



# The XePersian *Package*

Documentation for *version 15.7*

*to my Master, Ferdowsi The Great*

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<https://github.com/persian-tex/xepersian/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 XePersian *Package*

## Persian for $\text{\LaTeX}$ 2 $\epsilon$ , using Xe $\text{\TeX}$ engine

Documentation for [version 15.7](#)

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

December 28, 2014

## Contents

<b>1</b>	<b>Introduction</b>	<b>4</b>			
1.1	Important Notes . . . . .	4			
1.2	XePersian Info On The Terminal and In The Log File . . . . .	4			
<b>2</b>	<b>Basics</b>	<b>5</b>			
2.1	Loading The Package . . . . .	5			
2.2	XePersian's Symbol . . . . .	6			
2.3	Commands for Version number, and Date of The Package . . . . .	6			
2.4	Options of The Package . . . . .	6			
2.4.1	<code>defaultlatinfontfeatures</code> Option . . . . .	6	2.6.1	Basic Font Commands . . . . .	39
2.4.2	<code>extrafootnotefeatures</code> Option . . . . .	6	2.6.2	Defining Extra Persian and Latin Fonts . . . . .	39
2.4.3	Kashida Option . . . . .	7	2.6.3	Choosing Persian Sans Font . . . . .	40
2.4.4	<code>quickindex</code> Option . . . . .	7	2.6.4	Choosing Persian Mono Font . . . . .	40
2.4.5	<code>quickindex-variant1</code> Option . . . . .	7	2.6.5	Choosing Persian Iranic Font . . . . .	40
2.4.6	<code>quickindex-variant2</code> Option . . . . .	7	2.6.6	Choosing Persian Navar Font . . . . .	40
2.4.7	<code>localise</code> Option . . . . .	7	2.6.7	Choosing Persian Pook Font . . . . .	40
2.4.8	Localizations of the keys and key values of <code>graphicx</code> package . . . . .	35	2.6.8	Choosing Persian Sayeh Font . . . . .	40
2.4.9	Localizations of font features and font feature options . . . . .	36	2.6.9	Choosing Latin Sans Font . . . . .	40
2.5	A Sample Input $\text{\TeX}$ File . . . . .	38	2.6.10	Choosing Latin Mono Font . . . . .	40
2.6	Font Commands . . . . .	38	<b>3</b>	<b>Latin and Persian Environment</b>	<b>41</b>
			3.1	<code>latinitems</code> and <code>parsiitems</code> environments . . . . .	41
			3.2	Short Latin and Persian Texts . . . . .	41
			3.3	Miscellaneous Commands . . . . .	41
			3.4	New Commands . . . . .	42
			3.5	Additional Counters . . . . .	42
			3.6	Things To Know About <code>\setdigitfont</code> , <code>\setmathsfdigitfont</code> , and <code>\setmathttdigitfont</code> . . . . .	43

<b>4</b>	<b>New Conditionals</b>	<b>43</b>	<b>7</b>	<b>xepersian implementation</b>	<b>55</b>
4.1	Shell escape (or write18) conditional . . . . .	43	7.1	algorithmic-xepersian.def . . . . .	55
<b>5</b>	<b>Bilingual Captions</b>	<b>43</b>	7.2	algorithm-xepersian.def . . . . .	56
5.1	Support For Various Packages	44	7.3	amsart-xepersian.def . . . . .	56
5.1.1	Things You Should Know about Support For enumerate Package	44	7.4	amsbook-xepersian.def . . . . .	57
5.2	Index Generation . . . . .	44	7.5	article-xepersian.def . . . . .	58
5.3	Converting Your FarsiT <sub>E</sub> X Files To XePersian or Unicode	44	7.6	artikel1-xepersian.def . . . . .	58
<b>6</b>	<b>Extra Packages And Classes</b>	<b>45</b>	7.7	artikel2-xepersian.def . . . . .	59
6.1	Magazine Typesetting . . . . .	45	7.8	artikel3-xepersian.def . . . . .	59
6.1.1	Introduction . . . . .	45	7.9	backref-xepersian.def . . . . .	59
6.1.2	Usage . . . . .	45	7.10	bidituftesidenote-xepersian.def	59
6.1.3	Front Page . . . . .	45	7.11	bidimoderncv-xepersian.def . . .	61
6.1.4	Inside . . . . .	47	7.12	boek3-xepersian.def . . . . .	61
6.1.5	The article environment	47	7.13	boek-xepersian.def . . . . .	61
6.1.6	The editorial environment . . . . .	48	7.14	bookest-xepersian.def . . . . .	61
6.1.7	The shortarticle environment . . . . .	49	7.15	book-xepersian.def . . . . .	62
6.1.8	Commands between articles . . . . .	49	7.16	breqn-xepersian.def . . . . .	62
6.1.9	Customization . . . . .	49	7.17	latex-localise-commands-xepersian.def . . . . .	63
6.1.10	Front Page . . . . .	50	7.18	color-localise-xepersian.def . . .	82
6.1.11	Inside The Magazine . . . . .	51	7.19	xepersian-localise-commands-xepersian.def . . . . .	82
6.1.12	Class Options . . . . .	52	7.20	enumerate-xepersian.def . . . . .	83
6.2	Typesetting Multiple-choice Questions . . . . .	52	7.21	fontspec-xetex-xepersian.def . . .	84
6.2.1	Introduction . . . . .	52	7.22	latex-localise-environments-xepersian.def . . . . .	84
6.2.2	Usage . . . . .	53	7.23	xepersian-localise-environments-xepersian.def . . . . .	85
6.2.3	Loading The Package . . . . .	53	7.24	extarticle-xepersian.def . . . . .	86
6.2.4	Creating Questions . . . . .	53	7.25	extbook-xepersian.def . . . . .	86
6.2.5	The question Environment . . . . .	53	7.26	extrafootnotefeatures-xepersian.def . . . . .	86
6.2.6	Question Numbers . . . . .	53	7.27	extreport-xepersian.def . . . . .	86
6.2.7	The Form and the Mask	54	7.28	flowfram-xepersian.def . . . . .	86
6.2.8	Typesetting corrections	54	7.29	footnote-xepersian.def . . . . .	87
6.2.9	Important Note . . . . .	54	7.30	framed-xepersian.def . . . . .	89
6.3	Customising The Package . . . . .	54	7.31	glossaries-xepersian.def . . . . .	90
6.3.1	The question environment . . . . .	55	7.32	hyperref-xepersian.def . . . . .	90
6.3.2	The Form and the Mask	55	7.33	imsproc-xepersian.def . . . . .	90
6.3.3	The correction . . . . .	55	7.34	kashida-xepersian.def . . . . .	93
			7.35	listings-xepersian.def . . . . .	94
			7.36	loadingorder-xepersian.def . . . .	94
			7.37	localise-xepersian.def . . . . .	95
			7.38	memoir-xepersian.def . . . . .	97
			7.39	latex-localise-messages-xepersian.def . . . . .	97
			7.40	minitoc-xepersian.def . . . . .	97
			7.41	latex-localise-misc-xepersian.def	97
			7.42	natbib-xepersian.def . . . . .	105
			7.43	packages-localise-xepersian.def	109



7.44	parsidigits.map . . . . .	112	7.52	tkz-linknodes-xepersian.def . . . . .	116
7.45	rapport1-xepersian.def . . . . .	113	7.53	tocloft-xepersian.def . . . . .	116
7.46	rapport3-xepersian.def . . . . .	113	7.54	xepersian.sty . . . . .	116
7.47	refrep-xepersian.def . . . . .	113	7.55	xepersian-magazine.cls . . . . .	131
7.48	report-xepersian.def . . . . .	113	7.56	xepersian-mathsdigitspec.sty . . . . .	149
7.49	scrartcl-xepersian.def . . . . .	114	7.57	xepersian-multiplechoice.sty . . . . .	153
7.50	scrbook-xepersian.def . . . . .	114	7.58	xepersian-persiancal.sty . . . . .	156
7.51	scrreprt-xepersian.def . . . . .	115	<b>8</b>	<b>Change History</b>	<b>194</b>



## 1 Introduction

XePersian is a package for typesetting Persian/English documents with Xe $\LaTeX$ . The package includes adaptations for use with many other commonly-used packages.

### 1.1 Important Notes

- ☞ The XePersian package only works with Xe $\TeX$  engine.
- ☞ Before reading this documentation, you should have read the documentation of the bidi package. The XePersian package automatically loads bidi package with `RTLdocument` option enabled and hence any commands that bidi package offers, is also available in XePersian package. Here, in this documentation, we will not repeat any of bidi package's commands.
- ☞ In previous versions ( $\leq 1.0.3$ ) of XePersian, a thesis class provided for typesetting thesis. As of version 1.0.4, we no longer provide this class because we are not familiar with specification of a thesis in Iran and even if we were, the specifications are different from University to University. XePersian is a general package like  $\LaTeX$  and should not provide any class for typesetting thesis. So if you really want to have a class file for typesetting thesis, then you should ask your University/department to write one for you.

### 1.2 XePersian Info On The Terminal and In The Log File

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

```
*****
*
* xepersian package (Persian for LaTeX, using XeTeX engine)
*
* Description: The package supports Persian
* typesetting, using fonts provided in the
* distribution.
*
* Copyright © 2008-2014 Vafa Khalighi
*
* v15.7, 2014/12/28
*
* License: LaTeX Project Public License, version
* 1.3c or higher (your choice)
*
* Location on CTAN: /macros/xetex/latex/xepersian
*
* Issue tracker: https://github.com/persian-tex/xepersian/issues
```



\*  
\* Support: [persian-tex@tug.org](mailto:persian-tex@tug.org)  
\*\*\*\*\*

## 2 Basics

### 2.1 Loading The Package

You can load the package in the ordinary way;

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

Where options of the package are explained later in [subsection 2.4](#).

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

- ❶ xepersian should be the last package that you load, because otherwise you are certainly going to overwrite bidi and XePersian package's definitions and consequently, you will not get the expected output.
- ❷ In fact, in addition to bidi, XePersian also makes sure that some specific packages are loaded before bidi and XePersian; these are those packages that bidi and XePersian modifies them for bidirectional and Persian/English typesetting.

If you load XePersian before any of these packages, then you will get an error saying that you should load XePersian or bidi as your last package. When it says that you should load bidi package as your last package, it really means that you should load XePersian as your last package as bidi package is loaded automatically by XePersian package.

For instance, consider the following minimal example:

```
1 \documentclass{minimal}
2 \usepackage{xepersian}
3 \usepackage{enumerate}
4 \settextfont{XB Niloofar}
5 \begin{document}
6 این فقط یک آزمایش است
7 \end{document}
```

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

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

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



```
...
1.5 \begin{document}
?
```

## 2.2 XePersian's Symbol

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

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

```
\xepersianversion \xepersiandate
```

☞ \xepersianversion gives the current version of the package.

☞ \xepersiandate gives the current date of the package.

```
1 \documentclass{article}
2 \usepackage{xepersian}
3 \settextfont{XB Niloofar}
4 \begin{document}
5 \begin{latin}
6 This is typeset by \textsf{\XePersian} package,\xepersianversion,
7 \xepersiandate.
8 \end{latin}
9 \end{document}
```

## 2.4 Options of The Package

There are few options:

### 2.4.1 defaultlatinfontfeatures Option

```
defaultlatinfontfeatures=<value>
```

The defaultlatinfontfeatures option allows you to pass font features to the main Latin font. <value> is a set of font features.

### 2.4.2 extrafootnotefeatures Option

This is just the extrafootnotefeatures Option of bidi package. If you enable this option, you can typeset footnotes in paragraph form or in multi-columns (from two-columns to ten-columns). For more details, please read the manual of bidi package.

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



### 2.4.3 Kashida Option

If you pass Kashida option to the package, you will use Kashida for stretching words for better output quality and getting rid of underfull or overfull `\hbox` messages. Note that you can not use Kashida option when you are using Nastaliq-like font (well, you still can use Kashida option when you use any Nastaliq-like font, but I can not guarantee high quality output!).

The following two commands are provided when you activate the Kashida option:

`\KashidaOn`   `\KashidaOff`

☞ `\KashidaOn` enables Kashida and is active by default when Kashida option is activated.

☞ `\KashidaOff` disables Kashida.

### 2.4.4 quickindex Option

When you generally want to prepare index for your Persian documents, you need to first run `xelatex`, then `xindy`, and again `xelatex` on your document respectively, which is very time consuming. The `quickindex` option gives you the index with only and only one run of `xelatex`. To use this feature, you will need to run `xelatex --shell-escape` on your  $\TeX$  document; otherwise you get an error which indicates that shell scape (or `write18`) is not enabled.

This option is now obsolete and equivalent to `quickindex-variant2` option.

### 2.4.5 quickindex-variant1 Option

Same as `quickindex` Option but uses variant one (in which  $\tilde{}$  is grouped under  $\bar{}$ ) for sorting Persian alphabets.

### 2.4.6 quickindex-variant2 Option

Same as `quickindex` Option but uses variant two (in which  $\tilde{}$  is a separate letter) for sorting Persian alphabets.

### 2.4.7 localise Option

This option allows you to use most frequently-used  $\LaTeX$  commands and environments in Persian, almost like what  $\TeX$ -e-Parsi offers. This is still work in progress and we wish to add lots more Persian equivalents of  $\LaTeX$  and  $\TeX$  commands and environments. The Persian equivalents of  $\LaTeX$  and  $\TeX$  commands are shown in [Table 1](#), The Persian equivalents of XePersian commands are shown in [Table 2](#), Persian equivalents of  $\LaTeX$  environments are shown in [Table 3](#) and Persian equivalents of XePersian environments are shown in [Table 4](#)





Please note that the Persian equivalents of  $\LaTeX$  and  $\TeX$  commands and environments are only available after loading xepersian package. This means that you have to write all commands or environments that come before `\usepackage{xepersian}`, in its original form, i.e. `\documentclass`.

Not only you can use Persian equivalents of  $\LaTeX$  and  $\TeX$  commands and environments, but still original  $\LaTeX$  and  $\TeX$  commands and environments work too.

The  $\TeX$   $\LaTeX$  and XePersian commands and environments and their Persian equivalents listed in Table 1, Table 2, Table 3 and Table 4 is not the whole story; If any command and environment in Table 1, Table 2, Table 3 and Table 4 have a starred version, their starred version also work. For example in Table 1, the Persian equivalent of `\chapter` is `\فصل`. I know that `\chapter` has a starred version, so this means `*\فصل` is also the Persian equivalent of `\chapter*`. Is that clear?

However there is more; you can localise any other commands/environments you want. You can use the following commands to localise your own commands/environments:

```
\eqcommand{\langle command-name in Persian \rangle}{\langle original \LaTeX command-name \rangle}
\eqenvironment{\langle environment-name in Persian \rangle}{\langle original \LaTeX environment-name \rangle}
```

Table 1: The Equivalent  $\LaTeX$  and  $\TeX$  Commands

Command in $\TeX$ or $\LaTeX$	Equivalent Persian Command
<code>\@arstrut</code>	<code>\شمع جدول</code>
<code>\above</code>	<code>\فوق</code>
<code>\abovedisplayskip</code>	<code>\فاصله کوتاه بالای نمایش</code>
<code>\abovedisplayskip</code>	<code>\فاصله بالای نمایش</code>
<code>\abstractname</code>	<code>\عنوان چکیده</code>
<code>\accent</code>	<code>\اکسنت</code>
<code>\active</code>	<code>\فعال</code>
<code>\addcontentsline</code>	<code>\بیفزاسطر فهرست</code>
<code>\addpenalty</code>	<code>\اضافه بر جریمه</code>
<code>\address</code>	<code>\نشانی</code>
<code>\addtocontents</code>	<code>\بیفزابه فهرست</code>
<code>\addtocounter</code>	<code>\اضافه بر شمارنده</code>
<code>\addtolength</code>	<code>\اضافه بر بعد</code>
<code>\addvspace</code>	<code>\بیفزافضای و</code>
<code>\adjdemerits</code>	<code>\تنظیم بدنمایی</code>
<code>\advance</code>	<code>\بیفزابر</code>
<code>\afterassignment</code>	<code>\بعد از انتساب</code>
<code>\aftergroup</code>	<code>\بعد از گروه</code>
<code>\aleph</code>	<code>\الف</code>
<code>\aliasfontfeature</code>	<code>\خصیصه مستعار قلم</code>
<code>\aliasfontfeatureoption</code>	<code>\انتخاب خصیصه مستعار قلم</code>

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Command in T <sub>E</sub> X or L <sup>A</sup> T <sub>E</sub> X	Equivalent Persian Command
\allowbreak	\شکستی
\alloc@	\تخصی@
\allocationnumber	\تخصیص یافته
\allowdisplaybreaks	\شکست نمایش مجاز
\Alph	\حروف بزرگ
\alph	\حروف کوچک
\alsomame	\نام همچنین
\and	\و
\angle	\زاویه
\appendixname	\عنوان پیوست
\approx	\تقریب
\arabic	\عربی
\arg	\آرگ
\arrayrulecolor	\رنگ خط جدول
\arraycolsep	\فاصله ستونهای آرایه
\arrayrulewidth	\ضخامت خط جدول
\arraystretch	\کشیدگی آرایه
\AtBeginDocument	\در آغاز نوشتار
\AtEndDocument	\در پایان نوشتار
\AtEndOfClass	\در انتهای طبقه
\AtEndOfPackage	\در انتهای سبک
\author	\نویسنده
\backmatter	\مطلب پشت
\backslash	\شکاف پشت
\badness	\بدنمایی
\bar	\میل
\baselineskip	\فاصله کرسی
\baselinestretch	\کشش فاصله کرسی
\batchmode	\پردازش دسته ای
\begin	\شروع
\beginL	\شروع چپ
\beginR	\شروع راست
\begingroup	\شروع گروه
\belowdisplayshortskip	\فاصله کوتاه پایین نمایش
\belowdisplayskip	\فاصله پایین نمایش
\bf	\سیاه
\bfdefault	\پیش فرض سیاه
\bfseries	\شمایل سیاه
\bgroup	\شرگروه
\bibitem	\مرجوع

*Continued on next page*



Command in T <sub>E</sub> X or L <sup>A</sup> T <sub>E</sub> X	Equivalent Persian Command
<code>\bibliography</code>	\کتاب نامه
<code>\bibliographystyle</code>	\سبک کتاب نامه
<code>\bibname</code>	\عنوان کتاب نامه
<code>\bigskip</code>	\پرش بلند
<code>\bigskipamount</code>	\مقدار پرش بلند
<code>\botfigrule</code>	\خط پایین شناور
<code>\botmark</code>	\علامت پایین
<code>\bottompageskip</code>	\کادر تا پایین
<code>\bottomfraction</code>	\نسبت پایین
<code>\box</code>	\کادر
<code>\boxmaxdepth</code>	\حد اکثر عمق کادر
<code>\break</code>	\شکن
<code>\bullet</code>	\گلوله
<code>@cclv</code>	\دوپن @ پنج
<code>@ccclvi</code>	\دوپن @ شش
<code>\caption</code>	\شرح
<code>\catcode</code>	\کدرده
<code>\cc</code>	\رونوشت
<code>\ccname</code>	\نام رونوشت
<code>\cdot</code>	\نقطه وسط
<code>\cdots</code>	\نقاط وسط
<code>\centering</code>	\تنظیم از وسط
<code>\centerline</code>	\خط وسط
<code>\ch@ck</code>	\چک @ ن
<code>\chapter</code>	\فصل
<code>\chaptername</code>	\عنوان فصل
<code>\char</code>	\نویسه
<code>\chardef</code>	\تعریف نویسه
<code>\CheckCommand</code>	\برسی فرمان
<code>\cite</code>	\مرجع
<code>\ClassError</code>	\خطای طبقه
<code>\ClassInfo</code>	\اطلاع طبقه
<code>\ClassWarning</code>	\هشدار طبقه
<code>\ClassWarningNoLine</code>	\هشدار طبقه بی سطر
<code>\cleaders</code>	\نشانگر مرکزی
<code>\cleardoublepage</code>	\دو صفحه پاک
<code>\clearpage</code>	\صفحه پاک
<code>\cline</code>	\خط ناپر
<code>\closein</code>	\ببندورودی
<code>\closeout</code>	\ببند خروجی

*Continued on next page*



Command in T <sub>E</sub> X or L <sup>A</sup> T <sub>E</sub> X	Equivalent Persian Command
<code>\closing</code>	\بستن
<code>\clubpenalty</code>	\جریمه سر بند
<code>\clubsuit</code>	\خاج
<code>\colbotmark</code>	\علامت پایین ستون اول
<code>\colfirstmark</code>	\علامت اول ستون اول
<code>\color</code>	\رنگ
<code>\colorbox</code>	\کادر رنگ
<code>\coltopmark</code>	\علامت بالای ستون اول
<code>\columncolor</code>	\رنگ ستون
<code>\columnsep</code>	\بین ستون
<code>\columnwidth</code>	\پهنای ستون
<code>\columnseprule</code>	\خط بین ستون
<code>\contentsline</code>	\سطر فهرست
<code>\contentsname</code>	\عنوان فهرست مطالب
<code>\copy</code>	\کپی
<code>\copyright</code>	\حق تالیف
<code>\count</code>	\شمار
<code>\count@</code>	\شمار@
<code>\countdef</code>	\تعریف شمار
<code>\cr</code>	\سخ
<code>\crrc</code>	\سخ سخ
<code>\csname</code>	\نام فرمان
<code>\CurrentOption</code>	\گزینه جاری
<code>\dashbox</code>	\کادر بینابین
<code>\dashv</code>	\بینابین ع
<code>\@date</code>	\@تاریخ
<code>\date</code>	\تاریخ
<code>\day</code>	\روز
<code>\dblbotfigrule</code>	\خط پایین شناور پهن
<code>\dblbottomfraction</code>	\نسبت پهن پایین
<code>\dblfigrule</code>	\خط بالای شناور پهن
<code>\dblfloatpagefraction</code>	\نسبت صفحه شناور پهن
<code>\dblfloatsep</code>	\فاصله بین شناور پهن
<code>\dblftntlocatecode</code>	\کد مکان غیرهما نطور
<code>\dbltextfloatsep</code>	\فاصله متن و شناور پهن
<code>\dbltopfraction</code>	\نسبت پهن بالا
<code>\DeclareFixedFont</code>	\اعلان قلم ثابت
<code>\DeclareGraphicsExtensions</code>	\اعلان پسوند گرافیک
<code>\DeclareGraphicsRule</code>	\اعلان دستور گرافیک
<code>\DeclareOldFontCommand</code>	\اعلان فرمان قلم قدیمی

*Continued on next page*



Command in T <sub>E</sub> X or L <sup>A</sup> T <sub>E</sub> X	Equivalent Persian Command
<code>\DeclareOption</code>	<code>\اعلان گزینه</code>
<code>\DeclareRobustCommand</code>	<code>\اعلان فرمان قوی</code>
<code>\DeclareSymbolFont</code>	<code>\اعلان قلم علائم</code>
<code>\deadcycles</code>	<code>\دور بسته</code>
<code>\def</code>	<code>\تر</code>
<code>\define@key</code>	<code>\تعریف@کلید</code>
<code>\definecolor</code>	<code>\تعریف رنگ</code>
<code>\deg</code>	<code>\درجه</code>
<code>\delcode</code>	<code>\کد جداساز</code>
<code>\delimiter</code>	<code>\جداساز</code>
<code>\delimiterfactor</code>	<code>\ضریب جداساز</code>
<code>\depth</code>	<code>\گودی</code>
<code>\diamondsuit</code>	<code>\خشت</code>
<code>\dim</code>	<code>\بعد</code>
<code>\dimen</code>	<code>\بعد</code>
<code>\dimen@</code>	<code>\بعد@</code>
<code>\dimen@i</code>	<code>\بعد@یک</code>
<code>\dimen@ii</code>	<code>\بعد@دو</code>
<code>\dimendef</code>	<code>\تعریف بعد</code>
<code>\discretionary</code>	<code>\تیره گذاری</code>
<code>\displaybreak</code>	<code>\شکست نمایش</code>
<code>\displayindent</code>	<code>\تورفتگی نمایش</code>
<code>\displaystyle</code>	<code>\سبک نمایش</code>
<code>\displaywidth</code>	<code>\عرض نمایش</code>
<code>\divide</code>	<code>\تقسیم</code>
<code>\documentclass</code>	<code>\طبقه نوشتار</code>
<code>\do</code>	<code>\کن</code>
<code>\dospecials</code>	<code>\تعویض کدها</code>
<code>\dot</code>	<code>\نقطه</code>
<code>\doteq</code>	<code>\نقطه مساوی</code>
<code>\dotfill</code>	<code>\پر نقطه</code>
<code>\dots</code>	<code>\نقاط</code>
<code>\doublebox</code>	<code>\کادر دولا</code>
<code>\doublerulesepcolor</code>	<code>\رنگ فاصله دو خط جدول</code>
<code>\doublerulesep</code>	<code>\فاصله بین دو خط</code>
<code>\downarrow</code>	<code>\فلش پایین</code>
<code>\dp</code>	<code>\عمق</code>
<code>\dump</code>	<code>\تخلیه</code>
<code>\edef</code>	<code>\ترگ</code>
<code>\egroup</code>	<code>\پاگروه</code>

*Continued on next page*



Command in T <sub>E</sub> X or L <sup>A</sup> T <sub>E</sub> X	Equivalent Persian Command
<code>\eject</code>	<code>\انتهای فاصله</code>
<code>\else</code>	<code>\اگر نه</code>
<code>\em</code>	<code>\تاکید</code>
<code>\emergencystretch</code>	<code>\کشش لاجرم</code>
<code>\emph</code>	<code>\موکد</code>
<code>\@empty</code>	<code>\@پوچ</code>
<code>\empty</code>	<code>\پوچ</code>
<code>\emptyset</code>	<code>\مجموعه پوچ</code>
<code>\end</code>	<code>\پایان</code>
<code>\endL</code>	<code>\پایان چپ</code>
<code>\endR</code>	<code>\پایان راست</code>
<code>\endcsname</code>	<code>\پایان نام فرمان</code>
<code>\endfirsthead</code>	<code>\پایان اولین سر</code>
<code>\endfoot</code>	<code>\پایان پا</code>
<code>\endgraf</code>	<code>\ته بند</code>
<code>\endgroup</code>	<code>\پایان گروه</code>
<code>\endhead</code>	<code>\پایان سر</code>
<code>\endinput</code>	<code>\پایان ورودی</code>
<code>\endlastfoot</code>	<code>\پایان آخرین پا</code>
<code>\enlargethispage</code>	<code>\گسترش این صفحه</code>
<code>\endline</code>	<code>\ته سطر</code>
<code>\endlinechar</code>	<code>\نویسه ته سطر</code>
<code>\enspace</code>	<code>\ان دوری</code>
<code>\enskip</code>	<code>\ان فاصله</code>
<code>\eqcommand</code>	<code>\فرمان جانشین</code>
<code>\eqenvironment</code>	<code>\محیط جانشین</code>
<code>\eqref</code>	<code>\ارجاع فر</code>
<code>\errhelp</code>	<code>\کمک خطا</code>
<code>\errmessage</code>	<code>\پیام خطا</code>
<code>\errorcontextlines</code>	<code>\سطر متن خطا</code>
<code>\errorstopmode</code>	<code>\پردازش توقف خطا</code>
<code>\escapechar</code>	<code>\نویسه ویژه</code>
<code>\euro</code>	<code>\یورو</code>
<code>\evensidemargin</code>	<code>\حاشیه زوج</code>
<code>\everycr</code>	<code>\هرسخ</code>
<code>\everydisplay</code>	<code>\هرنمایش</code>
<code>\everyhbox</code>	<code>\هرکادر</code>
<code>\everyjob</code>	<code>\هرکار</code>
<code>\everymath</code>	<code>\هرریاضی</code>
<code>\everypar</code>	<code>\هربند</code>

*Continued on next page*



### Command in T<sub>E</sub>X or L<sup>A</sup>T<sub>E</sub>X    Equivalent Persian Command

<code>\everyvbox</code>	<code>\هرکادرو</code>
<code>\ExecuteOptions</code>	<code>\اجرای گزینه ها</code>
<code>\exhyphenpenalty</code>	<code>\جریمه اضافی تیره بندی</code>
<code>\expandafter</code>	<code>\بگستر پس از</code>
<code>\extracolsep</code>	<code>\فاصله اضافی بین ستونها</code>
<code>\@firstofone</code>	<code>\@اولی از یک</code>
<code>\@firstoftwo</code>	<code>\@اولی از دو</code>
<code>\f@ur</code>	<code>\چ@ار</code>
<code>\fam</code>	<code>\خانواده</code>
<code>\fancy page</code>	<code>\صفحه تجملی</code>
<code>\fbox</code>	<code>\کادر با</code>
<code>\fboxrule</code>	<code>\ضخامت کادر با</code>
<code>\fboxsep</code>	<code>\حاشیه کادر با</code>
<code>\fcolorbox</code>	<code>\کادر با رنگ</code>
<code>\fi</code>	<code>\رگ</code>
<code>\figurename</code>	<code>\عنوان شکل</code>
<code>\filbreak</code>	<code>\پر شکن</code>
<code>\fill</code>	<code>\پر</code>
<code>\firstmark</code>	<code>\علامت اول</code>
<code>\flat</code>	<code>\پهن</code>
<code>\floatpagefraction</code>	<code>\نسبت صفحه شناور</code>
<code>\floatingpenalty</code>	<code>\جریمه شناور</code>
<code>\floatsep</code>	<code>\فاصله بین شناور</code>
<code>\flushbottom</code>	<code>\تنظیم از پایین</code>
<code>\fmtname</code>	<code>\شکل بندی</code>
<code>\fmtversion</code>	<code>\رده شکل بندی</code>
<code>\fnsymbol</code>	<code>\نشانه</code>
<code>\font</code>	<code>\قلم</code>
<code>\fontdimen</code>	<code>\بعد قلم</code>
<code>\fontencoding</code>	<code>\رمزینه قلم</code>
<code>\fontfamily</code>	<code>\فامیل قلم</code>
<code>\fontname</code>	<code>\نام قلم</code>
<code>\fontseries</code>	<code>\شمار قلم</code>
<code>\fontshape</code>	<code>\شکل قلم</code>
<code>\fontsize</code>	<code>\اندازه قلم</code>
<code>\footheight</code>	<code>\بلندای پایین صفحه</code>
<code>\footins</code>	<code>\درج زیر نویس</code>
<code>\footnote</code>	<code>\زیر نویس</code>
<code>\footnotemark</code>	<code>\علامت زیر نویس</code>
<code>\footnoterule</code>	<code>\خط زیر نویس</code>

*Continued on next page*



## Command in T<sub>E</sub>X or L<sup>A</sup>T<sub>E</sub>X      Equivalent Persian Command

<code>\footnotesep</code>	<code>\فاصله تازیرنویس</code>
<code>\footnotesize</code>	<code>\اندازه زیرنویس</code>
<code>\footnotetext</code>	<code>\متن زیرنویس</code>
<code>\footskip</code>	<code>\فاصله تا پایین صفحه</code>
<code>\frame</code>	<code>\فریم</code>
<code>\framebox</code>	<code>\کادر با خط</code>
<code>\frenchspacing</code>	<code>\فواصل یکنواخت لاتین</code>
<code>\frontmatter</code>	<code>\مطلب پیش</code>
<code>\futurelet</code>	<code>\بعد بگذار</code>
<code>\@gobble</code>	<code>@خورجری صانه</code>
<code>\@gobbletwo</code>	<code>@خورجری صانه دو</code>
<code>\@gobblefour</code>	<code>@خورجری صانه چهار</code>
<code>\@gtempa</code>	<code>@عاقبت آ</code>
<code>\@gtempb</code>	<code>@عاقبت ب</code>
<code>\gdef</code>	<code>\ترع</code>
<code>\GenericInfo</code>	<code>\الگوی اطلاع</code>
<code>\GenericWarning</code>	<code>\الگوی هشدار</code>
<code>\GenericError</code>	<code>\الگوی خطا</code>
<code>\global</code>	<code>\عام</code>
<code>\globaldefs</code>	<code>\تعاریف عام</code>
<code>\glossary</code>	<code>\لغت نامه</code>
<code>\glossaryentry</code>	<code>\فقره فرهنگ</code>
<code>\goodbreak</code>	<code>\خوش شکن</code>
<code>\graphpaper</code>	<code>\کاغذ گراف</code>
<code>\guillemotleft</code>	<code>\گیومه چپ</code>
<code>\guillemotright</code>	<code>\گیومه راست</code>
<code>\guilsinglleft</code>	<code>\گیومه تکی چپ</code>
<code>\guilsinglright</code>	<code>\گیومه تکی راست</code>
<code>\halign</code>	<code>\ردیف ا</code>
<code>\hang</code>	<code>\بروتو</code>
<code>\hangafter</code>	<code>\بعد از سطر</code>
<code>\hangindent</code>	<code>\تورفتگی ثابت</code>
<code>\hbadness</code>	<code>\بدنمایی ا</code>
<code>\hbox</code>	<code>\کادر ا</code>
<code>\headheight</code>	<code>\بلندای سر صفحه</code>
<code>\headsep</code>	<code>\فاصله از سر صفحه</code>
<code>\headtoname</code>	<code>\سربه نام</code>
<code>\heartsuit</code>	<code>\دل</code>
<code>\height</code>	<code>\بلندا</code>
<code>\hfil</code>	<code>\پرا</code>

*Continued on next page*





# Command in T<sub>E</sub>X or L<sup>A</sup>T<sub>E</sub>X    Equivalent Persian Command

<code>\hfill</code>	<code>\</code> پررا
<code>\hfilneg</code>	<code>\</code> رفع‌پرا
<code>\hfuzz</code>	<code>\</code> پرزاقفی
<code>\hideskip</code>	<code>\</code> فاصله مخفی
<code>\hidewidth</code>	<code>\</code> عرض پنهان
<code>\hline</code>	<code>\</code> خط‌پر
<code>\hoffset</code>	<code>\</code> حاشیه ا
<code>\holdinginserts</code>	<code>\</code> حفظ درج
<code>\hrboxsep</code>	<code>\</code> فاصله اگر
<code>\hrule</code>	<code>\</code> خط ا
<code>\hrulefill</code>	<code>\</code> پرخط ا
<code>\hsize</code>	<code>\</code> طول سطر
<code>\hskip</code>	<code>\</code> فاصله ا
<code>\hspace</code>	<code>\</code> فضای ا
<code>\hss</code>	<code>\</code> هر دو
<code>\ht</code>	<code>\</code> ارتفاع
<code>\huge</code>	<code>\</code> بزرگ
<code>\Huge</code>	<code>\</code> بزرگ‌تر
<code>\hyperlink</code>	<code>\</code> ابر پیوند
<code>\hypersetup</code>	<code>\</code> بارگذاری ابر
<code>\hypertarget</code>	<code>\</code> هدف ابر
<code>\hyphenation</code>	<code>\</code> تیره‌بندی
<code>\hyphenchar</code>	<code>\</code> نویسه تیره
<code>\hyphenpenalty</code>	<code>\</code> جریمه تیره‌بندی
<code>\@ifclassloaded</code>	<code>\</code> @گر کلاس فراخوانی شده
<code>\@ifdefinable</code>	<code>\</code> @گر ترشدنی
<code>\@ifnextchar</code>	<code>\</code> @گر نویسه بعدی
<code>\@ifpackageloaded</code>	<code>\</code> @گر سبک فراخوانی شده
<code>\@ifstar</code>	<code>\</code> @گر ستاره
<code>\@ifundefined</code>	<code>\</code> @گر تعریف نشده
<code>\if</code>	<code>\</code> گر
<code>\if@tempswa</code>	<code>\</code> گر @سواقت آ
<code>\ifcase</code>	<code>\</code> گر انواع
<code>\ifcat</code>	<code>\</code> گر دره
<code>\ifdefined</code>	<code>\</code> گر تعریف شده
<code>\ifdim</code>	<code>\</code> گر بعد
<code>\ifeof</code>	<code>\</code> گر ته‌پرونده
<code>\iff</code>	<code>\</code> گر
<code>\iffalse</code>	<code>\</code> گر نادرست
<code>\IfFileExists</code>	<code>\</code> گر پرونده موجود

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Command in T <sub>E</sub> X or L <sup>A</sup> T <sub>E</sub> X	Equivalent Persian Command
<code>\ifhbox</code>	\گرکادرا
<code>\ifhmode</code>	\گرحالت ا
<code>\ifinner</code>	\گردرونی
<code>\ifmmode</code>	\گرحالت ریاضی
<code>\ifnum</code>	\گرعدد
<code>\ifodd</code>	\گرفرد
<code>\ifthenelse</code>	\گرآنگاه دیگر
<code>\iftrue</code>	\گردرست
<code>\ifvbox</code>	\گرکادرو
<code>\ifvmode</code>	\گرحالت و
<code>\ifvoid</code>	\گرتهی
<code>\ifx</code>	\گرتام
<code>\ignorespaces</code>	\فاصله خالی رانده بگير
<code>\immediate</code>	\فوری
<code>\include</code>	\شامل
<code>\includegraphics</code>	\درج تصویر
<code>\includeonly</code>	\مشمولین
<code>\indent</code>	\تورفتگی
<code>\index</code>	\درنمایه
<code>\indexentry</code>	\استعلام
<code>\indexname</code>	\عنوان نمایه
<code>\indexspace</code>	\فاصله رهنما
<code>\input</code>	\ورودی
<code>\InputIfFileExists</code>	\ورودپرونده گرموجود
<code>\inputlineno</code>	\شماره سطرورودی
<code>\insert</code>	\درج
<code>\insertpenalties</code>	\جریمه درج
<code>\interfootnotelinepenalty</code>	\جریمه بین سطرهای زیرنویس
<code>\interdisplaylinepenalty</code>	\جریمه بین سطرهای نمایش
<code>\interlinepenalty</code>	\جریمه بین سطرها
<code>\intertext</code>	\متن داخلی
<code>\intertextsep</code>	\فاصله شناورد رمتن
<code>\invisible</code>	\مخفی
<code>\itdefault</code>	\پیش فرض ای
<code>\itshape</code>	\شکل ایتالیک
<code>\item</code>	\فقره
<code>\itemindent</code>	\تورفتگی فقره
<code>\itemsep</code>	\فاصله فقره
<code>\iterate</code>	\تکرارکن
<code>\itshape</code>	\شکل ای

