#3}}%
         \if@RTL\advance\rightskip\wd\z@\else\advance\leftskip\wd\z@\fi
          \llap{\box\z@}%
       \fi
       #4{#8}%
       \kern\z@\strut\@@par
     \endgroup
```

```
      \nobreak\ttl@midlongest#5\@@par}%
  \ttl@endlongest}
```

7.114 titletoc-xetex-bidi.def

```
\ProvidesFile{titletoc-xetex-bidi.def}[2013/04/10 v0.2 bidi adaptations for titletoc package for
\renewcommand\filright{%
  \gdef\ttl@filleft##1{\hskip##1}%
  \gdef\ttl@filright##1{\hfill}%
  \let\\\@centercr
  \advance\rightskip\z@ \@plus 1fil
\parfillskip\z@}
\renewcommand\contentspush[1]{%
  \sbox\z@{#1}%
  \xdef\ttl@b{\advance\if@RTL\rightskip\else\leftskip\fi\the\wd\z@}%
  \aftergroup\ttl@b
  \leavevmode\llap{\box\z@}}
\def\ttl@outnoblock#1#2#3{%
  \begingroup
  \ifnum\ttl@b>\ttl@a
    \nobreak
  \else\ifnum\ttl@b<\ttl@a
    \addpenalty{\@secpenalty}%
  \else
    \addpenalty{\z@}%
  \fi\fi
  \ttl@contentsstretch
  \nobreak
  \ifcase#1\relax\else\interlinepenalty\@M\fi
  \parindent\z@
  \ifx\@nil#2%
    \PackageError{titletoc}{Unimplemented}%
    {The optional argument is currently mandatory}%
  \else
    \if@RTL\setlength\rightskip{#2}\else
    \setlength\leftskip{#2}\fi%
  \fi
 \if@RTL\setlength\leftskip{\@pnumwidth}\else\setlength\rightskip{\@pnumwidth}\fi%
  \let\contentsmargin\ttl@margin
  \def\ttl@makeline##1{##1}%
  #3%
  \addtolength{\parfillskip}{-\ttl@corr}%
 \if@RTL\addtolength{\leftskip}{\ttl@corr}\else\addtolength{\rightskip}{\ttl@corr}\fi%
  \let\ttl@leaders\leaders}
\renewcommand\ttl@margin[2][\z@]{%
  \def\ttl@corr{#1}%
  \advance\if@RTL\leftskip\else\rightskip\fi-\@pnumwidth\relax
  \advance\if@RTL\leftskip\else\rightskip\fi#2\relax
  \def\@pnumwidth{#2}}
\let\ttl@savel@part\l@part
```

```
\def\l@part{\ttl@lselect{part}}

\let\ttl@savel@chapter\l@chapter
\def\l@chapter{\ttl@lselect{chapter}}
```

7.115 tocbibind-xetex-bidi.def

```
\ProvidesFile{tocbibind-xetex-bidi.def}[2012/12/12 v0.3 bidi adaptations for tocbibind package ]
\if@dotocbib
  \@ifpackageloaded{natbib}{}{% natbib not loaded
    \renewcommand{\bibsection}{\t@cb@bchapsec}
    \renewenvironment{thebibliography}[1]{%
      \bibsection
      \begin{thebibitemlist}{#1}}{\end{thebibitemlist}}}
  \renewenvironment{thebibitemlist}[1]{
   \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
    \list{\@biblabel{\@arabic\c@enumiv}}%
         {\settowidth\labelwidth{\@biblabel{#1}}%
          \leftmargin\labelwidth
          \advance\leftmargin\labelsep
          \@openbib@code
          \usecounter{enumiv}%
          \let\p@enumiv\@empty
          \renewcommand\theenumiv{\@arabic\c@enumiv}}%
    \sloppy
    \clubpenalty4000
    \@clubpenalty \clubpenalty
    \widowpenalty4000%
    \sfcode`\.\@m}
   {\def\@noitemerr
     {\@latex@warning{Empty `thebibliography' environment}}%
     \endlist}

  \@ifpackagewith{chapterbib}{sectionbib}%
    {\renewcommand{\sectionbib}[2]{}}%
    {}

\fi
\if@inltxdoc\else
  \renewenvironment{theindex}%
    {\if@twocolumn
       \@restonecolfalse
     \else
       \@restonecoltrue
     \fi
     \if@bibchapter
        \if@donumindex
          \refstepcounter{chapter}
          \twocolumn[\vspace*{2\topskip}%
                     \@makechapterhead{\indexname}]%
```

```
      \addcontentsline{toc}{chapter}{\protect\numberline{\thechapter}\indexname}
         \chaptermark{\indexname}
       \else
         \if@dotocind
           \twocolumn[\vspace*{2\topskip}%
                      \@makeschapterhead{\indexname}]%
           \prw@mkboth{\indexname}
           \addcontentsline{toc}{chapter}{\indexname}
         \else
           \twocolumn[\vspace*{2\topskip}%
                      \@makeschapterhead{\indexname}]%
           \prw@mkboth{\indexname}
         \fi
       \fi
     \else
       \if@donumindex
         \twocolumn[\vspace*{-1.5\topskip}%
                    \@nameuse{\@tocextra}{\indexname}]%
         \csname \@tocextra mark\endcsname{\indexname}
       \else
         \if@dotocind
           \twocolumn[\vspace*{-1.5\topskip}%
                      \toc@headstar{\@tocextra}{\indexname}]%
           \prw@mkboth{\indexname}
           \addcontentsline{toc}{\@tocextra}{\indexname}
         \else
           \twocolumn[\vspace*{-1.5\topskip}%
                      \toc@headstar{\@tocextra}{\indexname}]%
           \prw@mkboth{\indexname}
         \fi
       \fi
     \fi
   \thispagestyle{plain}\parindent\z@
   \parskip\z@ \@plus .3\p@\relax
   \let\item\@idxitem}
   {\if@restonecol\onecolumn\else\clearpage\fi}
\fi
```

7.116 tocloft-xetex-bidi.def

```
\ProvidesFile{tocloft-xetex-bidi.def}[2010/07/25 v0.2 bidi adaptations for tocloft package for X
\let\cftdot\@SepMark
\if@cfthaspart
\renewcommand*{\l@part}[2]{
  \@cftdopartfalse
  \ifnum \c@tocdepth >-2\relax
    \if@cfthaschapter
      \@cftdoparttrue
    \fi
    \ifnum \c@tocdepth >\m@ne
```

```
      \if@cfthaschapter\else
        \@cftdoparttrue
      \fi
    \fi
  \fi
  \if@cftdopart
    \if@cfthaschapter
      \addpenalty{-\@highpenalty}
    \else
      \addpenalty\@secpenalty
    \fi
    \addvspace{\cftbeforepartskip}
    \begingroup
      {\if@RTL\rightskip\else\leftskip\fi \cftpartindent\relax
       \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
       \parfillskip -\if@RTL\leftskip\else\rightskip\fi
       \parindent \cftpartindent\relax\@afterindenttrue
       \interlinepenalty\@M
       \leavevmode
       \@tempdima \cftpartnumwidth\relax
       \let\@cftbsnum \cftpartpresnum
       \let\@cftasnum \cftpartaftersnum
       \let\@cftasnumb \cftpartaftersnumb
     \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\rightsk
       {\cftpartfont \cftpartpresnum #1}
       \cftpartfillnum{#2}}
      \nobreak
      \if@cfthaschapter
        \global\@nobreaktrue
        \everypar{\global\@nobreakfalse\everypar{}}
      \else
        \if@compatibility
          \global\@nobreaktrue
          \everypar{\global\@nobreakfalse\everypar{}}
        \fi
      \fi
    \endgroup
  \fi}
\fi
\if@cfthaschapter
\renewcommand*{\l@chapter}[2]{
  \ifnum \c@tocdepth >\m@ne
    \addpenalty{-\@highpenalty}
    \vskip \cftbeforechapskip
    {\if@RTL\rightskip\else\leftskip\fi \cftchapindent\relax
     \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
     \parfillskip -\if@RTL\leftskip\else\rightskip\fi
     \parindent \cftchapindent\relax\@afterindenttrue
     \interlinepenalty\@M
     \leavevmode
```

```
    \@tempdima \cftchapnumwidth\relax
    \let\@cftbsnum \cftchappresnum
    \let\@cftasnum \cftchapaftersnum
    \let\@cftasnumb \cftchapaftersnumb
   \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\rightski
    {\cftchapfont #1}\nobreak
    \cftchapfillnum{#2}}
  \fi}
\fi
\renewcommand*{\l@section}[2]{%
  \ifnum \c@tocdepth >\z@
   \if@cfthaschapter
     \vskip \cftbeforesecskip
   \else
     \addpenalty\@secpenalty
     \addvspace{\cftbeforesecskip}
   \fi
   {\if@RTL\rightskip\else\leftskip\fi \cftsecindent\relax
    \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
    \parfillskip -\if@RTL\leftskip\else\rightskip\fi
    \parindent \cftsecindent\relax\@afterindenttrue
    \interlinepenalty\@M
    \leavevmode
    \@tempdima \cftsecnumwidth\relax
    \let\@cftbsnum \cftsecpresnum
    \let\@cftasnum \cftsecaftersnum
    \let\@cftasnumb \cftsecaftersnumb
   \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\rightski
    {\cftsecfont #1}\nobreak
    \cftsecfillnum{#2}}
  \fi}
\renewcommand*{\l@subsection}[2]{%
  \ifnum \c@tocdepth >\@ne
   \vskip \cftbeforesubsecskip
   {\if@RTL\rightskip\else\leftskip\fi \cftsubsecindent\relax
    \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
    \parfillskip -\if@RTL\leftskip\else\rightskip\fi
    \parindent \cftsubsecindent\relax\@afterindenttrue
    \interlinepenalty\@M
    \leavevmode
    \@tempdima \cftsubsecnumwidth\relax
    \let\@cftbsnum \cftsubsecpresnum
    \let\@cftasnum \cftsubsecaftersnum
    \let\@cftasnumb \cftsubsecaftersnumb
   \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\rightski
    {\cftsubsecfont #1}\nobreak
    \cftsubsecfillnum{#2}}
  \fi}
\renewcommand*{\l@subsubsection}[2]{%
  \ifnum \c@tocdepth >\tw@
```

```
    \vskip \cftbeforesubsubsecskip
    {\if@RTL\rightskip\else\leftskip\fi \cftsubsubsecindent\relax
     \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
     \parfillskip -\if@RTL\leftskip\else\rightskip\fi
     \parindent \cftsubsubsecindent\relax\@afterindenttrue
     \interlinepenalty\@M
     \leavevmode
     \@tempdima \cftsubsubsecnumwidth\relax
     \let\@cftbsnum \cftsubsubsecpresnum
     \let\@cftasnum \cftsubsubsecaftersnum
     \let\@cftasnumb \cftsubsubsecaftersnumb
    \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\rightski
     {\cftsubsubsecfont #1}\nobreak
     \cftsubsubsecfillnum{#2}}
  \fi}
\renewcommand*{\l@paragraph}[2]{%
  \ifnum \c@tocdepth >3\relax
    \vskip \cftbeforeparaskip
    {\if@RTL\rightskip\else\leftskip\fi \cftparaindent\relax
     \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
     \parfillskip -\if@RTL\leftskip\else\rightskip\fi
     \parindent \cftparaindent\relax\@afterindenttrue
     \interlinepenalty\@M
     \leavevmode
     \@tempdima \cftparanumwidth\relax
     \let\@cftbsnum \cftparapresnum
     \let\@cftasnum \cftparaaftersnum
     \let\@cftasnumb \cftparaaftersnumb
    \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\rightski
     {\cftparafont #1}\nobreak
     \cftparafillnum{#2}}
  \fi}
\renewcommand*{\l@subparagraph}[2]{%
  \ifnum \c@tocdepth >4\relax
    \vskip \cftbeforesubparaskip
    {\if@RTL\rightskip\else\leftskip\fi \cftsubparaindent\relax
     \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
     \parfillskip -\if@RTL\leftskip\else\rightskip\fi
     \parindent \cftsubparaindent\relax\@afterindenttrue
     \interlinepenalty\@M
     \leavevmode
     \@tempdima \cftsubparanumwidth\relax
     \let\@cftbsnum \cftsubparapresnum
     \let\@cftasnum \cftsubparaaftersnum
     \let\@cftasnumb \cftsubparaaftersnumb
    \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\rightski
     {\cftsubparafont #1}\nobreak
     \cftsubparafillnum{#2}}
  \fi}
\renewcommand*{\l@figure}[2]{%
```

```
  \ifnum \c@lofdepth >\z@
    \vskip \cftbeforefigskip
    {\if@RTL\rightskip\else\leftskip\fi \cftfigindent\relax
     \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
     \parfillskip -\if@RTL\leftskip\else\rightskip\fi
     \parindent \cftfigindent\relax\@afterindenttrue
     \interlinepenalty\@M
     \leavevmode
     \@tempdima \cftfignumwidth\relax
     \let\@cftbsnum \cftfigpresnum
     \let\@cftasnum \cftfigaftersnum
     \let\@cftasnumb \cftfigaftersnumb
    \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\rightski
     {\cftfigfont #1}\nobreak
     \cftfigfillnum{#2}}
   \fi
  }
\renewcommand*{\l@table}[2]{%
  \ifnum\c@lotdepth >\z@
    \vskip \cftbeforetabskip
    {\if@RTL\rightskip\else\leftskip\fi \cfttabindent\relax
     \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
     \parfillskip -\if@RTL\leftskip\else\rightskip\fi
     \parindent \cfttabindent\relax\@afterindenttrue
     \interlinepenalty\@M
     \leavevmode
     \@tempdima \cfttabnumwidth\relax
     \let\@cftbsnum \cfttabpresnum
     \let\@cftasnum \cfttabaftersnum
     \let\@cftasnumb \cfttabaftersnumb
    \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\rightski
     {\cfttabfont #1}\nobreak
     \cfttabfillnum{#2}}
   \fi
  }
\renewcommand{\@cftl@subfig}{
\renewcommand*{\l@subfigure}[2]{%
  \ifnum \c@lofdepth > \toclevel@subfigure
    \vskip \cftbeforesubfigskip
    {\if@RTL\rightskip\else\leftskip\fi \cftsubfigindent\relax
     \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
     \parfillskip -\if@RTL\leftskip\else\rightskip\fi
     \parindent \cftsubfigindent\relax\@afterindenttrue
     \interlinepenalty\@M
     \leavevmode
     \@tempdima \cftsubfignumwidth\relax
     \let\@cftbsnum \cftsubfigpresnum
     \let\@cftasnum \cftsubfigaftersnum
     \let\@cftasnumb \cftsubfigaftersnumb
    \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\rightski
```

```
    {\cftsubfigfont ##1}\nobreak
    \cftsubfigfillnum{##2}}
  \fi
  }
}
\renewcommand{\@cftl@subtab}{
\renewcommand*{\l@subtable}[2]{%
  \ifnum \c@lotdepth > \toclevel@subtable
    \vskip \cftbeforesubtabskip
    {\if@RTL\rightskip\else\leftskip\fi \cftsubtabindent\relax
     \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
     \parfillskip -\if@RTL\leftskip\else\rightskip\fi
     \parindent \cftsubtabindent\relax\@afterindenttrue
     \interlinepenalty\@M
     \leavevmode
     \@tempdima \cftsubtabnumwidth\relax
     \let\@cftbsnum \cftsubtabpresnum
     \let\@cftasnum \cftsubtabaftersnum
     \let\@cftasnumb \cftsubtabaftersnumb
    \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\rightski
    {\cftsubtabfont ##1}\nobreak
    \cftsubtabfillnum{##2}}
  \fi
  }
}
\renewcommand{\newlistentry}[4][\@empty]{%
  \@ifundefined{c@#2}{%    check & set the counter
    \ifx \@empty#1\relax
      \newcounter{#2}
    \else
      \@ifundefined{c@#1}{\PackageWarning{tocloft}%
                          {#1 has no counter for use as a `within'}
        \newcounter{#2}}%
      {\newcounter{#2}[#1]%
       \expandafter\edef\csname the#2\endcsname{%
      \expandafter\noexpand\csname the#1\endcsname\@SepMark\noexpand\arabic{#2}}}
    \fi
    \setcounter{#2}{0}
  }
  {\PackageError{tocloft}{#2 has been previously defined}{\@eha}}

  \@namedef{l@#2}##1##2{%
    \ifnum \@nameuse{c@#3depth} > #4\relax
      \vskip \@nameuse{cftbefore#2skip}
      {\if@RTL\rightskip\else\leftskip\fi \@nameuse{cft#2indent}\relax
       \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
       \parfillskip -\if@RTL\leftskip\else\rightskip\fi
       \parindent \@nameuse{cft#2indent}\relax\@afterindenttrue
       \interlinepenalty\@M
       \leavevmode
```

```
      \@tempdima \@nameuse{cft#2numwidth}\relax
    \expandafter\let\expandafter\@cftbsnum\csname cft#2presnum\endcsname
    \expandafter\let\expandafter\@cftasnum\csname cft#2aftersnum\endcsname
    \expandafter\let\expandafter\@cftasnumb\csname cft#2aftersnumb\endcsname
    \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima \null\nobreak\hskip -\if@RTL\rightsk
      {\@nameuse{cft#2font}##1}\nobreak
      \@nameuse{cft#2fillnum}{##2}}
   \fi
 }  % end of \l@#2

\expandafter\newlength\csname cftbefore#2skip\endcsname
  \setlength{\@nameuse{cftbefore#2skip}}{\z@ \@plus .2\p@}
\expandafter\newlength\csname cft#2indent\endcsname
\expandafter\newlength\csname cft#2numwidth\endcsname
\ifcase #4\relax  % 0
  \setlength{\@nameuse{cft#2indent}}{0em}
  \setlength{\@nameuse{cft#2numwidth}}{1.5em}
\or               % 1
  \setlength{\@nameuse{cft#2indent}}{1.5em}
  \setlength{\@nameuse{cft#2numwidth}}{2.3em}
\or               % 2
  \setlength{\@nameuse{cft#2indent}}{3.8em}
  \setlength{\@nameuse{cft#2numwidth}}{3.2em}
\or               % 3
  \setlength{\@nameuse{cft#2indent}}{7.0em}
  \setlength{\@nameuse{cft#2numwidth}}{4.1em}
\else             % anything else
  \setlength{\@nameuse{cft#2indent}}{10.0em}
  \setlength{\@nameuse{cft#2numwidth}}{5.0em}
\fi
\@namedef{cft#2font}{\normalfont}
\@namedef{cft#2presnum}{}
\@namedef{cft#2aftersnum}{}
\@namedef{cft#2aftersnumb}{}
\@namedef{cft#2dotsep}{\cftdotsep}
\@namedef{cft#2leader}{\normalfont\cftdotfill{\@nameuse{cft#2dotsep}}}
\@namedef{cft#2pagefont}{\normalfont}
\@namedef{cft#2afterpnum}{}
\@namedef{toclevel@#2}{#4}
\@namedef{cft#2fillnum}##1{%
  {\@nameuse{cft#2leader}}\nobreak
 \hb@xt@\@pnumwidth{\hfil\@nameuse{cft#2pagefont}##1}\@nameuse{cft#2afterpnum}\par}
} % end \newlistentry
\renewcommand{\cftchapterprecistoc}[1]{\addtocontents{toc}{%
  {\if@RTL\rightskip\else\leftskip\fi \cftchapindent\relax
   \advance\if@RTL\righskip\else\leftskip\fi \cftchapnumwidth\relax
   \if@RTL\leftskip\else\rightskip\fi \@tocrmarg\relax
   \textit{#1}\protect\par}}}
```

7.117 tocstyle-xetex-bidi.def