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Command in T <sub>E</sub> X or L <sup>A</sup> T <sub>E</sub> X	Equivalent Persian Command
<code>\jobname</code>	<code>\نام کار</code>
<code>\jot</code>	<code>\قلب</code>
<code>\kern</code>	<code>\دوری</code>
<code>\kill</code>	<code>\الگو</code>
<code>\label</code>	<code>\برچسب</code>
<code>\labelenumi</code>	<code>\برچسب شمارش یک</code>
<code>\labelenumii</code>	<code>\برچسب شمارش دو</code>
<code>\labelenumiii</code>	<code>\برچسب شمارش سه</code>
<code>\labelenumiv</code>	<code>\برچسب شمارش چهار</code>
<code>\labelitemi</code>	<code>\برچسب فقره یک</code>
<code>\labelitemii</code>	<code>\برچسب فقره دو</code>
<code>\labelitemiii</code>	<code>\برچسب فقره سه</code>
<code>\labelitemiv</code>	<code>\برچسب فقره چهار</code>
<code>\labelsep</code>	<code>\فاصله از برچسب</code>
<code>\labelwidth</code>	<code>\پهنای برچسب</code>
<code>\language</code>	<code>\زبان</code>
<code>\large</code>	<code>\درشت</code>
<code>\Large</code>	<code>\درشت تر</code>
<code>\LARGE</code>	<code>\درشت درشت</code>
<code>\lastbox</code>	<code>\آخرین کادر</code>
<code>\lastkern</code>	<code>\آخرین دوری</code>
<code>\lastpenalty</code>	<code>\آخرین جریمه</code>
<code>\lastskip</code>	<code>\آخرین فاصله</code>
<code>\LaTeX</code>	<code>\لاتک</code>
<code>\LaTeXe</code>	<code>\لاتک ای</code>
<code>\lccode</code>	<code>\کدکوچک</code>
<code>\ldots</code>	<code>\نقاط خ</code>
<code>\leaders</code>	<code>\نشانگر</code>
<code>\leavevmode</code>	<code>\ترک و</code>
<code>\left</code>	<code>\چپ</code>
<code>\leftmargin</code>	<code>\حاشیه چپ</code>
<code>\leftmargini</code>	<code>\حاشیه چپ یک</code>
<code>\leftmarginii</code>	<code>\حاشیه چپ دو</code>
<code>\leftmarginiii</code>	<code>\حاشیه چپ سه</code>
<code>\leftmarginiv</code>	<code>\حاشیه چپ چهار</code>
<code>\leftmarginv</code>	<code>\حاشیه چپ پنج</code>
<code>\leftmarginvi</code>	<code>\حاشیه چپ شش</code>
<code>\leftmark</code>	<code>\علامت چپ</code>
<code>\leftpageskip</code>	<code>\کادر تا چپ</code>
<code>\leftskip</code>	<code>\فاصله ابتدای سطر</code>

*Continued on next page*



Command in T<sub>E</sub>X or L<sup>A</sup>T<sub>E</sub>X      Equivalent Persian Command

\let	\بگذار
\line	\سطر
\linebreak	\سطرشکن
\linepenalty	\جریمه سطر
\lineskip	\فاصله سطرها
\lineskiplimit	\حد فاصله سطر
\linespread	\کشش فاصله سطر
\linethickness	\ضخامت خط
\linewidth	\پهنای سطر
\listfigurename	\عنوان فهرست اشکال
\listfiles	\لیست پرونده ها
\listoffigures	\فهرست اشکال
\listoftables	\فهرست جداول
\listparindent	\تورفتگی بند لیست
\listtablename	\عنوان فهرست جداول
\LoadClass	\بارکن طبقه
\LoadClassWithOptions	\بارکن طبقه با گزینه
\location	\مکان
\long	\بلند
\loop	\حلقه
\looseness	\گسیختگی
\lower	\انتقال بپایین
\@makeother	\@دیگر
\@m	\@زار
\@M	\ده@زار
\@Mi	\ده@زاریک
\@Mii	\ده@زاردو
\@Miii	\ده@زارسه
\@Miv	\ده@زارچهار
\@MM	\بیس@زار
\m@ne	\من@ا
\mag	\بزرگ نمایی
\magstep	\گام
\magstephalf	\نیم گام
\mainmatter	\مطلب اصلی
\makeatletter	\ات حرف
\makeatother	\ات دیگر
\makebox	\کادر بی خط
\makeglossary	\ساخت فرهنگ
\makeindex	\تهیه نمایه

*Continued on next page*



Command in T<sub>E</sub>X or L<sup>A</sup>T<sub>E</sub>X      Equivalent Persian Command

<code>\makelabel</code>	\ساخت برچسب
<code>\makelabels</code>	\ساخت برچسب ها
<code>\MakeLowercase</code>	\ساخت حروف کوچک
<code>\maketitle</code>	\عنوان ساز
<code>\MakeUppercase</code>	\ساخت حروف بزرگ
<code>\marginpar</code>	\در حاشیه
<code>\marginparpush</code>	\فاصله دو حاشیه
<code>\marginparsep</code>	\فاصله تا حاشیه
<code>\marginparwidth</code>	\پهنای حاشیه
<code>\mark</code>	\علامت
<code>\markboth</code>	\علامت در دو طرف
<code>\markright</code>	\علامت در راست
<code>\mathaccent</code>	\اعراب ریاضی
<code>\mathchar</code>	\نویسه ریاضی
<code>\mathchardef</code>	\تعریف نویسه ریاضی
<code>\mathcode</code>	\کد ریاضی
<code>\mathrm</code>	\ریاضی رومن
<code>\maxdeadcycles</code>	\حد اکثر تکرار
<code>\maxdepth</code>	\حد اکثر عمق صفحه
<code>\maxdimen</code>	\بعد بیشین
<code>\mbox</code>	\کادر بی
<code>\mdseries</code>	\شمایل نازک
<code>\meaning</code>	\معنا
<code>\mediumseries</code>	\نازک
<code>\medmuskip</code>	\فاصله متوسط ریاضی
<code>\medskip</code>	\پرش متوسط
<code>\medskipamount</code>	\مقدار پرش متوسط
<code>\medspace</code>	\فضای متوسط
<code>\message</code>	\پیام
<code>\MessageBreak</code>	\پیام شکن
<code>\minrowclearance</code>	\حد اقل فاصله ردیف
<code>\mkern</code>	\دوری ریاضی
<code>\month</code>	\ماه
<code>\moveleft</code>	\انتقال بچپ
<code>\moveright</code>	\انتقال بر راست
<code>\mskip</code>	\فاصله ریاضی
<code>\m@th</code>	\ری @ ضی
<code>\multicolumn</code>	\چند ستونی
<code>\multiply</code>	\ضرب
<code>\multispan</code>	\چند ادغام

*Continued on next page*



### Command in T<sub>E</sub>X or L<sup>A</sup>T<sub>E</sub>X      Equivalent Persian Command

<code>\muskip</code>	<code>\میوفاصله</code>
<code>\muskipdef</code>	<code>\تعریف میوفاصله</code>
<code>\@namedef</code>	<code>\@ترنام</code>
<code>\@nameuse</code>	<code>\@کاربردنام</code>
<code>\@ne</code>	<code>\یک@</code>
<code>\name</code>	<code>\نام</code>
<code>\natural</code>	<code>\طبیعی</code>
<code>\nearrow</code>	<code>\باریک</code>
<code>\nearrower</code>	<code>\باریکتر</code>
<code>\NeedsTeXFormat</code>	<code>\شکلبندی مورد نیاز</code>
<code>\neg</code>	<code>\منفی</code>
<code>\negmedspace</code>	<code>\فضای متوسط منفی</code>
<code>\negthickspace</code>	<code>\فضای ضخیم منفی</code>
<code>\negthinspace</code>	<code>\دوری کوچک منفی</code>
<code>\newboolean</code>	<code>\بولی نو</code>
<code>\newbox</code>	<code>\کادر جدید</code>
<code>\newcommand</code>	<code>\فرمان نو</code>
<code>\newcount</code>	<code>\شمار جدید</code>
<code>\newcounter</code>	<code>\شمارنده جدید</code>
<code>\newdimen</code>	<code>\بعد جدید</code>
<code>\newenvironment</code>	<code>\محیط نو</code>
<code>\newfam</code>	<code>\خانواده جدید</code>
<code>\newfont</code>	<code>\قلم نو</code>
<code>\newhelp</code>	<code>\کمک جدید</code>
<code>\newif</code>	<code>\گر جدید</code>
<code>\newinsert</code>	<code>\درج جدید</code>
<code>\newlabel</code>	<code>\برچسب جدید</code>
<code>\newlength</code>	<code>\تعریف بعد جدید</code>
<code>\newline</code>	<code>\سطر جدید</code>
<code>\newlinechar</code>	<code>\نویسه سطر جدید</code>
<code>\newmuskip</code>	<code>\میوفاصله جدید</code>
<code>\newpage</code>	<code>\صفحه جدید</code>
<code>\newread</code>	<code>\بخوان جدید</code>
<code>\newsavebox</code>	<code>\تعریف کادر جدید</code>
<code>\newskip</code>	<code>\فاصله جدید</code>
<code>\newtheorem</code>	<code>\قضیه جدید</code>
<code>\newtoks</code>	<code>\جزء جدید</code>
<code>\newwrite</code>	<code>\بنویس جدید</code>
<code>\noalign</code>	<code>\بی ردیف</code>
<code>\nobreak</code>	<code>\نشکن</code>

*Continued on next page*



Command in T <sub>E</sub> X or L <sup>A</sup> T <sub>E</sub> X	Equivalent Persian Command
<code>\nobreakspace</code>	<code>\فاصله نشکستی</code>
<code>\nocite</code>	<code>\بدون سند</code>
<code>\noexpand</code>	<code>\نگستر</code>
<code>\nofiles</code>	<code>\بدون پرونده</code>
<code>\noindent</code>	<code>\بدون تورفتگی</code>
<code>\nointerlineskip</code>	<code>\بی فاصله سطر</code>
<code>\nolimits</code>	<code>\بدون حد</code>
<code>\nolinebreak</code>	<code>\سطرنشکن</code>
<code>\nonstopmode</code>	<code>\پردازش بدون توقف</code>
<code>\nonfrenchspacing</code>	<code>\فواصل متعارف لاتین</code>
<code>\nonumber</code>	<code>\بدون شماره</code>
<code>\nopagebreak</code>	<code>\صفحه نشکن</code>
<code>\normalbaselines</code>	<code>\کرسیهای متعارف</code>
<code>\normalbaselineskip</code>	<code>\فاصله کرسی متعارف</code>
<code>\normalcolor</code>	<code>\رنگ عادی</code>
<code>\normalfont</code>	<code>\قلم عادی</code>
<code>\normallineskip</code>	<code>\فاصله سطرمتعارف</code>
<code>\normallineskiplimit</code>	<code>\حد فاصله سطرمتعارف</code>
<code>\normalmarginpar</code>	<code>\در حاشیه عادی</code>
<code>\normalsize</code>	<code>\اندازه عادی</code>
<code>\notag</code>	<code>\بدون اتیکت</code>
<code>\null</code>	<code>\نول</code>
<code>\nullfont</code>	<code>\قلم تهی</code>
<code>\number</code>	<code>\عدد</code>
<code>\numberline</code>	<code>\سطر عددی</code>
<code>\numberwithin</code>	<code>\شماره مطابق</code>
<code>\@evenfoot</code>	<code>\پایین صفحه زوج</code>
<code>\@evenhead</code>	<code>\بالای صفحه زوج</code>
<code>\@oddfoot</code>	<code>\پایین صفحه فرد</code>
<code>\@oddhead</code>	<code>\بالای صفحه فرد</code>
<code>\@outeqntrue</code>	<code>\شماره بیرون درست</code>
<code>\@outeqnfalse</code>	<code>\شماره بیرون نادرست</code>
<code>\obeylines</code>	<code>\سطر به سطر</code>
<code>\obeyspaces</code>	<code>\فضا فعال</code>
<code>\oddsidemargin</code>	<code>\حاشیه فرد</code>
<code>\offinterlineskip</code>	<code>\سطور بی فاصله</code>
<code>\omit</code>	<code>\حذف</code>
<code>\@onlypreamble</code>	<code>\@تنهادرپیش درآمد</code>
<code>\onecolumn</code>	<code>\یک ستون</code>
<code>\onlynotes</code>	<code>\تنهایداشت ها</code>

*Continued on next page*



Command in T <sub>E</sub> X or L <sup>A</sup> T <sub>E</sub> X	Equivalent Persian Command
\onlyslides	\تنها اسلایدها
\openin	\بازکن ورودی
\openout	\بازکن خروجی
\OptionNotUsed	\گزینه مصرف نشده
\or	\یا
\outer	\برونی
\output	\صفحه بندی
\outputpenalty	\جریمه صفحه بندی
\overfullrule	\علامت سرریز
\@preamblecmds	\@فرمان های پیش در آمد
\p@	\@پو
\PackageError	\خطای سبک
\PackageInfo	\اطلاع سبک
\PackageWarning	\هشدار سبک
\PackageWarningNoLine	\هشدار سبک بی سطر
\pagebreak	\صفحه شکن
\pagecolor	\رنگ صفحه
\pagedepth	\عمق صفحه
\pagefillllstretch	\کشش پررر صفحه
\pagefilllstretch	\کشش پرر صفحه
\pagefilstretch	\کشش پر صفحه
\pagegoal	\غایت صفحه
\pagename	\نام صفحه
\pagenumbering	\شماره گذاری صفحه
\pageref	\رجوع صفحه
\pagerulewidth	\ضخامت خط صفحه
\pageshrink	\فشرده گی صفحه
\pagestretch	\کشش صفحه
\pagestyle	\سبک صفحه
\pagetotal	\جمع صفحه
\paperheight	\بلندای کاغذ
\paperwidth	\پهنای کاغذ
\par	\بند
\paragraph	\پاراگراف
\parallel	\موازی
\parbox	\کادر پار
\parfillskip	\فاصله ته بند
\parindent	\تورفتگی سر بند
\parsep	\فاصله بند لیست
\parshape	\شکل بند

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Command in T <sub>E</sub> X or L <sup>A</sup> T <sub>E</sub> X	Equivalent Persian Command
<code>\parskip</code>	<code>\فاصله‌بند</code>
<code>\part</code>	<code>\بخش</code>
<code>\partname</code>	<code>\عنوان‌بخش</code>
<code>\partopsep</code>	<code>\فاصله‌بالای لیست‌بند</code>
<code>\PassOptionToClass</code>	<code>\ارسال گزینه به کلاس</code>
<code>\PassOptionToPackage</code>	<code>\ارسال گزینه به پکیج</code>
<code>\path</code>	<code>\مسیر</code>
<code>\patterns</code>	<code>\الگوها</code>
<code>\pausing</code>	<code>\مکث</code>
<code>\penalty</code>	<code>\جریمه</code>
<code>\phantom</code>	<code>\غیب</code>
<code>\poptabs</code>	<code>\الگوی قبلی</code>
<code>\postdisplaypenalty</code>	<code>\جریمه پس نمایش</code>
<code>\predisplaydirection</code>	<code>\جهت پیش نمایش</code>
<code>\predisplaypenalty</code>	<code>\جریمه پیش نمایش</code>
<code>\preplaysize</code>	<code>\اندازه پیش نمایش</code>
<code>\pretolerance</code>	<code>\پیش حد بدنمایی</code>
<code>\prevdepth</code>	<code>\عمق قبلی</code>
<code>\prevgraf</code>	<code>\بند قبلی</code>
<code>\printindex</code>	<code>\نمایه در اینجا</code>
<code>\ProcessOptions</code>	<code>\پردازش گزینه ها</code>
<code>\protect</code>	<code>\تأمین</code>
<code>\providecommand</code>	<code>\تهیه فرمان</code>
<code>\ProvidesClass</code>	<code>\آماده سازی طبقه</code>
<code>\ProvidesFile</code>	<code>\آماده سازی پرونده</code>
<code>\ProvidesPackage</code>	<code>\آماده سازی سبک</code>
<code>\pushtabs</code>	<code>\ثبت الگو</code>
<code>\quad</code>	<code>\کواد</code>
<code>\qqquad</code>	<code>\کو کواد</code>
<code>\@outputpagerestore</code>	<code>\@بازآیی خروج صفحه</code>
<code>\radical</code>	<code>\رادی کال</code>
<code>\raggedbottom</code>	<code>\پایین بی تنظیم</code>
<code>\raggedleft</code>	<code>\تنظیم از راست</code>
<code>\raggedright</code>	<code>\تنظیم از چپ</code>
<code>\raise</code>	<code>\انتقال ببالا</code>
<code>\raisebox</code>	<code>\بالا بر</code>
<code>\raisetag</code>	<code>\ترفع اتیکت</code>
<code>\rangle</code>	<code>\زاویه ر</code>
<code>\rceil</code>	<code>\سقف ر</code>
<code>\read</code>	<code>\بخوان</code>

*Continued on next page*



Command in T <sub>E</sub> X or L <sup>A</sup> T <sub>E</sub> X	Equivalent Persian Command
<code>\ref</code>	<code>\رجوع</code>
<code>\reflectbox</code>	<code>\کادرقرینه</code>
<code>\refname</code>	<code>\عنوان مراجع</code>
<code>\refstepcounter</code>	<code>\گام شمارنده مرجع</code>
<code>\relax</code>	<code>\راحت</code>
<code>\removeatlastskip</code>	<code>\رفع آخرین فاصله</code>
<code>\renewcommand</code>	<code>\فرمان ازنو</code>
<code>\renewenvironment</code>	<code>\محیط ازنو</code>
<code>\repeat</code>	<code>\ازنو</code>
<code>\RequirePackage</code>	<code>\سبک موردنیاز</code>
<code>\RequirePackageWithOptions</code>	<code>\سبک موردنیاز با گزینه</code>
<code>\resizebox</code>	<code>\کادرکشیده</code>
<code>\reversemarginpar</code>	<code>\در حاشیه معکوس</code>
<code>\rfloor</code>	<code>\کف ر</code>
<code>\right</code>	<code>\راست</code>
<code>\rightmargin</code>	<code>\حاشیه راست</code>
<code>\rightmark</code>	<code>\علامت راست</code>
<code>\rightpageskip</code>	<code>\کادر تا راست</code>
<code>\rightskip</code>	<code>\فاصله انتهای سطر</code>
<code>\rmdefault</code>	<code>\رومن عادی</code>
<code>\rmfamily</code>	<code>\فامیل رومن</code>
<code>\Roman</code>	<code>\رومن بزرگ</code>
<code>\roman</code>	<code>\رومن کوچک</code>
<code>\romannumeral</code>	<code>\عدد رومی</code>
<code>\rotatebox</code>	<code>\کادر چرخان</code>
<code>\rowcolor</code>	<code>\رنگ ردیف</code>
<code>\rule</code>	<code>\خط</code>
<code>\@secondoftwo</code>	<code>\@دومی ازدو</code>
<code>\@spaces</code>	<code>\@فضاها</code>
<code>\samepage</code>	<code>\همین صفحه</code>
<code>\savebox</code>	<code>\مقدار کادر</code>
<code>\sbox</code>	<code>\مقکادر</code>
<code>\scalebox</code>	<code>\کادر اندازه</code>
<code>\scdefault</code>	<code>\پیش فرض تمام بزرگ</code>
<code>\scshape</code>	<code>\شکل تمام بزرگ</code>
<code>\scriptfont</code>	<code>\قلم توان</code>
<code>\scriptscriptfont</code>	<code>\قلم توان توان</code>
<code>\scriptscriptstyle</code>	<code>\سبک ته نوشت ته نوشت</code>
<code>\scriptsize</code>	<code>\اندازه پانویس</code>
<code>\scriptstyle</code>	<code>\سبک ته نوشت</code>

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### Command in T<sub>E</sub>X or L<sup>A</sup>T<sub>E</sub>X    Equivalent Persian Command

<code>\scrollmode</code>	\پردازش گذری
<code>\section</code>	\قسمت
<code>\secdef</code>	\تعریف قسمت
<code>\see</code>	\ببینید
<code>\seealso</code>	\نیز ببینید
<code>\seename</code>	\نام ببینید
<code>\selectfont</code>	\قلم بردار
<code>\setboolean</code>	\تنظیم بولی
<code>\setbox</code>	\درکادر
<code>\setcounter</code>	\مقدار شمارنده
<code>\setkeys</code>	\مقدار کلیدها
<code>\setlength</code>	\مقدار بعد
<code>\setminus</code>	\تنظیم منها
<code>\SetSymbolFont</code>	\تعریف قلم علائم
<code>\settodepth</code>	\تنظیم به عمق
<code>\settoheight</code>	\تنظیم به ارتفاع
<code>\settowidth</code>	\مقدار بعد به اندازه
<code>\sfcode</code>	\کد ضریب فاصله
<code>\sfdefault</code>	\پیش فرض س ف
<code>\sffamily</code>	\فامیل سن سریف
<code>\shadowbox</code>	\کادر سایه دار
<code>\sharp</code>	\تیز
<code>\shipout</code>	\بفرست
<code>\shortstack</code>	\پشته کوتاه
<code>\show</code>	\نمایش بده
<code>\showbox</code>	\نمایش بده کادر
<code>\showboxbreadth</code>	\میزان نمایش کادر
<code>\showboxdepth</code>	\عمق نمایش کادر
<code>\showlists</code>	\نمایش بده لیستها
<code>\showthe</code>	\نمایش بده محتوای
<code>\simplefontmode</code>	\حالت ساده قلم
<code>\sist@n</code>	\شانزد @
<code>\skewchar</code>	\نویسه اریب
<code>\skip</code>	\فاصله
<code>\skip@</code>	\فاصل @
<code>\skipdef</code>	\تعریف فاصله
<code>\sl</code>	\خوابیده
<code>\sldefault</code>	\پیش فرض خو
<code>\slshape</code>	\شکل خوابیده
<code>\sloppy</code>	\راحت چین

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Command in T <sub>E</sub> X or L <sup>A</sup> T <sub>E</sub> X	Equivalent Persian Command
<code>\slshape</code>	\شمايل خو
<code>\small</code>	\کو چک
<code>\smallskip</code>	\پرش کوتاه
<code>\smallskipamount</code>	\مقدار پرش کوتاه
<code>\smash</code>	\کوب
<code>\smile</code>	\لبخند
<code>\snglftlocatencode</code>	\کد مکان همانطور
<code>\space</code>	\فضا
<code>\spacefactor</code>	\ضریب فاصله
<code>\spaceskip</code>	\فاصله کلمات
<code>\spadesuit</code>	\پیک
<code>\span</code>	\ادغام
<code>\special</code>	\ویژه
<code>\splitmaxdepth</code>	\حد اکثر عمق ستون
<code>\splittopskip</code>	\فاصله بالای ستون
<code>\star</code>	\ستاره
<code>\stepcounter</code>	\گام شمارنده
<code>\stretch</code>	\کشی
<code>\string</code>	\رشته
<code>\strut</code>	\شمع
<code>\strutbox</code>	\کادر شمع
<code>\subitem</code>	\زیر بند
<code>\subparagraph</code>	\زیر پاراگراف
<code>\subsection</code>	\زیر قسمت
<code>\substack</code>	\زیر پشته
<code>\subsubitem</code>	\زیر زیر بند
<code>\subsubsection</code>	\زیر زیر قسمت
<code>\subset</code>	\زیر مجموعه
<code>\subseteq</code>	\زیر مجموعه مسا
<code>\supereject</code>	\منتهای صفحه
<code>\suppressfloats</code>	\حذف مکان شناور
<code>\@tempa</code>	\@موقت آ
<code>\@tempb</code>	\@موقت ب
<code>\@tempc</code>	\@موقت پ
<code>\@tempd</code>	\@موقت ت
<code>\@tempe</code>	\@موقت ث
<code>\@tempboxa</code>	\@کادرقت آ
<code>\@tempcnta</code>	\@شماقت آ
<code>\@tempcntb</code>	\@شماقت ب
<code>\@tempdima</code>	\@بعدقت آ

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### Command in T<sub>E</sub>X or L<sup>A</sup>T<sub>E</sub>X      Equivalent Persian Command

\@tempdimb	\@بعدقتب
\@tempdimc	\@بعدقتپ
\@tempskipa	\@فاقتآ
\@tempskipb	\@فاقتب
\@tempswafalse	\@سواقتآنادرست
\@tempswatrue	\@سواقتآدرست
\@temptokena	\@جزقتآ
\@thefnmark	\انگ زیرنویس
\@thirdofthree	\@سومی ازسه
\tabbingsep	\فاصله جاگذاری
\tabcolsep	\فاصله بین ستونها
\tableofcontents	\فهرست مطالب
\tablename	\عنوان جدول
\tabskip	\فاصله ستونها
\tabularnewline	\ته سطرجدول
\tag	\اتیکت
\telephone	\تلفن
\TeX	\تک
\text	\متن
\textbullet	\گلوله متنی
\textfont	\قلم متن
\textemdash	\ام دش متنی
\textendash	\ان دش متنی
\textexclamdown	\تعجب وارونه متنی
\textperiodcentered	\نقطه وسط متنی
\textquestiondown	\سوال وارونه متنی
\textquotedblleft	\نقل چپ متنی دولا
\textquotedblright	\نقل راست متنی دولا
\textquoteleft	\نقل متنی چپ
\textquoteright	\نقل متنی راست
\textvisiblespace	\فضای نمایان متنی
\textbackslash	\شکافت پشت متنی
\textbar	\میله متنی
\textgreater	\بزرگ ترممتنی
\textless	\کمترمتنی
\textbf	\متن سیاه
\textcircled	\مدورمتنی
\textcolor	\رنگ متن
\textcompwordmark	\نشان کلمه مرکب متن
\textfloatsep	\فاصله متن و شناور

*Continued on next page*



Command in T <sub>E</sub> X or L <sup>A</sup> T <sub>E</sub> X	Equivalent Persian Command
<code>\textfraction</code>	\نسبت متن
<code>\textheight</code>	\بلندای متن
<code>\textindent</code>	\متن تورفته
<code>\textit</code>	\متن ایتالیک
<code>\textmd</code>	\متن نازک
<code>\textnormal</code>	\متن نرمال
<code>\textregistered</code>	\ثبتي متني
<code>\textrm</code>	\متن رومن
<code>\textsc</code>	\متن تمام بزرگ
<code>\textsf</code>	\متن سن سریف
<code>\textsl</code>	\متن خوابیده
<code>\textstyle</code>	\سبك متني
<code>\textsuperscript</code>	\بالا نويس متني
<code>\texttrademark</code>	\علامت تجاري متني
<code>\texttt</code>	\متن تایپ
<code>\textup</code>	\متن ایستاده
<code>\textwidth</code>	\پهنای متن
<code>\thanks</code>	\زیرنویس عنوان
<code>\the</code>	\محتوای
<code>\thempfn</code>	\این زیرنویس
<code>\thicklines</code>	\خط ها ضخیم
<code>\thickmuskip</code>	\فاصله زیاد ریاضی
<code>\thinmuskip</code>	\فاصله کم ریاضی
<code>\thickspace</code>	\فضا ضخیم
<code>\thinlines</code>	\خط ها نازک
<code>\thinspace</code>	\دوری کوچک
<code>\thisfancy page</code>	\این صفحه تجملی
<code>\thispage style</code>	\سبك این صفحه
<code>\thr@@</code>	\سه @
<code>\tilde</code>	\مد
<code>\tiny</code>	\ظریف
<code>\time</code>	\زمان
<code>\times</code>	\ضرب در
<code>\title</code>	\عنوان
<code>\to</code>	\به
<code>\today</code>	\امروز
<code>\toks</code>	\جزء
<code>\toksdef</code>	\تعریف جزء
<code>\tolerance</code>	\حد بدنامی
<code>\top</code>	\بالا

*Continued on next page*



Command in T <sub>E</sub> X or L <sup>A</sup> T <sub>E</sub> X	Equivalent Persian Command
<code>\topfigrule</code>	<code>\خط بالای شناور</code>
<code>\topfraction</code>	<code>\نسبت بالا</code>
<code>\topmargin</code>	<code>\حاشیه بالا</code>
<code>\topmark</code>	<code>\علامت بالا</code>
<code>\toppageskip</code>	<code>\کادر تا بالا</code>
<code>\topsep</code>	<code>\فاصله بالای لیست</code>
<code>\topskip</code>	<code>\فاصله بالا</code>
<code>\totalheight</code>	<code>\بلندای کل</code>
<code>\tracingall</code>	<code>\ردگیری کل</code>
<code>\tracingcommands</code>	<code>\ردگیری فرامین</code>
<code>\tracinglostchars</code>	<code>\ردگیری حروف</code>
<code>\tracingmacros</code>	<code>\ردگیری ماکروها</code>
<code>\tracingonline</code>	<code>\ردگیری نمایشی</code>
<code>\tracingoutput</code>	<code>\ردگیری صفحه بندی</code>
<code>\tracingpages</code>	<code>\ردگیری صفحات</code>
<code>\tracingparagraphs</code>	<code>\ردگیری بندها</code>
<code>\tracingrestores</code>	<code>\ردگیری بازگردانی</code>
<code>\tracingstats</code>	<code>\ردگیری آمارها</code>
<code>\triangle</code>	<code>\مثلث</code>
<code>\ttdefault</code>	<code>\پیش فرض تایپ</code>
<code>\ttfamily</code>	<code>\فامیل تایپ</code>
<code>\tw@</code>	<code>\دو@</code>
<code>\twocolumn</code>	<code>\دو ستون</code>
<code>\typein</code>	<code>\در نویسی</code>
<code>\typeout</code>	<code>\بر نویسی</code>
<code>\uccode</code>	<code>\کد بزرگ</code>
<code>\uchyph</code>	<code>\تیره بندی بزرگ</code>
<code>\undefined</code>	<code>\تعریف نشده</code>
<code>\underline</code>	<code>\زیر خط</code>
<code>\unhbox</code>	<code>\بی کادر</code>
<code>\unhcopy</code>	<code>\بی کپی</code>
<code>\unitlength</code>	<code>\واحد طول</code>
<code>\unkern</code>	<code>\برگشت دوری</code>
<code>\unpenalty</code>	<code>\برگشت جریمه</code>
<code>\unskip</code>	<code>\برگشت فاصله</code>
<code>\unvbox</code>	<code>\بی کادرو</code>
<code>\unvcopy</code>	<code>\بی کپی و</code>
<code>\updefault</code>	<code>\پیش فرض ایستاده</code>
<code>\upshape</code>	<code>\شکل ایستاده</code>
<code>\usebox</code>	<code>\از کادر</code>

*Continued on next page*



Command in T <sub>E</sub> X or L <sup>A</sup> T <sub>E</sub> X	Equivalent Persian Command
\usecounter	\باشمارشگر
\usefont	\گزینه‌ش قلم
\usepackage	\سبک لازم
\@vobeyspaces	\@فضاهای فعال
\@void	\@تهی
\adjust	\تنظیم و
\align	\ردیف و
\value	\محتوای شمارنده
\vbadness	\بدنمایی و
\vbox	\کادر و
\vcenter	\کادر وسط
\verb	\همانطور
\vfil	\پرو
\vfill	\پررو
\vfilneg	\رفع پرو
\vfuzz	\پر زعمودی
\visible	\نمایان
\vline	\خط عمود
\voffset	\حاشیه و
\voidb@x	\ک@در تهی
\vpageref	\ارجاع صفحه ع
\vrbboxsep	\فاصله وگرد
\vref	\ارجاع ع
\vrule	\خط و
\vsize	\طول صفحه
\vskip	\فاصله و
\vspace	\فضای و
\vsplit	\شکست و
\vss	\هر دو و
\vtop	\کادر گود
\wd	\عرض
\whiledo	\مادام بکن
\widehat	\کلاه پهن
\widetilde	\مد پهن
\widowpenalty	\جریمه ته بند
\width	\پهنا
\wlog	\در کارنامه
\write	\بنویس
\@xobeysp	\@فضای لاتین
\@xxxii	\سی@دو

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Command in T <sub>E</sub> X or L <sup>A</sup> T <sub>E</sub> X	Equivalent Persian Command
\xdef	\ترگع
\xleaders	\نشانگر گسترشی
\xspaceskip	\فاصله اضافی کلمات
\year	\سال
\z@	\@فر
\z@skip	\@فر فاصله

Table 2: The Equivalent XePersian Commands

Command in XePersian	Equivalent Persian Command
\autofootnoterule	\خط زیرنویس خودکار
\AutoMathsDigits	\اعداد فرمولها خودکار
\DefaultMathsDigits	\اعداد فرمولها لاتین
\deflatinfont	\تعریف قلم لاتین
\defpersianfont	\تعریف قلم پارسی
\hboxL	\کادر اچپ
\hboxR	\کادر راست
\keyval@eq@alias@key	\معادل@کلید
\Latincite	\مرجع لاتین
\latinfont	\قلم لاتین
\latintoday	\امروز لاتین
\leftfootnoterule	\خط زیرنویس چپ
\lr	\متن لاتین
\LRE	\چپ براست
\LTRdblcol	\دوستونی چپ
\LTRfootnote	\پانویس
\LTRfootnotetext	\متن پانویس
\LTRthanks	\پانویس عنوان
\persianday	\روز پارسی
\persianfont	\قلم پارسی
\PersianMathsDigits	\اعداد فرمولها پارسی
\persianmonth	\ماه پارسی
\persianyear	\سال پارسی
\plq	\علامت چپ نقل قول پارسی
\prq	\علامت راست نقل قول پارسی
\rightfootnoterule	\خط زیرنویس راست
\rl	\متن پارسی
\RLE	\راست بچپ
\RTLdblcol	\دوستونی راست
\RTLfootnote	\پانویست

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Command in XePersian	Equivalent Persian Command
<code>\RTLfootnotetext</code>	\متن پانوشته
<code>\RTLthanks</code>	\پانوشته عنوان
<code>\@SepMark</code>	\@علامت بین
<code>\SepMark</code>	\علامت بین
<code>\setdefaultbibitems</code>	\بگذار مرجوعات عادی
<code>\setdefaultmarginpar</code>	\بگذار در حاشیه عادی
<code>\setdigitfont</code>	\گزینش قلم اعداد فرمولها
<code>\setfootnoteLR</code>	\بگذار زیرنویس چپ
<code>\setfootnoteRL</code>	\بگذار زیرنویس راست
<code>\setlatintextfont</code>	\گزینش قلم لاتین متن
<code>\setLTR</code>	\بگذار متن چپ
<code>\setLTRbibitems</code>	\بگذار مرجوعات چپ
<code>\setLTRmarginpar</code>	\بگذار در حاشیه چپ
<code>\setRTL</code>	\بگذار متن راست
<code>\setRTLbibitems</code>	\بگذار مرجوعات راست
<code>\setRTLmarginpar</code>	\بگذار در حاشیه راست
<code>\settextfont</code>	\گزینش قلم متن
<code>\textwidthfootnoterule</code>	\خط زیرنویس پهنای متن
<code>\twocolumnstableofcontents</code>	\فهرست مطالب دو ستونی
<code>\unsetfootnoteRL</code>	\نگذار زیرنویس راست
<code>\unsetLTR</code>	\نگذار متن چپ
<code>\unsetRTL</code>	\نگذار متن راست
<code>\vboxL</code>	\کادر واز چپ
<code>\vboxR</code>	\کادر واز راست
<code>\XeLaTeX</code>	\زی لاتک
<code>\XePersian</code>	\زی پرشین
<code>\xepersianversion</code>	\گونه زی پرشین
<code>\xepersiandate</code>	\تاریخ گونه زی پرشین
<code>\XeTeX</code>	\زی تک

Table 3: The Equivalent  $\text{\LaTeX}$  Environments

Environment in $\text{\LaTeX}$	Equivalent Persian Environment
<code>abstract</code>	چکیده
<code>appendix</code>	پیوست
<code>array</code>	آرایه
<code>center</code>	وسط چین
<code>description</code>	توضیح
<code>displaymath</code>	ریاضی نمایشی
<code>document</code>	نوشتار
<code>enumerate</code>	شمارش
<code>figure</code>	شکل

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Environment in $\text{\LaTeX}$	Equivalent Persian Environment
figure*	شکل*
filecontents	محتوای پرونده
filecontents*	محتوای پرونده*
flushleft	چپ چین
flushright	راست چین
itemize	فقرات
letter	نامه
list	لیست
longtable	جدول دراز
lrbox	کادر رج
math	ریاضی
matrix	ماتریس
minipage	صفحه کوچک
multicols	چندستونی ها
multline	چند خطی
note	یادداشت
overlay	انباشتن
picture	تصویر
quotation	اقتباس
quote	نقل
slide	اسلاید
sloppypar	پارنا مرتب
split	شکافتن
subarray	زیر آرایه
tabbing	جاگذاری
table	لوح
table*	لوح*
tabular	جدول
tabular*	جدول*
thebibliography	مراجع
theindex	محتوای نمایه
titlepage	صفحه عنوان
trivlist	لیست بدوی
verbatim	همانطور که هست
verbatim*	همانطور که هست*
verse	شعر

Table 4: The Equivalent XePersian Environments

Environment in XePersian	Equivalent Persian Environment
latin	لاتین
LTR	متن چپ

*Continued on next page*



Environment in XePersian	Equivalent Persian Environment
LTRitems	دسته‌بندی چپ
persian	پارسی
RTL	متن راست
RTLitems	دسته‌بندی راست

**Localisation of position arguments.** Some environments like `tabular` and some commands like `\parbox` have an argument which specifies the position. Table [Table 5](#) shows their localisations.

Table 5: The Equivalent  $\text{\LaTeX}$  position arguments

Position argument in $\text{\LaTeX}$	Equivalent Persian position argument
b	ز
c	و
C	س
h	ا
H	آ
J	ت
l	چ
L	ف
m	م
p	پ
P	ص
r	ر
R	ا
s	ک
t	ب

☞ There are two ps in [Table 5](#), first p and its Persian equivalent پ stand for paragraph (used in `tabular` and similar environments) and the second p and its Persian equivalent ص stand for page (used in float-like environments).

#### 2.4.8 Localizations of the keys and key values of `graphicx` package

The equivalent Persian keys and key values of `graphicx` package is shown in [Table 6](#) and [Table 7](#) respectively.