```
\ProvidesFile{tocstyle-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for tocstyle package for
\renewcommand*{\tocstyle@dottedtocline}[5]{%
  \let\numberline\tocstyle@numberline
  \ifnum #1>\c@tocdepth \else
    \if@tocstyle@penalties
      \begingroup
        \@tempcnta 20010
        \advance \@tempcnta by -#1
        \ifnum \@tempcnta>\lastpenalty
          \aftergroup\penalty\aftergroup\@lowpenalty
        \fi
      \endgroup
    \fi
    \edef\tocstyledepth{#1}%
    \tocstyle@activate@features
    \ifx\tocstyle@feature@entryvskip\relax
      \vskip \z@ \@plus.2\p@
    \else
      \addvspace{\tocstyle@feature@entryvskip}%
    \fi
    {%
    \parskip \z@ \parindent \z@ \if@RTL\rightskip\else\leftskip\fi \z@ \if@RTL\leftskip\else\rig
      \tocstyle@feature@raggedhook
      \@tempdima #3\relax
      \@tempdimb #2\relax
      \typeout{m (\tocstyleTOC, \tocstyledepth): \the\@tempdima}%
      \ifnum #1>\z@\relax
        \@tempcnta #1\relax \advance\@tempcnta \m@ne
     \ifcsname tocstyle@skipwidth@\tocstyleTOC @\the\@tempcnta\endcsname
      \ifcsname tocstyle@numwidth@\tocstyleTOC @\the\@tempcnta\endcsname
           \@tempdimb
        \csname tocstyle@skipwidth@\tocstyleTOC @\the\@tempcnta\endcsname
            \advance\@tempdimb
        \csname tocstyle@numwidth@\tocstyleTOC @\the\@tempcnta\endcsname
          \fi
        \fi
      \fi
      \typeout{C (\tocstyleTOC, \tocstyledepth): \the\@tempdimb}%
      \ifcsname tocstyle@skipwidth@\tocstyleTOC @#1\endcsname
        \ifdim \@tempdimb>
        \csname tocstyle@skipwidth@\tocstyleTOC @#1\endcsname\relax
          \expandafter\xdef\csname tocstyle@skipwidth@\tocstyleTOC
          @#1\endcsname{\the\@tempdimb}%
        \fi
      \else
        \expandafter\xdef\csname tocstyle@skipwidth@\tocstyleTOC
        @#1\endcsname{\the\@tempdimb}%
      \fi
```

```
\iftocstyle@autolength
  \ifcsname tocstyle@maxskipwidth@\tocstyleTOC @#1\endcsname
 \@tempdimb \csname tocstyle@maxskipwidth@\tocstyleTOC @#1\endcsname
    \relax
  \fi
  \ifcsname tocstyle@maxnumwidth@\tocstyleTOC @#1\endcsname
 \@tempdima \csname tocstyle@maxnumwidth@\tocstyleTOC @#1\endcsname
    \relax
  \fi
  \typeout{a (\tocstyleTOC, \tocstyledepth): \the\@tempdima}%
  \typeout{A (\tocstyleTOC, \tocstyledepth): \the\@tempdimb}%
\else
  \@tempdimb #2\relax
  \typeout{M (\tocstyleTOC, \tocstyledepth): \the\@tempdimb}%
\fi
\ifcsname tocstyle@unumwidth@\tocstyleTOC @\endcsname
  \ifdim \@tempdima>
  \csname tocstyle@unumwidth@\tocstyleTOC @\endcsname\relax
    \expandafter\xdef\csname tocstyle@unumwidth@\tocstyleTOC
    @\endcsname{\the\@tempdima}%
  \fi
\else
  \expandafter\xdef\csname tocstyle@unumwidth@\tocstyleTOC
  @\endcsname{\the\@tempdima}%
\fi
\ifcase\tocstyle@indentstyle\relax\else
  \@tempdimb \z@
  \ifcsname tocstyle@maxunumwidth@\tocstyleTOC @\endcsname
 \@tempdima \csname tocstyle@maxunumwidth@\tocstyleTOC @\endcsname
    \relax
  \fi
  \typeout{s (\tocstyleTOC, \tocstyledepth): \the\@tempdima}%
  \typeout{S (\tocstyleTOC, \tocstyledepth): \the\@tempdimb}%
\fi
\advance\parindent \@tempdimb\@afterindenttrue
\advance\if@RTL\rightskip\else\leftskip\fi \parindent
\advance\if@RTL\leftskip\else\rightskip\fi \@tocrmarg
\parfillskip -\if@RTL\leftskip\else\rightskip\fi
\ifx\tocstyle@feature@parfillskip\relax\else
  \advance\parfillskip \tocstyle@feature@parfillskip\relax
\fi
\interlinepenalty\@M
\leavevmode
\advance\if@RTL\rightskip\else\leftskip\fi \@tempdima
\null\nobreak
\iftocstyle@indentnotnumbered\else
  \hskip -\if@RTL\rightskip\else\leftskip\fi
\fi
\tocstyle@feature@entryhook
{#4}\nobreak
```

```
      \ifx\tocstyle@feature@leaders\relax
        \leaders\hbox{$\m@th
          \mkern \@dotsep mu\hbox{\tocstyle@feature@dothook .}%
          \mkern \@dotsep mu$}\hfill
      \else
        \tocstyle@feature@leaders
      \fi
      \nobreak
      \ifx\tocstyle@feature@pagenumberbox\relax
        \hb@xt@\@pnumwidth{\hfil\tocstyle@feature@pagenumberhook #5}%
      \else
     \tocstyle@feature@pagenumberbox{\tocstyle@feature@pagenumberhook #5}%
      \fi
      \par
    }%
    \if@tocstyle@penalties
      \bgroup
        \@tempcnta 20009
        \advance\@tempcnta by -#1
        \edef\reserved@a{\egroup\penalty\the\@tempcnta\relax}%
      \reserved@a
    \fi
  \fi}
\renewcommand*{\tocstyle@numberline}[1]{%
  \begingroup
    \ifx\tocstyle@feature@spaceafternumber\relax
      \settowidth\@tempdima{\tocstyle@@numberline{#1}\enskip}%
    \else
      \settowidth\@tempdima{\tocstyle@@numberline{#1}}%
      \advance \@tempdima \tocstyle@feature@spaceafternumber\relax
    \fi
    \ifcsname tocstyle@numwidth@\tocstyleTOC @\tocstyledepth\endcsname
      \ifdim \@tempdima >
    \csname tocstyle@numwidth@\tocstyleTOC @\tocstyledepth\endcsname\relax
        \expandafter\xdef\csname tocstyle@numwidth@\tocstyleTOC
        @\tocstyledepth\endcsname{\the\@tempdima}%
      \fi
    \else
      \expandafter\xdef\csname tocstyle@numwidth@\tocstyleTOC
      @\tocstyledepth\endcsname{\the\@tempdima}%
    \fi
  \endgroup
  \iftocstyle@indentnotnumbered
    \hskip -\if@RTL\rightskip\else\leftskip\fi
  \fi
  \ifcase \tocstyle@indentstyle
    \hb@xt@\@tempdima{\tocstyle@@numberline{#1}\hfil}%
  \or
    \hb@xt@\@tempdima{\tocstyle@@numberline{#1}\hfil}%
  \else
```

```
    \ifx\tocstyle@feature@spaceafternumber\relax
      \hbox{\tocstyle@@numberline{#1}\enskip}%
    \else
      \hbox{\tocstyle@@numberline{#1}\hskip
        \tocstyle@feature@spaceafternumber\relax}%
    \fi
  \fi
}
\AtBeginDocument{%
  \ifcsname l@part\endcsname
    \ifcsname l@chapter\endcsname
      \setbox\@tempboxa\vbox{\hsize\maxdimen
        \l@part{\tocstyle@l@define{part}{-1}}{}}%
    \else
      \setbox\@tempboxa\vbox{\hsize\maxdimen
        \l@part{\tocstyle@l@define{part}{0}}{}}%
    \fi
  \fi
  \ifcsname l@chapter\endcsname
    \setbox\@tempboxa\vbox{\hsize\maxdimen
      \l@chapter{\tocstyle@l@define{chapter}{0}}{}}%
  \fi
  \ifcsname l@section\endcsname
    \setbox\@tempboxa\vbox{\hsize\maxdimen
      \l@section{\tocstyle@l@define{section}{1}}{}}%
  \fi
  \ifcsname l@subsection\endcsname
    \setbox\@tempboxa\vbox{\hsize\maxdimen
      \l@subsection{\tocstyle@l@define{subsection}{2}}{}}%
  \fi
  \ifcsname l@subsubsection\endcsname
    \setbox\@tempboxa\vbox{\hsize\maxdimen
      \l@subsubsection{\tocstyle@l@define{subsubsection}{3}}{}}%
  \fi
  \ifcsname l@paragraph\endcsname
    \setbox\@tempboxa\vbox{\hsize\maxdimen
      \l@paragraph{\tocstyle@l@define{paragraph}{4}}{}}%
  \fi
  \ifcsname l@subparagraph\endcsname
    \setbox\@tempboxa\vbox{\hsize\maxdimen
      \l@subparagraph{\tocstyle@l@define{subparagraph}{5}}{}}%
  \fi
  \ifcsname l@table\endcsname
    \setbox\@tempboxa\vbox{\hsize\maxdimen
      \l@table{\tocstyle@l@define{table}{1}}{}}%
  \fi
  \ifcsname l@figure\endcsname
    \setbox\@tempboxa\vbox{\hsize\maxdimen
      \l@figure{\tocstyle@l@define{figure}{1}}{}}%
  \fi
```

```
  \def\@tempa#1#2#3#4#5{%
    \ifnum #1>\c@tocdepth \else
      \vskip \z@ \@plus.2\p@
    {\if@RTL\rightskip\else\leftskip\fi #2\relax \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
       \parindent #2\relax\@afterindenttrue
       \interlinepenalty\@M
       \leavevmode
       \@tempdima #3\relax
     \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\rightsk
       {#4}\nobreak
       \leaders\hbox{$\m@th
          \mkern \@dotsep mu\hbox{.}\mkern \@dotsep
          mu$}\hfill
       \nobreak
       \hb@xt@\@pnumwidth{{\hfil \normalfont \normalcolor #5}}%
       \par}%
    \fi}%
  \ifx\@dottedtocline\@tempa\else
    \tocstyle@macrochangewarning\@dottedtocline
  \fi
  \let\tocstyle@saved@dottedtocline\@dottedtocline
  \def\@tempa#1{\hb@xt@\@tempdima{#1\autodot\hfil}}%
  \ifx\numberline\@tempa\else
    \def\@tempa#1{\hb@xt@\@tempdima{#1\hfil}}%
    \ifx\numberline@tempa\else
      \tocstyle@macrochangewarning\numberline
    \fi
  \fi
  \let\tocstyle@saved@numberline\numberline
}
\renewcommand*{\tocstyle@l@define}[2]{%
  \advance\if@RTL\rightskip\else\leftskip\fi-\@tempdima
  \edef\@tempa{%
    \noexpand\global\noexpand\let
    \expandafter\noexpand\csname tocstyle@saved@l@#1\endcsname
    \expandafter\noexpand\csname l@#1\endcsname
    \noexpand\gdef
    \expandafter\noexpand\csname tocstyle@l@#1\endcsname{%
    \noexpand\@dottedtocline{#2}{\the\if@RTL\rightskip\else\leftskip\fi}{\the\@tempdima}}%
    \noexpand\g@addto@macro\noexpand\tocstyle@activate@all@l{%
      \noexpand\let\expandafter\noexpand\csname l@#1\endcsname
      \expandafter\noexpand\csname tocstyle@l@#1\endcsname
    }%
  }%
  \PackageInfo{tocstyle}{prepare \expandafter\string
    \csname l@#1\endcsname\space for redefinition}%
  \@tempa
}
```

7.118 todonotes-xetex-bidi.def

```
\ProvidesFile{todonotes-xetex-bidi.def}[2015/06/17 v0.3 bidi adaptations for todonotes package f
\newif\if@bidi@todonotes@textdirection@RTL
\newif\if@bidi@todonotes@figposition@right
\newcommand{\@bidi@todonotes@align}{}%
\define@key{todonotes}{align}{\renewcommand{\@bidi@todonotes@align}{#1}}%
\newcommand{\@bidi@todonotes@textdirection}{}%
\define@choicekey{todonotes}{textdirection}[\bidi@todonotes@tempa\bidi@todonotes@tempb]{right
  \ifcase\bidi@todonotes@tempb\relax
    \@bidi@todonotes@textdirection@RTLtrue
    \let\@bidi@todonotes@textdirection\RLE
  \or
    \@bidi@todonotes@textdirection@RTLfalse
    \let\@bidi@todonotes@textdirection\LRE
  \fi}
\define@choicekey{todonotes}{figposition}[\bidi@todonotes@tempa\bidi@todonotes@tempb]{right,l
  \ifcase\bidi@todonotes@tempb\relax
    \@bidi@todonotes@figposition@righttrue
  \or
    \@bidi@todonotes@figposition@rightfalse
  \fi}
\if@todonotes@disabled%
\else % \if@todonotes@disabled
\renewcommand{\@todonotes@drawInlineNote}{%
    \if@todonotes@dviStyle%
        {\par\noindent\begin{tikzpicture}[remember picture]%
            \draw node[inlinenotestyle] {};\end{tikzpicture}\par}%
            \if@todonotes@authorgiven%
           {\noindent \@todonotes@sizecommand \@todonotes@author:\,\@todonotes@text}%
            \else%
                {\noindent \@todonotes@sizecommand \@todonotes@text}%
            \fi
        {\par\noindent\begin{tikzpicture}[remember picture]%
            \draw node[inlinenotestyle] {};\end{tikzpicture}\par}%
    \else%
        {\par\noindent\begin{tikzpicture}[remember picture]%
           \if@bidi@todonotes@textdirection@RTL\else\setLTR\fi%
        \draw node[inlinenotestyle,font=\@todonotes@sizecommand,align=\@bidi@todonotes@align]{
                \if@todonotes@authorgiven%
             {\noindent \@todonotes@sizecommand \@todonotes@author:\,\@todonotes@text}%
                \else%
                  {\noindent \@todonotes@sizecommand \@todonotes@text}%
                \fi};%
            \end{tikzpicture}\par}%
    \fi}%
\renewcommand{\@todonotes@drawMarginNoteWithLine}{%
\begin{tikzpicture}[remember picture, overlay, baseline=-0.75ex]%
    \node [coordinate] (inText) {};%
\end{tikzpicture}%
```

```
\marginpar[{% Draw note in left margin
    \@todonotes@drawMarginNote%
  \if@RTL\@todonotes@drawLineToRightMargin\else\@todonotes@drawLineToLeftMargin\fi%
}]{% Draw note in right margin
    \@todonotes@drawMarginNote%
  \if@RTL\@todonotes@drawLineToLeftMargin\else\@todonotes@drawLineToRightMargin\fi%
}%
}%
\renewcommand{\@todonotes@drawMarginNote}{%
\if@todonotes@dviStyle%
    \begin{tikzpicture}[remember picture]%
        \draw node[notestyle] {};%
    \end{tikzpicture}\\%
    \begin{minipage}{\@todonotes@textwidth}%
    \if@todonotes@authorgiven%
      \@todonotes@sizecommand \@todonotes@author \@todonotes@text%
    \else%
      \@todonotes@sizecommand \@todonotes@text%
    \fi%
    \end{minipage}\\%
    \begin{tikzpicture}[remember picture]%
        \draw node[notestyle] (inNote) {};%
    \end{tikzpicture}%
\else%
    \let\originalHbadness\hbadness%
    \hbadness 100000%
    \begin{tikzpicture}[remember picture,baseline=(X.base)]%
       \if@bidi@todonotes@textdirection@RTL\setRTL\fi%
        \node(X){\vphantom{X}};%
     \draw node[notestyle,font=\@todonotes@sizecommand,anchor=north,align=\@bidi@todonotes@al
           {\@todonotes@text};%
        \if@todonotes@authorgiven%
        \draw node[notestyle,font=\@todonotes@sizecommand,anchor=north,align=\@bidi@todonotes@
                {\@todonotes@sizecommand\@todonotes@author};%
            \node(Y)[below=of X]{};%
        \draw node[notestyle,font=\@todonotes@sizecommand,anchor=north,align=\@bidi@todonotes@
                {\@todonotes@text};%
        \else%
        \draw node[notestyle,font=\@todonotes@sizecommand,anchor=north,align=\@bidi@todonotes@
                {\@todonotes@text};%
        \fi%
    \end{tikzpicture}%
    \hbadness \originalHbadness%
\fi}%
\renewcommand{\missingfigure}[2][]{%
\setkeys{todonotes}{#1}%
\addcontentsline{tdo}{todo}{\@todonotes@MissingFigureText: #2}%
\par
\noindent
\begin{tikzpicture}
```

```
\draw[fill=\@todonotes@currentfigcolor, draw = black!40, line width=2pt]
   (-2, -2.5) rectangle +(\@todonotes@currentfigwidth, \@todonotes@currentfigheight);
\if@bidi@todonotes@figposition@right%
\begin{scope}[xshift=\@todonotes@currentfigwidth-4cm]
\fi%
\draw[red, fill=white, rounded corners = 5pt, line width=10pt]
    (30:2cm) -- (150:2cm) -- (270:2cm) -- cycle;
\if@bidi@todonotes@figposition@right%
\end{scope}
\begin{scope}[xshift=-3.8cm]
\fi%
\if@bidi@todonotes@textdirection@RTL\setRTL\fi%
\draw (2, -0.3) node[right, text
   width=\@todonotes@currentfigwidth-4.5cm,align=\@bidi@todonotes@align] {#2};
\if@bidi@todonotes@figposition@right%
\end{scope}
\begin{scope}[xshift=\@todonotes@currentfigwidth-4cm]
\fi%
\draw (0, 0.3) node[align=\@bidi@todonotes@align] {\@bidi@todonotes@textdirection{\@todonotes@N
\draw (0, -0.3) node[align=\@bidi@todonotes@align] {\@bidi@todonotes@textdirection{\@todonotes@
\if@bidi@todonotes@figposition@right%
\end{scope}
\fi%
\end{tikzpicture}\hfill
}% Ending \missingfigure command
\fi % Ending \@todonotes@ifdisabled
\presetkeys%
    {todonotes}%
    {align=left,%
    textdirection=lefttoright,%
    figposition=left}{}%
```

7.119 wrapfig-xetex-bidi.def

```
\ProvidesFile{wrapfig-xetex-bidi.def}[2014/04/23 v0.3 bidi adaptations for wrapfig package for X
\let\WF@@everypar\bidi@n@everypar
\def\WF@putfigmaybe{%
\ifinner
  \vskip-\parskip \global\WF@floatfalse
  \let\pagetotal\maxdimen % kludge flag for "not top of page"
\else % outer page
  \@tempdima\pagedepth % save page depth
  {\advance\parskip\@tempdima\if@RTL\advance\parskip\baselineskip\fi\vskip-\parskip}% back up
   \penalty\interlinepenalty % update pg. parameters
   \@tempdimb\pagegoal \advance\@tempdimb-\pagetotal % room left on page
   \ifdim\@tempdimb<\z@ % \WF@info{Page overfull already;}%
      \global\WF@floatfalse
      \ifdim-\@tempdimb>\pageshrink \else \pagebreak \fi
   \else
      \ifdim\WF@size>\@tempdimb
```

```
      \ifWF@float \dimen@.5\baselineskip \else \dimen@ 2\baselineskip\fi
         \ifdim\pagestretch>\dimen@ \dimen@\pagestretch \fi
         \ifdim\pagefilstretch>\z@ \dimen@\@tempdimb \fi
         \ifdim\pagefillstretch>\z@ \dimen@\@tempdimb \fi
         \advance\dimen@.5\baselineskip
      \ifdim\dimen@>\@tempdimb % \WF@info{Page nearly full; can stretch}%
            \global\WF@floatfalse \pagebreak
         \fi
      \else % \WF@info{Fits in \the\@tempdimb;}%
         \global\WF@floatfalse
   \fi\fi
   \vskip\@tempdima\relax % (return erased page depth)
\fi
\noindent
\ifWF@float
  \WF@fltmes
\else % putting here;
  \WF@info{Put \WF@wfname here:}%
  {\ifodd\if@twoside\c@page\else\@ne\fi % assign l/r to i/o placement
    \lccode`i`l\lccode`o`r\else \lccode`i`r\lccode`o`l\fi
   \xdef\WF@place{\the\lccode\lccode\WF@place}}% twice to get only l or r
  \hbox to\z@{% llap or rlap depending on {l} or {r}; calc effective width
   \@tempdima\wd\WF@box \@tempdimb\WF@ovh
   \advance\@tempdima-\@tempdimb \advance\@tempdima\columnsep
   \@tempdimb\hsize \advance\@tempdimb-\@tempdima
   \xdef\WF@adjlw{\the\@tempdima}%
   \ifnum `l=\WF@place % fig on left
    \if@RTL%
     \kern\@tempdimb \kern\columnsep
    \def\@tempa{\hss}% position to left of the gap
     \else%
    \hss % figure overlaps space to the left
    \def\@tempa{\kern\columnsep}% position to left of the gap
    \fi%
   \else  %  fig on right
    \if@RTL%
     \hss
      \@tempdima\z@
      \def\@tempa{\kern\columnsep}
     \else%
    \@tempdima\z@ % no left indentation
    \kern\@tempdimb \kern\columnsep
    \def\@tempa{\hss}% figure overlaps space to the right
    \fi%
   \fi
   \ifdim\@tempdimb<\hsize
  \xdef\WF@wrapil{\the\@tempdima \the\@tempdimb}% indentation and length
    \xdef\WF@adjtlm{\the\@tempdima}%
   \else
    \xdef\WF@wrapil{\z@ \the\hsize}%
```