Table 6: Persian Equivalent keys of `graphicx` package

Original Key	Equivalent Persian Key
draft	پیش نویس
origin	مبدأ
clip	بی اضافه
keepaspectratio	حفظ تناسب
natwidth	پهنای طبیعی

*Continued on next page*



Original Key	Equivalent Persian Key
natheight	بلندای طبیعی
bb	مختصات
viewport	محدوده نمایش
trim	حذف اطراف
angle	زاویه
width	پهنا
height	بلندا
totalheight	بلندای کل
scale	ضریب
type	نوع
ext	پسوند
read	خواندنی
command	فرمان
x	طول
y	عرض
units	واحد

Table 7: Persian Equivalent key values of graphicx package

Original Key value	Equivalent Persian Key value
b	ز
B	ک
false	نادرست
l	چ
r	ر
t	ب
true	درست

#### 2.4.9 Localizations of font features and font feature options

The equivalent Persian font features and font feature options is shown in [Table 8](#) and [Table 9](#) respectively.

Table 8: Persian Equivalent font features

Original font feature	Equivalent Persian font feature
ExternalLocation	مکان خارجی
ExternalLocation	مسیر
Renderer	تحويل دهنده
BoldFont	قلم سیاه
Language	زبان
Script	خط
UprightFont	قلم عمودی
ItalicFont	قلم ایتالیک

*Continued on next page*



Original font feature	Equivalent Persian font feature
BoldItalicFont	قلم ایتالیک سیاه
SlantedFont	قلم خوابیده
BoldSlantedFont	قلم خوابیده سیاه
SmallCapsFont	قلم کلاه کوچک
UprightFeatures	ویژگی های قلم عمودی
BoldFeatures	ویژگی های قلم سیاه
ItalicFeatures	ویژگی های قلم ایتالیک
BoldItalicFeatures	ویژگی های قلم ایتالیک سیاه
SlantedFeatures	ویژگی های قلم خوابیده
BoldSlantedFeatures	ویژگی های قلم خوابیده سیاه
SmallCapsFeatures	ویژگی های قلم کلاه کوچک
SizeFeatures	ویژگی های اندازه
Scale	ضریب
WordSpace	فضای کلمه
PunctuationSpace	فضای نقطه گذاری
FontAdjustment	تنظیم قلم
LetterSpace	فضای حرف
HyphenChar	نویسه تیره
Color	رنگ
Opacity	کدری
Mapping	نگاشت
Weight	سنگینی
Width	پهنا
OpticalSize	اندازه چشمی
FakeSlant	خوابیده تقلبی
FakeStretch	کشش تقلبی
FakeBold	سیاه تقلبی
AutoFakeSlant	خوابیده تقلبی خودکار
AutoFakeBold	سیاه تقلبی خودکار
Ligatures	دو یا چند حرف متصل به هم
Alternate	متناوب
Variant	گوناگون
Variant	مجموعه سبکی
CharacterVariant	گوناگونی نویسه
Style	سبک
Annotation	یادداشت
RawFeature	ویژگی های کال
CharacterWidth	پهنای نویسه
Numbers	ارقام
Contextuals	متنی

*Continued on next page*



Original font feature	Equivalent Persian font feature
Diacritics	تفکیک کننده ها
Letters	حروف
Kerning	دوری
VerticalPosition	موقعیت عمودی
Fractions	کسر

Table 9: Persian Equivalent font feature options

font feature	font feature option	Persian font feature option
Language	Default	پیش فرض
Language	Parsi	پارسی
Script	Parsi	پارسی
Script	Latin	لاتین
Style	MathScript	اسکریپت ریاضی
Style	MathScriptScript	اسکریپت اسکریپت ریاضی

## 2.5 A Sample Input T<sub>E</sub>X File

```

1 \documentclass{article}
2 \usepackage{xepersian}
3 \settextfont{XB Niloofar}
4 \title{یک سند نمونه}
5 \author{نام نویسنده}
6 \begin{document}
7 \maketitle
8 \tableofcontents
9 \part{عنوان بخش}
10 ...
11 \section{عنوان قسمت}
12 ...
13 \subsection{عنوان زیرقسمت}
14 ...
15 \subsubsection{عنوان زیر زیرقسمت}
16 ...
17 \end{document}

```

## 2.6 Font Commands



### 2.6.1 Basic Font Commands

```
\settextfont [Options] {\font name}  
\setlatintextfont [Options] {\font name}  
\setdigitfont [Options] {\font name}  
\setmathsfdigitfont [Options] {\font name}  
\setmathttdigitfont [Options] {\font name}
```

- ☞ Options in any font command in this documentation are anything that fontspec package provides as the option of loading fonts, except Script and Mapping.
- ☞ `\settextfont` will choose the default font for Persian texts of your document.
- ☞ `\setlatintextfont` will choose the font for Latin texts of your document. If you do not use this command at all, the default T<sub>E</sub>X font (fonts used in this documentation) will be used for Latin texts of your document.
- ☞ `\setdigitfont` will choose the Persian font for digits in math mode. By default, digits in math mode will appear in Persian form.
- ☞ `\setmathsfdigitfont` will choose the Persian font for digits in math mode inside `\mathsf`. By using this command, digits in math mode inside `\mathsf` will appear in Persian form and if you do not use this command at all, you will get default T<sub>E</sub>X font for digits in math mode inside `\mathsf` and digits appear in their original form (Western).
- ☞ `\setmathttdigitfont` will choose the Persian font for digits in math mode inside `\mathtt`. By using this command, digits in math mode inside `\mathtt` will appear in Persian form and if you do not use this command at all, you will get default T<sub>E</sub>X font for digits in math mode inside `\mathtt` and digits appear in their original form (Western).

### 2.6.2 Defining Extra Persian and Latin Fonts

```
\defpersianfont\CS [Options] {\font name}  
\deflatinfont\CS [Options] {\font name}
```

- ☞ With `\defpersianfont`, you can define extra Persian fonts.

```
\defpersianfont\Nastaliq[Scale=1]{IranNastaliq}
```

In this example, we define `\Nastaliq` to stand for IranNastaliq font.

- ☞ With `\deflatinfont`, you can define extra Latin fonts.

```
\deflatinfont\junicode[Scale=1]{Junicode}
```

In this example, we define `\junicode` to stand for Junicode font.





### 2.6.3 Choosing Persian Sans Font

```
\setpersiansansfont [Options] {\font name}  
\persiansffamily \textpersiansf{\text}
```

### 2.6.4 Choosing Persian Mono Font

```
\setpersianmonofont [Options] {\font name}  
\persianttfamily \textpersiantt{\text}
```

### 2.6.5 Choosing Persian Iranic Font

```
\setiraniconfont [Options] {\font name}  
\iranicfamily \textiranicon{\text}
```

### 2.6.6 Choosing Persian Navar Font

```
\setnavarfont [Options] {\font name}  
\navarfamily \textnavar{\text}
```

### 2.6.7 Choosing Persian Pook Font

```
\setpookfont [Options] {\font name}  
\pookfamily \textpook{\text}
```

### 2.6.8 Choosing Persian Sayeh Font

```
\setsayehfont [Options] {\font name}  
\sayehfamily \textsayeh{\text}
```

### 2.6.9 Choosing Latin Sans Font

```
\setlatinsansfont [Options] {\font name}  
\sffamily \textsf{\text}
```

### 2.6.10 Choosing Latin Mono Font

```
\setlatinmonofont [Options] {\font name}  
\ttfamily \texttt{\text}
```



## 3 Latin and Persian Environment

```
\begin{latin} <text> \end{latin}  
\begin{persian} <text> \end{persian}
```

- ☞ `latin` environment both changes direction of the paragraphs to LTR and font to Latin font.
- ☞ `persian` environment both changes direction of the Paragraphs to RTL and font to Persian font.

### 3.1 `latinitems` and `parsiitems` environments

```
\begin{latinitems}  
  \item <text>  
  ...  
\end{latinitems}
```

- ☞ `latinitems` environment is similar to `LTRitems` environment but changes the font to Latin font.

```
\begin{parsiitems}  
  \item <text>  
  ...  
\end{parsiitems}
```

- ☞ `parsiitems` environment is similar to `RTLitems` environment but changes the font to Persian font.

### 3.2 Short Latin and Persian Texts

```
\lr{<text>} \rl{<text>}
```

- ☞ With `\lr` command, you can typeset short LTR texts.
- ☞ With `\rl` command, you can typeset short RTL texts.

### 3.3 Miscellaneous Commands

```
\persianyear \persianmonth \persianday  
\today \latintoday \twocolumnstableofcontents \XePersian  
\plq \prq
```

- ☞ `\persianyear` is Persian equivalent of `\year`.



- ☞ `\persianmonth` is Persian equivalent of `\month`.
- ☞ `\persianday` is Persian equivalent of `\day`.
- ☞ `\today` typesets current Persian date and `\latintoday` typesets current Latin date.
- ☞ `\twocolumnstableofcontents` typesets table of contents in two columns. This requires that you have loaded `multicol` package before `XePersian` package, otherwise an error will be issued.
- ☞ `\XePersian` typesets XePersian's logo.
- ☞ `\plq` and `\prq` typeset Persian left quote and Persian right quote respectively.

### 3.4 New Commands

`\Latincite`

- ☞ `\Latincite` functions exactly like `\cite` command with only one difference; the reference to biblabel item is printed in Latin font in the text.

### 3.5 Additional Counters

XePersian defines several additional counters to what already  $\text{\LaTeX}$  offers. These counters are `harfi`, `adadi`, and `tartibi`. In addition, the following commands are also provided:

`\harfinumeral{⟨integer⟩}`   `\adadinumeral{⟨integer⟩}`   `\tartibinumeral{⟨integer⟩}`

- ☞ The range of `harfi` counter is integers between 1 and 32 (number of the Persian alphabets) and `adadi` and `tartibi` counters, are integers between 0 and 999,999,999.
- ☞ For `harfi` counter, if you give an integer bigger than 32 or a negative integer (if you give integer 0, it returns nothing), then you get error and for `adadi` and `tartibi` counters, if you give an integer bigger than 999,999,999, then you get an error message.
- ☞ For `adadi` and `tartibi` counters, if you give an integer less than 0 (a negative integer), then `adadi` and `tartibi` counters return **adadi** and **tartibi** form of the integer 0, respectively.
- ☞ `\harfinumeral` returns the **harfi** form of  $\langle integer \rangle$ , where  $1 \leq integer \leq 32$  and `\adadinumeral`, and `\tartibinumeral` return **adadi**, and **tartibi** form of  $\langle integer \rangle$  respectively, where  $0 \leq integer \leq 999,999,999$ .



### 3.6 Things To Know About `\setdigitfont`, `\setmathsfdigitfont`, and `\setmathttdigitfont`

<code>\DefaultMathsDigits</code> <code>\PersianMathsDigits</code> <code>\AutoMathsDigits</code>
---

- ☞ As we discussed before, `\setdigitfont` will choose the Persian font for digits in math mode. By default, digits in math mode will appear in Persian form.
  - ☞ As we discussed before, `\setmathsfdigitfont`, and `\setmathttdigitfont` will choose the Persian sans serif and typewriter fonts for digits in math mode. By using this command, digits in math mode will appear in Persian form and if you do not use this command at all, you will get default T<sub>E</sub>X font for digits in math mode and digits appear in their original form (Western).
- If you use `\setdigitfont`, `\setmathsfdigitfont`, and `\setmathttdigitfont`, then you should know that:

- ☞ By default, `\AutoMathsDigits` is active, which means that in Persian mode, you get Persian digits in math mode and in Latin mode, you get T<sub>E</sub>X's default font and digits in math mode.
- ☞ If you use `\PersianMathsDigits` anywhere, you will overwrite XePersian's default behaviour and you will always get Persian digits in math mode.
- ☞ If you use `\DefaultMathsDigits` anywhere, again you will overwrite XePersian's default behaviour and you will always get T<sub>E</sub>X's default font and digits in math mode.

## 4 New Conditionals

### 4.1 Shell escape (or `write18`) conditional

<pre>\ifwritexviii   <i>&lt;material when Shell escape (or write18) is enabled&gt;</i> \else   <i>&lt;material when Shell escape (or write18) is not enabled&gt;</i> \fi</pre>
--

## 5 Bilingual Captions

XePersian sets caption bilingually. This means if you are in RTL mode, you get Persian caption and if you are in LTR mode, you get English caption.



## 5.1 Support For Various Packages

In addition to what bidi package supports, XePersian also support a few packages. This support is more about language aspect rather than directionality. These packages are algorithmic, algorithm, enumerate, and backref packages.

### 5.1.1 Things You Should Know about Support For enumerate Package

The enumerate package gives the enumerate environment an optional argument which determines the style in which the counter is printed.

An occurrence of one of the tokens A, a, I, i, or 1 produces the value of the counter printed with (respectively) \Alph, \alph, \Roman, \roman or \arabic.

In addition with the extra support that XePersian provides, an occurrence of one of the tokens l, ی, or ت produces the value of the counter printed with (respectively) \harfi, \adadi, or \tartibi.

These letters may be surrounded by any strings involving any other T<sub>E</sub>X expressions, however the tokens A, a, I, i, 1, l, ی, ت must be inside a {} group if they are not to be taken as special.

To see an Example, please look at enumerate package documentation.

## 5.2 Index Generation

For generating index, you are advised to use xindy program, any other program such as makeindex is not recommended.

## 5.3 Converting Your FarsiT<sub>E</sub>X Files To XePersian or Unicode

There is a python program written by Mostafa Vahedi that enables you to convert FarsiT<sub>E</sub>X files to XePersian or unicode. This program can be found in doc folder with the name ftxe-0.12.py. To convert your FarsiT<sub>E</sub>X files to XePersian, put ftxe-0.12.py in the same directory that your FarsiT<sub>E</sub>X file is, and then open a terminal/command prompt and do the following:

```
python ftxe-0.12.py file.ftx file.tex
```

This will convert your file.ftx (FarsiT<sub>E</sub>X file) to file.tex (XePersian file).

The general syntax of using the python script is as follow:

```
python ftxe-0.12.py [-r] [-s] [-x] [-u] input-filename1 input-filename2
```

Where

-r (DEFAULT) recursively consider files included in the given files

-s do not recursively consider files

-x (DEFAULT) insert XePersian related commands



-u only convert to unicode (and not to XePersian)

Please note that the python script will not work with versions of python later than 2.6. So you are encouraged to use version 2.6 of python to benefit from this python script.

## 6 Extra Packages And Classes

### 6.1 Magazine Typesetting

#### 6.1.1 Introduction

xepersian-magazine class allows you to create magazines, newspapers and any other types of papers. The output document has a front page and as many inner pages as desired. Articles appear one after another, telling the type, number of columns, heading, subheading, images, author and so forth. It is possible to change the aspect of (almost) everything therefore it is highly customisable. Commands to add different titles, headings and footers are also provided.

#### 6.1.2 Usage

To create<sup>2</sup> a magazine just load the class as usual<sup>3</sup>, with

```
\documentclass [Options] {xepersian-magazine}
```

at the beginning of your source file. The class options are described in [subsubsection 6.1.12](#).

From this point it is possible to include packages and renew class commands described in [subsubsection 6.1.9](#).

#### 6.1.3 Front Page

As every magazine, xepersian-magazine has its own front page. It includes main headings, an index, the magazine logo and other useful information. This environment should be the first you use within xepersian-magazine class but it is not mandatory.

```
\firstimage \firstarticle
```

The first two commands you can use inside the `frontpage` environment are `\firstimage` and `\firstarticle` which include, respectively, the main image and the main heading in the front page. The first one takes two arguments  $\langle image \rangle$  and  $\langle description \rangle$ . Notice that second argument is optional and it declares the image

<sup>2</sup>For a sample file, please look at `magazine-sample.tex` in the doc folder

<sup>3</sup>You also need to load `graphicx`, `xunicode` and `xepersian` packages respectively, after loading the document class and choose fonts for the main text, Latin text and digits in maths formulas. For more detail see [section 2](#) of the documentation.



caption; *<image>* defines the relative path to the image. In order to include the first piece of article use

```
\firstarticle{<title>}{<opening>}{<time>}
```

first two arguments are mandatory and represent heading and the opening paragraph. Last argument is optional (you can leave it blank) and indicates the time when article happened.

```
\secondarticle
```

The second piece of article is included using the command `\secondarticle` just as the first article. The main difference are that this second piece has two more arguments and it does not include an image.

```
\secondarticle{<title>}{<subtitle>}{<opening>}{<pagesof>}{<time>}
```

The new arguments *<subtitle>* and *<pagesof>* define a subtitle and the name of the section for this piece of article.

```
\thirdarticle
```

The third piece of article is the last one in the xepersian-magazine front page. It works like the `\secondarticle`.

```
\thirdarticle{<title>}{<subtitle>}{<opening>}{<pagesof>}{<time>}
```

The arguments meaning is the same as `\secondarticle` command.

The front page includes three information blocks besides the news: `indexblock` which contains the index, `authorblock` which includes information about the author and a `weatherblock` containing a weather forecast. All these three environments are mostly a frame in the front page therefore they can be redefined to fit your personal wishes but I kept them to give an example and to respect the original xepersian-magazine format.

```
\indexitem
```

The `indexblock` environment contains a manually edited index of xepersian-magazine. It takes one optional argument *<title>* and places a title over the index block. To add entries inside the index just type

```
\indexitem{<title>}{<reference>}
```

inside the environment. The *<title>* is the index entry text and the *<reference>* points to a article inside xepersian-magazine. It will be more clear when you read [subsub-](#)



[section 6.1.4](#). In order to get a correct output, it is necessary to leave a blank line between index items.

The `authorblock` environment can include whatever you would like. I called it `authorblock` because I think it is nice to include some author reference in the front page: who you are, why are you doing this... This environment creates a frame box in the bottom right corner of the front page with your own logo at the top.

```
\weatheritem
```

Finally, the `weatherblock` lets you include a weather forecast. It takes one optional argument  $\langle title \rangle$  that places a title over the weather block. It can fit up to three weather icons with maximum and minimum temperatures, description and name. To add each of the weather entries type the following

```
\weatheritem{\langle image \rangle}{\langle day-name \rangle}{\langle max \rangle}{\langle min \rangle}{\langle short-des \rangle}
```

The first argument includes the path to the weather icon (i.e. sunny or rainy),  $\langle day-name \rangle$  like Monday,  $\langle max \rangle$  and  $\langle min \rangle$  are the highest and lowest day temperatures and  $\langle short-des \rangle$  is a brief description of the weather condition: partly cloudy, sunny and windy ...

#### 6.1.4 Inside

Once we have created the front page we should include all articles inside our magazine. `xepersian-magazine` arranges all articles one after each other, expanding headings all over the page and splitting the article text in the number of columns we wish. There are three different environments to define a piece of article: the `article` environment described in [subsection 6.1.5](#), the `editorial` environment [subsection 6.1.6](#) for opinion articles and the `shortarticle` environment explained in [subsection 6.1.7](#).

#### 6.1.5 The article environment

The main environment to include a piece of article is called `article`. It takes four arguments that set up the headings and structure of the article.

```
\begin{article}{\langle num-of-columns \rangle}{\langle title \rangle}{\langle subtitle \rangle}{\langle pagesof \rangle}{\langle label \rangle}
... \langle text \rangle ...
\end{article}
```

The first argument  $\langle num-of-columns \rangle$  sets the number of columns the article will be divided whereas  $\langle label \rangle$  is used when pointing an article from the index in the front page. The rest of the arguments are easy to understand.

Inside the `article` environment, besides the main text of the article, it is possible to include additional information using several class commands.





```
\authorandplace \timestamp
```

The `\authorandplace{<author>}{<place>}` inserts the name of the editor and the place where the article happened in the way many magazines do. Another useful command is `\timestamp{<time>}` which includes the time and a separator just before the text. These two commands should be used before the text because they type the text as the same place they are executed.

```
\image
```

To include images within the text of an article, xepersian-magazine provides an `\image` command. Since multicols package does not provide any float support for its multicols environment, I created a macro that includes an image only if that is possible, calculating if there is enough space for the image. It is not the best solution but it works quite well and I could not find a better one. To include an image use the command and its two arguments: the relative path to the image and a short description.

```
\image{<image>}{<description>}
```

```
\columnntitle \expandedtitle
```

Within the text of the article, it is possible to add column and expanded titles. The main difference between them is that the first one keeps inside the width of an article column whereas the second expands all over the width of the page, breaking all the columns. Their use is analogous, as follows

```
\columnntitle{<type>}{<text>}  
\expandedtitle{<type>}{<text>}
```

These two commands use fancybox package features. That is why there are five different types of titles which correspond mainly with fancybox ones: shadowbox, doublebox, ovalbox, Ovalbox and lines.

### 6.1.6 The editorial environment

In addition to the editorial article environment, one can use the editorial environment to create editorial or opinion texts. The main feature is that it transforms the style of the heading. Although this environment accepts all the commands article takes, it does not make any sense to use the `\authorandplace` command within it since it includes an author argument. To create an editorial text use



```
\begin{editorial}{\langle num-of-columns \rangle}{\langle title \rangle}{\langle author \rangle}{\langle label \rangle}
...{\langle text \rangle}...
\end{editorial}
```

All arguments have the same meaning as article environment (see [subsubsection 6.1.5](#)).

### 6.1.7 The shortarticle environment

The shortarticle environment creates a block of short article. Although it has its own title and subtitle, each piece of article within it may have a title. To use it just type:

```
\begin{shortarticle}{\langle num-of-columns \rangle}{\langle title \rangle}{\langle subtitle \rangle}{\langle label \rangle}
...{\langle text \rangle}...
\shortarticleitem{\langle title \rangle}{\langle text \rangle}
...
\end{shortarticle}
```

You can also specify the number of columns of the block like editorial and article environments. To add a piece of article inside the shortarticle use the `\shortarticleitem`, indicating a title and the text of the issue.

### 6.1.8 Commands between articles

```
\articlesep \newsection
```

There are two commands you can use among the articles inside xepersian-magazine: `\articlesep` and `\newsection`. The first one does not take any parameter and just draws a line between two articles. The second changes the content of `\xepersian@section` to the new *`\section name`*. From the point it is used, all articles which follow will be grouped within the new section.

```
\newsection{\langle section name \rangle}
```

### 6.1.9 Customization

xepersian-magazine includes many commands which can be used to customize its aspect, from the front page to the last page. I will list them grouped so it is easy to find them. Treat them as standard  $\text{\LaTeX}$  commands, using `\renewcommand` to change their behaviour.



### 6.1.10 Front Page

```
\customlogo \customminilogo \custommagazinename
```

When creating a magazine, everyone wants to show its own logo instead of xepersian-magazine default heading. To achieve this, you need to put the following command at the preamble of your document:

```
\customlogo{<text>}  
\customminilogo{<text>}  
\custommagazinename{<text>}
```

```
\edition \editionformat
```

The edition text has to be declared in the preamble of the document. One important thing to know is that `\author`, `\date` and `\title` have no effect inside xepersian-magazine since the magazine date is taken from `\today` command and the other two are only for the title page (if using `\maketitle`).

```
\indexFormat \indexEntryFormat \indexEntryPageTxt  
\indexEntryPageFormat \indexEntrySeparator
```

When defining the index in the front page, there are several commands to customize the final index style. `\indexFormat` sets the format of the title; `\indexEntryFormat`, the format of each index entry; `\indexEntryPageTxt` and `\indexEntryPageFormat` lets you define which is the text that goes with the page number and its format. Finally, xepersian-magazine creates a thin line between index entries, you can redefine it using `\indexEntrySeparator`. To get the index with `\xepersian@indexwidth` is provided.

```
\weatherFormat \weatherTempFormat \weatherUnits
```

Relating to the weather block, the title format can be changed redefining `\weatherFormat`. In order to customize the format of the temperature numbers and their units it is necessary to redefine `\weatherTempFormat` and `\weatherUnits` respectively.

```
\*TitleFormat \*SubtitleFormat \*TextFormat
```

The main article that appear in the front page can change their formats. To obtain that there are three standard commands to modify the title, subtitle and text style. You just have to replace the star (\*) with first, second or third depending on which article you are editing. Note that first piece of article has no subtitle therefore it does not make any sense to use the non-existent command `\firstSubtitleFormat`.



```
\pictureCaptionFormat \pagesFormat
```

Two other elements to configure are the picture captions and the pages or section format in the entire document. To proceed just redefine the macros `\pictureCaptionFormat` and `\pagesFormat`.

#### 6.1.11 Inside The Magazine

```
\innerTitleFormat \innerSubtitleFormat \innerAuthorFormat  
\innerPlaceFormat
```

The articles inside `xepersian-magazine` may have a different format from the ones in the front page. To change their title or subtitle format redefine `\innerTitleFormat` and `\innerSubtitleFormat`. The article text format matches the document general definition. When using the `\authorandplace` command, you might want to change the default style. Just renew `\innerAuthorFormat` and `\innerPlaceFormat` to get the results.

```
\timestampTxt \timestampSeparator \timestampFormat
```

The `\timestamp` command described in [subsubsection 6.1.5](#) lets you introduce the time of the event before the article text. You can configure its appearance by altering several commands: `\timestampTxt` which means the text after the timestamp; `\timestampSeparator` which defines the element between the actual timestamp and the beginning of the text and, finally, `\timestampFormat` to change the entire timestamp format.

```
\innerTextFinalMark
```

`xepersian-magazine` puts a small black square at the end of the article. As I wanted to create a highly customizable  $\text{\LaTeX}$  class I added the macro `\innerTextFinalMark` to change this black square. This item will appear always following the last character of the text with the `~` character.

```
\minraggedcols \raggedFormat
```

The `\minraggedcols` counter is used to tell `xepersian-magazine` when article text should be ragged instead of justified. The counter represents the minimum number of columns that are needed in order to use ragged texts. For example, if `\minraggedcols` is set to 3, all articles with 3 columns or more will be ragged. Articles with 1, 2 columns will have justified text. By default, `\minraggedcols` is set to 4.

The `\raggedFormat` macro can be redefined to fit user ragged style. Default value is `\RaggedLeft`.



```
\heading \foot
```

xepersian-magazine includes package fancyhdr for changing headings and footers. Although it is possible to use its own commands to modify xepersian-magazine style, there are two commands to change headings and foot appearance. Place them in the preamble of your xepersian-magazine document.

```
\heading{\left}\{center}\{right}\  
\foot{\left}\{center}\{right}
```

If you still prefer to use fancyhdr macros, use them after the `frontpage` environment. xepersian-magazine by default places no headers and footers. If you want headers and footers, then after loading xepersian package, you should write `\pagestyle{fancy}` at the preamble of your document.

### 6.1.12 Class Options

The xepersian-magazine class is in itself an alteration of the standard article class, thus it inherits most of its class options but twoside, twocolumn, notitlepage and a4paper. If you find problems when loading other article features, please let me know to fix it. There are also five own options that xepersian-magazine implements.

**a3paper** (false) This option makes xepersian-magazine 297 mm width by 420 mm height. This option is implemented because the standard article class does not allow this document size.

**9pt** (false) Allows the 9pt font size that article class does not include (default is 10pt).

**columnlines** columnlines (false) Adds lines between columns in the entire xepersian-magazine. The default line width is 0.1pt but it is possible to change this by setting length `\columnlines` in the preamble.

**showgrid** (false) This option is only for developing purposes. Because the front page has a personal design using the textpos package, I created this grid to make easier the layout.

## 6.2 Typesetting Multiple-choice Questions

### 6.2.1 Introduction

xepersian-multiplechoice is a package for making multiple choices questionnaires under  $\text{\LaTeX}$ . A special environment allows you to define questions and possible answers. You can specify which answers are correct and which are not. xepersian-multiplechoice not only formats the questions for you, but also generates a “form” (a grid that your students will have to fill in), and a “mask” (the same grid, only with correct answers properly checked in). You can then print the mask on a slide and correct the questionnaires more easily by superimposing the mask on top of students’ forms.



### 6.2.2 Usage

Here we now explain the usage of this package, however there are four example files, namely `test-question-only.tex`, `test-solution-form.tex`, `test-empty-form.tex` and `test-correction.tex`, available in doc folder that you may want to look at.

### 6.2.3 Loading The Package

You can load the package as usual by:

```
\usepackage [Options] {xepersian-multiplechoice}
```

The available options are described along the text, where appropriate.

### 6.2.4 Creating Questions

Here's a simple example demonstrating how to produce a new question:

```
1 \begin{question}{سؤال}
2 \false \ جواب
3 \true ٢ جواب
4 \false ٣ جواب
5 \false ٤ جواب
6 \end{question}
7 \begin{correction}
8 جواب واقعی و علت اینکه این جواب، جواب واقعی هست
9 \end{correction}
```

### 6.2.5 The question Environment

The `question` environment allows you to insert questions into your document. It takes one mandatory argument which specifies the actual question's text. The question will be displayed in a frame box, the size of the line.

```
\true \false
```

The proposed answers are displayed below the question in a list fashion (the question environment is a list-based one). Instead of using `\item` however, use either `\true` or `\false` to insert a possible answer.

### 6.2.6 Question Numbers

The `question` environment is associated with a  $\TeX$  counter named `question`. This counter stores the number of the next (or current) question. It is initialized to 1, and automatically incremented at the end of `question` environments. You might want to use it to format question titles. For instance, you could decide that each question belongs to a subsection in the `article` class, and use something like this before each question: `\subsection*{Question \thethequestion}`



### 6.2.7 The Form and the Mask

`\makeform \makemask`

Based on the questions appearing in your document, xepersian-multiplechoice has the ability to generate a “form” (a grid that your students will have to fill in), and a “mask” (the same grid, only with correct answers properly checked in). This can make the correction process easier.

To generate a form and a mask, use the macros `\makeform` and `\makemask`. xepersian-multiplechoice uses two auxiliary files to build them. These files have respectively an extension of `frm` and `msk`. If you use these macros, you will need two passes of L<sup>A</sup>T<sub>E</sub>X in order to get a correctly formatted document.

### 6.2.8 Typesetting corrections

The “correction” mode allows you to automatically typeset and distribute corrections to your students. These corrections are slightly modified versions of your questionnaire: each possible answer is prefixed with a small symbol (a visual clue) indicating whether the answer was correct or wrong. In addition, you can typeset explanations below each question.

To activate the correction mode, use the `correction` option. It is off by default.

To typeset explanations below the questions, use the `correction` environment (no argument). The contents of this environment is displayed only in correction mode. In normal mode, it is simply discarded.

In addition, note that xepersian-multiplechoice cancels the actions performed by `\makeform` and `\makemask` in `correction` mode. This is to avoid further edition of the source when typesetting a correction.

### 6.2.9 Important Note

Currently, xepersian-multiplechoice requires that you provide a constant number of proposed answers across all questions in your xepersian-multiplechoice. This is something natural when you want to build forms, but this might be too restrictive otherwise, I’m not sure, so it is possible that this restriction will be removed in future versions.

Currently, there is a built-in mechanism for checking that the number of proposed answers remains constant: when xepersian-multiplechoice encounters the first occurrence of the `question` environment, it remembers the number of proposed answers from there. Afterwards, any noticed difference in subsequent occurrences will generate an error. As a consequence, you never have to tell xepersian-multiplechoice explicitly what that number is.

## 6.3 Customising The Package



### 6.3.1 The question environment

```
\questionspace \answerstitlefont \answernumberfont
```

`\questionspace` is the amount of extra vertical space to put under the question, before the list of proposed answers. This is a  $\text{\LaTeX}$  length that defaults to 0pt. Before the list of possible answers, a short title is displayed (for English, it reads “Possible answers:”). The `\answerstitlefont` macro takes one mandatory argument which redefines the font to use for the answers title. By default, `\bfseries` is used. Each proposed answer in the list is numbered automatically (and alphabetically). The `\answernumberfont` macro takes one mandatory argument which redefines the font to use for displaying the answer number. By default, `\bfseries` is used.

### 6.3.2 The Form and the Mask

```
\headerfont \X
```

The `\headerfont` macro takes one mandatory argument which redefines the font to use for the headers (first line and first column) of the form and mask arrays. By default, `\bfseries` is used.

In the mask, correct answers are checked in by filling the corresponding cell with an “X” character. If you want to change this, call the `\X` macro with one (mandatory) argument.

### 6.3.3 The correction

```
\truesymbol \falsesymbol
```

In correction mode, labels in front of answers are modified to give a visual clue about whether the answer was correct or wrong. By default, a cross and a small arrow are used. You can change these symbols by using the `\truesymbol` and `\falsesymbol` macros. For instance, you could give a fancier look to your correction by using the `pifont` package and issuing:

```
\truesymbol{\ding{'063}~}  
\falsesymbol{\ding{'067}~}
```

```
\correctionstyle
```

The appearance of the contents of the correction environment can be adjusted by using the `\correctionstyle` macro. By default, `\itshape` is used.

## 7 xepersian implementation

### 7.1 algorithmic-xepersian.def





```

1 \ProvidesFile{algorithmic-xepersian.def}[2010/07/25 v0.2 adaptations for algorithmic package]
2 \def\algorithmicrequire{\if@RTL\textbf{   }\else\textbf{Require:}\fi}
3 \def\algorithmicensure{\if@RTL\textbf{   }\else\textbf{Ensure:}\fi}

```

## 7.2 algorithm-xepersian.def

```

4 \ProvidesFile{algorithm-xepersian.def}[2010/07/25 v0.2 adaptations for algorithm package]
5 \def\ALG@name{\if@RTL else\      Algorithm\fi}
6 \def\ALGS@name{      }
7 \def\listalgorithmname{\if@RTL      \ALGS@name\else List of \ALG@name s\fi}

```

## 7.3 amsart-xepersian.def

```

8 \ProvidesFile{amsart-xepersian.def}[2013/04/26 v0.3 adaptations for amsart class]
9 \renewcommand \thepart {\@tartibi\c@part}
10 \def\appendix{\par\c@section\z@ \c@subsection\z@
11   \let\sectionname\appendixname
12   \def\thesection{\@harfi\c@section}}
13
14 \long\def\@footnotetext#1{%
15   \insert\footins{%
16     \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
17     \normalfont\footnotesize
18     \interlinepenalty\interfootnotelinepenalty
19     \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
20     \floatingpenalty\@MM \hsize\columnwidth
21     \@parboxrestore \parindent\normalparindent \sloppy
22     \protected@edef\@currentlabel{%
23       \csname p@footnote\endcsname\@thefnmark}%
24     \@makefnmark{%
25       \rule\z@\footnotesep\ignorespaces\if@RTL@footnote#1\else\latinfont#1\fi\unskip\strut\par}}
26
27
28
29
30
31 \long\def\@RTLfootnotetext#1{%
32   \insert\footins{%
33     \@RTLtrue%
34     \normalfont\footnotesize
35     \interlinepenalty\interfootnotelinepenalty
36     \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
37     \floatingpenalty\@MM \hsize\columnwidth
38     \@parboxrestore \parindent\normalparindent \sloppy
39     \protected@edef\@currentlabel{%
40       \csname p@footnote\endcsname\@thefnmark}%
41     \@makefnmark{%
42       \rule\z@\footnotesep\ignorespaces\persianfont #1\unskip\strut\par}}}
43
44
45

```



```

46
47
48
49
50 \long\def\@LTRfootnotetext#1{%
51   \insert\footins{%
52     \@RTLfalse%
53     \normalfont\footnotesize
54     \interlinepenalty\interfootnotelinepenalty
55     \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
56     \floatingpenalty\@MM \hsize\columnwidth
57     \@parboxrestore \parindent\normalparindent \sloppy
58     \protected@edef\@currentlabel{%
59       \csname p@footnote\endcsname\@thefnmark}%
60     \@makefnptext{%
61       \rule\z@\footnotesep\ignorespaces\latinfont #1\unskip\strut\par}}
62
63
64 \footdir@temp\footdir@ORG@xepersian@amsart@footnotetext\@footnotetext{\bidi@footdir@footnote}%
65 \footdir@temp\footdir@ORG@xepersian@amsart@RTLfootnotetext\@RTLfootnotetext{R}%
66 \footdir@temp\footdir@ORG@xepersian@amsart@LTRfootnotetext\@LTRfootnotetext{L}%
67

```

## 7.4 amsbook-xepersian.def

```

68 \ProvidesFile{amsbook-xepersian.def}[2013/04/26 v0.4 adaptations for amsbook class]
69 \def\frontmatter{\cleardoublepage\pagenumbering{harfi}}
70 \renewcommand \thepart {\@tartibi@c@part}
71 \def\appendix{\par
72   \c@chapter\z@ \c@section\z@
73   \let\chaptername\appendixname
74   \def\thechapter{\@harfi\c@chapter}}
75
76 \long\def\@footnotetext#1{%
77   \insert\footins{%
78     \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
79     \normalfont\footnotesize
80     \interlinepenalty\interfootnotelinepenalty
81     \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
82     \floatingpenalty\@MM \hsize\columnwidth
83     \@parboxrestore \parindent\normalparindent \sloppy
84     \protected@edef\@currentlabel{%
85       \csname p@footnote\endcsname\@thefnmark}%
86     \@makefnptext{%
87       \rule\z@\footnotesep\ignorespaces\if@RTL@footnote#1\else\latinfont#1\fi\unskip\strut\par}}
88
89
90
91
92

```



```

93 \long\def\@RTLfootnotetext#1{%
94   \insert\footins{%
95     \RTLtrue%
96     \normalfont\footnotesize
97     \interlinepenalty\interfootnotelinepenalty
98     \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
99     \floatingpenalty\@MM \hsize\columnwidth
100    \@parboxrestore \parindent\normalparindent \sloppy
101    \protected@edef\@currentlabel{%
102      \csname p@footnote\endcsname\@thefnmark}%
103    \@makefntext{%
104      \rule{z@footnotesep\ignorespaces\persianfont #1\unskip\strut\par}}}}
105
106
107
108
109
110
111
112 \long\def\@LTRfootnotetext#1{%
113   \insert\footins{%
114     \RTLfalse%
115     \normalfont\footnotesize
116     \interlinepenalty\interfootnotelinepenalty
117     \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
118     \floatingpenalty\@MM \hsize\columnwidth
119     \@parboxrestore \parindent\normalparindent \sloppy
120     \protected@edef\@currentlabel{%
121       \csname p@footnote\endcsname\@thefnmark}%
122     \@makefntext{%
123       \rule{z@footnotesep\ignorespaces\latinfont #1\unskip\strut\par}}}}
124
125 \footdir@temp\footdir@ORG@xepersian@amsbook@footnotetext\@footnotetext{\bidi@footdir@footnote}
126 \footdir@temp\footdir@ORG@xepersian@amsbook@RTLfootnotetext\@RTLfootnotetext{R}%
127 \footdir@temp\footdir@ORG@xepersian@amsbook@LTRfootnotetext\@LTRfootnotetext{L}%
128