```
    \xdef\WF@adjlw{\z@}\xdef\WF@adjtlm{\z@}%
   \fi
   \ifdim\pagetotal=\z@ % \WF@info{Put \WF@wfname at top of p.\thepage}%
    \global\advance\WF@size-\intextsep
   \else % \WF@info{Putting \WF@wfname in middle of page}%
    \setbox\WF@box\hbox{\lower\intextsep\box\WF@box}%
   \fi \dp\WF@box\z@ \box\WF@box \@tempa
  }% end \hbox to 0pt
 \aftergroup\WF@startwrapping % after the \endgroup which immediately follows
\fi}
```

7.120 xcolor-xetex-bidi.def

```
\ProvidesFile{xcolor-xetex-bidi.def}[2013/04/08 v0.2 bidi adaptations for xcolor package for XeT
\long\def\color@b@x#1#2#3%
 {\leavevmode\ifmmode\else\if@RTL\beginL\fi\fi
  \setbox\z@\hbox{\kern\fboxsep{\set@color\if@RTL\beginR\fi#3\if@RTL\endR\fi}\kern\fboxsep}%
  \dimen@\ht\z@\advance\dimen@\fboxsep\ht\z@\dimen@
  \dimen@\dp\z@\advance\dimen@\fboxsep\dp\z@\dimen@
  {#1{#2\color@block{\wd\z@}{\ht\z@}{\dp\z@}\box\z@}}\ifmmode\else\if@RTL\endL\fi\fi}
\def\normalcolor{\let\current@color\default@color\ifhmode\if@RTL\beginL\aftergroup\endR\fi\fi
\DeclareRobustCommand\color
 {\ifhmode\if@RTL\beginL\aftergroup\endR\fi\fi\@ifnextchar[\@undeclaredcolor\@declaredcolor}
\def\@undeclaredcolor[#1]#2%
 {\begingroup
  \let\@@cls\@empty
  \XC@getmodclr12{#1}{#2}{}%
   {\ifblendcolors
      \ifx\colorblend\@empty\else
        \edef\@@mix{\expandafter\@gobble\colorblend}\@tempswafalse
        \XC@coremodel\@@mod\@@clr\@xcolor@{}{}\@@mod\@@clr
      \fi
    \fi
    \ifconvertcolorsU
      \edef\@@tmp{\XC@tgt@mod{\@@mod}}%
      \convertcolorspec\@@mod\@@clr\@@tmp\@@clr \let\@@mod\@@tmp
    \fi
    \ifmaskcolors
      \convertcolorspec\@@mod\@@clr\XC@mmod\@@clr
      \let\@@mod\XC@mmod
      \XC@inflate\@@mod\XC@mclr\@@clr\@@tmp
      \expandafter\XC@mul\@@tmp,\@@clr
    \fi
    \edef\@@tmp{\noexpand\XC@undeclaredcolor{\@@mod}{\@@clr}}%
    \expandafter\endgroup\@@tmp}}
\def\@declaredcolor#1%
 {\XC@edef\XC@@tmp{#1}\XC@@tstfalse
  \ifcase\XC@type\XC@@tmp\relax \XC@@tsttrue\or \relax\else
    \ifblendcolors\XC@@tsttrue\fi \ifmaskcolors\XC@@tsttrue\fi
    \ifconvertcolorsU\XC@@tsttrue\fi
```

```
  \fi
  \ifXC@@tst
    \expandafter\XC@declaredcolor\else
    \expandafter\XC@declaredc@lor\fi}
\def\XC@undeclaredcolor#1#2%
 {\@ifundefinedmodel{#1}%
   {\c@lor@error{model `#1'}}%
   {\@nameuse{color@#1}\current@color{#2}%
    \edef\XC@current@color{\noexpand\xcolor@{}{\current@color}{#1}{#2}}%
   \XC@display}\ifhmode\if@RTL\beginR\aftergroup\endL\fi\fi\ignorespaces}
\def\XC@declaredc@lor
 {\XC@let@Nc\XC@current@color{\string\color@\XC@@tmp}%
  \edef\current@color{\XC@current@color}%
  \XC@display\ifhmode\if@RTL\beginR\aftergroup\endL\fi\fi\ignorespaces}
\DeclareRobustCommand\bidicolor
 {\@ifnextchar[\@bidiundeclaredcolor\@bidideclaredcolor}
\def\@bidiundeclaredcolor[#1]#2%
 {\begingroup
  \let\@@cls\@empty
  \XC@getmodclr12{#1}{#2}{}%
   {\ifblendcolors
      \ifx\colorblend\@empty\else
        \edef\@@mix{\expandafter\@gobble\colorblend}\@tempswafalse
        \XC@coremodel\@@mod\@@clr\@xcolor@{}{}\@@mod\@@clr
      \fi
    \fi
    \ifconvertcolorsU
      \edef\@@tmp{\XC@tgt@mod{\@@mod}}%
      \convertcolorspec\@@mod\@@clr\@@tmp\@@clr \let\@@mod\@@tmp
    \fi
    \ifmaskcolors
      \convertcolorspec\@@mod\@@clr\XC@mmod\@@clr
      \let\@@mod\XC@mmod
      \XC@inflate\@@mod\XC@mclr\@@clr\@@tmp
      \expandafter\XC@mul\@@tmp,\@@clr
    \fi
    \edef\@@tmp{\noexpand\XC@bidiundeclaredcolor{\@@mod}{\@@clr}}%
    \expandafter\endgroup\@@tmp}}
\def\XC@bidiundeclaredcolor#1#2%
 {\@ifundefinedmodel{#1}%
   {\c@lor@error{model `#1'}}%
   {\@nameuse{color@#1}\current@color{#2}%
   \edef\XC@current@color{\noexpand\xcolor@{}{\current@color}{#1}{#2}}%
    \XC@display}}
\def\@bidideclaredcolor#1%
 {\XC@edef\XC@@tmp{#1}\XC@@tstfalse
  \ifcase\XC@type\XC@@tmp\relax \XC@@tsttrue\or \relax\else
    \ifblendcolors\XC@@tsttrue\fi \ifmaskcolors\XC@@tsttrue\fi
    \ifconvertcolorsU\XC@@tsttrue\fi
  \fi
```

```
  \ifXC@@tst
    \expandafter\XC@bidideclaredcolor\else
    \expandafter\XC@bidideclaredc@lor\fi}
\def\XC@bidideclaredcolor
 {\XC@split\XC@@tmp
  \edef\@@tmp{\noexpand\@bidiundeclaredcolor[\@@mod]{\@@clr}}%
  \expandafter\endgroup\@@tmp}
\def\XC@bidideclaredc@lor
 {\XC@let@Nc\XC@current@color{\string\color@\XC@@tmp}%
  \edef\current@color{\XC@current@color}%
  \XC@display}
\def\color@box#1#2{\color@b@x\relax{\bidicolor#1{#2}}}
\def\color@fbox#1#2#3#{\protect\color@fb@x{#1}{#2}{#3}}
\def\color@fb@x#1#2#3#4%
 {\color@b@x{\fboxsep\z@\bidicolor#1{#2}\XC@fbox}%
   {\@ifxempty{#3}{\bidicolor#1}{\bidicolor#3}{#4}}}
\def\color@setgroup{\begingroup\ifhmode\if@RTL\beginL\aftergroup\endR\fi\fi\set@color\ifhmode
```

7.121 latex-xetex-bidi.def

```
\ProvidesFile{latex-xetex-bidi.def}[2015/11/14 v1.2.4 bidi adaptations  for `latex.ltx' for XeTe
\newcommand{\TeXXeTOn}{\TeXXeTstate=1 }
\newcommand{\TeXXeTOff}{\TeXXeTstate=0 }
\TeXXeTOn
\def\bidi@RTL@everypar{{\setbox\z@\lastbox\if@RTL\beginR\else\beginL\fi\ifvoid\z@\else\usebox
   \let\bidi@o@everypar=\everypar
   \newtoks\bidi@n@everypar
   \bidi@n@everypar\expandafter{\the\bidi@o@everypar}
   \bidi@o@everypar{\bidi@RTL@everypar\the\bidi@n@everypar}
   \let\everypar=\bidi@n@everypar
\def\moreLRE{\bracetext \aftergroup\endL \beginL\@RTLfalse}
\def\moreRLE{\bracetext \aftergroup\endR \beginR\@RTLtrue}
\protected\def\hboxR{\hbox\bgroup
 \everyhbox{%
  \aftergroup\egroup
  \everyhbox{}%
  \beginR
  \bgroup
  \aftergroup\endR
  \aftergroup\egroup
 }\hbox}
\protected\def\hboxL{\hbox\bgroup
 \everyhbox{%
  \aftergroup\egroup
  \everyhbox{}%
  \beginL
  \bgroup
  \aftergroup\endL
  \aftergroup\egroup
 }\hbox}
```

```
\protected\def\vboxR{\vbox\bgroup
 \everyvbox{%
  \aftergroup\egroup
  \everyvbox{}%
  \@RTLtrue
  \bgroup
  \aftergroup\egroup
 }\vbox}
\protected\def\vboxL{\vbox\bgroup
 \everyvbox{%
  \aftergroup\egroup
  \everyvbox{}%
  \@RTLfalse
  \bgroup
  \aftergroup\egroup
 }\vbox}
\def\LTR{\par\@RTLfalse\@RTL@footnotefalse\hsize\linewidth\parshape\z@}
\def\endLTR{\par}
\def\RTL{\par\@RTLtrue\@RTL@footnotetrue\hsize\linewidth\parshape\z@}
\def\endRTL{\par}
\def\setRTL{\@RTLtrue\@RTL@footnotetrue}
\def\setLTR{\@RTLfalse\@RTL@footnotefalse}
\let\unsetRTL=\setLTR
\let\unsetLTR=\setRTL
\let\LR=\LRE
\let\RL=\RLE
\def\@ensure@RTL#1{\if@RTL#1\else\RLE{#1}\fi}
\def\@ensure@LTR#1{\if@RTL\LRE{#1}\else#1\fi}
\let\@ensure@RL=\@ensure@RTL
\let\@ensure@LR=\@ensure@LTR
\def\@ensure@dir#1{\if@RTL\RLE{#1}\else{#1}\fi}
\let\@ensure@maindir=\@ensure@dir
\def\@@RTL{RTL}
\def\@@LTR{LTR}
\def\save@dir{\if@RTL\gdef\saved@@dir{RTL}\else\gdef\saved@@dir{LTR}\fi}
\def\reset@dir{\ifx\saved@@dir\@@RTL\setRTL\else\ifx\saved@@dir\@@LTR\setLTR\else\relax\fi\fi
\let\@@TeX\TeX
\def\TeX{\@ensure@LTR{\@@TeX}}
\let\@@LaTeX\LaTeX
\def\LaTeX{\@ensure@LTR{\@@LaTeX}}
\let\@@LaTeXe\LaTeXe
\def\LaTeXe{\@ensure@LTR{\@@LaTeXe}}
\long\def\bidi@reflect@box#1{%
  \leavevmode
  \setbox\z@\hbox{{#1}}%
 \setbox\tw@\hbox{\special{x:gsave}\special{x:scale -1 1}\rlap{\copy\z@}\special{x:grestore}}%
  \hb@xt@\wd\z@{\kern\wd\z@\box\tw@\hss}%
}
\def\XeTeX{\LR{\leavevmode$\smash{\hbox{X\lower.5ex
  \hbox{\kern-.125em\bidi@reflect@box{E}}\kern-.1667em \TeX}}$}}
```