```

## 7.5 article-xepersian.def

```

129 \ProvidesFile{article-xepersian.def}[2010/07/25 v0.2 adaptations for standard article class]
130 \renewcommand \thepart {\@tartibi\c@part}
131 \renewcommand\appendix{\par
132   \setcounter{section}{0}%
133   \setcounter{subsection}{0}%
134   \gdef\thesection{\@harfi\c@section}}

```

## 7.6 artikel1-xepersian.def

```

135 \ProvidesFile{artikel1-xepersian.def}[2010/07/25 v0.1 adaptations for artikel1 class]
136 \renewcommand*\thepart{\@tartibi\c@part}
137 \renewcommand*\appendix{\par

```



```

138 \setcounter{section}{0}%
139 \setcounter{subsection}{0}%
140 \gdef\thesection{\@harfi\c@section}}

```

## 7.7 artikel2-xepersian.def

```

141 \ProvidesFile{artikel2-xepersian.def}[2010/07/25 v0.1 adaptations for artikel2 class]
142 \renewcommand*\thepart{\@tartibi\c@part}
143 \renewcommand*\appendix{\par
144 \setcounter{section}{0}%
145 \setcounter{subsection}{0}%
146 \gdef\thesection{\@harfi\c@section}}

```

## 7.8 artikel3-xepersian.def

```

147 \ProvidesFile{artikel3-xepersian.def}[2010/07/25 v0.1 adaptations for artikel3 class]
148 \renewcommand*\thepart{\@tartibi\c@part}
149 \renewcommand*\appendix{\par
150 \setcounter{section}{0}%
151 \setcounter{subsection}{0}%
152 \gdef\thesection{\@harfi\c@section}}

```

## 7.9 backref-xepersian.def

```

153 \ProvidesFile{backref-xepersian.def}[2010/07/25 v0.1 adaptations for backref package]
154 \def\backrefpagesname{\if@RTL else\ pages\fi}
155 \def\BR@Latincitex[#1]#2{%
156 \BRorg@Latincitex[#1]#2}%
157 \ifBR@verbose
158 \PackageInfo{backref}{back Latin cite \string`#2\string'}%
159 \fi
160 \Hy@backout{#2}%
161 }
162 \AtBeginDocument{%
163 \@ifundefined{NAT@parse}{%
164 \global\let\BRorg@Latincitex\@Latincitex
165 \global\let\@Latincitex\BR@Latincitex
166 }{%
167 \@ifpackageloaded{hyperref}{%
168 \def\hyper@natlinkstart#1{\Hy@backout{#1}}%
169 }%
170 \PackageInfo{backref}{** backref set up for natbib **}%
171 }%
172 }%

```

## 7.10 bidentuftsidenote-xepersian.def

```

173 \ProvidesFile{bidentuftsidenote-xepersian.def}[2014/12/28 v0.2 xepersian changes to bidentuftsidenote]
174 \setLTRcitationfont{\@bidentuftsidenote@marginfont\latinfont}
175 \long\def\@LTRbidentuftsidenote@sidenote[#1][#2]#3{%
176 \let\cite\@bidentuftsidenote@infootnote@cite% use the in-sidenote \cite command
177 \gdef\@bidentuftsidenote@citations{}% clear out any old citations
178 \ifthenelse{\NOT\isempty{#2}}{%

```



```

179 \gsetlength{\@bidityftesidenote@sidenote@vertical@offset}{#2}%
180 }{%
181 \gsetlength{\@bidityftesidenote@sidenote@vertical@offset}{0pt}%
182 }%
183 \ifthenelse{\isempty{#1}}{%
184 % no specific footnote number provided
185 \stepcounter{\@mpfn}%
186 \protected@xdef\@thefnmark{\thempfn}%
187 \@footnotemark\@LTRfootnotetext[\@bidityftesidenote@sidenote@vertical@offset]{\latinfont#3}
188 }{%
189 % specific footnote number provided
190 \begingroup%
191 \csname c@\@mpfn\endcsname #1\relax%
192 \unrestored@protected@xdef\@thefnmark{\thempfn}%
193 \endgroup%
194 \@footnotemark\@LTRfootnotetext[\@bidityftesidenote@sidenote@vertical@offset]{\latinfont#3}
195 }%
196 \@bidityftesidenote@print@citations% print any citations
197 \let\cite\@bidityftesidenote@normal\cite% go back to using normal in-text \cite command
198 \unskip\ignorespaces% remove extra white space
199 \kern-\multiplefootnotemarker% remove \kern left behind by sidenote
200 \kern\multiplefootnotemarker\relax% add new \kern here to replace the one we yanked
201 }
202 \long\def\@RTLbidityftesidenote@sidenote[#1][#2]#3{%
203 \let\cite\@bidityftesidenote@infootnote\cite% use the in-sidenote \cite command
204 \gdef\@bidityftesidenote@citations{}% clear out any old citations
205 \ifthenelse{\NOT\isempty{#2}}{%
206 \gsetlength{\@bidityftesidenote@sidenote@vertical@offset}{#2}%
207 }{%
208 \gsetlength{\@bidityftesidenote@sidenote@vertical@offset}{0pt}%
209 }%
210 \ifthenelse{\isempty{#1}}{%
211 % no specific footnote number provided
212 \stepcounter{\@mpfn}%
213 \protected@xdef\@thefnmark{\thempfn}%
214 \@footnotemark\@RTLfootnotetext[\@bidityftesidenote@sidenote@vertical@offset]{\persianfont#
215 }{%
216 % specific footnote number provided
217 \begingroup%
218 \csname c@\@mpfn\endcsname #1\relax%
219 \unrestored@protected@xdef\@thefnmark{\thempfn}%
220 \endgroup%
221 \@footnotemark\@RTLfootnotetext[\@bidityftesidenote@sidenote@vertical@offset]{\persianfont#
222 }%
223 \@bidityftesidenote@print@citations% print any citations
224 \let\cite\@bidityftesidenote@normal\cite% go back to using normal in-text \cite command
225 \unskip\ignorespaces% remove extra white space
226 \kern-\multiplefootnotemarker% remove \kern left behind by sidenote
227 \kern\multiplefootnotemarker\relax% add new \kern here to replace the one we yanked
228 }

```



```

229 \renewcommand\LTRmarginnote[2][Opt]{%
230 \let\cite\@bidityftesidenote@infootnote@cite% use the in-sidenote \cite command
231 \gdef\@bidityftesidenote@citations{}% clear out any old citations
232 \LTRbidityftesidenotemarginpar{\hbox{}}\vspace*{#1}\@bidityftesidenote@marginnote@font\latinfont
233 \@bidityftesidenote@print@citations% print any citations
234 \let\cite\@bidityftesidenote@normal@cite% go back to using normal in-text \cite command
235 }
236 \renewcommand\RTLmarginnote[2][Opt]{%
237 \let\cite\@bidityftesidenote@infootnote@cite% use the in-sidenote \cite command
238 \gdef\@bidityftesidenote@citations{}% clear out any old citations
239 \RTLbidityftesidenotemarginpar{\hbox{}}\vspace*{#1}\@bidityftesidenote@marginnote@font\persianfont
240 \@bidityftesidenote@print@citations% print any citations
241 \let\cite\@bidityftesidenote@normal@cite% go back to using normal in-text \cite command
242 }

```

### 7.11 bidimoderncv-xepersian.def

```

243 \ProvidesFile{bidimoderncv-xepersian.def}[2010/07/25 v0.1 adaptations for bidimoderncv class]
244 \def\refname{\if@RTL else\ Publications\fi}

```

### 7.12 boek3-xepersian.def

```

245 \ProvidesFile{boek3-xepersian.def}[2010/07/25 v0.1 adaptations for boek3 class]
246 \renewcommand*\thepart{\@tartibi\c@part}
247 \renewcommand*\frontmatter{%
248 \cleardoublepage
249 \@mainmatterfalse
250 \pagenumbering{harfi}}
251 \renewcommand*\appendix{\par
252 \setcounter{chapter}{0}%
253 \setcounter{section}{0}%
254 \gdef\@chapapp{\appendixname}%
255 \gdef\thechapter{\@harfi\c@chapter}}

```

### 7.13 boek-xepersian.def

```

256 \ProvidesFile{boek-xepersian.def}[2010/07/25 v0.1 adaptations for boek class]
257 \renewcommand*\thepart{\@tartibi\c@part}
258 \renewcommand*\frontmatter{%
259 \cleardoublepage
260 \@mainmatterfalse
261 \pagenumbering{harfi}}
262 \renewcommand*\appendix{\par
263 \setcounter{chapter}{0}%
264 \setcounter{section}{0}%
265 \gdef\@chapapp{\appendixname}%
266 \gdef\thechapter{\@harfi\c@chapter}}

```

### 7.14 bookest-xepersian.def

```

267 \ProvidesFile{bookest-xepersian.def}[2010/07/25 v0.1 adaptations for bookest class]
268 \renewcommand \thepart {\@tartibi\c@part}
269 \renewcommand\appendix{\par

```



```

270 \setcounter{chapter}{0}%
271 \setcounter{section}{0}%
272 \gdef\@chapapp{\appendixname}%
273 \gdef\thechapter{\@harfi\c@chapter}
274 }%end appendix

```

## 7.15 book-xepersian.def

```

275 \ProvidesFile{book-xepersian.def}[2010/07/25 v0.2 adaptations for standard book class]
276 \renewcommand\frontmatter{%
277   \cleardoublepage
278   \@mainmatterfalse
279   \pagenumbering{harfi}}
280 \renewcommand \thepart {\@tartibi\c@part}
281 \renewcommand\appendix{\par
282   \setcounter{chapter}{0}%
283   \setcounter{section}{0}%
284   \gdef\@chapapp{\appendixname}%
285   \gdef\thechapter{\@harfi\c@chapter}
286 }%end appendix

```

## 7.16 breqn-xepersian.def

```

287 \ProvidesFile{breqn-xepersian.def}[2010/07/25 v0.1 adaptations for breqn package]
288 \def\@dmath[#1]{\if@RTL\@RTLfalse\addfontfeatures{Mapping=farsidigits}\fi%
289   \everydisplay\expandafter{\the\everydisplay \display@setup}%
290   \if@noskipsec \leavevmode \fi
291   \if@inlabel \leavevmode \global\@inlabelfalse \fi
292   \if\eq@group\else\eq@prelim\fi
293   \setkeys{breqn}{#1}%
294   \the\eqstyle
295   \eq@setnumber
296   \begingroup
297   \eq@setup@a
298   \eq@startup
299 }
300 \def\@dgroup[#1]{\if@RTL\@RTLfalse\addfontfeatures{Mapping=farsidigits}\fi%
301   \let\eq@group\@True \global\let\eq@GRP@first@dmath\@True
302   \global\GRP@queue\@emptytoks \global\setbox\GRP@box\box\voidb@x
303   \global\let\GRP@label\@empty
304   \global\grp@wdL\z@\global\grp@wdR\z@\global\grp@wdT\z@
305   \global\grp@linewidth\z@\global\grp@wdNum\z@
306   \global\let\grp@eqs@numbered\@False
307   \global\let\grp@aligned\@True
308   \global\let\grp@shiftnumber\@False
309   \eq@prelim
310   \setkeys{breqn}{#1}%
311   \if\grp@hasNumber \grp@setnumber \fi
312 }
313 \def\@dseries[#1]{\if@RTL\@RTLfalse\addfontfeatures{Mapping=farsidigits}\fi%
314   \let\display@setup\dseries@display@setup

```



```

315 % Question: should this be the default for dseries???
316 \global\eq@wdCond\z@
317 \@dmath[layout={M},#1]%
318 \mathsurround\z@\@math \penalty\@Mi
319 \let\endmath\ends@math
320 \def\premath{%
321     \ifdim\lastskip<.3em \unskip
322     \else\ifnum\lastpenalty<\@M \dquad\fi\fi
323 }%
324 \def\postmath{\unpenalty\eq@addpunct \penalty\intermath@penalty \dquad \@ignoretrue}%
325 \ignorespaces
326 }

```

## 7.17 latex-localise-commands-xepersian.def

```

327 \ProvidesFile{latex-localise-commands-xepersian.def}[2014/02/05 v0.3 Persian localisation of LaTeX]
328 \eqcommand{ }{@arstrut}
329 \eqcommand{ }{above}
330 \eqcommand{ }{abovedisplayshortskip}
331 \eqcommand{ }{abovedisplayskip}
332 \eqcommand{ }{abstractname}
333 \eqcommand{ }{accent}
334 \eqcommand{ }{active}
335 \eqcommand{ }{addcontentsline}
336 \eqcommand{ }{addpenalty}
337 \eqcommand{ }{address}
338 \eqcommand{ }{addtocontents}
339 \eqcommand{ }{addtocounter}
340 \eqcommand{ }{addtolength}
341 \eqcommand{ }{addvspace}
342 \eqcommand{ }{adjdemerits}
343 \eqcommand{ }{advance}
344 \eqcommand{ }{afterassignment}
345 \eqcommand{ }{aftergroup}
346 \eqcommand{ }{aleph}
347 \eqcommand{ }{aliasfontfeature}
348 \eqcommand{ }{aliasfontfeatureoption}
349 \eqcommand{ }{allowbreak}
350 \eqcommand{ @}{alloc@}
351 \eqcommand{ }{allocationnumber}
352 \eqcommand{ }{allowdisplaybreaks}
353 \eqcommand{ }{Alph}
354 \eqcommand{ }{alph}
355 \eqcommand{ }{alsoname}
356 \eqcommand{ }{and}
357 \eqcommand{ }{angle}
358 \eqcommand{ }{appendixname}
359 \eqcommand{ }{approx}
360 \eqcommand{ }{arabic}
361 \eqcommand{ }{arg}

```





```

362 \eqcommand{      }\{arrayrulecolor\}
363 \eqcommand{      }\{arraycolsep\}
364 \eqcommand{      }\{arrayrulewidth\}
365 \eqcommand{      }\{arraystretch\}
366 \eqcommand{      }\{AtBeginDocument\}
367 \eqcommand{      }\{AtEndDocument\}
368 \eqcommand{      }\{AtEndOfClass\}
369 \eqcommand{      }\{AtEndOfPackage\}
370 \eqcommand{      }\{author\}
371 \eqcommand{      }\{backmatter\}
372 \eqcommand{      }\{backslash\}
373 \eqcommand{      }\{badness\}
374 \eqcommand{      }\{bar\}
375 \eqcommand{      }\{baselineskip\}
376 \eqcommand{      }\{baselinestretch\}
377 \eqcommand{      }\{batchmode\}
378 \eqcommand{      }\{begin\}
379 \eqcommand{      }\{beginL\}
380 \eqcommand{      }\{beginR\}
381 \eqcommand{      }\{begingroup\}
382 \eqcommand{      }\{belowdisplayshortskip\}
383 \eqcommand{      }\{belowdisplayskip\}
384 \eqcommand{      }\{bf\}
385 \eqcommand{      }\{bfdefault\}
386 \eqcommand{      }\{bfseries\}
387 \eqcommand{      }\{bgroup\}
388 \eqcommand{      }\{bibitem\}
389 \eqcommand{      }\{bibliography\}
390 \eqcommand{      }\{bibliographystyle\}
391 \eqcommand{      }\{bibname\}
392 \eqcommand{      }\{bigskip\}
393 \eqcommand{      }\{bigskipamount\}
394 \eqcommand{      }\{botfigrule\}
395 \eqcommand{      }\{botmark\}
396 \eqcommand{      }\{bottompageskip\}
397 \eqcommand{      }\{bottomfraction\}
398 \eqcommand{      }\{box\}
399 \eqcommand{      }\{boxmaxdepth\}
400 \eqcommand{      }\{break\}
401 \eqcommand{      }\{bullet\}
402 \eqcommand{ @    }\{@cclv\}
403 \eqcommand{ @    }\{@cclvi\}
404 \eqcommand{      }\{caption\}
405 \eqcommand{      }\{catcode\}
406 \eqcommand{      }\{cc\}
407 \eqcommand{      }\{ccname\}
408 \eqcommand{      }\{cdot\}
409 \eqcommand{      }\{cdots\}
410 \eqcommand{      }\{centering\}
411 \eqcommand{      }\{centerline\}

```



```

412 \eqcommand{ @ }{ch@ck}
413 \eqcommand{ }{chapter}
414 \eqcommand{ }{chaptername}
415 \eqcommand{ }{char}
416 \eqcommand{ }{chardef}
417 \eqcommand{ }{CheckCommand}
418 \eqcommand{ }{cite}
419 \eqcommand{ }{ClassError}
420 \eqcommand{ }{ClassInfo}
421 \eqcommand{ }{ClassWarning}
422 \eqcommand{ }{ClassWarningNoLine}
423 \eqcommand{ }{cleaders}
424 \eqcommand{ }{cleardoublepage}
425 \eqcommand{ }{clearpage}
426 \eqcommand{ }{cline}
427 \eqcommand{ }{closein}
428 \eqcommand{ }{closeout}
429 \eqcommand{ }{closing}
430 \eqcommand{ }{clubpenalty}
431 \eqcommand{ }{clubsuit}
432 \eqcommand{ }{colbotmark}
433 \eqcommand{ }{colfirstmark}
434 \eqcommand{ }{color}
435 \eqcommand{ }{colorbox}
436 \eqcommand{ }{coltopmark}
437 \eqcommand{ }{columncolor}
438 \eqcommand{ }{columnsep}
439 \eqcommand{ }{columnwidth}
440 \eqcommand{ }{columnseprule}
441 \eqcommand{ }{contentsline}
442 \eqcommand{ }{contentsname}
443 \eqcommand{ }{copy}
444 \eqcommand{ }{copyright}
445 \eqcommand{ }{count}
446 \eqcommand{ @ }{count@}
447 \eqcommand{ }{countdef}
448 \eqcommand{ }{cr}
449 \eqcommand{ }{crr}
450 \eqcommand{ }{csname}
451 \eqcommand{ }{CurrentOption}
452 \eqcommand{ }{dashbox}
453 \eqcommand{ }{dashv}
454 \eqcommand{ @ }{@date}
455 \eqcommand{ }{date}
456 \eqcommand{ }{day}
457 \eqcommand{ }{dblbotfigrule}
458 \eqcommand{ }{dblbottomfraction}
459 \eqcommand{ }{dblfigrule}
460 \eqcommand{ }{dblfloatpagefraction}
461 \eqcommand{ }{dblfloatsep}

```



```

462 \eqcommand{      }\{dblfontlocatecode}
463 \eqcommand{      }\{dbltextfloatsep}
464 \eqcommand{      }\{dbltopfraction}
465 \eqcommand{      }\{DeclareFixedFont}
466 \eqcommand{      }\{DeclareGraphicsExtensions}
467 \eqcommand{      }\{DeclareGraphicsRule}
468 \eqcommand{      }\{DeclareOldFontCommand}
469 \eqcommand{      }\{DeclareOption}
470 \eqcommand{      }\{DeclareRobustCommand}
471 \eqcommand{      }\{DeclareSymbolFont}
472 \eqcommand{      }\{deadcycles}
473 \eqcommand{ }\{def}
474 \eqcommand{ @ }\{define@key}
475 \eqcommand{   }\{definecolor}
476 \eqcommand{ }\{deg}
477 \eqcommand{ }\{delcode}
478 \eqcommand{ }\{delimiter}
479 \eqcommand{   }\{delimiterfactor}
480 \eqcommand{ }\{depth}
481 \eqcommand{ }\{diamondsuit}
482 \eqcommand{ }\{dim}
483 \eqcommand{ }\{dimen}
484 \eqcommand{ @ }\{dimen@}
485 \eqcommand{ @ }\{dimen@i}
486 \eqcommand{ @ }\{dimen@ii}
487 \eqcommand{   }\{dimendef}
488 \eqcommand{   }\{discretionary}
489 \eqcommand{   }\{displaybreak}
490 \eqcommand{   }\{displayindent}
491 \eqcommand{   }\{displaystyle}
492 \eqcommand{   }\{displaywidth}
493 \eqcommand{ }\{divide}
494 \eqcommand{   }\{documentclass}
495 \eqcommand{ }\{do}
496 \eqcommand{   }\{dospecials}
497 \eqcommand{ }\{dot}
498 \eqcommand{   }\{doteq}
499 \eqcommand{   }\{dotfill}
500 \eqcommand{ }\{dots}
501 \eqcommand{   }\{doublebox}
502 \eqcommand{   }\{doublerulesepcolor}
503 \eqcommand{   }\{doublerulesep}
504 \eqcommand{   }\{downarrow}
505 \eqcommand{ }\{dp}
506 \eqcommand{ }\{dump}
507 \eqcommand{ }\{edef}
508 \eqcommand{ }\{egroup}
509 \eqcommand{   }\{eject}
510 \eqcommand{ }\{else}
511 \eqcommand{ }\{em}

```



```

512 \eqcommand{    }{emergencystretch}
513 \eqcommand{    }{emph}
514 \eqcommand{@    }{@empty}
515 \eqcommand{    }{empty}
516 \eqcommand{    }{emptyset}
517 \eqcommand{    }{end}
518 \eqcommand{    }{endL}
519 \eqcommand{    }{endR}
520 \eqcommand{    }{endcsname}
521 \eqcommand{    }{endfirsthead}
522 \eqcommand{    }{endfoot}
523 \eqcommand{    }{endgraf}
524 \eqcommand{    }{endgroup}
525 \eqcommand{    }{endhead}
526 \eqcommand{    }{endinput}
527 \eqcommand{    }{endlastfoot}
528 \eqcommand{    }{enlargethispage}
529 \eqcommand{    }{endline}
530 \eqcommand{    }{endlinechar}
531 \eqcommand{    }{enspace}
532 \eqcommand{    }{enskip}
533 \eqcommand{    }{eqcommand}
534 \eqcommand{    }{eqenvironment}
535 \eqcommand{    }{eqref}
536 \eqcommand{    }{errhelp}
537 \eqcommand{    }{errmessage}
538 \eqcommand{    }{errorcontextlines}
539 \eqcommand{    }{errorstopmode}
540 \eqcommand{    }{escapechar}
541 \eqcommand{    }{euro}
542 \eqcommand{    }{evensidemargin}
543 \eqcommand{    }{everycr}
544 \eqcommand{    }{everydisplay}
545 \eqcommand{    }{everyhbox}
546 \eqcommand{    }{everyjob}
547 \eqcommand{    }{everymath}
548 \eqcommand{    }{everypar}
549 \eqcommand{    }{everyvbox}
550 \eqcommand{    }{ExecuteOptions}
551 \eqcommand{    }{exhyphenpenalty}
552 \eqcommand{    }{expandafter}
553 \eqcommand{    }{extracolsep}
554 \eqcommand{@    }{@firstofone}
555 \eqcommand{@    }{@firstoftwo}
556 \eqcommand{ @ }{f@ur}
557 \eqcommand{    }{fam}
558 \eqcommand{    }{fancy page}
559 \eqcommand{    }{fbox}
560 \eqcommand{    }{fboxrule}
561 \eqcommand{    }{fboxsep}

```



```

562 \eqcommand{    }{fcolorbox}
563 \eqcommand{ }{fi}
564 \eqcommand{    }{figurename}
565 \eqcommand{    }{filbreak}
566 \eqcommand{ }{fill}
567 \eqcommand{    }{firstmark}
568 \eqcommand{ }{flat}
569 \eqcommand{    }{floatpagefraction}
570 \eqcommand{    }{floatingpenalty}
571 \eqcommand{    }{floatsep}
572 \eqcommand{    }{flushbottom}
573 \eqcommand{    }{fmtname}
574 \eqcommand{    }{fmtversion}
575 \eqcommand{    }{fnsymbol}
576 \eqcommand{ }{font}
577 \eqcommand{    }{fontdimen}
578 \eqcommand{    }{fontencoding}
579 \eqcommand{    }{fontfamily}
580 \eqcommand{    }{fontname}
581 \eqcommand{    }{fontseries}
582 \eqcommand{    }{fontshape}
583 \eqcommand{    }{fontsize}
584 \eqcommand{    }{footheight}
585 \eqcommand{    }{footins}
586 \eqcommand{ }{footnote}
587 \eqcommand{    }{footnotemark}
588 \eqcommand{    }{footnoterule}
589 \eqcommand{    }{footnotesep}
590 \eqcommand{    }{footnotesize}
591 \eqcommand{    }{footnotetext}
592 \eqcommand{    }{footskip}
593 \eqcommand{ }{frame}
594 \eqcommand{    }{framebox}
595 \eqcommand{    }{frenchspacing}
596 \eqcommand{    }{frontmatter}
597 \eqcommand{    }{futurelet}
598 \eqcommand{@    }{@gobble}
599 \eqcommand{@    }{@gobbletwo}
600 \eqcommand{@    }{@gobblefour}
601 \eqcommand{@    }{@gtempa}
602 \eqcommand{@    }{@gtempb}
603 \eqcommand{ }{gdef}
604 \eqcommand{    }{GenericInfo}
605 \eqcommand{    }{GenericWarning}
606 \eqcommand{    }{GenericError}
607 \eqcommand{ }{global}
608 \eqcommand{    }{globaldefs}
609 \eqcommand{    }{glossary}
610 \eqcommand{    }{glossaryentry}
611 \eqcommand{    }{goodbreak}

```



```

612 \eqcommand{    }\{graphpaper\}
613 \eqcommand{    }\{guillemotleft\}
614 \eqcommand{    }\{guillemotright\}
615 \eqcommand{    }\{guilsinglleft\}
616 \eqcommand{    }\{guilsinglright\}
617 \eqcommand{    }\{halign\}
618 \eqcommand{    }\{hang\}
619 \eqcommand{    }\{hangafter\}
620 \eqcommand{    }\{hangindent\}
621 \eqcommand{    }\{hbadness\}
622 \eqcommand{    }\{hbox\}
623 \eqcommand{    }\{headheight\}
624 \eqcommand{    }\{headsep\}
625 \eqcommand{    }\{headtoname\}
626 \eqcommand{    }\{heartsuit\}
627 \eqcommand{    }\{height\}
628 \eqcommand{    }\{hfil\}
629 \eqcommand{    }\{hfill\}
630 \eqcommand{    }\{hfilneg\}
631 \eqcommand{    }\{hfuzz\}
632 \eqcommand{    }\{hideskip\}
633 \eqcommand{    }\{hidewidth\}
634 \bidi@csletcs{ }\{hline\}% this is an exception
635 \eqcommand{    }\{hoffset\}
636 \eqcommand{    }\{holdinginserts\}
637 \eqcommand{    }\{hrboxsep\}
638 \eqcommand{    }\{hrule\}
639 \eqcommand{    }\{hrulefill\}
640 \eqcommand{    }\{hsize\}
641 \eqcommand{    }\{hskip\}
642 \eqcommand{    }\{hspace\}
643 \eqcommand{    }\{hss\}
644 \eqcommand{    }\{ht\}
645 \eqcommand{    }\{huge\}
646 \eqcommand{    }\{Huge\}
647 \eqcommand{    }\{hyperlink\}
648 \eqcommand{    }\{hypersetup\}
649 \eqcommand{    }\{hypertarget\}
650 \eqcommand{    }\{hyphenation\}
651 \eqcommand{    }\{hyphenchar\}
652 \eqcommand{    }\{hyphenpenalty\}
653 \eqcommand{@    }\{@ifclassloaded\}
654 \eqcommand{@    }\{@ifdefinable\}
655 \eqcommand{@    }\{@ifnextchar\}
656 \eqcommand{@    }\{@ifpackageloaded\}
657 \eqcommand{@    }\{@ifstar\}
658 \eqcommand{@    }\{@ifundefined\}
659 \eqcommand{    }\{if\}
660 \eqcommand{    @ }\{if@tempswa\}
661 \eqcommand{    }\{ifcase\}

```



```

662 \eqcommand{ }{ifcat}
663 \eqcommand{ }{ifdefined}
664 \eqcommand{ }{ifdim}
665 \eqcommand{ }{ifeof}
666 \eqcommand{ }{iff}
667 \eqcommand{ }{iffalse}
668 \eqcommand{ }{IfFileExists}
669 \eqcommand{ }{ifhbox}
670 \eqcommand{ }{ifhmode}
671 \eqcommand{ }{ifinner}
672 \eqcommand{ }{ifmmode}
673 \eqcommand{ }{ifnum}
674 \eqcommand{ }{ifodd}
675 \eqcommand{ }{ifthenelse}
676 \eqcommand{ }{iftrue}
677 \eqcommand{ }{ifvbox}
678 \eqcommand{ }{ifvmode}
679 \eqcommand{ }{ifvoid}
680 \eqcommand{ }{ifx}
681 \eqcommand{ }{ignorespaces}
682 \eqcommand{ }{immediate}
683 \eqcommand{ }{include}
684 \eqcommand{ }{includegraphics}
685 \eqcommand{ }{includeonly}
686 \eqcommand{ }{indent}
687 \eqcommand{ }{index}
688 \eqcommand{ }{indexentry}
689 \eqcommand{ }{indexname}
690 \eqcommand{ }{indexspace}
691 \eqcommand{ }{input}
692 \eqcommand{ }{InputIfFileExists}
693 \eqcommand{ }{inputlineno}
694 \eqcommand{ }{insert}
695 \eqcommand{ }{insertpenalties}
696 \eqcommand{ }{interfootnotelinepenalty}
697 \eqcommand{ }{interdisplaylinepenalty}
698 \eqcommand{ }{interlinepenalty}
699 \eqcommand{ }{intertext}
700 \eqcommand{ }{intertextsep}
701 \eqcommand{ }{invisible}
702 \eqcommand{ }{itdefault}
703 \eqcommand{ }{itshape}
704 \eqcommand{ }{item}
705 \eqcommand{ }{itemindent}
706 \eqcommand{ }{itemsep}
707 \eqcommand{ }{iterate}
708 \eqcommand{ }{itshape}
709 \eqcommand{ }{jobname}
710 \eqcommand{ }{jot}
711 \eqcommand{ }{kern}

```



```

712 \eqcommand{ }{kill}
713 \eqcommand{ }{label}
714 \eqcommand{ }{labelenumi}
715 \eqcommand{ }{labelenumii}
716 \eqcommand{ }{labelenumiii}
717 \eqcommand{ }{labelenumiv}
718 \eqcommand{ }{labelitemi}
719 \eqcommand{ }{labelitemii}
720 \eqcommand{ }{labelitemiii}
721 \eqcommand{ }{labelitemiv}
722 \eqcommand{ }{labelsep}
723 \eqcommand{ }{labelwidth}
724 \eqcommand{ }{language}
725 \eqcommand{ }{large}
726 \eqcommand{ }{Large}
727 \eqcommand{ }{LARGE}
728 \eqcommand{ }{lastbox}
729 \eqcommand{ }{lastkern}
730 \eqcommand{ }{lastpenalty}
731 \eqcommand{ }{lastskip}
732 \eqcommand{ }{LaTeX}
733 \eqcommand{ }{LaTeXe}
734 \eqcommand{ }{lccode}
735 \eqcommand{ }{ldots}
736 \eqcommand{ }{leaders}
737 \eqcommand{ }{leavevmode}
738 \eqcommand{ }{left}
739 \eqcommand{ }{leftmargin}
740 \eqcommand{ }{leftmargini}
741 \eqcommand{ }{leftmarginii}
742 \eqcommand{ }{leftmarginiii}
743 \eqcommand{ }{leftmarginiv}
744 \eqcommand{ }{leftmarginv}
745 \eqcommand{ }{leftmarginvi}
746 \eqcommand{ }{leftmark}
747 \eqcommand{ }{leftpageskip}
748 \eqcommand{ }{leftskip}
749 \eqcommand{ }{let}
750 \eqcommand{ }{line}
751 \eqcommand{ }{linebreak}
752 \eqcommand{ }{linepenalty}
753 \eqcommand{ }{lineskip}
754 \eqcommand{ }{lineskiplimit}
755 \eqcommand{ }{linespread}
756 \eqcommand{ }{linethickness}
757 \eqcommand{ }{linewidth}
758 \eqcommand{ }{listfigurename}
759 \eqcommand{ }{listfiles}
760 \eqcommand{ }{listoffigures}
761 \eqcommand{ }{listoftables}

```





```

762 \eqcommand{      }{listparindent}
763 \eqcommand{      }{listtablename}
764 \eqcommand{      }{LoadClass}
765 \eqcommand{      }{LoadClassWithOptions}
766 \eqcommand{ }{location}
767 \eqcommand{ }{long}
768 \eqcommand{ }{looseness}
769 \eqcommand{ }{lower}
770 \eqcommand{@ }{@makeother}
771 \eqcommand{@ }{@m}
772 \eqcommand{ @ }{@M}
773 \eqcommand{ @ }{@Mi}
774 \eqcommand{ @ }{@Mii}
775 \eqcommand{ @ }{@Miii}
776 \eqcommand{ @ }{@Miv}
777 \eqcommand{ @ }{@MM}
778 \eqcommand{ @ }{@m@ne}
779 \eqcommand{ }{mag}
780 \eqcommand{ }{magstep}
781 \eqcommand{ }{magstephalf}
782 \eqcommand{ }{mainmatter}
783 \eqcommand{ }{makeatletter}
784 \eqcommand{ }{makeatother}
785 \eqcommand{ }{makebox}
786 \eqcommand{ }{makeglossary}
787 \eqcommand{ }{makeindex}
788 \eqcommand{ }{makelabel}
789 \eqcommand{ }{makelabels}
790 \eqcommand{ }{MakeLowercase}
791 \eqcommand{ }{maketitle}
792 \eqcommand{ }{MakeUppercase}
793 \eqcommand{ }{marginpar}
794 \eqcommand{ }{marginparpush}
795 \eqcommand{ }{marginparsep}
796 \eqcommand{ }{marginparwidth}
797 \eqcommand{ }{mark}
798 \eqcommand{ }{markboth}
799 \eqcommand{ }{markright}
800 \eqcommand{ }{mathaccent}
801 \eqcommand{ }{mathchar}
802 \eqcommand{ }{mathchardef}
803 \eqcommand{ }{mathcode}
804 \eqcommand{ }{mathrm}
805 \eqcommand{ }{maxdeadcycles}
806 \eqcommand{ }{maxdepth}
807 \eqcommand{ }{maxdimen}
808 \eqcommand{ }{mbox}
809 \eqcommand{ }{mdseries}
810 \eqcommand{ }{meaning}
811 \eqcommand{ }{mediumseries}

```



```

812 \eqcommand{      }{medmuskip}
813 \eqcommand{      }{medskip}
814 \eqcommand{      }{medskipamount}
815 \eqcommand{      }{medspace}
816 \eqcommand{ }{message}
817 \eqcommand{      }{MessageBreak}
818 \eqcommand{      }{minrowclearance}
819 \eqcommand{      }{mkern}
820 \eqcommand{ }{month}
821 \eqcommand{      }{moveleft}
822 \eqcommand{      }{moveright}
823 \eqcommand{      }{mskip}
824 \eqcommand{ @ }{m@th}
825 \eqcommand{      }{multicolumn}
826 \eqcommand{ }{multiply}
827 \eqcommand{      }{multispan}
828 \eqcommand{      }{muskip}
829 \eqcommand{      }{muskipdef}
830 \eqcommand{@ }{@namedef}
831 \eqcommand{@ }{@nameuse}
832 \eqcommand{ @ }{@ne}
833 \eqcommand{ }{name}
834 \eqcommand{      }{natural}
835 \eqcommand{      }{nearrow}
836 \eqcommand{      }{nearrower}
837 \eqcommand{      }{NeedsTeXFormat}
838 \eqcommand{ }{neg}
839 \eqcommand{      }{negmedspace}
840 \eqcommand{      }{negthickspace}
841 \eqcommand{      }{negthinspace}
842 \eqcommand{      }{newboolean}
843 \eqcommand{      }{newbox}
844 \eqcommand{      }{newcommand}
845 \eqcommand{      }{newcount}
846 \eqcommand{      }{newcounter}
847 \eqcommand{      }{newdimen}
848 \eqcommand{      }{newenvironment}
849 \eqcommand{      }{newfam}
850 \eqcommand{ }{newfont}
851 \eqcommand{      }{newhelp}
852 \eqcommand{      }{newinsert}
853 \eqcommand{      }{newlabel}
854 \eqcommand{      }{newlength}
855 \eqcommand{      }{newline}
856 \eqcommand{      }{newlinechar}
857 \eqcommand{      }{newmuskip}
858 \eqcommand{      }{newpage}
859 \eqcommand{      }{newread}
860 \eqcommand{      }{newsavebox}
861 \eqcommand{      }{newskip}

```



```

862 \eqcommand{      }\{newtheorem\}
863 \eqcommand{      }\{newtoks\}
864 \eqcommand{      }\{newwrite\}
865 \eqcommand{      }\{noalign\}
866 \eqcommand{      }\{nobreak\}
867 \eqcommand{      }\{nobreakspace\}
868 \eqcommand{      }\{nocite\}
869 \eqcommand{      }\{noexpand\}
870 \eqcommand{      }\{nofiles\}
871 \eqcommand{      }\{noindent\}
872 \eqcommand{      }\{nointerlineskip\}
873 \eqcommand{      }\{nolimits\}
874 \eqcommand{      }\{nolinebreak\}
875 \eqcommand{      }\{nonstopmode\}
876 \eqcommand{      }\{nonfrenchspacing\}
877 \eqcommand{      }\{nonumber\}
878 \eqcommand{      }\{nopagebreak\}
879 \eqcommand{      }\{normalbaselines\}
880 \eqcommand{      }\{normalbaselineskip\}
881 \eqcommand{      }\{normalcolor\}
882 \eqcommand{      }\{normalfont\}
883 \eqcommand{      }\{normallineskip\}
884 \eqcommand{      }\{normallineskiplimit\}
885 \eqcommand{      }\{normalmarginpar\}
886 \eqcommand{      }\{normalsize\}
887 \eqcommand{      }\{notag\}
888 \eqcommand{      }\{null\}
889 \eqcommand{      }\{nullfont\}
890 \eqcommand{      }\{number\}
891 \eqcommand{      }\{numberline\}
892 \eqcommand{      }\{numberwithin\}
893 \eqcommand{      }\{@evenfoot\}
894 \eqcommand{      }\{@evenhead\}
895 \eqcommand{      }\{@oddfoot\}
896 \eqcommand{      }\{@oddhead\}
897 \eqcommand{      }\{@outeqntrue\}
898 \eqcommand{      }\{@outeqnfalse\}
899 \eqcommand{      }\{obeylines\}
900 \eqcommand{      }\{obeyspaces\}
901 \eqcommand{      }\{oddsidemargin\}
902 \eqcommand{      }\{offinterlineskip\}
903 \eqcommand{      }\{omit\}
904 \eqcommand{@      }\{@onlypreamble\}
905 \eqcommand{      }\{onecolumn\}
906 \eqcommand{      }\{onlynotes\}
907 \eqcommand{      }\{onlyslides\}
908 \eqcommand{      }\{openin\}
909 \eqcommand{      }\{openout\}
910 \eqcommand{      }\{OptionNotUsed\}
911 \eqcommand{      }\{or\}