```
\def\XeLaTeX{\LR{\leavevmode$\smash{\hbox{X\lower.5ex
  \hbox{\kern-.125em\bidi@reflect@box{E}}\kern-.1667em \LaTeX}}$}}
\let\setRL=\setRTL
\let\setLR=\setLTR
\let\unsetRL=\setLTR
\def\bidi@tabular@RTLcases{\let\@halignto\@empty\@bidi@tabular@RTLcases}
\@ifpackageloaded{array}{%
\def\@bidi@tabular@RTLcases{\@RTLtabtrue%
  \leavevmode
  \hbox \bgroup $\left.\col@sep\tabcolsep \let\d@llarbegin\begingroup
                                      \let\d@llarend\endgroup
  \@tabarray}
\def\endbidi@tabular@RTLcases{\endarray \right\rbrace$\egroup\@RTLtabfalse}
}{%
\def\@bidi@tabular@RTLcases{\@RTLtabtrue%
   \leavevmode \hbox \bgroup
   $\left.\let\@acol\@tabacol
   \let\@classz\@tabclassz
   \let\@classiv\@tabclassiv \let\\\@tabularcr\@tabarray}

\def\endbidi@tabular@RTLcases{\crcr\egroup\if@RTLtab\egroup\endR\egroup\fi
                  \egroup\right\rbrace $\egroup
                  \@RTLtabfalse}
}
\def\RTLcases#1{\left.\vcenter{\normalbaselines\m@th
    \ialign{$##\hfil$&\quad{##}\hfil\crcr#1\crcr}}\,\right\}}
\renewenvironment{RTLcases}{%
  \bidi@matrix@check\RTLcases\env@RTLcases
}{%
  \endbidi@tabular@RTLcases%
}
\def\env@RTLcases{%
  \let\@ifnextchar\bidi@new@ifnextchar
  \def\arraystretch{1.2}%
  \bidi@tabular@RTLcases{@{}r@{\quad}r@{}}%
}
\def\SepMark#1{\gdef\@SepMark{\if@RTL\fi#1\if@RTL\fi}}
\SepMark{.}
\def\@thmcountersep{\@SepMark}
\def\setRTLbibitems{\@RTLbibitemstrue\@LTRbibitemsfalse}
\def\setLTRbibitems{\@LTRbibitemstrue\@RTLbibitemsfalse}
\def\setdefaultbibitems{\@RTLbibitemsfalse\@LTRbibitemsfalse}
\def\list#1#2{%
  \ifnum \@listdepth >5\relax
    \@toodeep
  \else
    \global\advance\@listdepth\@ne
  \fi
  \rightmargin\z@
  \listparindent\z@
```

```
  \itemindent\z@
  \csname @list\romannumeral\the\@listdepth\endcsname
  \def\@itemlabel{#1}%
  \let\makelabel\@mklab
  \@nmbrlistfalse
  #2\relax
  \@trivlist
  \parskip\parsep
  \parindent\listparindent
  \advance\linewidth -\rightmargin
  \advance\linewidth -\leftmargin
  \if@bidi@list@minipage@parbox
  \if@RTL
  \advance\@totalleftmargin \leftmargin
  \else
  \advance\@totalleftmargin \rightmargin
  \fi
  \else
  \if@RTLtab
  \if@bidi@list@minipage@parbox@not@nob
  \if@RTL
    \advance\@totalleftmargin \rightmargin
  \else
    \advance\@totalleftmargin \leftmargin
  \fi
  \else
  \if@RTL
  \advance\@totalleftmargin \leftmargin
  \else
  \advance\@totalleftmargin \rightmargin
  \fi\fi
  \else
  \if@RTL
    \advance\@totalleftmargin \rightmargin
  \else
    \advance\@totalleftmargin \leftmargin
  \fi\fi\fi
  \parshape \@ne \@totalleftmargin \linewidth
  \ignorespaces}
\long\def\@iiiparbox#1#2[#3]#4#5{%
  \leavevmode
  \@pboxswfalse
  \if@RTLtab\@bidi@list@minipage@parbox@not@nobtrue\fi
 \if@RTL\if#1t\@bidi@list@minipage@parboxtrue\else\if#1b\@bidi@list@minipage@parboxtrue\fi\fi
  \setlength\@tempdima{#4}%
  \@begin@tempboxa\vbox{\hsize\@tempdima\@parboxrestore#5\@@par}%
    \ifx\relax#2\else
      \setlength\@tempdimb{#2}%
      \edef\@parboxto{to\the\@tempdimb}%
    \fi
```

```
    \if#1b\vbox
    \else\if #1t\vtop
    \else\ifmmode\vcenter
    \else\@pboxswtrue $\vcenter
    \fi\fi\fi
    \@parboxto{\let\hss\vss\let\unhbox\unvbox
       \csname bm@#3\endcsname}%
    \if@pboxsw \m@th$\fi
  \@end@tempboxa}
\def\bidi@lrbox#1{%
  \edef\reserved@a{%
    \endgroup
    \setbox#1\hbox{%
      \begingroup\aftergroup}%
        \def\noexpand\@currenvir{\@currenvir}%
        \def\noexpand\@currenvline{\on@line}}%
  \reserved@a
    \@endpefalse
    \color@begingroup
      \ignorespaces}
\def\endbidi@lrbox{\unskip\color@endgroup}
\newenvironment{LTRitems}
                 {\par\@RTLfalse
                  \if@bidi@list@minipage@parbox
            \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth
                  \else \if@RTLtab\if@bidi@list@minipage@parbox@not@nob
            \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\else
            \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\fi
            \else \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\fi\fi
                  \ignorespaces}{\vskip\z@}
\newenvironment{RTLitems}
                 {\par\@RTLtrue
                  \if@bidi@list@minipage@parbox
            \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth
                  \else \if@RTLtab\if@bidi@list@minipage@parbox@not@nob
            \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\else
            \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\fi
            \else \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\fi\fi
                  \ignorespaces}{\vskip\z@}
\newenvironment{LTRbibitems}
                 {\par\@RTLfalse
                  \if@bidi@list@minipage@parbox
            \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth
                  \else \if@RTLtab\if@bidi@list@minipage@parbox@not@nob
            \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\else
            \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\fi
            \else \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\fi\fi
                  \ignorespaces}{\vskip\z@}
\newenvironment{RTLbibitems}
                 {\par\@RTLtrue
```

```
                  \if@bidi@list@minipage@parbox
            \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth
                  \else \if@RTLtab\if@bidi@list@minipage@parbox@not@nob
            \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\else
            \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\fi
            \else \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\fi\fi
                  \ignorespaces}{\vskip\z@}
\def\raggedright{%
  \let\\\@centercr\@rightskip\@flushglue \rightskip\@rightskip
  \leftskip\z@skip
  \parindent\z@\parfillskip\z@skip}
\let\bidi@orig@raggedleft\raggedleft
\let\bidi@orig@raggedright\raggedright
\renewcommand\raggedleft{\if@bidi@list@minipage@parbox\bidi@orig@raggedright\else\if@RTLtab\b
\renewcommand\raggedright{\if@bidi@list@minipage@parbox\bidi@orig@raggedleft\else\if@RTLtab\b
\newcommand{\bidi@raggedright}{\if@RTL\raggedleft\else\raggedright\fi}
\newcommand{\bidi@raggedleft}{\if@RTL\raggedright\else\raggedleft\fi}
\def\centerline#1{%
\if@RTL\@@line{\hss\beginR#1\endR\hss}
\else\@@line{\hss#1\hss}\fi}
\def\leftline#1{%
\if@RTL\@@line{\beginR#1\endR\hss}
\else\@@line{#1\hss}\fi}
\def\rightline#1{%
\if@RTL\@@line{\hss\beginR#1\endR}
\else\@@line{\hss#1}\fi}
\let\bidi@orig@leftline\leftline
\let\bidi@orig@rightline\rightline
\def\leftline#1{\ifhmode\if@RTL\bidi@orig@rightline{#1}\else\bidi@orig@leftline{#1}\fi\else\i
\def\rightline#1{\ifhmode\if@RTL\bidi@orig@leftline{#1}\else\bidi@orig@rightline{#1}\fi\else\
\def\bidirlap#1{\hb@xt@\z@{\if@RTL\hss\fi#1\if@RTL\else\hss\fi}}
\def\bidillap#1{\hb@xt@\z@{\if@RTL\else\hss\fi#1\if@RTL\hss\fi}}
\def\@hangfrom#1{\setbox\@tempboxa\hbox{{#1}}%
      \hangindent \if@RTL-\else\fi\wd\@tempboxa\noindent\box\@tempboxa}
\def\narrower{%
  \advance\if@RTL\rightskip\else\leftskip\fi\parindent
  \advance\if@RTL\leftskip\else\rightskip\fi\parindent}
\def\underline#1{%
  \relax
  \ifmmode\@@underline{#1}%
  \else
\if@RTL $\@@underline{\hbox{\beginR#1\endR}}\m@th$\relax
\else
$\@@underline{\hbox{#1}}\m@th$\relax\fi\fi}
\if@compatibility
   \let\undertext=\underline
\fi
\global\@RTLtabfalse
\def\@tabular{\if@RTL\@RTLtabtrue\fi
   \leavevmode \hbox \bgroup \if@RTLtab\beginR \fi
```

```
    $\let\@acol\@tabacol
    \let\@classz\@tabclassz
    \let\@classiv\@tabclassiv \let\\\@tabularcr\@tabarray}
\def\endtabular{\crcr\egroup\if@RTLtab\egroup\endR\egroup\fi
                  \egroup $\if@RTLtab\endR\fi\egroup
                  \@RTLtabfalse}
\expandafter \let \csname endtabular*\endcsname = \endtabular
\def\@array[#1]#2{%
  \if #1t\vtop \else \if#1b\vbox \else \vcenter \fi\fi
  \bgroup
  \setbox\@arstrutbox\hbox{%
    \vrule \@height\arraystretch\ht\strutbox
           \@depth\arraystretch \dp\strutbox
           \@width\z@}%
  \@mkpream{#2}%
  \edef\@preamble{%
    \ialign \noexpand\@halignto
      \bgroup \@arstrut \@preamble \tabskip\z@skip \cr}%
  \let\@startpbox\@@startpbox \let\@endpbox\@@endpbox
  \let\tabularnewline\\%
    \let\par\@empty
    \let\@sharp##%
    \set@typeset@protect
    \lineskip\z@skip\baselineskip\z@skip
    \ifhmode \@preamerr\z@ \@@par\fi
  \if@RTLtab\hbox\bgroup\beginR\if #1t\vtop \else \vbox \fi\bgroup\fi
    \@preamble}
\def\array{\let\@acol\@arrayacol \let\@classz\@arrayclassz
 \let\@classiv\@arrayclassiv
 \let\\\@arraycr\let\@halignto\@empty\@RTLtabfalse\@tabarray}
\def\@testpach#1{\@chclass \ifnum \@lastchclass=\tw@ 4 \else
    \ifnum \@lastchclass=3 5 \else
     \z@ \if #1c\@chnum \z@ \else
                          \if \if@RTLtab#1r\else#1l\fi\@chnum \@ne \else
                          \if \if@RTLtab#1l\else#1r\fi\@chnum \tw@ \else
          \@chclass \if #1|\@ne \else
                    \if #1@\tw@ \else
                    \if #1p3 \else \z@ \@preamerr 0\fi
  \fi  \fi  \fi  \fi  \fi  \fi
\fi}
\def\bm@l{\if@RTL\hss\unhbox\@tempboxa\else\unhbox\@tempboxa\hss\fi}
\def\bm@r{\if@RTL\unhbox\@tempboxa\hss\else\hss\unhbox\@tempboxa\fi}
\def\bm@t{\unhbox\@tempboxa\hss}
\def\bm@b{\hss\unhbox\@tempboxa}
\def\@dottedtocline#1#2#3#4#5{%
  \ifnum #1>\c@tocdepth \else
    \vskip \z@ \@plus.2\p@
   {\if@RTL\rightskip\else\leftskip\fi #2\relax \if@RTL\leftskip\else\rightskip\fi \@tocrmarg \
     \parindent #2\relax\@afterindenttrue
     \interlinepenalty\@M
```

```
      \leavevmode
      \@tempdima #3\relax
    \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\rightski
      {#4}\nobreak
      \leaders\hbox{$\m@th
         \mkern \@dotsep mu\hbox{.}\mkern \@dotsep
         mu$}\hfill
      \nobreak
      \hb@xt@\@pnumwidth{{\hfil\normalfont \normalcolor #5}}%
      \par}%
  \fi}
\def\RTL@outputdblcol{%
\if@firstcolumn \global\@firstcolumnfalse
\global\setbox\@leftcolumn \box\@outputbox
\else \global\@firstcolumntrue
\setbox\@outputbox \vbox {\hbox to\textwidth {%
\hskip \columnwidth
\hfil \vrule width\columnseprule \hfil
\hbox to\columnwidth {\box\@leftcolumn \hss}%
\hskip -\textwidth
\hbox to\columnwidth{\box\@outputbox \hss}%
\hskip \columnsep
\hskip \columnwidth }}%
\@combinedblfloats \@outputpage
\begingroup \@dblfloatplacement \@startdblcolumn
\@whilesw\if@fcolmade \fi
{\@outputpage \@startdblcolumn }\endgroup
\fi}
\def\LTR@outputdblcol{%
  \if@firstcolumn
    \global \@firstcolumnfalse
    \global \setbox\@leftcolumn \box\@outputbox
  \else
    \global \@firstcolumntrue
    \setbox\@outputbox \vbox {%
                          \hb@xt@\textwidth {%
                            \hb@xt@\columnwidth {%
                              \box\@leftcolumn \hss}%
                            \hfil
                            {\normalcolor\vrule \@width\columnseprule}%
                            \hfil
                            \hb@xt@\columnwidth {%
                              \box\@outputbox \hss}%
                                          }%
                             }%
    \@combinedblfloats
    \@outputpage
    \begingroup
      \@dblfloatplacement
      \@startdblcolumn
```

```
      \@whilesw\if@fcolmade \fi
        {\@outputpage
         \@startdblcolumn}%
    \endgroup
  \fi
}
\renewcommand{\@outputdblcol}{\if@RTLmain\RTL@outputdblcol\else\LTR@outputdblcol\fi}
\newcommand{\RTLdblcol}{\renewcommand{\@outputdblcol}{\RTL@outputdblcol}}
\newcommand{\LTRdblcol}{\renewcommand{\@outputdblcol}{\LTR@outputdblcol}}
\def\LTRmarginpar{%
  \ifhmode
    \@bsphack
    \@floatpenalty -\@Mii
  \else
    \@floatpenalty-\@Miii
  \fi
  \ifinner
    \@parmoderr
    \@floatpenalty\z@
  \else
    \@next\@currbox\@freelist{}{}%
    \@next\@marbox\@freelist{\global\count\@marbox\m@ne}%
       {\@floatpenalty\z@
        \@fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}%
  \fi
  \@ifnextchar [\@LTRxmpar\@LTRympar}
\long\def\@LTRxmpar[#1]#2{%
  \@LTRsavemarbox\@marbox{#1}%
  \@LTRsavemarbox\@currbox{#2}%
  \@xympar}
\long\def\@LTRympar#1{%
  \@LTRsavemarbox\@marbox{#1}%
  \global\setbox\@currbox\copy\@marbox
  \@xympar}
\long\def \@LTRsavemarbox #1#2{%
  \global\setbox #1%
    \color@vbox
      \vtop{%
        \hsize\marginparwidth
        \@parboxrestore
        \@LTRmarginparreset
        #2%
        \@minipagefalse
        \outer@nobreak
        }%
    \color@endbox
}
\def \@LTRmarginparreset {%
        \reset@font
        \normalsize
```

```
        \@minipagetrue
        \everypar{\@minipagefalse\everypar{}\beginL}%
}
\def\RTLmarginpar{%
  \ifhmode
    \@bsphack
    \@floatpenalty -\@Mii
  \else
    \@floatpenalty-\@Miii
  \fi
  \ifinner
    \@parmoderr
    \@floatpenalty\z@
  \else
    \@next\@currbox\@freelist{}{}%
    \@next\@marbox\@freelist{\global\count\@marbox\m@ne}%
       {\@floatpenalty\z@
        \@fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}%
  \fi
  \@ifnextchar [\@RTLxmpar\@RTLympar}
\long\def\@RTLxmpar[#1]#2{%
  \@RTLsavemarbox\@marbox{#1}%
  \@RTLsavemarbox\@currbox{#2}%
  \@xympar}
\long\def\@RTLympar#1{%
  \@RTLsavemarbox\@marbox{#1}%
  \global\setbox\@currbox\copy\@marbox
  \@xympar}
\long\def \@RTLsavemarbox #1#2{%
  \global\setbox #1%
    \color@vbox
      \vtop{%
        \hsize\marginparwidth
        \@parboxrestore
        \@RTLmarginparreset
        #2%
        \@minipagefalse
        \outer@nobreak
        }%
    \color@endbox
}
\def \@RTLmarginparreset {%
        \reset@font
        \normalsize
        \@minipagetrue
        \everypar{\@minipagefalse\everypar{}\beginR}%
}
\def\@addmarginpar{\@next\@marbox\@currlist{\@cons\@freelist\@marbox
    \@cons\@freelist\@currbox}\@latexbug\@tempcnta\@ne
    \if@twocolumn
```

```
        \if@firstcolumn \@tempcnta\m@ne \fi
    \else
      \if@mparswitch
         \ifodd\c@page \else\@tempcnta\m@ne \fi
      \fi
      \if@reversemargin \@tempcnta -\@tempcnta \fi
    \fi
    \ifnum\@tempcnta <\z@  \global\setbox\@marbox\box\@currbox \fi
    \@tempdima\@mparbottom
    \advance\@tempdima -\@pageht
    \advance\@tempdima\ht\@marbox
    \ifdim\@tempdima >\z@
      \@latex@warning@no@line {Marginpar on page \thepage\space moved}%
    \else
      \@tempdima\z@
    \fi
    \global\@mparbottom\@pageht
    \global\advance\@mparbottom\@tempdima
    \global\advance\@mparbottom\dp\@marbox
    \global\advance\@mparbottom\marginparpush
    \advance\@tempdima -\ht\@marbox
    \global\setbox \@marbox
                   \vbox {\vskip \@tempdima
                          \box \@marbox}%
    \global \ht\@marbox \z@
    \global \dp\@marbox \z@
    \kern -\@pagedp
    \nointerlineskip
    \hb@xt@\columnwidth
    {\if@RTL\if@LTRmarginpar\beginL\else\beginR\fi\else\if@RTLmarginpar\beginR\else\beginL\fi
          \hskip\columnwidth \hskip\marginparsep
       \else
          \hskip -\marginparsep \hskip -\marginparwidth
       \fi
     \box\@marbox \hss\if@RTL\if@LTRmarginpar\endL\else\endR\fi\else\if@RTLmarginpar\endR\else
    \nointerlineskip
    \hbox{\vrule \@height\z@ \@width\z@ \@depth\@pagedp}}
\long\def\@ympar#1{%
  \@savemarbox\@marbox{\if@RTL\if@LTRmarginpar\@RTLfalse\else\@RTLtrue\fi\else\if@RTLmarginpar
   \global\setbox\@currbox\copy\@marbox
   \@xympar}
\def\setRTLmarginpar{\@RTLmarginpartrue\@LTRmarginparfalse}
\def\setLTRmarginpar{\@LTRmarginpartrue\@RTLmarginparfalse}
\def\setdefaultmarginpar{\@RTLmarginparfalse\@LTRmarginparfalse}
\def\@stopline{\unskip\@stopfield\if@rjfield \global\@rjfieldfalse
    \@tempdima\@totalleftmargin \advance\@tempdima\linewidth
\hbox to\@tempdima{\if@RTL\beginR\fi\@itemfudge\hskip\dimen\@curtabmar
    \box\@curline\hfil\box\@curfield\if@RTL\endR\fi}\else\@addfield
    \hbox to\linewidth{\if@RTL\beginR\fi\@itemfudge
    \hskip\dimen\@curtabmar\box\@curline\hfil\if@RTL\endR\fi}%
```