```



```

912 \eqcommand{ }{outer}
913 \eqcommand{ }{output}
914 \eqcommand{ }{outputpenalty}
915 \eqcommand{ }{overfullrule}
916 \eqcommand{@ }{@preamblecmds}
917 \eqcommand{@ }{p@}
918 \eqcommand{ }{PackageError}
919 \eqcommand{ }{PackageInfo}
920 \eqcommand{ }{PackageWarning}
921 \eqcommand{ }{PackageWarningNoLine}
922 \eqcommand{ }{pagebreak}
923 \eqcommand{ }{pagecolor}
924 \eqcommand{ }{pagedepth}
925 \eqcommand{ }{pagefilllstretch}
926 \eqcommand{ }{pagefillstretch}
927 \eqcommand{ }{pagefilstretch}
928 \eqcommand{ }{pagegoal}
929 \eqcommand{ }{pagename}
930 \eqcommand{ }{pagenumbering}
931 \eqcommand{ }{pageref}
932 \eqcommand{ }{pagerulewidth}
933 \eqcommand{ }{pageshrink}
934 \eqcommand{ }{pagestretch}
935 \eqcommand{ }{pagestyle}
936 \eqcommand{ }{pagetotal}
937 \eqcommand{ }{paperheight}
938 \eqcommand{ }{paperwidth}
939 \bidi@csdefcs{ }{par}% this is an exception since \par is redefined only in some circumstances
940 \eqcommand{ }{paragraph}
941 \eqcommand{ }{parallel}
942 \eqcommand{ }{parbox}
943 \eqcommand{ }{parfillskip}
944 \eqcommand{ }{parindent}
945 \eqcommand{ }{parsep}
946 \eqcommand{ }{parshape}
947 \eqcommand{ }{parskip}
948 \eqcommand{ }{part}
949 \eqcommand{ }{partname}
950 \eqcommand{ }{partopsep}
951 \eqcommand{ }{PassOptionToClass}
952 \eqcommand{ }{PassOptionToPackage}
953 \eqcommand{ }{path}
954 \eqcommand{ }{patterns}
955 \eqcommand{ }{pausing}
956 \eqcommand{ }{penalty}
957 \eqcommand{ }{phantom}
958 \eqcommand{ }{poptabs}
959 \eqcommand{ }{postdisplaypenalty}
960 \eqcommand{ }{predisplaydirection}
961 \eqcommand{ }{predisplaypenalty}

```



```

962 \eqcommand{      }{predisplaysize}
963 \eqcommand{      }{pretolerance}
964 \eqcommand{      }{prevdepth}
965 \eqcommand{      }{prevgraf}
966 \eqcommand{      }{printindex}
967 \eqcommand{      }{ProcessOptions}
968 \eqcommand{ }{protect}
969 \eqcommand{      }{providecommand}
970 \eqcommand{      }{ProvidesClass}
971 \eqcommand{      }{ProvidesFile}
972 \eqcommand{      }{ProvidesPackage}
973 \eqcommand{      }{pushtabs}
974 \eqcommand{ }{quad}
975 \eqcommand{      }{qquad}
976 \eqcommand{@      }{@outputpagerestore}
977 \eqcommand{      }{radical}
978 \eqcommand{      }{raggedbottom}
979 \eqcommand{      }{raggedleft}
980 \eqcommand{      }{raggedright}
981 \eqcommand{      }{raise}
982 \eqcommand{      }{raisebox}
983 \eqcommand{      }{raisetag}
984 \eqcommand{      }{rangle}
985 \eqcommand{ }{rceil}
986 \eqcommand{      }{read}
987 \eqcommand{      }{ref}
988 \eqcommand{      }{reflectbox}
989 \eqcommand{      }{refname}
990 \eqcommand{      }{refstepcounter}
991 \eqcommand{ }{relax}
992 \eqcommand{      }{removelastskip}
993 \eqcommand{      }{renewcommand}
994 \eqcommand{      }{renewenvironment}
995 \eqcommand{      }{RequirePackage}
996 \eqcommand{      }{RequirePackageWithOptions}
997 \eqcommand{      }{resizebox}
998 \eqcommand{      }{reversemarginpar}
999 \eqcommand{ }{rfloor}
1000 \eqcommand{ }{right}
1001 \eqcommand{      }{rightmargin}
1002 \eqcommand{      }{rightmark}
1003 \eqcommand{      }{rightpageskip}
1004 \eqcommand{      }{rightskip}
1005 \eqcommand{      }{rmdefault}
1006 \eqcommand{      }{rmfamily}
1007 \eqcommand{      }{Roman}
1008 \eqcommand{      }{roman}
1009 \eqcommand{      }{romannumeral}
1010 \eqcommand{      }{rotatebox}
1011 \eqcommand{      }{rowcolor}

```



```

1012 \eqcommand{ }{rule}
1013 \eqcommand{@ }{@secondoftwo}
1014 \eqcommand{@ }{@spaces}
1015 \eqcommand{ }{samepage}
1016 \eqcommand{ }{savebox}
1017 \eqcommand{ }{sbox}
1018 \eqcommand{ }{scalebox}
1019 \eqcommand{ }{scdefault}
1020 \eqcommand{ }{scshape}
1021 \eqcommand{ }{setkeys}
1022 \eqcommand{ }{scriptfont}
1023 \eqcommand{ }{scriptscriptfont}
1024 \eqcommand{ }{scriptscriptstyle}
1025 \eqcommand{ }{scriptsize}
1026 \eqcommand{ }{scripstyle}
1027 \eqcommand{ }{scrollmode}
1028 \eqcommand{ }{section}
1029 \eqcommand{ }{secdef}
1030 \eqcommand{ }{see}
1031 \eqcommand{ }{seealso}
1032 \eqcommand{ }{seename}
1033 \eqcommand{ }{selectfont}
1034 \eqcommand{ }{setboolean}
1035 \eqcommand{ }{setbox}
1036 \eqcommand{ }{setcounter}
1037 \eqcommand{ }{setlength}
1038 \eqcommand{ }{setminus}
1039 \eqcommand{ }{SetSymbolFont}
1040 \eqcommand{ }{settodepth}
1041 \eqcommand{ }{settoheight}
1042 \eqcommand{ }{settowidth}
1043 \eqcommand{ }{sfcode}
1044 \eqcommand{ }{sfdefault}
1045 \eqcommand{ }{sffamily}
1046 \eqcommand{ }{shadowbox}
1047 \eqcommand{ }{sharp}
1048 \eqcommand{ }{shipout}
1049 \eqcommand{ }{shortstack}
1050 \eqcommand{ }{show}
1051 \eqcommand{ }{showbox}
1052 \eqcommand{ }{showboxbreadth}
1053 \eqcommand{ }{showboxdepth}
1054 \eqcommand{ }{showlists}
1055 \eqcommand{ }{showthe}
1056 \eqcommand{ }{simplefontmode}
1057 \eqcommand{ @}{sxt@@n}
1058 \eqcommand{ }{skewchar}
1059 \eqcommand{ }{skip}
1060 \eqcommand{ @}{skip@}
1061 \eqcommand{ }{skipdef}

```



```

1062 \eqcommand{    }\{sl}
1063 \eqcommand{    }\{sldefault}
1064 \eqcommand{    }\{slshape}
1065 \eqcommand{    }\{sloppy}
1066 \eqcommand{    }\{slshape}
1067 \eqcommand{    }\{small}
1068 \eqcommand{    }\{smallskip}
1069 \eqcommand{    }\{smallskipamount}
1070 \eqcommand{    }\{smash}
1071 \eqcommand{    }\{smile}
1072 \eqcommand{    }\{snglftlocatcode}
1073 \eqcommand{    }\{space}
1074 \eqcommand{    }\{spacefactor}
1075 \eqcommand{    }\{spaceskip}
1076 \eqcommand{    }\{spadesuit}
1077 \eqcommand{    }\{span}
1078 \eqcommand{    }\{special}
1079 \eqcommand{    }\{splitmaxdepth}
1080 \eqcommand{    }\{splittopskip}
1081 \eqcommand{    }\{star}
1082 \eqcommand{    }\{stepcounter}
1083 \eqcommand{    }\{stretch}
1084 \eqcommand{    }\{string}
1085 \eqcommand{    }\{strut}
1086 \eqcommand{    }\{strutbox}
1087 \eqcommand{    }\{subitem}
1088 \eqcommand{    }\{subparagraph}
1089 \eqcommand{    }\{subsection}
1090 \eqcommand{    }\{substack}
1091 \eqcommand{    }\{subsubitem}
1092 \eqcommand{    }\{subsubsection}
1093 \eqcommand{    }\{subset}
1094 \eqcommand{    }\{subseteq}
1095 \eqcommand{    }\{supereject}
1096 \eqcommand{    }\{suppressfloats}
1097 \eqcommand{@    }\{@tempa}
1098 \eqcommand{@    }\{@tempb}
1099 \eqcommand{@    }\{@tempc}
1100 \eqcommand{@    }\{@tempd}
1101 \eqcommand{@    }\{@tempe}
1102 \eqcommand{@    }\{@tempboxa}
1103 \eqcommand{@    }\{@tempcnta}
1104 \eqcommand{@    }\{@tempcntb}
1105 \eqcommand{@    }\{@tempdima}
1106 \eqcommand{@    }\{@tempdimb}
1107 \eqcommand{@    }\{@tempdimc}
1108 \eqcommand{@    }\{@tempskipa}
1109 \eqcommand{@    }\{@tempskipb}
1110 \eqcommand{@    }\{@tempswafalse}
1111 \eqcommand{@    }\{@tempswatru}

```



```

1112 \eqcommand{@ }{@temptokena}
1113 \eqcommand{ }{@thefnmark}
1114 \eqcommand{@ }{@thirdofthree}
1115 \eqcommand{ }{tabbingsep}
1116 \eqcommand{ }{tabcolsep}
1117 \eqcommand{ }{tableofcontents}
1118 \eqcommand{ }{tablename}
1119 \eqcommand{ }{tabskip}
1120 \eqcommand{ }{tabularnewline}
1121 \eqcommand{ }{tag}
1122 \eqcommand{ }{telephone}
1123 \eqcommand{ }{TeX}
1124 \eqcommand{ }{text}
1125 \eqcommand{ }{textbullet}
1126 \eqcommand{ }{textfont}
1127 \eqcommand{ }{textemdash}
1128 \eqcommand{ }{textendash}
1129 \eqcommand{ }{textexclamdown}
1130 \eqcommand{ }{textperiodcentered}
1131 \eqcommand{ }{textquestiondown}
1132 \eqcommand{ }{textquotedblleft}
1133 \eqcommand{ }{textquotedblright}
1134 \eqcommand{ }{textquoteleft}
1135 \eqcommand{ }{textquoteright}
1136 \eqcommand{ }{textvisiblespace}
1137 \eqcommand{ }{textbackslash}
1138 \eqcommand{ }{textbar}
1139 \eqcommand{ }{textgreater}
1140 \eqcommand{ }{textless}
1141 \eqcommand{ }{textbf}
1142 \eqcommand{ }{textcircled}
1143 \eqcommand{ }{textcolor}
1144 \eqcommand{ }{textcompwordmark}
1145 \eqcommand{ }{textfloatsep}
1146 \eqcommand{ }{textfraction}
1147 \eqcommand{ }{textheight}
1148 \eqcommand{ }{textindent}
1149 \eqcommand{ }{textit}
1150 \eqcommand{ }{textmd}
1151 \eqcommand{ }{textnormal}
1152 \eqcommand{ }{textregistered}
1153 \eqcommand{ }{textrm}
1154 \eqcommand{ }{textsc}
1155 \eqcommand{ }{textsf}
1156 \eqcommand{ }{textsl}
1157 \eqcommand{ }{textstyle}
1158 \eqcommand{ }{textsuperscript}
1159 \eqcommand{ }{texttrademark}
1160 \eqcommand{ }{texttt}
1161 \eqcommand{ }{textup}

```





```

1162 \eqcommand{      }{textwidth}
1163 \eqcommand{      }{thanks}
1164 \eqcommand{      }{the}
1165 \eqcommand{      }{thempfn}
1166 \eqcommand{      }{thicklines}
1167 \eqcommand{      }{thickmuskip}
1168 \eqcommand{      }{thinmuskip}
1169 \eqcommand{      }{thickspace}
1170 \eqcommand{      }{thinlines}
1171 \eqcommand{      }{thinspace}
1172 \eqcommand{      }{thisfancypage}
1173 \eqcommand{      }{thispagestyle}
1174 \eqcommand{ @}{thr@@}
1175 \eqcommand{ }{tilde}
1176 \eqcommand{ }{tiny}
1177 \eqcommand{ }{time}
1178 \eqcommand{ }{times}
1179 \eqcommand{ }{title}
1180 \eqcommand{ }{to}
1181 \eqcommand{ }{today}
1182 \eqcommand{ }{toks}
1183 \eqcommand{      }{toksdef}
1184 \eqcommand{      }{tolerance}
1185 \eqcommand{ }{top}
1186 \eqcommand{      }{topfigrule}
1187 \eqcommand{      }{topfraction}
1188 \eqcommand{      }{topmargin}
1189 \eqcommand{      }{topmark}
1190 \eqcommand{      }{toppageskip}
1191 \eqcommand{      }{topsep}
1192 \eqcommand{      }{topskip}
1193 \eqcommand{      }{totalheight}
1194 \eqcommand{      }{tracingall}
1195 \eqcommand{      }{tracingcommands}
1196 \eqcommand{      }{tracinglostchars}
1197 \eqcommand{      }{tracingmacros}
1198 \eqcommand{      }{tracingonline}
1199 \eqcommand{      }{tracingoutput}
1200 \eqcommand{      }{tracingpages}
1201 \eqcommand{      }{tracingparagraphs}
1202 \eqcommand{      }{tracingrestores}
1203 \eqcommand{      }{tracingstats}
1204 \eqcommand{ }{triangle}
1205 \eqcommand{      }{ttdefault}
1206 \eqcommand{      }{ttfamily}
1207 \eqcommand{ @}{tw@}
1208 \eqcommand{      }{twocolumn}
1209 \eqcommand{      }{typein}
1210 \eqcommand{      }{typeout}
1211 \eqcommand{      }{ucode}

```



```

1212 \eqcommand{      }\{uchyph}
1213 \eqcommand{      }\{underline}
1214 \eqcommand{      }\{unhbox}
1215 \eqcommand{      }\{unhcopy}
1216 \eqcommand{      }\{unitlength}
1217 \eqcommand{      }\{unkern}
1218 \eqcommand{      }\{unpenalty}
1219 \eqcommand{      }\{unskip}
1220 \eqcommand{      }\{unvbox}
1221 \eqcommand{      }\{unvcopy}
1222 \eqcommand{      }\{updefault}
1223 \eqcommand{      }\{upshape}
1224 \eqcommand{      }\{usebox}
1225 \eqcommand{      }\{usecounter}
1226 \eqcommand{      }\{usefont}
1227 \eqcommand{      }\{usepackage}
1228 \eqcommand{@      }\{@vobeyspaces}
1229 \eqcommand{@      }\{@void}
1230 \eqcommand{      }\{vadjust}
1231 \eqcommand{      }\{valign}
1232 \eqcommand{      }\{value}
1233 \eqcommand{      }\{vbadness}
1234 \eqcommand{      }\{vbox}
1235 \eqcommand{      }\{vcenter}
1236 \eqcommand{      }\{verb}
1237 \eqcommand{      }\{vfil}
1238 \eqcommand{      }\{vfill}
1239 \eqcommand{      }\{vfilneg}
1240 \eqcommand{      }\{vfuzz}
1241 \eqcommand{      }\{visible}
1242 \eqcommand{      }\{vline}
1243 \eqcommand{      }\{voffset}
1244 \eqcommand{      }\@{\voidb@x}
1245 \eqcommand{      }\{vpageref}
1246 \eqcommand{      }\{vrboxsep}
1247 \eqcommand{      }\{vref}
1248 \eqcommand{      }\{vrule}
1249 \eqcommand{      }\{vsize}
1250 \eqcommand{      }\{vskip}
1251 \eqcommand{      }\{vspace}
1252 \eqcommand{      }\{vsplit}
1253 \eqcommand{      }\{vss}
1254 \eqcommand{      }\{vtop}
1255 \eqcommand{      }\{wd}
1256 \eqcommand{      }\{whiledo}
1257 \eqcommand{      }\{widehat}
1258 \eqcommand{      }\{widetilde}
1259 \eqcommand{      }\{widowpenalty}
1260 \eqcommand{      }\{width}
1261 \eqcommand{      }\{wlog}

```



```

1262 \eqcommand{ }{write}
1263 \eqcommand{@ }{@xobeysp}
1264 \eqcommand{ @ }{@xxxii}
1265 \eqcommand{ }{xdef}
1266 \eqcommand{ }{xleaders}
1267 \eqcommand{ }{xspaceskip}
1268 \eqcommand{ }{year}
1269 \eqcommand{@ }{z@}
1270 \eqcommand{@ }{z@skip}

```

## 7.18 color-localise-xepersian.def

```

1271 color{ } \-localise-xepersian.def}[2011/03/01 v0.1 localising color package]
1272 0}{rgb}{ } \0,,0}
1273 1}{rgb}{ } \1,,1}
1274 1}{rgb}{ } \0,,0}
1275 0}{rgb}{ } \1,,0}
1276 0}{rgb}{ } \0,,1}
1277 1}{cmyk}{ } \0,,0,0}
1278 0}{cmyk}{ } \1,,0,0}
1279 0}{cmyk}{ } \0,,1,0}

```

## 7.19 xepersian-localise-commands-xepersian.def

```

1280 \ProvidesFile{xepersian-localise-commands-xepersian.def}[2012/07/25 v0.2 Persian localisation o
1281 \eqcommand{ }{autofootnoterule}
1282 \eqcommand{ }{AutoMathsDigits}
1283 \eqcommand{ }{DefaultMathsDigits}
1284 \eqcommand{ @ }{keyval@eq@alias@key}
1285 \eqcommand{ }{deflatinfont}
1286 \eqcommand{ }{defpersianfont}
1287 \eqcommand{ }{hboxL}
1288 \eqcommand{ }{hboxR}
1289 \eqcommand{ }{Latincite}
1290 \eqcommand{ }{latinfont}
1291 \eqcommand{ }{latintoday}
1292 \eqcommand{ }{leftfootnoterule}
1293 \eqcommand{ }{lr}
1294 \eqcommand{ }{LRE}
1295 \eqcommand{ }{LTRdblcol}
1296 \eqcommand{ }{LTRfootnote}
1297 \eqcommand{ }{LTRfootnotetext}
1298 \eqcommand{ }{LTRthanks}
1299 \eqcommand{ }{persianday}
1300 \eqcommand{ }{persianfont}
1301 \eqcommand{ }{PersianMathsDigits}
1302 \eqcommand{ }{persianmonth}
1303 \eqcommand{ }{persianyear}
1304 \eqcommand{ }{plq}
1305 \eqcommand{ }{prq}
1306 \eqcommand{ }{rightfootnoterule}

```



```

1307 \eqcommand{      }\{rl\}
1308 \eqcommand{      }\{RLE\}
1309 \eqcommand{      }\{RTLdblcol\}
1310 \eqcommand{      }\{RTLfootnote\}
1311 \eqcommand{      }\{RTLfootnotetext\}
1312 \eqcommand{      }\{RTLthanks\}
1313 \eqcommand{@      }\{@SepMark\}
1314 \eqcommand{      }\{SepMark\}
1315 \eqcommand{      }\{setdefaultbibitems\}
1316 \eqcommand{      }\{setdefaultmarginpar\}
1317 \eqcommand{      }\{setdigitfont\}
1318 \eqcommand{      }\{setfootnoteLR\}
1319 \eqcommand{      }\{setfootnoteRL\}
1320 \eqcommand{      }\{setlatintextfont\}
1321 \eqcommand{      }\{setLTR\}
1322 \eqcommand{      }\{setLTRbibitems\}
1323 \eqcommand{      }\{setLTRmarginpar\}
1324 \eqcommand{      }\{setRTL\}
1325 \eqcommand{      }\{setRTLbibitems\}
1326 \eqcommand{      }\{setRTLmarginpar\}
1327 \eqcommand{      }\{settextfont\}
1328 \eqcommand{      }\{textwidthfootnoterule\}
1329 \eqcommand{      }\{twocolumnstableofcontents\}
1330 \eqcommand{      }\{unsetfootnoteRL\}
1331 \eqcommand{      }\{unsetLTR\}
1332 \eqcommand{      }\{unsetRTL\}
1333 \eqcommand{      }\{vboxL\}
1334 \eqcommand{      }\{vboxR\}
1335 \eqcommand{      }\{XeLaTeX\}
1336 \eqcommand{      }\{XePersian\}
1337 \eqcommand{      }\{xepersianversion\}
1338 \eqcommand{      }\{xepersiandate\}
1339 \eqcommand{      }\{XeTeX\}

```

## 7.20 enumerate-xepersian.def

```

1340 \ProvidesFile{enumerate-xepersian.def}[2010/07/25 v0.1 adaptations for enumerate package]
1341 \def\@enloop@{%
1342   \ifx entemp@ \def\@tempa{\@enLabel\harfi } \else
1343   \ifx entemp@ \def\@tempa{\@enLabel\adadi } \else
1344   \ifx entemp@ \def\@tempa{\@enLabel\tartibi } \else
1345   \ifx A\entemp \def\@tempa{\@enLabel\Alph } \else
1346   \ifx a\entemp \def\@tempa{\@enLabel\alph } \else
1347   \ifx i\entemp \def\@tempa{\@enLabel\roman } \else
1348   \ifx I\entemp \def\@tempa{\@enLabel\Roman } \else
1349   \ifx l\entemp \def\@tempa{\@enLabel\arabic} \else
1350   \ifx \@sptoken\entemp \let\@tempa\@enSpace \else
1351   \ifx \bgroup\entemp \let\@tempa\@enGroup \else
1352   \ifx \@enum@\entemp \let\@tempa\@gobble \else
1353   \let\@tempa\@enOther

```



```

1354                               \@enhook
1355         \fi\fi\fi\fi\fi\fi\fi\fi\fi\fi
1356     \@tempa}

```

## 7.21 fontspec-xetex-xepersian.def

```

1357 \ProvidesFile{fontspec-xetex-xepersian.def}[2014/07/10 v0.1 fixes for fontspec-xetex package]
1358 \ExplSyntaxOn
1359 \DeclareDocumentCommand \aliasfontfeature {mm}
1360 {
1361   \keys_if_exist:nnTF {fontspec} {#1}
1362   {
1363     \keys_define:nn {fontspec}
1364     { #2 .code:n = { \keys_set:nn {fontspec} { #1 = {##1} } } }
1365   }
1366   {
1367     \keys_if_exist:nnTF {fontspec-renderer} {#1}
1368     {
1369       \keys_define:nn {fontspec-renderer}
1370       { #2 .code:n = { \keys_set:nn {fontspec-renderer} { #1 = {##1} } } }
1371     }
1372     {
1373       \keys_if_exist:nnTF {fontspec-prepare} {#1}
1374       {
1375         \keys_define:nn {fontspec-prepare}
1376         { #2 .code:n = { \keys_set:nn {fontspec-prepare} { #1 = {##1} } } }
1377       }
1378       {
1379         \keys_if_exist:nnTF {fontspec-prepare-external} {#1}
1380         {
1381           \keys_define:nn {fontspec-prepare-external}
1382           {
1383             #2 .code:n =
1384             { \keys_set:nn {fontspec-prepare-external} { #1 = {##1} } }
1385           }
1386         }
1387         {
1388           \__fontspec_warning:nx {rename-feature-not-exist} {#1}
1389         }
1390       }
1391     }
1392   }
1393 }
1394 \ExplSyntaxOff

```

## 7.22 latex-localise-environments-xepersian.def

```

1395 \ProvidesFile{latex-localise-environments-xepersian.def}[2010/07/25 v0.2 Persian localisation o
1396 \eqenvironment{ }{abstract}
1397 \eqenvironment{ }{appendix}
1398 \eqenvironment{ }{array}

```



```

1399 \eqenvironment{ }{center}
1400 \eqenvironment{ }{description}
1401 \eqenvironment{ }{displaymath}
1402 \eqenvironment{ }{document}
1403 \eqenvironment{ }{enumerate}
1404 \eqenvironment{ }{figure}
1405 \eqenvironment{ *}{figure*}
1406 \eqenvironment{ }{filecontents}
1407 \eqenvironment{ *}{filecontents*}
1408 \eqenvironment{ }{flushleft}
1409 \eqenvironment{ }{flushright}
1410 \eqenvironment{ }{itemize}
1411 \eqenvironment{ }{letter}
1412 \eqenvironment{ }{list}
1413 \eqenvironment{ }{longtable}
1414 \eqenvironment{ }{lrbox}
1415 \eqenvironment{ }{math}
1416 \eqenvironment{ }{matrix}
1417 \eqenvironment{ }{minipage}
1418 \eqenvironment{ }{multline}
1419 \eqenvironment{ }{note}
1420 \eqenvironment{ }{overlay}
1421 \eqenvironment{ }{picture}
1422 \eqenvironment{ }{quotation}
1423 \eqenvironment{ }{quote}
1424 \eqenvironment{ }{slide}
1425 \eqenvironment{ }{sloppypar}
1426 \eqenvironment{ }{split}
1427 \eqenvironment{ }{subarray}
1428 \eqenvironment{ }{tabbing}
1429 \eqenvironment{ }{table}
1430 \eqenvironment{ *}{table*}
1431 \eqenvironment{ }{tabular}
1432 \eqenvironment{ *}{tabular*}
1433 \eqenvironment{ }{thebibliography}
1434 \eqenvironment{ }{theindex}
1435 \eqenvironment{ }{titlepage}
1436 \eqenvironment{ }{trivlist}
1437 \eqenvironment{ }{verse}

```

## 7.23 xepersian-localise-environments-xepersian.def

```

1438 \ProvidesFile{xepersian-localise-environments-xepersian.def}[2010/07/25 v0.1 Persian localisation]
1439 \eqenvironment{ }{latin}
1440 \eqenvironment{ }{LTR}
1441 \eqenvironment{ }{LTRitems}
1442 \eqenvironment{ }{modernpoem}
1443 \eqenvironment{ *}{modernpoem*}
1444 \eqenvironment{ }{persian}
1445 \eqenvironment{ }{RTL}

```



```

1446 \eqenvironment{      }{RTLitems}
1447 \eqenvironment{      }{traditionalpoem}
1448 \eqenvironment{      *}{traditionalpoem*}

```

## 7.24 extarticle-xepersian.def

```

1449 \ProvidesFile{extarticle-xepersian.def}[2010/07/25 v0.1 adaptations for extarticle class]
1450 \renewcommand\thepart      {\@tartibi\c@part}
1451 \renewcommand\appendix{\par
1452   \setcounter{section}{0}%
1453   \setcounter{subsection}{0}%
1454   \gdef\thesection{\@harfi\c@section}}

```

## 7.25 extbook-xepersian.def

```

1455 \ProvidesFile{extbook-xepersian.def}[2010/07/25 v0.1 adaptations for extbook class]
1456 \renewcommand\frontmatter{%
1457   \cleardoublepage
1458   \@mainmatterfalse
1459   \pagenumbering{harfi}}
1460 \renewcommand \thepart {\@tartibi\c@part}
1461 \renewcommand\appendix{\par
1462   \setcounter{chapter}{0}%
1463   \setcounter{section}{0}%
1464   \gdef\@chapapp{\appendixname}%
1465   \gdef\thechapter{\@harfi\c@chapter}
1466 }%end appendix

```

## 7.26 extrafootnotefeatures-xepersian.def

```

1467 \ProvidesFile{extrafootnotefeatures-xepersian.def}[2012/01/01 v0.2 footnote macros for extrafoot]
1468 \renewcommand{\foottextfont}{\footnotesize\if@RTL@footnote\else\latinfont\fi}
1469 \renewcommand{\LFRfoottextfont}{\footnotesize\latinfont}
1470 \renewcommand{\RTLfoottextfont}{\footnotesize\persianfont}

```

## 7.27 extreport-xepersian.def

```

1471 \ProvidesFile{extreport-xepersian.def}[2010/07/25 v0.1 adaptations for extreport class]
1472 \renewcommand\thepart      {\@tartibi\c@part}
1473 \renewcommand\appendix{\par
1474   \setcounter{chapter}{0}%
1475   \setcounter{section}{0}%
1476   \gdef\@chapapp{\appendixname}%
1477   \gdef\thechapter{\@harfi\c@chapter}}

```

## 7.28 flowfram-xepersian.def

```

1478 \ProvidesFile{flowfram-xepersian.def}[2010/07/25 v0.1 adaptations for flowfram package]
1479 \def\@outputpage{%
1480 \begingroup
1481   \let\protect\noexpand
1482   \@resetactivechars
1483   \global\let\@if@newlist\if@newlist

```



```

1484 \global\@newlistfalse\@parboxrestore
1485 \shipout\vbox{\set@typeset@protect
1486   \aftergroup
1487   \endgroup
1488   \aftergroup
1489   \set@typeset@protect
1490   \reset@font\normalsize\normalsfcodes
1491   \let\label\@gobble
1492   \let\index\@gobble
1493   \let\glossary\@gobble
1494   \baselineskip\z@skip
1495   \lineskip\z@skip
1496   \lineskiplimit\z@
1497   \vskip\topmargin\moveright\@themargin
1498   \vbox{%
1499     \vskip\headheight
1500     \vskip\headsep
1501     \box\@outputbox
1502   }}%
1503 \global\let@if@newlist\@@if@newlist
1504 \stepcounter{page}%
1505 \setcounter{displayedframe}{0}%
1506 \let\firstmark\botmark}

```

## 7.29 footnote-xepersian.def

```

1507 \ProvidesFile{footnote-xepersian.def}[2013/04/26 v0.4 footnote macros for xepersian package]
1508
1509
1510
1511 \long\def\@footnotetext#1{\insert\footins{%
1512   \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
1513   \reset@font\footnotesize
1514   \interlinepenalty\interfootnotelinepenalty
1515   \splittopskip\footnotesep
1516   \splitmaxdepth \dp\strutbox \floatingpenalty \@MM
1517   \hsize\columnwidth \@parboxrestore
1518   \protected@edef\@currentlabel{%
1519     \csname p@footnote\endcsname\@thefnmark
1520   }%
1521   \color@begingroup
1522     \@makefnmark{%
1523       \rule\z@\footnotesep\ignorespaces\if@RTL@footnote#1\else\latinfont#1\fi\@finalstrut\strut
1524     }%
1525   \color@endgroup}}%
1526
1527
1528
1529
1530 \long\def\@RTLfootnotetext#1{\insert\footins{%

```





```

1531 \RTLtrue%
1532 \reset@font\footnotesize
1533 \interlinepenalty\interfootnotelinepenalty
1534 \splittopskip\footnotesep
1535 \splitmaxdepth \dp\strutbox \floatingpenalty \MM
1536 \hsize\columnwidth \@parboxrestore
1537 \protected@edef\@currentlabel{%
1538     \csname p@footnote\endcsname\@thefnmark
1539 }%
1540 \color@begingroup
1541     \@makefntext{%
1542         \rule{z@\footnotesep\ignorespaces\persianfont #1\@finalstrut\strutbox}%
1543     \color@endgroup}}%
1544
1545
1546
1547
1548
1549 \long\def\@LTRfootnotetext#1{\insert\footins{%
1550     \RTLfalse%
1551     \reset@font\footnotesize
1552     \interlinepenalty\interfootnotelinepenalty
1553     \splittopskip\footnotesep
1554     \splitmaxdepth \dp\strutbox \floatingpenalty \MM
1555     \hsize\columnwidth \@parboxrestore
1556     \protected@edef\@currentlabel{%
1557         \csname p@footnote\endcsname\@thefnmark
1558     }%
1559     \color@begingroup
1560         \@makefntext{%
1561             \rule{z@\footnotesep\ignorespaces\latinfont #1\@finalstrut\strutbox}%
1562         \color@endgroup}}%
1563
1564 \footdir@temp\footdir@ORG@xepersian@footnotetext\@footnotetext{\bidi@footdir@footnote}%
1565 \footdir@temp\footdir@ORG@xepersian@RTLfootnotetext\@RTLfootnotetext{R}%
1566 \footdir@temp\footdir@ORG@xepersian@LTRfootnotetext\@LTRfootnotetext{L}%
1567
1568
1569
1570 \long\def\@mpfootnotetext#1{%
1571 \ifbidi@autofootnoterule\ifnum\c@mpfootnote=\@ne\ifRTL@footnote\global\let\bidi@mpfootnoterule
1572 \global\setbox\@mpfootins\vbox{\ifRTL@footnote\@RTLtrue\else\@RTLfalse\fi%
1573     \unvbox\@mpfootins
1574     \reset@font\footnotesize
1575     \hsize\columnwidth
1576     \@parboxrestore
1577     \protected@edef\@currentlabel
1578         {\csname p@mpfootnote\endcsname\@thefnmark}%
1579     \color@begingroup
1580         \@makefntext{%

```



```

1581 \rule{z@footnotesep\ignorespaces\if@RTLfootnote#1\else\latinfont#1\fi\@finalstrut\strut
1582 \color@endgroup}}
1583
1584
1585
1586
1587
1588 \long\def\@mpRTLfootnotetext#1{%
1589 \ifbidi@autofootnoterule\ifnum\c@mpfootnote=\@ne\global\let\bidi@mpfootnoterule\right@footnot
1590 \global\setbox\@mpfootins\vbox{\@RTLtrue%
1591 \unvbox\@mpfootins
1592 \reset@font\footnotesize
1593 \hsize\columnwidth
1594 \@parboxrestore
1595 \protected@edef\@currentlabel
1596 {\csname p@mpfootnote\endcsname\@thefnmark}%
1597 \color@begingroup
1598 \@makefntext{%
1599 \rule{z@footnotesep\ignorespaces\persianfont #1\@finalstrut\strutbox}%
1600 \color@endgroup}}
1601
1602
1603 \long\def\@mplTRfootnotetext#1{%
1604 \ifbidi@autofootnoterule\ifnum\c@mpfootnote=\@ne\global\let\bidi@mpfootnoterule\left@footnot
1605 \global\setbox\@mpfootins\vbox{\@RTLfalse%
1606 \unvbox\@mpfootins
1607 \reset@font\footnotesize
1608 \hsize\columnwidth
1609 \@parboxrestore
1610 \protected@edef\@currentlabel
1611 {\csname p@mpfootnote\endcsname\@thefnmark}%
1612 \color@begingroup
1613 \@makefntext{%
1614 \rule{z@footnotesep\ignorespaces\latinfont #1\@finalstrut\strutbox}%
1615 \color@endgroup}}

```

### 7.30 framed-xepersian.def

```

1616 \ProvidesFile{framed-xepersian.def}[2012/06/05 v0.1 xepersian adaptations for framed package for
1617 \renewenvironment{titled-frame}[1]{%
1618 \def\FrameCommand{\fboxsep8pt\fboxrule2pt
1619 \TitleBarFrame{\textbf{#1}}}%
1620 \def\FirstFrameCommand{\fboxsep8pt\fboxrule2pt
1621 \TitleBarFrame[$\if@RTL\blacktriangleleft\else\blacktriangleright\fi$]{\textbf{#1}}}%
1622 \def\MidFrameCommand{\fboxsep8pt\fboxrule2pt
1623 \TitleBarFrame[$\if@RTL\blacktriangleleft\else\blacktriangleright\fi$]{\textbf{#1}\ (\if@RTL
1624 \def\LastFrameCommand{\fboxsep8pt\fboxrule2pt
1625 \TitleBarFrame{\textbf{#1}\ (\if@RTL else\ cont\fi)}}}%
1626 \MakeFramed{\advance\hsize-20pt \FrameRestore}}%
1627 % note: 8 + 2 + 8 + 2 = 20. Don't use \width because the frame title

```



```

1628 % could interfere with the width measurement.
1629 {\endMakeFramed}

```

### 7.31 glossaries-xepersian.def

```

1630 \ProvidesFile{glossaries-xepersian.def}[2014/09/04 v0.4 xepersian adaptations for glossaries pac
1631 \glsaddprotectedpagefmt{@harfi}
1632 \glsaddprotectedpagefmt{@tartibi}
1633 \glsaddprotectedpagefmt{@adadi}

```

### 7.32 hyperref-xepersian.def

```

1634 \ProvidesFile{hyperref-xepersian.def}[2013/04/09 v0.5 bilingual captions for hyperref package]
1635 \def\equationautorefname{\if@RTL else\ Equation\fi}%
1636 \def\footnoteautorefname{\if@RTL else\ footnote\fi}%
1637 \def\itemautorefname{\if@RTL else\ item\fi}%
1638 \def\figureautorefname{\if@RTL else\ Figure\fi}%
1639 \def\tableautorefname{\if@RTL else\ Table\fi}%
1640 \def\partautorefname{\if@RTL else\ Part\fi}%
1641 \def\appendixautorefname{\if@RTL else\ Appendix\fi}%
1642 \def\chapterautorefname{\if@RTL else\ chapter\fi}%
1643 \def\sectionautorefname{\if@RTL else\ section\fi}%
1644 \def\subsectionautorefname{\if@RTL else\ subsection\fi}%
1645 \def\subsubsectionautorefname{\if@RTL else\ subsubsection\fi}%
1646 \def\paragraphautorefname{\if@RTL else\ paragraph\fi}%
1647 \def\subparagraphautorefname{\if@RTL else\ subparagraph\fi}%
1648 \def\FancyVerbLineautorefname{\if@RTL else\ line\fi}%
1649 \def\theoremautorefname{\if@RTL else\ Theorem\fi}%
1650 \def\pageautorefname{\if@RTL else\ page\fi}%
1651 \AtBeginDocument{%
1652 \let\HyOrg@appendix\appendix
1653 \def\appendix{%
1654 \ltx@ifundefined{chapter}%
1655 {\gdef\theHsection{\Alph{section}}}%
1656 {\gdef\theHchapter{\Alph{chapter}}}%
1657 \xdef\Hy@chapapp{\Hy@appendixstring}%
1658 \HyOrg@appendix
1659 }
1660 }
1661 \pdfstringdefDisableCommands{%
1662 \let\lr\@firstofone
1663 \let\rl\@firstofone
1664 \def\XePersian{\XePersian}
1665 }

```

### 7.33 imspdoc-xepersian.def

```

1666 \ProvidesFile{imspdoc-xepersian.def}[2013/04/26 v0.3 implementation of imspdoc class for xepersi
1667 \newenvironment{thebibliography}[1]{%
1668 \@bibtitlestyle
1669 \normalfont\bibliofont\labelsep .5em\relax
1670 \renewcommand\theenumiv{\arabic{enumiv}}\let\p@enumiv\@empty

```



```

1671 \ifRTL\ifLTRbibitems\@RTLfalse\else\fi\else\ifRTLbibitems\@RTLtrue\else\fi\fi
1672 \list{\@biblabel{\theenumiv}}{\settowidth\labelwidth{\@biblabel{#1}}%
1673 \leftmargin\labelwidth \advance\leftmargin\labelsep
1674 \usecounter{enumiv}}%
1675 \sloppy \clubpenalty\@M \widowpenalty\clubpenalty
1676 \sfcode\.\=\@M
1677 }{%
1678 \def\@noitemerr{\@latex@warning{Empty `thebibliography' environment}}%
1679 \endlist
1680 }
1681 \def\theindex{\@restonecoltrue\if@twocolumn\@restonecolfalse\fi
1682 \columnseprule\z@ \columnsep 35\p@
1683 \@indextitlestyle
1684 \thispagestyle{plain}%
1685 \let\item\@idxitem
1686 \parindent\z@ \parskip\z@\@plus.3\p@\relax
1687 \ifRTL\raggedleft\else\raggedright\fi
1688 \hyphenpenalty\@M
1689 \footnotesize}
1690 \def\@idxitem{\par\hangindent \ifRTL-\fi2em}
1691 \def\subitem{\par\hangindent \ifRTL-\fi2em\hspace*{1em}}
1692 \def\subsubitem{\par\hangindent \ifRTL-\fi3em\hspace*{2em}}
1693 \renewcommand \thepart {\@tartibi\c@part}
1694 \def\appendix{\par\c@section\z@ \c@subsection\z@
1695 \let\sectionname\appendixname
1696 \def\thesection{\@harfi\c@section}}
1697 \def\right@footnoterule{%
1698 \hbox to \columnwidth
1699 {\beginR \vbox{\kern-.4\p@
1700 \hrule\@width 5pc\kern11\p@\kern-\footnotesep}\hfil\endR}}
1701 \def\left@footnoterule{\kern-.4\p@
1702 \hrule\@width 5pc\kern11\p@\kern-\footnotesep}
1703 \def\@makefnmark{%
1704 \leavevmode
1705 \raise.9ex\hbox{\fontsize\sf@size\z@\normalfont\@thefnmark}}%
1706 }
1707
1708
1709
1710 \long\def\@footnotetext#1{%
1711 \insert\footins{%
1712 \ifRTL@footnote\@RTLtrue\else\@RTLfalse\fi%
1713 \normalfont\footnotesize
1714 \interlinepenalty\interfootnotelinepenalty
1715 \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
1716 \floatingpenalty\@MM \hsize\columnwidth
1717 \@parboxrestore \parindent\normalparindent \sloppy
1718 \protected@edef\@currentlabel{%
1719 \csname p@footnote\endcsname\@thefnmark}%
1720 \@makefntext{%

```



```

1721 \rule\z@\footnotesep\ignorespaces\if@RTL@footnote#1\else\latinfont#1\fi\unskip\strut\par}}
1722
1723
1724
1725
1726
1727 \long\def\@RTLfootnotetext#1{%
1728 \insert\footins{%
1729 \@RTLtrue%
1730 \normalfont\footnotesize
1731 \interlinepenalty\interfootnotelinepenalty
1732 \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
1733 \floatingpenalty\@MM \hsize\columnwidth
1734 \@parboxrestore \parindent\normalparindent \sloppy
1735 \protected@edef\@currentlabel{%
1736 \csname p@footnote\endcsname\@thefnmark}%
1737 \@makefntext{%
1738 \rule\z@\footnotesep\ignorespaces\persianfont #1\unskip\strut\par}}}
1739
1740
1741
1742
1743
1744
1745
1746 \long\def\@LTRfootnotetext#1{%
1747 \insert\footins{%
1748 \@RTLfalse%
1749 \normalfont\footnotesize
1750 \interlinepenalty\interfootnotelinepenalty
1751 \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
1752 \floatingpenalty\@MM \hsize\columnwidth
1753 \@parboxrestore \parindent\normalparindent \sloppy
1754 \protected@edef\@currentlabel{%
1755 \csname p@footnote\endcsname\@thefnmark}%
1756 \@makefntext{%
1757 \rule\z@\footnotesep\ignorespaces\latinfont #1\unskip\strut\par}}}
1758
1759 \footdir@temp\footdir@ORG@xepersian@imsproc@footnotetext\@footnotetext{\bidi@footdir@footnote}
1760 \footdir@temp\footdir@ORG@xepersian@imsproc@RTLfootnotetext\@RTLfootnotetext{R}%
1761 \footdir@temp\footdir@ORG@xepersian@imsproc@LTRfootnotetext\@LTRfootnotetext{L}%
1762
1763 \def\part{\@startsection{part}{0}%
1764 \z@\linespacing\@plus\linespacing}{.5\linespacing}%
1765 {\normalfont\bfseries\if@RTL\raggedleft\else\raggedright\fi}}
1766 \def\@tocline#1#2#3#4#5#6#7{\relax
1767 \ifnum #1>\c@tocdepth % then omit
1768 \else
1769 \par \addpenalty\@secpenalty\addvspace{#2}%
1770 \begingroup \hyphenpenalty\@M

```



```

1771 \ifempty{#4}{%
1772 \tempdima\csname r@tocindent\number#1\endcsname\relax
1773 }{%
1774 \tempdima#4\relax
1775 }%
1776 \parindent\z@ \ifRTL\rightskip\else\leftskip\fi#3\relax \advance\ifRTL\rightskip\else\left
1777 \ifRTL\leftskip\else\rightskip\fi\@pnumwidth plus4em \parfillskip-\@pnumwidth
1778 #5\leavevmode\hskip-\tempdima #6\nobreak\relax
1779 \hfil\hbox to\@pnumwidth{\@tocpagenum{#7}}\par
1780 \nobreak
1781 \endgroup
1782 \fi}
1783 \renewcommand\thesubsection {\thesection\@SepMark\arabic{subsection}}
1784 \renewcommand\thesubsubsection {\thesubsection \@SepMark\arabic{subsubsection}}
1785 \renewcommand\theparagraph {\thesubsubsection\@SepMark\arabic{paragraph}}
1786 \renewcommand\thesubparagraph {\theparagraph\@SepMark\arabic{subparagraph}}
1787 \def\maketitle{\par
1788 \topnum\z@ % this prevents figures from falling at the top of page 1
1789 \setcopyright
1790 \thispagestyle{firstpage}% this sets first page specifications
1791 \uppercase\nonmath\shorttitle
1792 \ifx\@empty\shortauthors \let\shortauthors\shorttitle
1793 \else \andify\shortauthors
1794 \fi
1795 \@maketitle@hook
1796 \begingroup
1797 \@maketitle
1798 \toks@{\xp{\shortauthors}\temptokena\xp{\shorttitle}}%
1799 \toks4{\def\{\ignorespaces}}% defend against questionable usage
1800 \edef\tempa{%
1801 \nx\markboth{\the\toks4
1802 \nx\MakeUppercase{\the\toks@}}{\the\temptokena}}%
1803 \tempa
1804 \endgroup
1805 \c@footnote\z@
1806 \cleartopmattertags
1807 }

```

## 7.34 kashida-xepersian.def

```

1808 \ProvidesFile{kashida-xepersian.def}[2013/11/15 v0.3 implementation of Kashida for xepersian pac
1809 \chardef\xepersian@zwj="200D % zero-width joiner
1810
1811 \chardef\xepersian@D=10 % dual-joiner class
1812 \chardef\xepersian@L=11 % lam
1813 \chardef\xepersian@R=12 % right-joiner
1814 \chardef\xepersian@A=13 % alef
1815 \chardef\xepersian@V=256 % vowel or other combining mark (to be ignored)
1816 \def\xepersian@kashida{\xepersian@zwj\nobreak%
1817 \leaders\hrule height \XeTeXglyphbounds2 \the\XeTeXcharglyph"0640 depth \XeTeXglyphbounds4 \the

```



```

1818
1819 \def\setclass#1#2{\def\theclass{#1}\def\charlist{#2}%
1820 \expandafter\dosetclass\charlist,\end}
1821 \def\dosetclass#1,#2\end{%
1822 \def\test{#1}\def\charlist{#2}%
1823 \ifx\test\empty\let\next\finishsetclass
1824 \else \XeTeXcharclass "\test = \theclass
1825 \let\next\dosetclass \fi
1826 \expandafter\next\charlist,,\end}
1827 \def\finishsetclass#1,,\end{}
1828
1829 \setclass \xepersian@A {0622,0623,0625,0627}
1830 \setclass \xepersian@R {0624,0629,062F,0630,0631,0632,0648,0698}
1831 \setclass \xepersian@D {0626,0628,062A,062B,062C,062D,062E}
1832 \setclass \xepersian@D {0633,0634,0635,0636,0637,0638,0639,063A}
1833 \setclass \xepersian@D {0640,0641,0642,0643,0645,0646,0647,0649,064A}
1834 \setclass \xepersian@D {067E,0686,06A9,06AF,06CC}
1835 \setclass \xepersian@L {0644}
1836 \setclass \xepersian@V {064B,064C,064D,064E,064F,0650,0651,0652}
1837
1838 \XeTeXinterchartoks \xepersian@D \xepersian@D = {\xepersian@kashida}
1839 \XeTeXinterchartoks \xepersian@L \xepersian@D = {\xepersian@kashida}
1840 \XeTeXinterchartoks \xepersian@D \xepersian@L = {\xepersian@kashida}
1841 \XeTeXinterchartoks \xepersian@L \xepersian@L = {\xepersian@kashida}
1842 \XeTeXinterchartoks \xepersian@D \xepersian@R = {\xepersian@kashida}
1843 \XeTeXinterchartoks \xepersian@D \xepersian@A = {\xepersian@kashida}
1844 \XeTeXinterchartoks \xepersian@L \xepersian@R = {\xepersian@kashida}
1845 \XeTeXinterchartoks \xepersian@L \xepersian@A = {}
1846
1847 \newcommand{\KashidaOn}{\XeTeXinterchartokenstate=1}
1848 \newcommand{\KashidaOff}{\XeTeXinterchartokenstate=0}
1849 \KashidaOn

```

### 7.35 listings-xepersian.def

```

1850 \ProvidesFile{listings-xepersian.def}[2014/07/17 v0.3 bilingual captions for listings package]
1851 \def\lstlistingname{\if@RTL else\ Listing\fi}
1852 \def\lstlistlistingname{\if@RTL else\ Listings\fi}

```

### 7.36 loadingorder-xepersian.def

```

1853 \ProvidesFile{loadingorder-xepersian.def}[2012/01/01 v0.3 making sure that xepersian is the last
1854 \bidi@isloaded{algorithmic}
1855 \bidi@isloaded{algorithm}
1856 \bidi@isloaded{backref}
1857 \bidi@isloaded{enumerate}
1858 \bidi@isloaded{tocloft}
1859 \bidi@isloaded{url}
1860 \AtBeginDocument{
1861 \if@bidi@algorithmicloaded\else
1862 \bidi@isloaded[\PackageError{xepersian}{Oops! you have loaded package algorithmic after xepers

```



```

1863 \fi%
1864 \if@bidi@algorithmloaded@else
1865 \bidi@isloaded[\PackageError{xepersian}{Oops! you have loaded package algorithm after xepersian}{\fi}%
1866 \fi%
1867 \if@bidi@backrefloaded@else
1868 \bidi@isloaded[\PackageError{xepersian}{Oops! you have loaded package backref after xepersian}{\fi}%
1869 \fi%
1870 \if@bidi@enumerateloaded@else
1871 \bidi@isloaded[\PackageError{xepersian}{Oops! you have loaded package enumerate after xepersian}{\fi}%
1872 \fi%
1873 \if@bidi@tocloftloaded@else
1874 \bidi@isloaded[\PackageError{xepersian}{Oops! you have loaded package tocloft after xepersian}{\fi}%
1875 \fi%
1876 \if@bidi@urlloaded@else
1877 \bidi@isloaded[\PackageError{xepersian}{Oops! you have loaded package url after xepersian}{\fi}%
1878 \fi%
1879 }

```

## 7.37 localise-xepersian.def

```

1880 \ProvidesFile{localise-xepersian.def}[2014/07/10 v0.2b Persian localisation of LaTeX2e]
1881 \newcommand{\makezwnjletter}{\catcode`\relax}
1882 \makezwnjletter
1883 \newcommand*\eqcommand[2]{\if@bidi@csprimitive{#2}{\bidi@csletcs{#1}{#2}}{\bidi@csdefcs{#1}{#2}}}
1884 \newcommand*\eqenvironment[2]{\newenvironment{#1}{\csname#2\endcsname}{\csname end#2\endcsname}}
1885 \@ifpackageloaded{keyval}{%
1886 \newcommand*\keyval@eq@alias@key[4][KV]{%
1887 \bidi@csletcs{#1@#2@#3}{#1@#2@#4}%
1888 \bidi@csletcs{#1@#2@#3@default}{#1@#2@#4@default}}%
1889 }{\@ifpackageloaded{xkeyval}{%
1890 \newcommand*\keyval@eq@alias@key[4][KV]{%
1891 \bidi@csletcs{#1@#2@#3}{#1@#2@#4}%
1892 \bidi@csletcs{#1@#2@#3@default}{#1@#2@#4@default}}%
1893 }{}}
1894 \input{latex-localise-commands-xepersian.def}
1895 \input{xepersian-localise-commands-xepersian.def}
1896 \input{latex-localise-environments-xepersian.def}
1897 \input{xepersian-localise-environments-xepersian.def}
1898 \input{latex-localise-messages-xepersian.def}
1899 \input{latex-localise-misc-xepersian.def}
1900 \input{packages-localise-xepersian.def}
1901 \aliasfontfeature{ExternalLocation}{ }
1902 \aliasfontfeature{ExternalLocation}{ }
1903 \aliasfontfeature{Renderer}{ }
1904 \aliasfontfeature{BoldFont}{ }
1905 \aliasfontfeature{Language}{ }
1906 \aliasfontfeature{Script}{ }
1907 \aliasfontfeature{UprightFont}{ }
1908 \aliasfontfeature{ItalicFont}{ }
1909 \aliasfontfeature{BoldItalicFont}{ }

```





```

1910 \aliasfontfeature{SlantedFont}{      }
1911 \aliasfontfeature{BoldSlantedFont}{    }
1912 \aliasfontfeature{SmallCapsFont}{      }
1913 \aliasfontfeature{UprightFeatures}{    }
1914 \aliasfontfeature{BoldFeatures}{      }
1915 \aliasfontfeature{ItalicFeatures}{     }
1916 \aliasfontfeature{BoldItalicFeatures}{ }
1917 \aliasfontfeature{SlantedFeatures}{    }
1918 \aliasfontfeature{BoldSlantedFeatures}{ }
1919 \aliasfontfeature{SmallCapsFeatures}{  }
1920 \aliasfontfeature{SizeFeatures}{      }
1921 \aliasfontfeature{Scale}{    }
1922 \aliasfontfeature{WordSpace}{    }
1923 \aliasfontfeature{PunctuationSpace}{  }
1924 \aliasfontfeature{FontAdjustment}{    }
1925 \aliasfontfeature{LetterSpace}{    }
1926 \aliasfontfeature{HyphenChar}{    }
1927 \aliasfontfeature{Color}{    }
1928 \aliasfontfeature{Opacity}{    }
1929 \aliasfontfeature{Mapping}{    }
1930 \aliasfontfeature{Weight}{    }
1931 \aliasfontfeature{Width}{    }
1932 \aliasfontfeature{OpticalSize}{    }
1933 \aliasfontfeature{FakeSlant}{    }
1934 \aliasfontfeature{FakeStretch}{    }
1935 \aliasfontfeature{FakeBold}{    }
1936 \aliasfontfeature{AutoFakeSlant}{    }
1937 \aliasfontfeature{AutoFakeBold}{    }
1938 \aliasfontfeature{Ligatures}{    }
1939 \aliasfontfeature{Alternate}{    }
1940 \aliasfontfeature{Variant}{    }
1941 \aliasfontfeature{Variant}{    }
1942 \aliasfontfeature{CharacterVariant}{  }
1943 \aliasfontfeature{Style}{    }
1944 \aliasfontfeature{Annotation}{    }
1945 \aliasfontfeature{RawFeature}{    }
1946 \aliasfontfeature{CharacterWidth}{    }
1947 \aliasfontfeature{Numbers}{    }
1948 \aliasfontfeature{Contextuals}{    }
1949 \aliasfontfeature{Diacritics}{    }
1950 \aliasfontfeature{Letters}{    }
1951 \aliasfontfeature{Kerning}{    }
1952 \aliasfontfeature{VerticalPosition}{  }
1953 \aliasfontfeature{Fractions}{    }
1954 \aliasfontfeatureoption{Language}{Default}{    }
1955 \aliasfontfeatureoption{Language}{Parsi}{    }
1956 \aliasfontfeatureoption{Script}{Parsi}{    }
1957 \aliasfontfeatureoption{Script}{Latin}{    }
1958 \aliasfontfeatureoption{Style}{MathScript}{    }
1959 \aliasfontfeatureoption{Style}{MathScriptScript}{    }

```



### 7.38 memoir-xepersian.def

```
1960 \ProvidesFile{memoir-xepersian.def}[2010/07/25 v0.1 adaptations for memoir class]
1961 \renewcommand{\@memfront}{\%
1962   \@smemfront\pagenumbering{harfi}}
1963 \renewcommand{\setthesection}{\thechapter\@SepMark\harfi{section}}
1964 \renewcommand*{\thebook}{\@tartibi\c@book}
1965 \renewcommand*{\thepart}{\@tartibi\c@part}
1966 \renewcommand{\appendix}{\par
1967   \setcounter{chapter}{0}%
1968   \setcounter{section}{0}%
1969   \gdef\@chapapp{\appendixname}%
1970   \gdef\thechapter{\@harfi\c@chapter}%
1971   \anappendixtrue}
```

### 7.39 latex-localise-messages-xepersian.def

```
1972 latex} \-localise-messages-xepersian.def}[2011/03/01 v0.1 localising LaTeX2e messages]
```

### 7.40 minitoc-xepersian.def

```
1973 \ProvidesFile{minitoc-xepersian.def}[2010/07/25 v0.1 bilingual captions for minitoc package]
1974 \def\ptctitle{\if@RTL else\ Table of Contents\fi}%
1975 \def\plftitle{\if@RTL else\ List of Figures\fi}%
1976 \def\pltttitle{\if@RTL else\ List of Tables\fi}%
1977 \def\mtctitle{\if@RTL else\ Contents\fi}%
1978 \def\mlftitle{\if@RTL else\ Figures\fi}%
1979 \def\mltttitle{\if@RTL else\ Tables\fi}%
1980 \def\stctitle{\if@RTL else\ Contents\fi}%
1981 \def\slftitle{\if@RTL else\ Figures\fi}%
1982 \def\slttitle{\if@RTL else\ Tables\fi}%

```

### 7.41 latex-localise-misc-xepersian.def

```
1983 \ProvidesFile{latex-localise-misc-xepersian.def}[2012/01/01 v0.2 miscellaneous Persian localisa
1984 %}1# \ \
1985 \@ \ @ \ \
1986 \1# \
1987 \1# @\
1988 \1# @\
1989 {\@ \ \
1990 %}2#1# @\ \
1991 %1# \ @\ \ \ \ \
1992 \2# \ @\ \
1993 {{2#1# \}}
1994 undefined\ \ \
1995
1996 %{ \ \ \ \1#} \ \} \1# \ \
1997 \ { \ \ \
1998 \ \ \
1999
2000
```



```

2001 \ \ \ \%} \#1
2002 \1#} \ \ \% \
2003 \ \ \ \
2004 }%
2005 \
2006 \ \ \
2007 }
2008 \= \ \
2009
2010
2011 \@ifdefinitionfileloaded{latex-xetex-bidi}{%
2012 \def\@xfloat #1[#2]{%
2013 \nodocument
2014 \def \@capytype {#1}%
2015 \def \@fps {#2}%
2016 \@onelevel@sanitize \@fps
2017 \def \reserved@b {!}%
2018 \ifx \reserved@b \@fps
2019 \@fpsadddefault
2020 \else
2021 \ifx \@fps \@empty
2022 \@fpsadddefault
2023 \fi
2024 \fi
2025 \ifhmode
2026 \bsphack
2027 \@floatpenalty -\@Mii
2028 \else
2029 \@floatpenalty-\@Miii
2030 \fi
2031 \ifinner
2032 \@parmoderr\@floatpenalty\z@
2033 \else
2034 \@next\@currbox\@freelist
2035 {%
2036 \@tempcnta \sixt@@n
2037 \expandafter \@tfor \expandafter \reserved@a
2038 \expandafter :\expandafter =\@fps
2039 \do
2040 {%
2041 \if \reserved@a h%
2042 \ifodd \@tempcnta
2043 \else
2044 \advance \@tempcnta \@ne
2045 \fi
2046 \fi
2047 \if \reserved@a %
2048 \ifodd \@tempcnta
2049 \else
2050 \advance \@tempcnta \@ne

```



```

2051         \fi
2052     \fi
2053     \if \reserved@a t%
2054         \@setfpsbit \tw@
2055     \fi
2056     \if \reserved@a %
2057         \@setfpsbit \tw@
2058     \fi
2059     \if \reserved@a b%
2060         \@setfpsbit 4%
2061     \fi
2062     \if \reserved@a %
2063         \@setfpsbit 4%
2064     \fi
2065     \if \reserved@a p%
2066         \@setfpsbit 8%
2067     \fi
2068     \if \reserved@a %
2069         \@setfpsbit 8%
2070     \fi
2071     \if \reserved@a !%
2072         \ifnum \@tempcnta>15
2073             \advance\@tempcnta -\sixt@@n\relax
2074         \fi
2075     \fi
2076     }%
2077     \@tempcntb \csname ftype@\@capttype \endcsname
2078     \multiply \@tempcntb \@xxxii
2079     \advance \@tempcnta \@tempcntb
2080     \global \count\@currbox \@tempcnta
2081     }%
2082     \@fltovf
2083 \fi
2084 \global \setbox\@currbox
2085     \color@vbox
2086     \normalcolor
2087     \vbox \bgroup
2088         \hsize\columnwidth
2089         \@parboxrestore
2090         \@floatboxreset
2091 }
2092 \let\bm@ \bm@c
2093 \let\bm@ \bm@l
2094 \let\bm@ \bm@r
2095 \let\bm@ \bm@b
2096 \let\bm@ \bm@t
2097 \let\bm@ \bm@s
2098 \long\def\@iiparbox#1#2[#3]#4#5{%
2099     \leavevmode
2100     \@pboxswfalse

```



```

2101 \if@RTLtab\@bidi@list@minipage@parbox@not@nobtrue\fi
2102 \if@RTL\if#1t\@bidi@list@minipage@parboxtrue\else\if#1b\@bidi@list@minipage@parboxtrue\else\
2103 \setlength\@tempdima{#4}%
2104 \@begin@tempboxa\vbox{\hsize\@tempdima\@parboxrestore#5\@par}%
2105 \ifx\relax#2\else
2106 \setlength\@tempdimb{#2}%
2107 \edef\@parboxto{to\the\@tempdimb}%
2108 \fi
2109 \if#1b\vbox
2110 \else\if#1\vbox
2111 \else\if#1t\top
2112 \else\if#1\bottom
2113 \else\ifmode\vc
2114 \else\ifmode\vc
2115 \fi\fi\fi\fi\fi
2116 \@parboxto{\let\hss\vss\let\unhbox\unvbox
2117 \csname bm@#3\endcsname}%
2118 \if@pboxsw\m@th$\fi
2119 \@end@tempboxa}
2120 \def\@iiiminipage#1#2[#3]#4{%
2121 \leavevmode
2122 \@pboxswfalse
2123 \if@RTLtab\@bidi@list@minipage@parbox@not@nobtrue\fi
2124 \if@RTL\if#1t\@bidi@list@minipage@parboxtrue\else\if#1b\@bidi@list@minipage@parboxtrue\else\
2125 \setlength\@tempdima{#4}%
2126 \def\@mpargs{{#1}{#2}{#3}{#4}}%
2127 \setbox\@tempboxa\vbox\bgroup
2128 \color@begingroup
2129 \hsize\@tempdima
2130 \textwidth\hsize \columnwidth\hsize
2131 \@parboxrestore
2132 \def\@mpfn{\mpfootnote}\def\@thempfn{\thempfootnote}\c@mpfootnote\z@
2133 \let\@footnotetext\@mpfootnotetext
2134 \let\@LTRfootnotetext\@mpLTRfootnotetext
2135 \let\@RTLfootnotetext\@mpRTLfootnotetext
2136 \let\@listdepth\@mplistdepth \@mplistdepth\z@
2137 \@minipagerestore
2138 \@setminipage}
2139 \def\@testpach#1{\@chclass \ifnum \@lastchclass=\tw@ 4 \else
2140 \ifnum \@lastchclass=3 5 \else
2141 \z@ \if #1c\@chnum \z@ \else
2142 \if #1\@chnum\@ #1 \z@ \else
2143 \if \if@RTLtab#1r\else#1l\fi\@chnum \@one \else
2144 \if \if@RTLtab#1 \else#1 \fi\@chnum \@one \else
2145 \if \if@RTLtab#1l\else#1r\fi\@chnum \tw@ \else
2146 \if \if@RTLtab#1 \else#1 \fi\@chnum \tw@ \else
2147 \@chclass \if #1\@one \else
2148 \if #1\@tw@ \else
2149 \if #1p3 \else
2150 \if 3 #1 \else \z@ \@preamerr 0\fi

```



```

2151 \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi
2152 \fi}%
2153 }{}
2154 \ifdefinitionfileloaded{array-xetex-bidi}{%
2155 \def\@testpach{\@chclass
2156 \ifnum \@lastchclass=6 \@ne \@chnum \@ne \else
2157 \ifnum \@lastchclass=7 5 \else
2158 \ifnum \@lastchclass=8 \tw@ \else
2159 \ifnum \@lastchclass=9 \thr@@
2160 \else \z@
2161 \ifnum \@lastchclass = 10 \else
2162 \edef\@nextchar{\expandafter\string\@nextchar}%
2163 \@chnum
2164 \if \@nextchar c\z@ \else
2165 \if \@nextchar @\ \else
2166 \if \@nextchar \if@RTLtab r\else l\fi\@ne \else
2167 \if \@nextchar \if@RTLtab else\ fi\@ne\ \else
2168 \if \@nextchar \if@RTLtab l\else r\fi\@tw@ \else
2169 \if \@nextchar \if@RTLtab else\ @fi\@tw\ \else
2170 \z@ \@chclass
2171 \if \@nextchar |\@ne \else
2172 \if \@nextchar !6 \else
2173 \if \@nextchar @7 \else
2174 \if \@nextchar <8 \else
2175 \if \@nextchar >9 \else
2176 10
2177 \@chnum
2178 \if \@nextchar m\thr@@\else
2179 \if \@nextchar thr@@\else\
2180 \if \@nextchar p4 \else
2181 \if \@nextchar 4 \else
2182 \if \@nextchar b5 \else
2183 \if \@nextchar 5 \else
2184 \z@ \@chclass \z@ \@preamerr \z@ \fi \fi \fi \fi \fi \fi \fi
2185 \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi}%
2186 }{}
2187 \ifdefinitionfileloaded{arydshln-xetex-bidi}{
2188 \ifadl@usingarypkg
2189 \def\@testpach{\@chclass
2190 \ifnum \@lastchclass=6 \@ne \@chnum \@ne \else
2191 \ifnum \@lastchclass=7 5 \else
2192 \ifnum \@lastchclass=8 \tw@ \else
2193 \ifnum \@lastchclass=9 \thr@@
2194 \else \z@
2195 \ifnum \@lastchclass = 10 \else
2196 \edef\@nextchar{\expandafter\string\@nextchar}%
2197 \@chnum
2198 \if \@nextchar c\z@ \else
2199 \if \@nextchar @\ \else
2200 \if \@nextchar \if@RTLtab r\else l\fi\@ne \else

```



```

2201 \if \@nextchar \if@RTLtab else\ fi\@ne\ \else
2202 \if \@nextchar \if@RTLtab l\else r\fi\@tw\ \else
2203 \if \@nextchar \if@RTLtab else\ @fi\@tw\ \else
2204 \z@ \@chclass
2205 \if \@nextchar |\@ne \let\@arrayrule\adl@arrayrule \else
2206 \if \@nextchar : \@ne \let\@arrayrule\adl@arraydashrule \else
2207 \if \@nextchar ; \@ne \let\@arrayrule\adl@argarraydashrule \else
2208 \if \@nextchar !6 \else
2209 \if \@nextchar @7 \else
2210 \if \@nextchar <8 \else
2211 \if \@nextchar >9 \else
2212 10
2213 \@chnum
2214 \if \@nextchar m\thr@@\else
2215 \if \@nextchar thr@@\else\
2216 \if \@nextchar p4 \else
2217 \if \@nextchar 4 \else
2218 \if \@nextchar b5 \else
2219 \if \@nextchar 5 \else
2220 \z@ \@chclass \z@ \@preamerr \z@ \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi
2221 \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi
2222
2223 \def\@classz{\@classx
2224 \@tempcnta \count@
2225 \prepnext@tok
2226 \@addtopreamble{\ifcase \@chnum
2227 \hfil
2228 \adl@putlrc{\d@llarbegin \insert@column \d@llarend}\hfil \or
2229 \hskip1sp\adl@putlrc{\d@llarbegin \insert@column \d@llarend}\hfil \or
2230 \hfil\hskip1sp\adl@putlrc{\d@llarbegin \insert@column \d@llarend}\or
2231 \setbox\adl@box\hbox \adl@startmbox{\@nextchar}\insert@column
2232 \adl@endmbox\or
2233 \setbox\adl@box\vtop \@startpbox{\@nextchar}\insert@column \@endpbox \or
2234 \setbox\adl@box\vbox \@startpbox{\@nextchar}\insert@column \@endpbox
2235 \fi}\prepnext@tok}
2236 \def\adl@class@start{4}
2237 \def\adl@class@iiiorvii{7}
2238
2239 \else
2240 \def\@testpach#1{\@chclass \ifnum \@lastchclass=\@tw@ 4\relax \else
2241 \ifnum \@lastchclass=\@thr@@ 5\relax \else
2242 \z@ \if #1c\@chnum \z@ \else
2243 \if \@chnum\z@\ #1 \else
2244 \if \if@RTLtab#1r\else#1l\fi\@chnum \@ne \else
2245 \if \if@RTLtab#1 \else#1 \fi\@chnum \@ne \else
2246 \if \if@RTLtab#1l\else#1r\fi\@chnum \@tw@ \else
2247 \if \if@RTLtab#1 \else#1 \fi\@chnum \@tw@ \else
2248 \@chclass
2249 \if #1|\@ne \let\@arrayrule\adl@arrayrule \else
2250 \if #1:\@ne \let\@arrayrule\adl@arraydashrule \else

```



```

2251         \if #1;\@ne \let\@arrayrule\adl@argarraydashrule \else
2252         \if #1@tw@ \else
2253         \if #1p\thr@@ \else
2254         \if @@thr\ #1 \else\z@ \@preamerr 0\fi
2255 \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi}
2256
2257 \def\@arrayclassz{\ifcase \@lastchclass \@acolampacol \or \@ampacol \or
2258 \or \or \@addamp \or
2259 \@acolampacol \or \@firstampfalse \@acol \fi
2260 \edef\@preamble{\@preamble
2261 \ifcase \@chnum
2262 \hfil\adl@putlrc{\$relax\@sharp$}\hfil
2263 \or \adl@putlrc{\$relax\@sharp$}\hfil
2264 \or \hfil\adl@putlrc{\$relax\@sharp$}\fi}}
2265 \def\@tabclassz{\ifcase \@lastchclass \@acolampacol \or \@ampacol \or
2266 \or \or \@addamp \or
2267 \@acolampacol \or \@firstampfalse \@acol \fi
2268 \edef\@preamble{\@preamble
2269 \ifcase \@chnum
2270 \hfil\adl@putlrc{\@sharp\unskip}\hfil
2271 \or \adl@putlrc{\@sharp\unskip}\hfil
2272 \or \hfil\hskip\z@ \adl@putlrc{\@sharp\unskip}\fi}}
2273 \def\adl@class@start{6}
2274 \def\adl@class@iiiorvii{3}
2275 \fi
2276 }{}
2277 \@ifdefinitionfileloaded{tabulary-xetex-bidi}{%
2278 \def\@testpach{\@chclass
2279 \ifnum \@lastchclass=6 \@ne \@chnum \@ne \else
2280 \ifnum \@lastchclass=7 5 \else
2281 \ifnum \@lastchclass=8 \tw@ \else
2282 \ifnum \@lastchclass=9 \thr@@
2283 \else \z@
2284 \ifnum \@lastchclass = 10 \else
2285 \edef\@nextchar{\expandafter\string\@nextchar}%
2286 \@chnum
2287 \if \@nextchar c\z@ \else
2288 \if \@nextchar @z\ \else
2289 \if \@nextchar \if@RTLtab r\else l\fi\@ne \else
2290 \if \@nextchar \if@RTLtab else\ fi\@ne\ \else
2291 \if \@nextchar \if@RTLtab l\else r\fi\@tw@ \else
2292 \if \@nextchar \if@RTLtab else\ @fi\@tw\ \else
2293 \if \@nextchar C7 \else
2294 \if \@nextchar 7 \else
2295 \if \@nextchar L8 \else
2296 \if \@nextchar 8 \else
2297 \if \@nextchar R9 \else
2298 \if \@nextchar 9 \else
2299 \if \@nextchar J10 \else
2300 \if \@nextchar 10 \else

```





```

2301 \z@ \@chclass  

2302 \if\@nextchar |\@ne \else  

2303 \if \@nextchar !6 \else  

2304 \if \@nextchar @7 \else  

2305 \if \@nextchar <8 \else  

2306 \if \@nextchar >9 \else  

2307 10  

2308 \@chnum  

2309 \if \@nextchar m\thr@@\else  

2310 \if \@nextchar thr@@\else\  

2311 \if \@nextchar p4 \else  

2312 \if \@nextchar4 \else  

2313 \if \@nextchar b5 \else  

2314 \if \@nextchar 5 \else  

2315 \z@ \@chclass \z@ \@preamerr \z@ \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi  

2316 \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi}%  

2317 }{}  

2318 \@ifdefinitionfileloaded{float-xetex-bidi}{%  

2319 \let\@float@Hx@\xfloat  

2320 \def\@xfloat#1[{\@ifnextchar{H}{\@float@HH#{1}}]{\@ifnextchar{{}\@float@{1#} []}{\@float@Hx{#1}  

2321 \def\@float@HH#1[H]}{%  

2322 \expandafter\let\csname end#1\endcsname\float@endH  

2323 \let\@currbox\float@box  

2324 \def\@capytpe{#1}\setbox\@floatcapt=\vbox{}%  

2325 \expandafter\ifx\csname fst@#1\endcsname\relax  

2326 \flstylefalse\else\flstyletrue\fi  

2327 \setbox\@currbox\color@vbox\normalcolor  

2328 \vbox\bgroup \hspace\columnwidth \@parboxrestore  

2329 \floatboxreset \@setnobreak  

2330 \ignorespaces}  

2331 \def\@float@[ ]1# {%  

2332 \expandafter\let\csname end#1\endcsname\float@endH  

2333 \let\@currbox\float@box  

2334 \def\@capytpe{#1}\setbox\@floatcapt=\vbox{}%  

2335 \expandafter\ifx\csname fst@#1\endcsname\relax  

2336 \flstylefalse\else\flstyletrue\fi  

2337 \setbox\@currbox\color@vbox\normalcolor  

2338 \vbox\bgroup \hspace\columnwidth \@parboxrestore  

2339 \floatboxreset \@setnobreak  

2340 \ignorespaces}  

2341 }{}  

2342 \begingroup \catcode `|=0 \catcode `[= 1  

2343 \catcode`=2 \catcode ``={12 \catcode ``}=12  

2344 \catcode``\=12 |gdef|@x\xepersian@localize@verbatim#1[[[]] |1#{ }]  

2345 |gdef|@sx\xepersian@localize@verbatim#1\[ [*] |1#{ *}]  

2346 \endgroup  

2347 \def { {\@verbatim \frenchspacing\@vobeyspaces \@x\xepersian@localize@verbatim}  

2348 \def\end { \if@newlist \leavevmode\fi\endtrivlist}  

2349 \ExplSyntaxOn  

2350 \AtBeginDocument{\@namedef{*}{\@verbatim \fontspec_print_visible_spaces: \@sx\xepersian@

```



```

2351 \ExplSyntaxOff
2352 \expandafter\let\csname end      *\endcsname =\end