```
\fi}
\def\@outputpage{%
\begingroup           % the \endgroup is put in by \aftergroup
  \let \protect \noexpand
  \@resetactivechars
  \global\let\@@if@newlist\if@newlist
  \global\@newlistfalse
  \@parboxrestore
  \shipout \vbox{%
    \set@typeset@protect
    \aftergroup \endgroup
    \aftergroup \set@typeset@protect
                                % correct? or just restore by ending
                                % the group?
  \if@specialpage
    \global\@specialpagefalse\@nameuse{ps@\@specialstyle}%
  \fi
  \if@twoside
    \ifodd\count\z@ \let\@thehead\@oddhead \let\@thefoot\@oddfoot
         \let\@themargin\oddsidemargin
    \else \let\@thehead\@evenhead
       \let\@thefoot\@evenfoot \let\@themargin\evensidemargin
    \fi
    \ifx\@thehead\@empty \let\@thehead\hfil \fi
    \ifx\@thefoot\@empty \let\@thefoot\hfil \fi
    \else %% not @twoside
    \ifx\@oddhead\@empty \let\@thehead\hfil \fi
    \ifx\@oddfoot\@empty \let\@thefoot\hfil \fi
  \fi
  \reset@font
  \normalsize
  \normalsfcodes
  \let\label\@gobble
  \let\index\@gobble
  \let\glossary\@gobble
  \baselineskip\z@skip \lineskip\z@skip \lineskiplimit\z@
    \@begindvi
    \vskip \topmargin
    \moveright\@themargin \vbox {%
      \setbox\@tempboxa \vbox to\headheight{%
        \vfil
        \color@hbox
          \normalcolor
       \hb@xt@\textwidth{\if@RTLmain\@RTLtrue\beginR\else\@RTLfalse\beginL\fi\@thehead\if@RTLm
        \color@endbox
        }%                          %% 22 Feb 87
      \dp\@tempboxa \z@
      \box\@tempboxa
      \vskip \headsep
      \box\@outputbox
```

```
      \baselineskip \footskip
      \color@hbox
        \normalcolor
     \hb@xt@\textwidth{\if@RTLmain\@RTLtrue\beginR\else\@RTLfalse\beginL\fi\@thefoot\if@RTLma
      \color@endbox
      }%
   }%
  \global\let\if@newlist\@@if@newlist
  \global \@colht \textheight
  \stepcounter{page}%
  \let\firstmark\botmark
}
\long\def\@makecaption#1#2{%
  \vskip\abovecaptionskip
  \sbox\@tempboxa{#1: #2}%
  \ifdim \wd\@tempboxa >\hsize
    \if@RTL\beginR\fi#1: #2\if@RTL\endR\fi\par
  \else
    \global \@minipagefalse
   \hb@xt@\hsize{\if@RTL\beginR\fi\hfil\box\@tempboxa\hfil\if@RTL\endR\fi}%
  \fi
  \vskip\belowcaptionskip}
\let\bidi@saved@eqno=\eqno
\let\bidi@saved@leqno=\leqno
\def\eqno{\ifnum\predisplaydirection<\z@ \bidi@saved@leqno \else \bidi@saved@eqno \fi}
\def\leqno{\ifnum\predisplaydirection<\z@ \bidi@saved@eqno \else \bidi@saved@leqno \fi}
\@ifpackageloaded{amsmath}{}{
\def\@eqnnum{{\normalfont \normalcolor \if@RTL\beginR\fi(\theequation)\if@RTL\endR\fi}}
}
\input{footnote-xetex-bidi.def}
\if@twocolumn
  \let\autofootnoterule\relax
  \let\leftfootnoterule\relax
  \let\rightfootnoterule\relax
  \textwidthfootnoterule
\fi
\if@bidi@csundef{@idxitem}{}{%
\renewcommand\@idxitem{\par\hangindent \if@RTL-\fi40\p@}%
}
\@ifclassloaded{article}{\@ifclassloaded{svmult}{}{\input{article-xetex-bidi.def}}}{}
\@ifclassloaded{extarticle}{\input{extarticle-xetex-bidi.def}}{}
\@ifclassloaded{artikel1}{\input{artikel1-xetex-bidi.def}}{}
\@ifclassloaded{artikel2}{\input{artikel2-xetex-bidi.def}}{}
\@ifclassloaded{artikel3}{\input{artikel3-xetex-bidi.def}}{}
\@ifclassloaded{amsart}{\input{amsart-xetex-bidi.def}}{}
\@ifclassloaded{letter}{\input{letter-xetex-bidi.def}}{}
\@ifclassloaded{scrlettr}{\input{scrlettr-xetex-bidi.def}}{}
\@ifclassloaded{extletter}{\input{extletter-xetex-bidi.def}}{}
\@ifclassloaded{memoir}{\input{memoir-xetex-bidi.def}}{}
\@ifclassloaded{refrep}{\input{refrep-xetex-bidi.def}}{}
```

```
\@ifclassloaded{extreport}{\input{extreport-xetex-bidi.def}}{}
\@ifclassloaded{report}{\@ifpackageloaded{flowfram}{}{\input{report-xetex-bidi.def}}}{}
\@ifclassloaded{rapport1}{\input{rapport1-xetex-bidi.def}}{}
\@ifclassloaded{rapport3}{\input{rapport3-xetex-bidi.def}}{}
\@ifclassloaded{scrartcl}{\input{scrartcl-xetex-bidi.def}}{}
\@ifclassloaded{scrbook}{\input{scrbook-xetex-bidi.def}}{}
\@ifclassloaded{scrreprt}{\input{scrreprt-xetex-bidi.def}}{}
\@ifclassloaded{amsbook}{\input{amsbook-xetex-bidi.def}}{}
\@ifclassloaded{extbook}{\input{extbook-xetex-bidi.def}}{}
\@ifclassloaded{boek}{\input{boek-xetex-bidi.def}}{}
\@ifclassloaded{boek3}{\input{boek3-xetex-bidi.def}}{}
\@ifclassloaded{book}{\@ifpackageloaded{flowfram}{}{\input{book-xetex-bidi.def}}}{}
\@ifclassloaded{bookest}{\input{bookest-xetex-bidi.def}}{}
\@ifclassloaded{combine}{\input{combine-xetex-bidi.def}}{}
\@ifpackageloaded{amsmath}{}{%
\@iftagsloaded{leqno}{\input{leqno-xetex-bidi.def}}{}
\@iftagsloaded{fleqn}{\input{fleqn-xetex-bidi.def}}{}
}
\@ifpackageloaded{mathtools}{\RequirePackage{graphicx}}{}
\@ifpackageloaded{crop}{\RequirePackage{graphicx}}{}
\@ifpackageloaded{sidecap}{\RequirePackage{ragged2e}}{}
\@ifpackageloaded{floatrow}{\RequirePackage{color}}{}
\@ifpackageloaded{algorithm2e}{\input{algorithm2e-xetex-bidi.def}}{}
\@ifpackagewith{algorithm2e}{algonl}{%
\renewcommand{\theAlgoLine}{\expandafter\csname the\algocf@float\endcsname\@SepMark\arabic{Alg
}{}
\@ifpackagewith{algorithm2e}{algopart}{\renewcommand{\algocf@within}{part}}{}
\@ifpackagewith{algorithm2e}{algochapter}{\renewcommand{\algocf@within}{chapter}}{}
\@ifpackagewith{algorithm2e}{algosection}{\renewcommand{\algocf@within}{section}}{}
\@ifpackageloaded{amsmath}{\input{amsmath-xetex-bidi.def}}{}
\@ifpackageloaded{amstext}{\input{amstext-xetex-bidi.def}}{}
\@ifpackageloaded{amsthm}{\input{amsthm-xetex-bidi.def}}{}
\@ifpackageloaded{animate}{\input{animate-xetex-bidi.def}}{}
\@ifpackageloaded{breqn}{\input{breqn-xetex-bidi.def}}{}
\@ifpackageloaded{cals}{\input{cals-xetex-bidi.def}}{}
\@ifpackageloaded{caption}{\input{caption-xetex-bidi.def}}{}
\@ifpackageloaded{caption3}{\input{caption3-xetex-bidi.def}}{}
\@ifpackageloaded{floatrow}{\input{floatrow-xetex-bidi.def}}{}
\@ifpackageloaded{crop}{\@ifclassloaded{memoir}{}{\input{crop-xetex-bidi.def}}}{}
\@ifpackageloaded{color}{\input{color-xetex-bidi.def}}{}
\@ifpackageloaded{cutwin}{\input{cutwin-xetex-bidi.def}}{}
\@ifpackageloaded{cuted}{\input{cuted-xetex-bidi.def}}{}
\@ifpackageloaded{xcolor}{\input{xcolor-xetex-bidi.def}}{}
\@ifpackageloaded{colortbl}{\input{colortbl-xetex-bidi.def}}{}
\@ifpackageloaded{float}{\@ifpackageloaded{floatrow}{}{\input{float-xetex-bidi.def}}}{}
\@ifpackageloaded{flowfram}{\input{flowfram-xetex-bidi.def}}{}
\@ifpackageloaded{xltxtra}{\input{xltxtra-xetex-bidi.def}}{}
\@ifpackageloaded{wrapfig}{\input{wrapfig-xetex-bidi.def}}{}
\@ifpackageloaded{graphicx}{\input{graphicx-xetex-bidi.def}}{}
\@ifpackageloaded{geometry}{\input{geometry-xetex-bidi.def}}{}
```

```
\@ifpackageloaded{hvfloat}{\input{hvfloat-xetex-bidi.def}}{}
\@ifpackageloaded{ntheorem}{\input{ntheorem-xetex-bidi.def}}{}
\@ifpackageloaded{tabularx}{\input{tabularx-xetex-bidi.def}}{}
\@ifpackageloaded{longtable}{\input{longtable-xetex-bidi.def}}{}
\@ifpackageloaded{hyperref}{\input{hyperref-xetex-bidi.def}}{}
\@ifpackageloaded{ntheorem-hyper}{\input{ntheorem-hyper-xetex-bidi.def}}{}
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7.122 xltxtra-xetex-bidi.def

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9 Change History

v13.9
General: Added implementaion of the package. 0
v14.2
General: Fixed the wrong order of toc, lot, lof, etc with multicol package. 298
v14.3
General: Removed \leavevmode to avoid extra \par. 140