```

## 7.42 natbib-xepersian.def

```

2353 \ProvidesFile{natbib-xepersian.def}[2011/08/01 v0.1 adaptations for natbib package]
2354 \renewcommand\NAT@set@cites{%
2355   \ifNAT@numbers
2356     \ifNAT@super \let\@cite\NAT@citesuper
2357       \def\NAT@mbox##1{\unskip\nobreak\textsuperscript{##1}}%
2358       \let\citeyearpar=\citeyear
2359       \let\NAT@space\relax
2360       \def\NAT@super@kern{\kern\p}%
2361     \else
2362       \let\NAT@mbox=\mbox
2363       \let\@cite\NAT@citenum
2364       \let\NAT@space\NAT@spacechar
2365       \let\NAT@super@kern\relax
2366     \fi
2367     \let\@citex\NAT@citexnum
2368     \let\@Latincitex\NAT@Latin@citexnum
2369     \let\@biblabel\NAT@biblabelnum
2370     \let\@bibsetup\NAT@bibsetnum
2371     \renewcommand\NAT@idxtxt{\NAT@name\NAT@spacechar\NAT@open\NAT@num\NAT@close}%
2372     \def\natexlab##1{%
2373       \def\NAT@penalty{\penalty\@m}%
2374     \else
2375       \let\@cite\NAT@cite
2376       \let\@citex\NAT@citex
2377       \let\@Latincitex\NAT@Latin@citex
2378       \let\@biblabel\NAT@biblabel
2379       \let\@bibsetup\NAT@bibsetup
2380       \let\NAT@space\NAT@spacechar
2381       \let\NAT@penalty\@empty
2382       \renewcommand\NAT@idxtxt{\NAT@name\NAT@spacechar\NAT@open\NAT@date\NAT@close}%
2383       \def\natexlab##1{##1}%
2384     \fi}
2385 \newcommand\NAT@Latin@citex{
2386 \def\NAT@Latin@citex%
2387   [#1][#2]#3{%
2388   \NAT@reset@parser
2389   \NAT@sort@cites{#3}%
2390   \NAT@reset@citea
2391   \@citef\lr{\let\NAT@nm\@empty\let\NAT@year\@empty
2392     \@for\@citeb:=\NAT@cite@list\do
2393       {\@safe@activetrue
2394         \edef\@citeb{\expandafter\@firstofone\@citeb\@empty}%
2395         \@safe@activesfalse
2396         \ifundefined{b@\@citeb\@extra@b\@citeb}{\@citea%
2397           {\reset@font\bfseries ?}\NAT@citeundefined

```



```

2398         \PackageWarning{natbib}%
2399 {Citation `@citeb' on page \thepage \space undefined}\def\NAT@date{}}%
2400 {\let\NAT@last@nm=\NAT@nm\let\NAT@last@yr=\NAT@year
2401 \NAT@parse{\@citeb}%
2402 \ifNAT@longnames\@ifundefined{bv@\@citeb\@extra@b@citeb}{%
2403 \let\NAT@name=\NAT@all@names
2404 \global\@namedef{bv@\@citeb\@extra@b@citeb}{}}{}%
2405 \fi
2406 \ifNAT@full\let\NAT@nm\NAT@all@names\else
2407 \let\NAT@nm\NAT@name\fi
2408 \ifNAT@swa\ifcase\NAT@ctype
2409 \if\relax\NAT@date\relax
2410 \@citea\NAT@hyper@{\NAT@nmfmt{\NAT@nm}\NAT@date}%
2411 \else
2412 \ifx\NAT@last@nm\NAT@nm\NAT@yrsep
2413 \ifx\NAT@last@yr\NAT@year
2414 \def\NAT@temp{}}}%
2415 \ifx\NAT@temp\NAT@exlab\PackageWarningNoLine{natbib}%
2416 {Multiple citation on page \thepage: same authors and
2417 year\MessageBreak without distinguishing extra
2418 letter,\MessageBreak appears as question mark}\fi
2419 \NAT@hyper@{\NAT@exlab}%
2420 \else\unskip\NAT@spacechar
2421 \NAT@hyper@{\NAT@date}%
2422 \fi
2423 \else
2424 \@citea\NAT@hyper@{%
2425 \NAT@nmfmt{\NAT@nm}%
2426 \hyper@natlinkbreak{%
2427 \NAT@aysep\NAT@spacechar}{\@citeb\@extra@b@citeb
2428 }%
2429 \NAT@date
2430 }%
2431 \fi
2432 \fi
2433 \or\@citea\NAT@hyper@{\NAT@nmfmt{\NAT@nm}}%
2434 \or\@citea\NAT@hyper@{\NAT@date}%
2435 \or\@citea\NAT@hyper@{\NAT@alias}%
2436 \fi \NAT@def@citea
2437 \else
2438 \ifcase\NAT@ctype
2439 \if\relax\NAT@date\relax
2440 \@citea\NAT@hyper@{\NAT@nmfmt{\NAT@nm}}%
2441 \else
2442 \ifx\NAT@last@nm\NAT@nm\NAT@yrsep
2443 \ifx\NAT@last@yr\NAT@year
2444 \def\NAT@temp{}}}%
2445 \ifx\NAT@temp\NAT@exlab\PackageWarningNoLine{natbib}%
2446 {Multiple citation on page \thepage: same authors and
2447 year\MessageBreak without distinguishing extra

```



```

2448         letter,\MessageBreak appears as question mark}\fi
2449         \NAT@hyper@{\NAT@exlab}%
2450     \else
2451         \unskip\NAT@spacechar
2452         \NAT@hyper@{\NAT@date}%
2453     \fi
2454 \else
2455     \citea\NAT@hyper@{%
2456         \NAT@nmfmt{\NAT@nm}%
2457     \hyper@natlinkbreak{\NAT@spacechar\NAT@@open\if*#1*\else#1\NAT@spacechar\fi}%
2458     {\@citeb\@extra@b@citeb}%
2459     \NAT@date
2460 }%
2461 \fi
2462 \fi
2463 \or\@citea\NAT@hyper@{\NAT@nmfmt{\NAT@nm}}%
2464 \or\@citea\NAT@hyper@{\NAT@date}%
2465 \or\@citea\NAT@hyper@{\NAT@alias}%
2466 \fi
2467 \if\relax\NAT@date\relax
2468     \NAT@def@citea
2469 \else
2470     \NAT@def@citea@close
2471 \fi
2472 \fi
2473 }}\ifNAT@swa\else\if*#2*\else\NAT@cmt#2\fi
2474 \if\relax\NAT@date\relax\else\NAT@@close\fi\fi}}{#1}{#2}}
2475 \newcommand\NAT@Latin@citexnum{}
2476 \def\NAT@Latin@citexnum[#1][#2]#3{%
2477     \NAT@reset@parser
2478     \NAT@sort@cites{#3}%
2479     \NAT@reset@citea
2480     \@cite{\lr{\def\NAT@num{-1}\let\NAT@last@yr\relax\let\NAT@nm\@empty
2481         \@for\@citeb:=\NAT@cite@list\do
2482         {\@safe@activestrue
2483             \edef\@citeb{\expandafter\@firstofone\@citeb\@empty}%
2484             \@safe@activesfalse
2485             \@ifundefined{b@\@citeb\@extra@b@citeb}{%
2486                 {\reset@font\bfseries?}
2487                 \NAT@citeundefined\PackageWarning{natbib}%
2488                 {Citation ``\@citeb' on page \thepage \space undefined}}%
2489             {\let\NAT@last@num\NAT@num\let\NAT@last@nm\NAT@nm
2490                 \NAT@parse{\@citeb}%
2491                 \ifNAT@longnames\@ifundefined{bv@\@citeb\@extra@b@citeb}{%
2492                     \let\NAT@name=\NAT@all@names
2493                     \global\@namedef{bv@\@citeb\@extra@b@citeb}{}}{}}%
2494             \fi
2495             \ifNAT@full\let\NAT@nm\NAT@all@names\else
2496                 \let\NAT@nm\NAT@name\fi
2497             \ifNAT@swa

```



```

2498 \ifnum{\NAT@ctype>\@ne}{%
2499 \citea
2500 \NAT@hyper@{\ifnum{\NAT@ctype=\tw@}{\NAT@test{\NAT@ctype}}{\NAT@alias}}%
2501 }{%
2502 \ifnum{\NAT@cmprs>\z@}{%
2503 \NAT@ifcat@num\NAT@num
2504 {\let\NAT@nm=\NAT@num}%
2505 {\def\NAT@nm{-2}}%
2506 \NAT@ifcat@num\NAT@last@num
2507 {\@tempcnta=\NAT@last@num\relax}%
2508 {\@tempcnta\m@ne}%
2509 \ifnum{\NAT@nm=\@tempcnta}{%
2510 \ifnum{\NAT@merge>\@ne}{\NAT@last@yr@mbbox}%
2511 }{%
2512 \advance\@tempcnta by\@ne
2513 \ifnum{\NAT@nm=\@tempcnta}{%
2514 \ifx\NAT@last@yr\relax
2515 \def\NAT@last@yr{\citea}%
2516 \else
2517 \def\NAT@last@yr{--\NAT@penalty}%
2518 \fi
2519 }{%
2520 \NAT@last@yr@mbbox
2521 }%
2522 }%
2523 }{%
2524 \@tempswatrue
2525 \ifnum{\NAT@merge>\@ne}{\ifnum{\NAT@last@num=\NAT@num\relax}{\@tempswafalse}{}}{%
2526 \if@tempswa\NAT@citea@mbbox\fi
2527 }%
2528 }%
2529 \NAT@def@citea
2530 \else
2531 \ifcase\NAT@ctype
2532 \ifx\NAT@last@nm\NAT@nm \NAT@yrsep\NAT@penalty\NAT@space\else
2533 \citea \NAT@test{\@ne}\NAT@spacechar\NAT@mbbox{\NAT@super@kern\NAT@open}%
2534 \fi
2535 \if*#1*\else#1\NAT@spacechar\fi
2536 \NAT@mbbox{\NAT@hyper@{\citenumfont{\NAT@num}}}%
2537 \NAT@def@citea@box
2538 \or
2539 \NAT@hyper@citea@space{\NAT@test{\NAT@ctype}}%
2540 \or
2541 \NAT@hyper@citea@space{\NAT@test{\NAT@ctype}}%
2542 \or
2543 \NAT@hyper@citea@space\NAT@alias
2544 \fi
2545 \fi
2546 }%
2547 }%

```



```

2548 \ifnum{\NAT@cmprs>\z@}{\NAT@last@yr}{}%
2549 \ifNAT@swa\else
2550 \ifnum{\NAT@ctype=\z@}{%
2551 \if*#2*\else\NAT@cmt#2\fi
2552 }{%
2553 \NAT@mbox{\NAT@@close}%
2554 \fi
2555 }{#1}{#2}%
2556 }%
2557 \AtBeginDocument{\NAT@set@cites}
2558 \DeclareRobustCommand\Latincite
2559 {\begingroup\let\NAT@ctype\z@\NAT@partrue\NAT@swatru
2560 \ifstar{\NAT@fulltrue\NAT@Latin@cites}{\NAT@fullfalse\NAT@Latin@cites}}
2561 \newcommand\NAT@Latin@cites{\ifnextchar [{\NAT@Latin@@citetp}{%
2562 \ifNAT@numbers\else
2563 \NAT@swafalse
2564 \fi
2565 \NAT@@Latin@@citetp[]}}
2566 \newcommand\NAT@@Latin@@citetp{}
2567 \def\NAT@@Latin@@citetp[#1]{\ifnextchar [{\@Latincitex[#1]}{\@Latincitex[] [#1]}}

```

### 7.43 packages-localise-xepersian.def

```

2568 packages} \-localise-xepersian.def}[2013/04/24 v0.2 localising LaTeX2e Packages]
2569 color} \}{color} @\-localise-xepersian.def}}{}
2570 \ifpackageloaded{multicol}{%
2571 \newenvironment{ }{\begin{multicols}}{\end{multicols}}%
2572 \newenvironment{ *}{\begin{multicols*}}{\end{multicols*}}%
2573 }{}
2574 \ifpackageloaded{verbatim}{%
2575 \begingroup
2576 \vrb@catcodes
2577 \lccode`!=`\\ \lccode`\[=`{\ \lccode`\[=`{
2578 \catcode`~=\active \lccode`~=\^~M
2579 \lccode`\C=`\C
2580 \lowercase{\endgroup
2581 \def\xepersian@localize@verbatim@start#1{%
2582 \verbatim@startline
2583 \if\noexpand#1\noexpand~%
2584 \let\next\xepersian@localize@verbatim@
2585 \else \def\next{\xepersian@localize@verbatim@#1}\fi
2586 \next}%
2587 \def\xepersian@localize@verbatim@#1~{\xepersian@localize@verbatim@@#1! \@nil}%
2588 \def\xepersian@localize@verbatim@@#1! {%
2589 \verbatim@addtoline{#1}%
2590 \futurelet\next\xepersian@localize@verbatim@@@}%
2591 \def\xepersian@localize@verbatim@@@#1\@nil{%
2592 \ifx\next\@nil
2593 \verbatim@processline
2594 \verbatim@startline

```



```

2595         \let\next\xepersian@localize@verbatim@
2596     \else
2597         \def\@tempa##1!    \@nil{##1}%
2598         \@temptokena{!    }%
2599     \def\next{\expandafter\xepersian@localize@verbatim@test\@tempa#1\@nil~}%
2600     \fi \next}%
2601 \def\xepersian@localize@verbatim@test#1{%
2602     \let\next\xepersian@localize@verbatim@test
2603     \if\noexpand#1\noexpand~%
2604         \expandafter\verbatim@addtoline
2605         \expandafter{\the\@temptokena}%
2606         \verbatim@processline
2607         \verbatim@startline
2608         \let\next\xepersian@localize@verbatim@
2609     \else \if\noexpand#1
2610         \@temptokena\expandafter{\the\@temptokena#1}%
2611     \else \if\noexpand#1\noexpand[%
2612         \let\@tempc\@empty
2613         \let\next\xepersian@localize@verbatim@testend
2614     \else
2615         \expandafter\verbatim@addtoline
2616         \expandafter{\the\@temptokena}%
2617         \def\next{\xepersian@localize@verbatim@#1}%
2618     \fi\fi\fi
2619     \next}%
2620 \def\xepersian@localize@verbatim@testend#1{%
2621     \if\noexpand#1\noexpand~%
2622         \expandafter\verbatim@addtoline
2623         \expandafter{\the\@temptokena[]}%
2624         \expandafter\verbatim@addtoline
2625         \expandafter{\@tempc}%
2626         \verbatim@processline
2627         \verbatim@startline
2628         \let\next\xepersian@localize@verbatim@
2629     \else\if\noexpand#1\noexpand[%
2630         \let\next\xepersian@localize@verbatim@@testend
2631     \else\if\noexpand#1\noexpand!%
2632         \expandafter\verbatim@addtoline
2633         \expandafter{\the\@temptokena[]}%
2634         \expandafter\verbatim@addtoline
2635         \expandafter{\@tempc}%
2636         \def\next{\xepersian@localize@verbatim@!}%
2637     \else \expandafter\def\expandafter\@tempc\expandafter
2638         {\@tempc#1}\fi\fi\fi
2639     \next}%
2640 \def\xepersian@localize@verbatim@@testend{%
2641     \ifx\@tempc\@currenvir
2642         \verbatim@finish
2643     \edef\next{\noexpand\end{\@currenvir}}%
2644         \noexpand\xepersian@localize@verbatim@rescan{\@currenvir}}}%

```



```

2645 \else
2646 \expandafter\verbatim@addtoline
2647 \expandafter{\the\@temptokena}%
2648 \expandafter\verbatim@addtoline
2649 \expandafter{\@tempc}}%
2650 \let\next\xepersian@localize@verbatim@
2651 \fi
2652 \next}%
2653 \def\xepersian@localize@verbatim@rescan#1#2~{\if\noexpand~\noexpand#2~\else
2654 \warning{Characters dropped after `\'string\end{#1}'}\fi}}%
2655 \def\ { \begingroup\@verbatim \frenchspacing\@vobeyspaces
2656 \xepersian@localize@verbatim@start}
2657 \@namedef{ *}{\begingroup\@verbatim\xepersian@localize@verbatim@start}
2658 \def\end { \endtrivlist\endgroup\@doendpe}
2659 \expandafter\let\csname end * \endcsname =\end
2660 }{}
2661 \ExplSyntaxOn
2662 \AtBeginDocument{
2663 \xepersian_localize_patch_verbatim:
2664 }
2665 \cs_set:Npn \xepersian_localize_patch_verbatim: {
2666 \@ifpackageloaded{verbatim}{
2667 \cs_set:cpn {* } }
2668 \group_begin: \@verbatim \fontspec_print_visible_spaces: \xepersian@localize@verbatim@start
2669 }
2670 }{
2671 }
2672 }
2673 \ExplSyntaxOff
2674 \@ifpackageloaded{graphicx}{%
2675 \def\Gin@boolkey#1#2{%
2676 \expandafter\@ifdefinable \csname Gin@#2 \endcsname{%
2677 \expandafter\let\csname Gin@#2 \expandafter\endcsname\csname Gin@#2true\endcsname}%
2678 \expandafter\@ifdefinable \csname Gin@#2 \endcsname{%
2679 \expandafter\let\csname Gin@#2 \expandafter\endcsname\csname Gin@#2false\endcsname}%
2680 \csname Gin@#2\ifx\relax#1\relax true\else#1\fi\endcsname}
2681 \define@key{Grot}{origin}[c]{%
2682 \@tfor\@tempa:=#1\do{%
2683 \if l\@tempa \Grot@x\z@\else
2684 \if tempa@ \Grot@x\z@\else
2685 \if r\@tempa \Grot@x\width\else
2686 \if tempa@ \Grot@x\width\else
2687 \if t\@tempa \Grot@y\height\else
2688 \if tempa@ \Grot@y\height\else
2689 \if b\@tempa \Grot@y-\depth\else
2690 \if tempa@ \Grot@y-\depth\else
2691 \if B\@tempa \Grot@y\z@\else
2692 \if tempa@ \Grot@y\z@\fi\fi\fi\fi\fi\fi\fi\fi\fi\fi}}
2693 {draft}{ }{Gin} @ \
2694 {origin}{ }{Gin} @ \

```





```

2695 {origin}{ }{Grot} @ \
2696 {clip}{ }{Gin} @ \
2697 {keepaspectratio}{ }{Gin} @ \
2698 {natwidth}{ }{Gin} @ \
2699 {natheight}{ }{Gin} @ \
2700 {bb}{ }{Gin} @ \
2701 {viewport}{ }{Gin} @ \
2702 {trim}{ }{Gin} @ \
2703 {angle}{ }{Gin} @ \
2704 {width}{ }{Gin} @ \
2705 {height}{ }{Gin} @ \
2706 {totalheight}{ }{Gin} @ \
2707 {scale}{ }{Gin} @ \
2708 {type}{ }{Gin} @ \
2709 {ext}{ }{Gin} @ \
2710 {read}{ }{Gin} @ \
2711 {command}{ }{Gin} @ \
2712 {x}{ }{Grot} @ \
2713 {y}{ }{Grot} @ \
2714 {units}{ }{Grot} @ \
2715 {}

```

## 7.44 parsidigits.map

```

2716 LHSName "Digits"
2717 RHSName "ParsiDigits"
2718
2719 pass(Unicode)
2720 U+0030 <> U+06F0 ;
2721 U+0031 <> U+06F1 ;
2722 U+0032 <> U+06F2 ;
2723 U+0033 <> U+06F3 ;
2724 U+0034 <> U+06F4 ;
2725 U+0035 <> U+06F5 ;
2726 U+0036 <> U+06F6 ;
2727 U+0037 <> U+06F7 ;
2728 U+0038 <> U+06F8 ;
2729 U+0039 <> U+06F9 ;
2730
2731
2732 U+002C <> U+060C ; comma > arabic comma
2733 U+003F <> U+061F ; question mark -> arabic qm
2734 U+003B <> U+061B ; semicolon -> arabic semicolon
2735
2736 ; ligatures from Knuth's original CMR fonts
2737 U+002D U+002D <> U+2013 ; -- -> en dash
2738 U+002D U+002D U+002D <> U+2014 ; --- -> em dash
2739
2740 U+0027 <> U+2019 ; ' -> right single quote
2741 U+0027 U+0027 <> U+201D ; '' -> right double quote

```



```

2742 U+0022 > U+201D ; " -> right double quote
2743
2744 U+0060 <> U+2018 ; ` -> left single quote
2745 U+0060 U+0060 <> U+201C ; `` -> left double quote
2746
2747 U+0021 U+0060 <> U+00A1 ; !` -> inverted exclamation
2748 U+003F U+0060 <> U+00BF ; ?` -> inverted question
2749
2750 ; additions supported in T1 encoding
2751 U+002C U+002C <> U+201E ; ,, -> DOUBLE LOW-9 QUOTATION MARK
2752 U+003C U+003C <> U+00AB ; << -> LEFT POINTING GUILLEMET
2753 U+003E U+003E <> U+00BB ; >> -> RIGHT POINTING GUILLEMET

```

## 7.45 rapport1-xepersian.def

```

2754 \ProvidesFile{rapport1-xepersian.def}[2010/07/25 v0.1 adaptations for rapport1 class]
2755 \renewcommand*\thepart{\@tartibi\c@part}
2756 \renewcommand*\appendix{\par
2757   \setcounter{chapter}{0}%
2758   \setcounter{section}{0}%
2759   \gdef\@chapapp{\appendixname}%
2760   \gdef\thechapter{\@harfi\c@chapter}}

```

## 7.46 rapport3-xepersian.def

```

2761 \ProvidesFile{rapport3-xepersian.def}[2010/07/25 v0.2 adaptations for rapport3 class]
2762 \renewcommand*\thepart{\@tartibi\c@part}
2763 \renewcommand*\appendix{\par
2764   \setcounter{chapter}{0}%
2765   \setcounter{section}{0}%
2766   \gdef\@chapapp{\appendixname}%
2767   \gdef\thechapter{\@harfi\c@chapter}}

```

## 7.47 refrep-xepersian.def

```

2768 \ProvidesFile{refrep-xepersian.def}[2010/07/25 v0.2 adaptations for refrep class]
2769 \renewcommand \thepart {\@tartibi\c@part}
2770 \renewcommand\appendix{\par
2771   \setcounter{chapter}{0}%
2772   \setcounter{section}{0}%
2773   \gdef\@chapapp{\appendixname}%
2774   \gdef\thechapter{\@harfi\c@chapter}
2775 }%end appendix

```

## 7.48 report-xepersian.def

```

2776 \ProvidesFile{report-xepersian.def}[2010/07/25 v0.2 adaptations for standard report class]
2777 \renewcommand \thepart {\@tartibi\c@part}
2778 \renewcommand\appendix{\par
2779   \setcounter{chapter}{0}%
2780   \setcounter{section}{0}%
2781   \gdef\@chapapp{\appendixname}%
2782   \gdef\thechapter{\@harfi\c@chapter}

```



```
2783 }%end appendix
```

## 7.49 scrartcl-xepersian.def

```
2784 \ProvidesFile{scrartcl-xepersian.def}[2010/07/25 v0.2 adaptations for scrartcl class]
2785 \renewcommand*{\thepart}{\@tartibi\c@part}
2786 \renewcommand*{\appendix}{\par%
2787   \setcounter{section}{0}%
2788   \setcounter{subsection}{0}%
2789   \gdef\thesection{\@harfi\c@section}%
2790   \csname appendixmore\endcsname
2791 }
2792 \renewcommand*{\@maybeautodot}[1]{%
2793   \ifx #1\@stop\let\@maybeautodot\relax
2794   \else
2795     \ifx #1\harfi \@autodottrue\fi
2796     \ifx #1\adadi \@autodottrue\fi
2797     \ifx #1\tartibi \@autodottrue\fi
2798     \ifx #1\Alph \@autodottrue\fi
2799     \ifx #1\alph \@autodottrue\fi
2800     \ifx #1\Roman \@autodottrue\fi
2801     \ifx #1\roman \@autodottrue\fi
2802     \ifx #1\@harfi \@autodottrue\fi
2803     \ifx #1\@adadi \@autodottrue\fi
2804     \ifx #1\@tartibi \@autodottrue\fi
2805     \ifx #1\@Alph \@autodottrue\fi
2806     \ifx #1\@alph \@autodottrue\fi
2807     \ifx #1\@Roman \@autodottrue\fi
2808     \ifx #1\@roman \@autodottrue\fi
2809     \ifx #1\romannumeral \@autodottrue\fi
2810   \fi
2811   \@maybeautodot
2812 }
```

## 7.50 scrbook-xepersian.def

```
2813 \ProvidesFile{scrbook-xepersian.def}[2010/07/25 v0.2 adaptations for scrbook class]
2814 \renewcommand*{\frontmatter}{%
2815   \if@twoside\cleardoubleoddpage\else\clearpage\fi
2816   \@mainmatterfalse\pagenumbering{\harfi}%
2817 }
2818 \renewcommand*{\thepart}{\@tartibi\c@part}
2819 \renewcommand*{\appendix}{\par%
2820   \setcounter{chapter}{0}%
2821   \setcounter{section}{0}%
2822   \gdef\chapapp{\appendixname}%
2823   \gdef\thechapter{\@harfi\c@chapter}%
2824   \csname appendixmore\endcsname
2825 }
2826 \renewcommand*{\@maybeautodot}[1]{%
2827   \ifx #1\@stop\let\@maybeautodot\relax
```



```

2828 \else
2829 \ifx #1\harfi \@autodottrue\fi
2830 \ifx #1\adadi \@autodottrue\fi
2831 \ifx #1\tartibi \@autodottrue\fi
2832 \ifx #1\Alph \@autodottrue\fi
2833 \ifx #1\alph \@autodottrue\fi
2834 \ifx #1\Roman \@autodottrue\fi
2835 \ifx #1\roman \@autodottrue\fi
2836 \ifx #1\@harfi \@autodottrue\fi
2837 \ifx #1\@adadi \@autodottrue\fi
2838 \ifx #1\@tartibi \@autodottrue\fi
2839 \ifx #1\@Alph \@autodottrue\fi
2840 \ifx #1\@alph \@autodottrue\fi
2841 \ifx #1\@Roman \@autodottrue\fi
2842 \ifx #1\@roman \@autodottrue\fi
2843 \ifx #1\romannumeral \@autodottrue\fi
2844 \fi
2845 \@maybeautodot
2846 }

```

## 7.51 scrreprt-xepersian.def

```

2847 \ProvidesFile{scrreprt-xepersian.def}[2010/07/25 v0.2 adaptations for scrreprt class]
2848 \renewcommand*{\thepart}{\@tartibi\c@part}
2849 \renewcommand*\appendix{\par%
2850 \setcounter{chapter}{0}%
2851 \setcounter{section}{0}%
2852 \gdef\@chapapp{\appendixname}%
2853 \gdef\thechapter{\@harfi\c@chapter}%
2854 \csname appendixmore\endcsname
2855 }
2856 \renewcommand*{\@maybeautodot}[1]{%
2857 \ifx #1\@stop\let\@maybeautodot\relax
2858 \else
2859 \ifx #1\harfi \@autodottrue\fi
2860 \ifx #1\adadi \@autodottrue\fi
2861 \ifx #1\tartibi \@autodottrue\fi
2862 \ifx #1\Alph \@autodottrue\fi
2863 \ifx #1\alph \@autodottrue\fi
2864 \ifx #1\Roman \@autodottrue\fi
2865 \ifx #1\roman \@autodottrue\fi
2866 \ifx #1\@harfi \@autodottrue\fi
2867 \ifx #1\@adadi \@autodottrue\fi
2868 \ifx #1\@tartibi \@autodottrue\fi
2869 \ifx #1\@Alph \@autodottrue\fi
2870 \ifx #1\@alph \@autodottrue\fi
2871 \ifx #1\@Roman \@autodottrue\fi
2872 \ifx #1\@roman \@autodottrue\fi
2873 \ifx #1\romannumeral \@autodottrue\fi
2874 \fi

```



```

2875 \@@maybeautodot
2876 }

```

## 7.52 tkz-linknodes-xepersian.def

```

2877 \ProvidesFile{tkz-linknodes-xepersian.def}[2012/06/13 v0.1 adaptations for tkz-linknodes package]
2878 \renewcommand*{\@SetTab}{%
2879 \let\@alph\@latalph%
2880 \ifnum \value{C@NumTab}>25\relax%
2881 \setcounter{C@NumTab}{1}%
2882 \else%
2883 \stepcounter{C@NumTab}%
2884 \fi%
2885 \setcounter{C@NumGroup}{0}%
2886 \newcommand*{\PrefixCurrentTab}{\alph{C@NumTab}}
2887 \setboolean{B@FirstLink}{true}
2888 \setboolean{B@NewGroup}{false}
2889 \setcounter{C@NumGroup}{0}
2890 \setcounter{C@CurrentGroup}{0}
2891 \setcounter{NumC@Node}{0}
2892 \setcounter{NumC@stop}{0}
2893 \setcounter{C@NextNode}{0}
2894 \setcounter{C@CurrentStop}{0}
2895 \setcounter{C@CurrentNode}{0}
2896 }%

```

## 7.53 tocloft-xepersian.def

```

2897 \ProvidesFile{tocloft-xepersian.def}[2010/07/25 v0.1 bilingual captions for tocloft package]
2898 \renewcommand*{\cftchapname}{\if@RTL else\ chapter\fi}
2899 \renewcommand*{\cftsecname}{\if@RTL else\ section\fi}
2900 \renewcommand*{\cftsubsecname}{\if@RTL else\ subsection\fi}
2901 \renewcommand*{\cftsubsubsecname}{\if@RTL else\ subsubsection\fi}
2902 \renewcommand*{\cftparaname}{\if@RTL else\ paragraph\fi}
2903 \renewcommand*{\cftsubparaname}{\if@RTL else\ subparagraph\fi}
2904 \renewcommand*{\cftfigname}{\if@RTL else\ figure\fi}
2905 \renewcommand*{\cftsubfigname}{\if@RTL else\ subfigure\fi}
2906 \renewcommand*{\cfttabname}{\if@RTL else\ table\fi}
2907 \renewcommand*{\cftsubtabname}{\if@RTL else\ subtable\fi}

```

## 7.54 xepersian.sty

```

2908 \NeedsTeXFormat{LaTeX2e}
2909 \def\xepersianversion{v15.7}
2910 \def\xepersiandate{2014/12/28}
2911 \ProvidesPackage{xepersian}[\xepersiandate\space \xepersianversion\space
2912 Persian typesetting in XeLaTeX]
2913 \RequirePackage{fontspec}
2914 \RequirePackage{xepersian-persiancal}
2915 \RequirePackage{xepersian-mathsdigitspec}
2916 \RequirePackage{bidi}
2917 \edef\@xepersian@info{*****~J%

```



```

2918 * ^^J%
2919 * xepersian package (Persian for LaTeX, using XeTeX engine)^J%
2920 * ^^J%
2921 * Description: The package supports Persian^^J%
2922 * typesetting, using fonts provided in the^^J%
2923 * distribution.^^J%
2924 * ^^J%
2925 * Copyright © 2008-2014 Vafa Khalighi^^J%
2926 * ^^J%
2927 * \xepersianversion, \xepersiandate^^J%
2928 * ^^J%
2929 * License: LaTeX Project Public License, version^^J%
2930 * 1.3c or higher (your choice)^J%
2931 * ^^J%
2932 * Location on CTAN: /macros/xetex/latex/xepersian^^J%
2933 * ^^J%
2934 * Issue tracker: https://github.com/persian-tex/xepersian/issues^^J%
2935 * ^^J%
2936 * Support: persian-tex@tug.org^^J%
2937 *****}
2938 \typeout{\@xepersian@info}
2939 \edef\xepersian@everyjob{\the\everyjob}
2940 \everyjob{\xepersian@everyjob\typeout{\@xepersian@info}}
2941 \def\prq{«}
2942 \def\plq{»}
2943 \def\xepersian@cmds@temp#1{%
2944   \begingroup\expandafter\expandafter\expandafter\endgroup
2945   \expandafter\ifx\csname xepersian@#1\endcsname\relax
2946     \begingroup
2947       \escapechar=-1 %
2948       \edef\x{\expandafter\meaning\csname#1\endcsname}%
2949       \def\y{#1}%
2950       \def\z##1->{%}%
2951       \edef\y{\expandafter\z\meaning\y}%
2952       \expandafter\endgroup
2953       \ifx\x\y
2954         \expandafter\def\csname xepersian@#1\expandafter\endcsname
2955           \expandafter{%
2956             \csname#1\endcsname
2957           }%
2958       \fi
2959   \fi
2960 }%
2961 \xepersian@cmds@temp{shellescape}
2962 \newif\ifwritexviii
2963 \ifnum\xepersian@shellescape=1\relax
2964   \writexviii>true
2965 \else
2966   \writexviii>false
2967 \fi

```



```

2968 \newfontscript{Parsi}{arab}
2969 \newfontlanguage{Parsi}{FAR}
2970 \ExplSyntaxOn
2971 \DeclareDocumentCommand \settextfont { 0{} m 0{} }
2972 {
2973   \fontspec_set_family:cnn { g__fontspec_ \cs_to_str:N \persianfont _family } {Script=Parsi,Lang
2974   \use:x
2975   {
2976     \exp_not:N \DeclareRobustCommand \exp_not:N \persianfont
2977     {
2978       \exp_not:N \fontencoding {\g_fontspec_encoding_tl}
2979       \exp_not:N \fontfamily { \use:c {g__fontspec_ \cs_to_str:N \persianfont _family} } \exp_not:N \
2980     }
2981   }
2982   \cs_set_eq:NN \rmdefault \l_fontspec_family_tl
2983   \normalfont
2984 }
2985 \DeclareDocumentCommand \setlatintextfont { 0{} m 0{} }
2986 {
2987   \fontspec_set_family:cnn { g__fontspec_ \cs_to_str:N \latinfont _family } {Mapping=tex-text,#1,
2988   \use:x
2989   {
2990     \exp_not:N \DeclareRobustCommand \exp_not:N \latinfont
2991     {
2992       \exp_not:N \fontencoding {\g_fontspec_encoding_tl}
2993       \exp_not:N \fontfamily { \use:c {g__fontspec_ \cs_to_str:N \latinfont _family} } \exp_not:N \
2994     }
2995   }
2996 }
2997 \cs_set_eq:NN \setlatinsansfont \setsansfont
2998 \cs_set_eq:NN \setlatinmonofont \setmonofont
2999 \DeclareDocumentCommand \defpersianfont { m 0{} m 0{} }
3000 {
3001   \fontspec_set_family:cnn { g__fontspec_ \cs_to_str:N #1 _family } {Script=Parsi,Language=Parsi,
3002   \use:x
3003   {
3004     \exp_not:N \DeclareRobustCommand \exp_not:N #1
3005     {
3006       \exp_not:N \fontencoding {\g_fontspec_encoding_tl}
3007       \exp_not:N \fontfamily { \use:c {g__fontspec_ \cs_to_str:N #1 _family} } \exp_not:N \selectfo
3008     }
3009   }
3010 }
3011 \DeclareDocumentCommand \deflatinfont { m 0{} m 0{} }
3012 {
3013   \fontspec_set_family:cnn { g__fontspec_ \cs_to_str:N #1 _family } {Mapping=tex-text,#2,#4} {#3}
3014   \use:x
3015   {
3016     \exp_not:N \DeclareRobustCommand \exp_not:N #1
3017     {

```



```

3018 \exp_not:N \fontencoding {\g_fontspec_encoding_tl}
3019 \exp_not:N \fontfamily {\use:c {g__fontspec_ \cs_to_str:N #1 _family}} \exp_not:N \selectfont
3020 }
3021 }
3022 }
3023 \newcommand\persiansfdefault{}
3024 \newcommand\persianttdefault{}
3025 \newcommand\iranicsfdefault{}
3026 \newcommand\navarsfdefault{}
3027 \newcommand\pooksfdefault{}
3028 \newcommand\sayehsfdefault{}
3029 \DeclareRobustCommand\persiansffamily
3030 {\not@math@alphabet\persiansffamily\mathpersiansf
3031 \fontfamily\persiansfdefault\selectfont}
3032 \DeclareRobustCommand\persianttffamily
3033 {\not@math@alphabet\persianttffamily\mathpersiantt
3034 \fontfamily\persianttdefault\selectfont}
3035 \DeclareRobustCommand\iranicsffamily
3036 {\not@math@alphabet\iranicsffamily\mathiranicsf
3037 \fontfamily\iranicsfdefault\selectfont}
3038 \DeclareRobustCommand\navarsffamily
3039 {\not@math@alphabet\navarsffamily\mathnavarsf
3040 \fontfamily\navarsfdefault\selectfont}
3041 \DeclareRobustCommand\pooksffamily
3042 {\not@math@alphabet\pooksffamily\mathpooksf
3043 \fontfamily\pooksfdefault\selectfont}
3044 \DeclareRobustCommand\sayehsfamily
3045 {\not@math@alphabet\sayehsfamily\mathsayehsf
3046 \fontfamily\sayehsfdefault\selectfont}
3047 \DeclareTextFontCommand{\textpersiansf}{\persiansffamily}
3048 \DeclareTextFontCommand{\textpersiantt}{\persianttffamily}
3049 \DeclareTextFontCommand{\textiranicsf}{\iranicsffamily}
3050 \DeclareTextFontCommand{\textnavarsf}{\navarsffamily}
3051 \DeclareTextFontCommand{\textpooksf}{\pooksffamily}
3052 \DeclareTextFontCommand{\textsayehsf}{\sayehsfamily}
3053 \DeclareDocumentCommand \setpersiansansfont { 0{} m 0{} }
3054 {
3055 \fontspec_set_family:Nnn \persiansfdefault {Script=Parsi,Language=Parsi,Mapping=parsidigits,#
3056 \normalfont
3057 \ignorespaces
3058 }
3059 \DeclareDocumentCommand \setpersianmonofont { 0{} m 0{} }
3060 {
3061 \fontspec_set_family:Nnn \persianttdefault {Script=Parsi,Language=Parsi,Mapping=parsidigits,#
3062 \normalfont
3063 \ignorespaces
3064 }
3065 \DeclareDocumentCommand \setnavarsfont { 0{} m 0{} }
3066 {
3067 \fontspec_set_family:Nnn \navarsfdefault {Script=Parsi,Language=Parsi,Mapping=parsidigits,#1,#3

```





```

3068 \normalfont
3069 \ignorespaces
3070 }
3071 \DeclareDocumentCommand \setpookfont { 0{} m 0{} }
3072 {
3073 \fontspec_set_family:Nnn \pookdefault {Script=Parsi,Language=Parsi,Mapping=parsidigits,#1,#3}
3074 \normalfont
3075 \ignorespaces
3076 }
3077 \DeclareDocumentCommand \setsayehfont { 0{} m 0{} }
3078 {
3079 \fontspec_set_family:Nnn \sayehdefault {Script=Parsi,Language=Parsi,Mapping=parsidigits,#1,#3}
3080 \normalfont
3081 \ignorespaces
3082 }
3083 \DeclareDocumentCommand \setiraniconfont { 0{} m 0{} }
3084 {
3085 \fontspec_set_family:Nnn \iranicondefault {Script=Parsi,Language=Parsi,Mapping=parsidigits,#1,#3}
3086 \normalfont
3087 \ignorespaces
3088 }
3089 \ExplSyntaxOff
3090 \def\resetlatinfont{%
3091 \let\normalfont\latinfont%
3092 \let\reset@font\normalfont%
3093 \latinfont}
3094 \def\setpersianfont{%
3095 \let\normalfont\persianfont%
3096 \let\reset@font\normalfont%
3097 \persianfont}
3098 \bidi@newrobustcmd*{\lr}[1]{\LRE{\@Latintrue\latinfont#1}}
3099 \bidi@newrobustcmd*{\rl}[1]{\RLE{\@Latinfalse\persianfont#1}}
3100 \def\latin{\LTR\LatinAlphs\@Latintrue\@RTL@footnotefalse\resetlatinfont}
3101 \def\endlatin{\endLTR}
3102 \def\persian{\RTL\PersianAlphs\@RTL@footnotetrue\setpersianfont}
3103 \def\endpersian{\endRTL}
3104 \newenvironment{latinitems}{\begin{LTRitems}\LatinAlphs\@Latintrue\@RTL@footnotefalse\resetlatinfont}
3105 \newenvironment{persiitems}{\begin{RTLitems}\PersianAlphs\@RTL@footnotetrue\setpersianfont}{\endpersian}
3106 \let\originaltoday=\today
3107 \def\latintoday{\lr{\originaltoday}}
3108 \def\today{\rl{\persiantoday}}
3109 \def \@LTRmarginparreset {%
3110 \reset@font
3111 \latinfont
3112 \normalsize
3113 \@minipagetrue
3114 \everypar{\@minipagefalse\everypar{}\beginL}%
3115 }
3116 \DeclareRobustCommand\Latincite{%
3117 \@ifnextchar [{\@tempwattrue\@Latincitex}{\@tempwafalse\@Latincitex[]}]

```



```

3118 \def\@Latincitex[#1]#2{\leavevmode
3119   \let\@citea\@empty
3120   \@cite{\lr{\@for\@citeb:=#2\do
3121     {\@citea\def\@citea{\penalty\@m\ }%
3122     \edef\@citeb{\expandafter\@firstofone\@citeb\@empty}%
3123     \if@filesw\immediate\write\@auxout{\string\citation{\@citeb}}\fi
3124     \@ifundefined{b@\@citeb}{\hbox{\reset@font\bfseries ?}%
3125     \G@refundefinedtrue
3126     \@latex@warning
3127       {Citation `'\@citeb' on page \thepage \space undefined}}%
3128     {\@cite@ofmt{\csname b@\@citeb\endcsname}}}\@#1}}
3129 \def\@outputpage{%
3130   \begingroup           % the \endgroup is put in by \aftergroup
3131   \let \protect \noexpand
3132   \@resetactivechars
3133   \global\let\@if@newlist\if@newlist
3134   \global\@newlistfalse
3135   \@parboxrestore
3136   \shipout \vbox{%
3137     \set@typeset@protect
3138     \aftergroup \endgroup
3139     \aftergroup \set@typeset@protect
3140                               % correct? or just restore by ending
3141                               % the group?
3142   \if@specialpage
3143     \global\@specialpagefalse\@nameuse{ps@\@specialstyle}%
3144   \fi
3145   \if@twoside
3146     \ifodd\count\z@ \let\@thehead\@oddhead \let\@thefoot\@oddfoot
3147     \let\@themargin\oddsidemargin
3148   \else \let\@thehead\@evenhead
3149     \let\@thefoot\@evenfoot \let\@themargin\evensidemargin
3150   \fi
3151   \ifx\@thehead\@empty \let\@thehead\hfil \fi
3152   \ifx\@thefoot\@empty \let\@thefoot\hfil \fi
3153   \else %% not @twoside
3154   \ifx\@oddhead\@empty \let\@thehead\hfil \fi
3155   \ifx\@oddfoot\@empty \let\@thefoot\hfil \fi
3156   \fi
3157   \reset@font
3158   \normalsize
3159   \if@RTLmain\setpersianfont\else\resetlatinfont\fi
3160   \normalsfcodes
3161   \let\label\@gobble
3162   \let\index\@gobble
3163   \let\glossary\@gobble
3164   \baselineskip\z@skip \lineskip\z@skip \lineskiplimit\z@
3165   \@begindvi
3166   \vskip \topmargin
3167   \moveright\@themargin \vbox {%

```



```

3168 \setbox\@tempboxa \vbox to\headheight{%
3169 \vfil
3170 \color@hbox
3171 \normalcolor
3172 \hb@xt@\textwidth{\if@RTLmain\@RTLtrue\beginR\else\@RTLfalse\beginL\fi\@thehead\if@RTLma
3173 \color@endbox
3174 }% %% 22 Feb 87
3175 \dp\@tempboxa \z@
3176 \box\@tempboxa
3177 \vskip \headsep
3178 \box\@outputbox
3179 \baselineskip \footskip
3180 \color@hbox
3181 \normalcolor
3182 \hb@xt@\textwidth{\if@RTLmain\@RTLtrue\beginR\else\@RTLfalse\beginL\fi\@thefoot\if@RTLma
3183 \color@endbox
3184 }%
3185 }%
3186 \global\let\if@newlist\@if@newlist
3187 \global \colht \textheight
3188 \stepcounter{page}%
3189 \let\firstmark\botmark
3190 }
3191 \newcommand\twocolumnstableofcontents{%
3192 \@ifpackageloaded{multicol}{%
3193 \begin{multicols}{2}[\section*{\contentsname}]{%
3194 \small
3195 \@starttoc{toc}%
3196 \end{multicols}}
3197 {\PackageError{xepersian}{Oops! you should load multicol package before xepersian package for bei
3198 \def\XePersian{\leavevmode$\smash{\hbox{X}\lower.5ex
3199 \hbox{\kern-.125em\bidi@reflect@box{E}}Persian}}$}
3200 \def\figurename{\if@RTL else\ Figure\fi}
3201 \def\tablename{\if@RTL else\ Table\fi}
3202 \def\contentsname{\if@RTL else\ Contents\fi}
3203 \def\listfigurename{\if@RTL else\ List of Figures\fi}
3204 \def\listtablename{\if@RTL else\ List of Tables\fi}
3205 \def\appendixname{\if@RTL else\ Appendix\fi}
3206 \def\indexname{\if@RTL else\ Index\fi}
3207 \def\refname{\if@RTL else\ References\fi}
3208 \def\abstractname{\if@RTL else\ Abstract\fi}
3209 \def\partname{\if@RTL else\ Part\fi}
3210 \def\datename{\if@RTL else\ Date:\fi}
3211 \def\@and{\if@RTL else\ and\fi}
3212 \def\bibname{\if@RTL else\ Bibliography\fi}
3213 \def\chaptername{\if@RTL else\ Chapter\fi}
3214 \def\ccname{\if@RTL else\ cc\fi}
3215 \def\enclname{\if@RTL else\ encl\fi}
3216 \def\pagename{\if@RTL else\ Page\fi}

```



```

3217 \def\headtoname{\if@RTL else\ To\fi}
3218 \def\proofname{\if@RTL else\ Proof\fi}
3219 \def\@Abjad#1{%
3220   \ifcase#1\or or\ or\ or\ %
3221     \or or\ or\ or\ or\ %
3222     \or or\ or\ or\ or\ %
3223     \or or\ or\ or\ %
3224     \or or\ or\ or\ or\ %
3225     \or or\ or\ or\ or\ %
3226     \else\@ctrerrr\fi}
3227 \def\Abjad#1{\expandafter\@Abjad\csize c@#1\endcsname}
3228 \let\Abjadnumeral\@Abjad
3229 \def\@harfi#1{\ifcase#1\or or\ or\ or\ or\ or\
3230 or\ or\ or\ or\ or\ or\ or\ or\ or\ or\ or\ or\ or\ or\ or\ or\ or\ or\ or\ or\
3231 or\ or\ or\ or\ or\ or\ or\ or\ or\ {else\@ctrerrr\fi}
3232 \def\harfi#1{\expandafter\@harfi\csize c@#1\endcsname}
3233 \let\harfinumeral\@harfi
3234 \newcommand{\adadi}[1]{%
3235 \expandafter\@adadi\csize c@#1\endcsname%
3236 }
3237 \newcommand{\@adadi}[1]{%
3238 \xepersian@numberstring{#1}\xepersian@yekanii{ }{}%
3239 }
3240 \let\adadinumeral\@adadi%
3241 \def\xepersian@numberoutofrange#1#2{%
3242 \PackageError{xepersian}{The number `#1' is too large %
3243 to be formatted using xepersian}{The largest possible %
3244 number is 999,999,999.}%
3245 }
3246 \def\xepersian@numberstring#1#2#3#4{%
3247 \ifnum\number#1<\@ne%
3248 #3%
3249 \else\ifnum\number#1<1000000000 %
3250 \expandafter\xepersian@adadi\expandafter{\number#1}#2%
3251 \else%
3252 \xepersian@numberoutofrange{#1}{#4}%
3253 \fi\fi%
3254 }
3255 \def\xepersian@adadi#1#2{%
3256 \expandafter\xepersian@@adadi%
3257 \ifcase%
3258 \ifnum#1<10 1%
3259 \else\ifnum#1<100 2%
3260 \else\ifnum#1<\@m 3%
3261 \else\ifnum#1<\@M 4%
3262 \else\ifnum#1<100000 5%
3263 \else\ifnum#1<1000000 6%
3264 \else\ifnum#1<10000000 7%
3265 \else\ifnum#1<100000000 8%
3266 \else9%

```



```

3267 \fi\fi\fi\fi\fi\fi\fi\fi %
3268 \or00000000#1% case 1: Add 8 leading zeros
3269 \or00000000#1% case 2: Add 7 leading zeros
3270 \or0000000#1% case 3: Add 6 leading zeros
3271 \or00000#1% case 4: Add 5 leading zeros
3272 \or0000#1% case 5: Add 4 leading zeros
3273 \or000#1% case 6: Add 3 leading zeros
3274 \or00#1% case 7: Add 2 leading zeros
3275 \or0#1% case 8: Add 1 leading zero
3276 \or#1% case 9: Add no leading zeros
3277 \or%
3278 \@nil#2%
3279 \fi%
3280 }
3281 \def\xepersian@adadi#1#2#3#4#5#6#7\or#8\@nil#9{%
3282 \ifnum#1#2#3>\z@
3283 \xepersian@milyoongan#1#2#3%
3284 \ifnum#7>\z@\ifnum#4#5#6>\z@\ \else\ \fi\else\ifnum#4#5#6>\z@\ \fi\fi%
3285 \fi%
3286 \ifnum#4#5#6>\z@%
3287 \xepersian@sadgan#4#5#6{#1#2#3}{#4#5}\xepersian@yekani%
3288 \ifnum#4#5#6>\@ne\fi%
3289 %
3290 \ifnum#7>\z@\ \fi%
3291 \fi%
3292 \xepersian@sadgan#7{#4#5#6}1#9%
3293 }
3294 \def\xepersian@milyoongan#1#2#3{%
3295 \ifnum#1#2#3=\@ne%
3296 \xepersian@sadgan#1#2#301\xepersian@yekanii%
3297 %
3298 %
3299 \else%
3300 \xepersian@sadgan#1#2#301\xepersian@yekanii%
3301 %
3302 %
3303 \fi%
3304 }
3305 \def\xepersian@sadgan#1#2#3#4#5#6{%
3306 \ifnum#1>\z@%
3307 \ifnum#4#1>\@ne\xepersian@yekaniv#1\fi%
3308 %
3309 \ifnum#2#3>\z@\ \fi%
3310 \fi%
3311 \ifnum#2#3<20%
3312 \ifnum#5#2#3>\@ne#6{#2#3}\fi%
3313 \else%
3314 \xepersian@dahgan#2%
3315 \ifnum#3>\z@\ \xepersian@yekani#3\fi%
3316 #60%

```



```

3317 \fi%
3318 }
3319 \def\xepersian@yekani#1{%
3320 \ifcase#1\@empty\or or\ or\ or\ or\ or\ %
3321 \or or\ or\ or\ or\ or\ or\ %
3322 \or or\ or\ or\ %
3323 \or or\ %fi\
3324 }
3325 \def\xepersian@yekanii#1{%
3326 \ifcase#1\@empty\or %else\xepersian@yekani{#1}\fi\
3327 }
3328 \def\xepersian@yekaniiii#1{%
3329 \ifcase#1\@empty\or %else\xepersian@yekani{#1}\fi\
3330 }
3331 \def\xepersian@yekaniv#1{%
3332 \ifcase#1\@empty\or or\ or\ or\ or\ %
3333 \or or\ or\ %fi\
3334 }
3335 \def\xepersian@dahgan#1{%
3336 \ifcase#1\or or\ or\ %
3337 \or or\ or\ %
3338 \or %fi\
3339 }
3340 \newcommand{\tartibi}[1]{%
3341 \expandafter\@tartibi\csname c@#1\endcsname%
3342 }
3343 \newcommand{\@tartibi}[1]{%
3344 \xepersian@numberstring@tartibi{#1}\xepersian@tartibi{ }{ }%
3345 }
3346 \let\tartibinumeral\@tartibi%
3347 \def\xepersian@numberstring@tartibi#1#2#3#4{%
3348 \ifnum\number#1<\@ne%
3349 #3%
3350 \else\ifnum\number#1<1000000000 %
3351 \expandafter\xepersian@adadi@tartibi\expandafter{\number#1}#2%
3352 \else%
3353 \xepersian@numberoutofrange{#1}{#4}%
3354 \fi\fi%
3355 }
3356 \def\xepersian@adadi@tartibi#1#2{%
3357 \expandafter\xepersian@@adadi@tartibi%
3358 \ifcase%
3359 \ifnum#1<10 1%
3360 \else\ifnum#1<100 2%
3361 \else\ifnum#1<\@m 3%
3362 \else\ifnum#1<\@M 4%
3363 \else\ifnum#1<100000 5%
3364 \else\ifnum#1<1000000 6%
3365 \else\ifnum#1<10000000 7%
3366 \else\ifnum#1<100000000 8%

```



```

3367 \else%
3368 \fi\fi\fi\fi\fi\fi\fi %
3369 \or00000000#1% case 1: Add 8 leading zeros
3370 \or00000000#1% case 2: Add 7 leading zeros
3371 \or00000000#1% case 3: Add 6 leading zeros
3372 \or000000#1% case 4: Add 5 leading zeros
3373 \or0000#1% case 5: Add 4 leading zeros
3374 \or000#1% case 6: Add 3 leading zeros
3375 \or00#1% case 7: Add 2 leading zeros
3376 \or0#1% case 8: Add 1 leading zero
3377 \or#1% case 9: Add no leading zeros
3378 \or%
3379 \@nil#2%
3380 \fi%
3381 }
3382 \def\xepersian@adadi@tartibi#1#2#3#4#5#6#7\or#8\@nil#9{%
3383 \ifnum#1#2#3>\z@
3384 \xepersian@milyoongan@tartibi#1#2#3%
3385 \ifnum#7>\z@\ifnum#4#5#6>\z@ \else \fi\else\ifnum#4#5#6>\z@ \fi\fi%
3386 \fi%
3387 \ifnum#4#5#6>\z@%
3388 \xepersian@sadgan#4#5#6{#1#2#3}{#4#5}\xepersian@yekani%
3389 \ifnum#4#5#6>\@ne \fi%
3390 %
3391 \ifnum#7>\z@ \fi%
3392 \fi%
3393 \xepersian@sadgan@tartibi#7{#4#5#6}1#9%
3394 }
3395 \def\xepersian@milyoongan@tartibi#1#2#3{%
3396 \ifnum#1#2#3=\@ne%
3397 \xepersian@sadgan@tartibi#1#2#301\xepersian@yekanii%
3398 %
3399 %
3400 \else%
3401 \xepersian@sadgan#1#2#301\xepersian@yekanii%
3402 %
3403 %
3404 \fi%
3405 }
3406 \def\xepersian@sadgan@tartibi#1#2#3#4#5#6{%
3407 \ifnum#1>\z@%
3408 \ifnum#4#1>\@ne\xepersian@yekaniv#1\fi%
3409 %
3410 \ifnum#2#3>\z@ \fi%
3411 \fi%
3412 \ifnum#2#3<20%
3413 \ifnum#5#2#3>\@ne\ifnum#1#2#3#4#5=10001 %else#6{#2#3}\fi\fi\
3414 \else%
3415 \xepersian@dahgan#2%
3416 \ifnum#3>\z@ \xepersian@yekanv#3\fi%

```



```

3417 #60%
3418 \fi%
3419 }
3420 \def\xepersian@tartibi#1{%
3421 \ifcase#1 \or or\ or\ or\ %
3422 \or or\ or\ or\ or\ %
3423 \or or\ or\ or\ %
3424 \or or\ or\ %
3425 \or or\ or\ %fi\
3426 }
3427 \def\xepersian@yekanv#1{%
3428 \ifcase#1\@empty\or or\ or\ or\ or\ or\ %
3429 \or or\ or\ or\ or\ or\ or\ %
3430 \or or\ or\ or\ %
3431 \or or\ %fi\
3432 }
3433 \providecommand*\xpg@warning}[1]{%
3434 \PackageWarning{XePersian}%
3435 {#1}}
3436 \if@bidi@csundef{@abjad}{%
3437 \def\@abjad#1{%
3438 \ifnum#1>1999 \xpg@warning{Illegal value (#1) for abjad numeral} {#1}
3439 \else
3440 \ifnum#1<\z@\space\xpg@warning{Illegal value (#1) for abjad numeral}%
3441 \else
3442 \ifnum#1<10\expandafter\abj@num@i\number#1%
3443 \else
3444 \ifnum#1<100\expandafter\abj@num@ii\number#1%
3445 \else
3446 \ifnum#1<\@m\expandafter\abj@num@iii\number#1%
3447 \else
3448 \ifnum#1<\@M\expandafter\abj@num@iv\number#1%since #1<2000, we must have 1000
3449 \fi
3450 \fi
3451 \fi
3452 \fi
3453 \fi
3454 \fi
3455 }
3456 \def\abjad#1{\expandafter\@abjad\csname c@#1\endcsname}
3457 \let\abjadnumeral\@abjad
3458 \def\abjad@zero{}
3459 \def\abj@num@i#1{%
3460 \ifcase#1\or or\ or\ or\ %
3461 \or or\ or\ or\ or\ fi\
3462 \ifnum#1=\z@\abjad@zero\fi}
3463 \def\abj@num@ii#1{%
3464 \ifcase#1\or or\ or\ or\ or\ %
3465 \or or\ or\ or\ or\ fi\
3466 \ifnum#1=\z@\fi\abj@num@i}

```





```

3467 \def\abj@num@iii#1{%
3468   \ifcase#1\or or\ or\ or\ or\ %
3469     \or or\ or\ or\ fi\
3470   \ifnum#1=z@\fi\abj@num@ii}
3471 \def\abj@num@iv#1{%
3472   \ifcase#1\or fi\
3473   \ifnum#1=z@\fi\abj@num@iii}
3474 }{}
3475 \let\@latalph\@alph%
3476 \let\@latinAlph\@Alph%
3477 \def\LatinAlphs{%
3478   \let\@alph\@latalph%
3479   \let\@Alph\@latinAlph%
3480 }
3481 \bidi@AfterEndPreamble{%
3482 \if@bidi@cundefined{persianfont}}{%
3483 \PackageError{xepersian}{You have not specified any font\MessageBreak
3484 for the main Persian text}{Use '\settextfont' to load a font.}%
3485 }{}
3486 \@ifdefinitionfileloaded{loadingorder-xetex-bidi}{\input{loadingorder-xepersian.def}}{}
3487 \@ifpackageloaded{fontspec-xetex}{\input{fontspec-xetex-xepersian.def}}{}
3488 \@ifpackageloaded{listings}{\input{listings-xepersian.def}}{}
3489 \@ifpackageloaded{algorithmic}{\input{algorithmic-xepersian.def}}{}
3490 \@ifpackageloaded{algorithm}{\input{algorithm-xepersian.def}}{}
3491 \@ifpackageloaded{backref}{\input{backref-xepersian.def}}{}
3492 \@ifpackageloaded{flowfram}{\input{flowfram-xepersian.def}}{}
3493 \@ifpackageloaded{bidi}{\input{footnote-xepersian.def}}{}
3494 \@ifpackageloaded{bidiuftesidenote}{\input{bidiuftesidenote-xepersian.def}}{}
3495 \@ifpackageloaded{breqn}{\input{breqn-xepersian.def}}{}
3496 \@ifpackageloaded{enumerate}{\input{enumerate-xepersian.def}}{}
3497 \@ifpackageloaded{framed}{\input{framed-xepersian.def}}{}
3498 \@ifpackageloaded{glossaries}{\input{glossaries-xepersian.def}}{}
3499 \@ifpackageloaded{hyperref}{\input{hyperref-xepersian.def}}{}
3500 \@ifpackageloaded{minitoc}{\input{minitoc-xepersian.def}}{}
3501 \@ifpackageloaded{natbib}{\input{natbib-xepersian.def}}{}
3502 \@ifpackageloaded{tkz-linknodes}{\input{tkz-linknodes-xepersian.def}}{}
3503 \@ifpackageloaded{tocloft}{\@ifclassloaded{memoir}}{\input{tocloft-xepersian.def}}{}
3504 \@ifclassloaded{article}{\input{article-xepersian.def}}{}
3505 \@ifclassloaded{extarticle}{\input{extarticle-xepersian.def}}{}
3506 \@ifclassloaded{artikel1}{\input{artikel1-xepersian.def}}{}
3507 \@ifclassloaded{artikel2}{\input{artikel2-xepersian.def}}{}
3508 \@ifclassloaded{artikel3}{\input{artikel3-xepersian.def}}{}
3509 \@ifclassloaded{amsart}{\input{amsart-xepersian.def}}{}
3510 \@ifclassloaded{bidimoderncv}{\input{bidimoderncv-xepersian.def}}{}
3511 \@ifclassloaded{report}{\input{report-xepersian.def}}{}
3512 \@ifclassloaded{extreport}{\input{extreport-xepersian.def}}{}
3513 \@ifclassloaded{rapport1}{\input{rapport1-xepersian.def}}{}
3514 \@ifclassloaded{rapport3}{\input{rapport3-xepersian.def}}{}
3515 \@ifclassloaded{scrartcl}{\input{scrartcl-xepersian.def}}{}
3516 \@ifclassloaded{scrbook}{\input{scrbook-xepersian.def}}{}

```



```

3517 \@ifclassloaded{scrreprt}{\input{scrreprt-xepersian.def}}{}
3518 \@ifclassloaded{amsbook}{\input{amsbook-xepersian.def}}{}
3519 \@ifclassloaded{boek3}{\input{boek3-xepersian.def}}{}
3520 \@ifclassloaded{boek}{\input{boek-xepersian.def}}{}
3521 \@ifclassloaded{bookest}{\input{bookest-xepersian.def}}{}
3522 \@ifclassloaded{extbook}{\input{extbook-xepersian.def}}{}
3523 \@ifclassloaded{book}{\input{book-xepersian.def}}{}
3524 \@ifclassloaded{refrep}{\input{refrep-xepersian.def}}{}
3525 \@ifclassloaded{memoir}{\input{memoir-xepersian.def}}{}
3526 \@ifclassloaded{imsproc}{\input{imsproc-xepersian.def}}{}
3527 \define@choicekey{xepersian.sty}{mathdigits}[\xepersian@tempa\xepersian@tempb]{automatic,default}
3528 \ifcase\xepersian@tempb\relax
3529 \AutoMathsDigits
3530 \or
3531 \DefaultMathsDigits
3532 \or
3533 \PersianMathsDigits
3534 \fi}
3535 \define@choicekey{xepersian.sty}{RTLdocument}[\xepersian@tempa\xepersian@tempb]{on,off}[on]{%
3536 \ifcase\xepersian@tempb\relax
3537 \@RTLtrue
3538 \or
3539 \@RTLfalse
3540 \fi}
3541 \define@choicekey{xepersian.sty}{rldocument}[\xepersian@tempa\xepersian@tempb]{on,off}[on]{%
3542 \ifcase\xepersian@tempb\relax
3543 \@RTLtrue
3544 \or
3545 \@RTLfalse
3546 \fi}
3547 \define@choicekey{xepersian.sty}{footnoterule}[\xepersian@tempa\xepersian@tempb]{automatic,left}
3548 \ifcase\xepersian@tempb\relax
3549 \autofootnoterule
3550 \or
3551 \leftfootnoterule
3552 \or
3553 \rightfootnoterule
3554 \or
3555 \SplitFootnoteRule
3556 \or
3557 \textwidthfootnoterule
3558 \fi}
3559 \define@choicekey{xepersian.sty}{footnotedirection}[\xepersian@tempa\xepersian@tempb]{righttoleft}
3560 \ifcase\xepersian@tempb\relax
3561 \@RTL@footnotetrue
3562 \or
3563 \@RTL@footnotefalse
3564 \fi}
3565 \define@choicekey{xepersian.sty}{debugfootnotedirection}[\xepersian@tempa\xepersian@tempb]{on,off}
3566 \ifcase\xepersian@tempb\relax

```



```

3567 \footdir@debugtrue
3568 \or
3569 \footdir@debugfalse
3570 \fi}
3571 \define@choicekey{xepersian.sty}{Kashida}[\xepersian@tempa\xepersian@tempb]{on,off}[on]{%
3572 \ifcase\xepersian@tempb\relax
3573 \input{kashida-xepersian.def}
3574 \fi}
3575 \define@choicekey{xepersian.sty}{localise}[\xepersian@tempa\xepersian@tempb]{on,off}[on]{%
3576 \ifcase\xepersian@tempb\relax
3577 \input{localise-xepersian.def}
3578 \fi}
3579 \define@choicekey{xepersian.sty}{extrafootnotefeatures}[\xepersian@tempa\xepersian@tempb]{on,off}[on]{%
3580 \ifcase\xepersian@tempb\relax
3581 \@extrafootnotefeaturestrue
3582 \or
3583 \@extrafootnotefeaturesfalse
3584 \fi}
3585 \define@choicekey{xepersian.sty}{quickindex}[\xepersian@tempa\xepersian@tempb]{on,off}[on]{%
3586 \ifcase\xepersian@tempb\relax
3587 \PackageWarning{xepersian}{Obsolete option}%
3588 \ifwritexviii%
3589 \@ifclassloaded{memoir}{\PackageError{xepersian}{This feature does not yet work with the memoir}{}%
3590 \renewcommand\printindex{\newpage%
3591 \immediate\closeout\@indexfile
3592 \immediate\write18{xindy -L persian-variant2 -C utf8 -M texindy -M page-ranges \jobname.idx}
3593 \@input@{\jobname.ind}}}%
3594 \else
3595 \PackageError{xepersian}{"shell escape" (or "write18") is not enabled. You need to run "xelatex" or "xindy" with the --shell-escape option.}{}%
3596 \fi
3597 \fi}
3598 \define@choicekey{xepersian.sty}{quickindex-variant1}[\xepersian@tempa\xepersian@tempb]{on,off}[on]{%
3599 \ifcase\xepersian@tempb\relax
3600 \ifwritexviii%
3601 \@ifclassloaded{memoir}{\PackageError{xepersian}{This feature does not yet work with the memoir}{}%
3602 \renewcommand\printindex{\newpage%
3603 \immediate\closeout\@indexfile
3604 \immediate\write18{xindy -L persian-variant1 -C utf8 -M texindy -M page-ranges \jobname.idx}
3605 \@input@{\jobname.ind}}}%
3606 \else
3607 \PackageError{xepersian}{"shell escape" (or "write18") is not enabled. You need to run "xelatex" or "xindy" with the --shell-escape option.}{}%
3608 \fi
3609 \fi}
3610 \define@choicekey{xepersian.sty}{quickindex-variant2}[\xepersian@tempa\xepersian@tempb]{on,off}[on]{%
3611 \ifcase\xepersian@tempb\relax
3612 \ifwritexviii%
3613 \@ifclassloaded{memoir}{\PackageError{xepersian}{This feature does not yet work with the memoir}{}%
3614 \renewcommand\printindex{\newpage%
3615 \immediate\closeout\@indexfile
3616 \immediate\write18{xindy -L persian-variant2 -C utf8 -M texindy -M page-ranges \jobname.idx}

```



```

3617     \input@{\jobname.ind}}}%
3618     \else
3619     \PackageError{xepersian}{ "shell escape" (or "write18") is not enabled. You need to run "xelat
3620     \fi
3621 \fi}
3622 \define@choicekey{xepersian.sty}{abjadvariant}[\xepersian@tempa\xepersian@tempb]{one,two}{%
3623 \ifcase\xepersian@tempb\relax
3624     \def\PersianAlphs{%
3625     \let\@alph\@abjad%
3626     \let\@Alph\@abjad%
3627     }
3628 \or
3629     \def\PersianAlphs{%
3630     \let\@alph\@Abjad%
3631     \let\@Alph\@Abjad%
3632     }
3633 \fi}
3634 \DeclareOptionX{defaultlatinfontfeatures}{%
3635 \defaultfontfeatures
3636 [\latinfont]
3637 {#1}
3638 }
3639
3640 \ExecuteOptionsX{%
3641     RTLdocument=on,
3642     footnotedirection=righttoleft,
3643     footnoterule=automatic,
3644     abjadvariant=two
3645 }
3646
3647 \ProcessOptionsX
3648
3649 \if@extrafootnotefeatures
3650 \input{extrafootnotefeatures-xetex-bidi.def}
3651 \input{extrafootnotefeatures-xepersian.def}
3652 \fi
3653
3654 \setlatintextfont[ExternalLocation,BoldFont={lmroman10-bold},BoldItalicFont={lmroman10-boldita
3655 \PersianAlphs

```

## 7.55 xepersian-magazine.cls

```

3656 \NeedsTeXFormat{LaTeX2e}
3657 \ProvidesClass{xepersian-magazine}[2010/07/25 v0.2 Typesetting Persian magazines in XeLaTeX]
3658 \RequirePackage{ifthen}
3659 \newlength{\xepersian@ingsize}
3660 \newlength{\xepersian@coltitsize}
3661 \newlength{\xepersian@pageneed}
3662 \newlength{\xepersian@pageleft}
3663 \newlength{\xepersian@indexwidth}

```



```

3664 \newcommand{\xepersian@ncolumns}{0}
3665 \newlength{\columnlines}
3666 \setlength{\columnlines}{0 pt} % no lines by default
3667 \newboolean{xepersian@hyphenatedtitles}
3668 \setboolean{xepersian@hyphenatedtitles}{true}
3669 \newboolean{xepersian@ninepoints}
3670 \setboolean{xepersian@ninepoints}{false}
3671 \newboolean{xepersian@showgrid}
3672 \setboolean{xepersian@showgrid}{false}
3673 \newboolean{xepersian@a3paper}
3674 \setboolean{xepersian@a3paper}{false}
3675 \newboolean{xepersian@insidefrontpage}
3676 \setboolean{xepersian@insidefrontpage}{false}
3677 \newboolean{xepersian@insideweather}
3678 \setboolean{xepersian@insideweather}{false}
3679 \newboolean{xepersian@insideindex}
3680 \setboolean{xepersian@insideindex}{false}
3681 \newcount\xepersian@gridrows
3682 \newcount\xepersian@gridcolumns
3683 \xepersian@gridrows=40
3684 \xepersian@gridcolumns=50
3685 \newcount\minraggedcols
3686 \minraggedcols=5
3687 \DeclareOption{10pt}{\PassOptionsToClass{10pt}{article}}
3688 \DeclareOption{11pt}{\PassOptionsToClass{11pt}{article}}
3689 \DeclareOption{12pt}{\PassOptionsToClass{12pt}{article}}
3690 \DeclareOption{twocolumn}%
3691 {\ClassWarning{xepersian-magazine}{Option 'twocolumn' not available for xepersian-magazine.}}
3692 \DeclareOption{notitlepage}%
3693 {\ClassWarning{xepersian-magazine}{Option 'notitlepage' not available for xepersian-magazine.}}
3694 \DeclareOption{twoside}%
3695 {\ClassWarning{xepersian-magazine}{Option 'twoside' not available for xepersian-magazine.}}
3696 \DeclareOption{9pt}{\setboolean{xepersian@ninepoints}{true}}
3697 \DeclareOption{hyphenatedtitles}{\setboolean{xepersian@hyphenatedtitles}{false}}
3698 \DeclareOption{columnlines}{\setlength{\columnlines}{0.1 pt}}
3699 \DeclareOption{showgrid}{\setboolean{xepersian@showgrid}{true}}
3700 \DeclareOption{a3paper}{\setboolean{xepersian@a3paper}{true}}
3701 \ProcessOptions\relax
3702 \LoadClass[10pt, onecolumn, titlepage, a4paper]{article}
3703 \RequirePackage{ifxetex}
3704 \RequirePackage{multido}
3705 \RequirePackage{datetime}
3706 \RequirePackage{multicol}
3707 \RequirePackage{fancyhdr}
3708 \RequirePackage{fancybox}
3709 \ifthenelse{\boolean{xepersian@a3paper}}{%
3710 \RequirePackage[a3paper, headsep=0.5cm, vmargin={2cm, 2cm}, hmargin={1.5cm, 1.5cm}]{geometry}
3711 }{
3712 \RequirePackage[headsep=0.5cm, vmargin={2cm, 2cm}, hmargin={1.5cm, 1.5cm}]{geometry}
3713 }

```



```

3714 \RequirePackage[absolute]{textpos} % absolute positioning
3715 \RequirePackage{hyphenat} % when hyphenate
3716 \RequirePackage{lastpage} % to know the last page number
3717 \RequirePackage{setspace} % set space between lines
3718 \RequirePackage{ragged2e}
3719 \newcommand{\raggedFormat}{\RaggedLeft}
3720 \AtEndOfClass{\xepersianInit}
3721 \ifthenelse{\boolean{xepersian@showgrid}}{%
3722 \AtBeginDocument{
3723 \grid[show]{\xepersian@gridrows}{\xepersian@gridcolumns}}
3724 \advance\minraggedcols by -1
3725 }{%
3726 \AtBeginDocument{
3727 \grid[]{\xepersian@gridrows}{\xepersian@gridcolumns}}
3728 \advance\minraggedcols by -1
3729 }
3730 \ifthenelse{\boolean{xepersian@ninepoints}}{
3731 \renewcommand{\normalsize}{%
3732 \setfontsize{\normalsize}{9pt}{10pt}%
3733 \setlength{\abovedisplayskip}{5pt plus 1pt minus .5pt}%
3734 \setlength{\belowdisplayskip}{\abovedisplayskip}%
3735 \setlength{\abovedisplayshortskip}{3pt plus 1pt minus 2pt}%
3736 \setlength{\belowdisplayshortskip}{\abovedisplayshortskip}}
3737
3738 \renewcommand{\tiny}{\setfontsize{\tiny}{5pt}{6pt}}
3739
3740 \renewcommand{\scriptsize}{\setfontsize{\scriptsize}{7pt}{8pt}}
3741
3742 \renewcommand{\small}{%
3743 \setfontsize{\small}{8pt}{9pt}%
3744 \setlength{\abovedisplayskip}{4pt plus 1pt minus 1pt}%
3745 \setlength{\belowdisplayskip}{\abovedisplayskip}%
3746 \setlength{\abovedisplayshortskip}{2pt plus 1pt}%
3747 \setlength{\belowdisplayshortskip}{\abovedisplayshortskip}}
3748
3749 \renewcommand{\footnotesize}{%
3750 \setfontsize{\footnotesize}{8pt}{9pt}%
3751 \setlength{\abovedisplayskip}{4pt plus 1pt minus .5pt}%
3752 \setlength{\belowdisplayskip}{\abovedisplayskip}%
3753 \setlength{\abovedisplayshortskip}{2pt plus 1pt}%
3754 \setlength{\belowdisplayshortskip}{\abovedisplayshortskip}}
3755
3756 \renewcommand{\large}{\setfontsize{\large}{11pt}{13pt}}
3757 \renewcommand{\Large}{\setfontsize{\Large}{14pt}{18pt}}
3758 \renewcommand{\LARGE}{\setfontsize{\LARGE}{18pt}{20pt}}
3759 \renewcommand{\huge}{\setfontsize{\huge}{20pt}{25pt}}
3760 \renewcommand{\Huge}{\setfontsize{\Huge}{25pt}{30pt}}
3761 }{}
3762 \def\customwwwTxt#1{\gdef\@customwwwTxt{\lr{#1}}}
3763 \newcommand{\xepersian@wwwFormat}{\sffamily}

```



```

3764 \newcommand{\xepersian@www}{%
3765 \raisebox{-3pt}{\{\xepersian@wwwFormat\@customwwwTxt\}}
3766 }
3767 \newcommand{\xepersian@edition}{ {
3768 \newcommand{\editionFormat}{\large\bfseries\texttt}
3769 \newcommand{\xepersian@editionLogo}{%
3770 \raisebox{-3pt}{%
3771 {\editionFormat\xepersian@edition}%
3772 }%
3773 }
3774 \newcommand{\indexFormat}{\large\bfseries}
3775 \newcommand{\xepersian@indexFrameTitle}[1]
3776 {\begin{flushright}{\{\indexFormat #1\}\end{flushright}}
3777
3778 \newcommand{\indexEntryFormat}{\normalsize}
3779 \newcommand{\xepersian@indexEntry}[1]{\begin{minipage}{13\TPHorizModule}%
3780 {\indexEntryFormat\noindent\ignorespaces{#1}}%
3781 \end{minipage}}
3782 \newcommand{\indexEntrySeparator}{\rule{\xepersian@indexwidth}{.1pt}}
3783 \newcommand{\indexEntryPageTxt}{ }
3784 \newcommand{\indexEntryPageFormat}{\footnotesize}
3785 \newcommand{\xepersian@indexEntryPage}[1]{%
3786 {\indexEntryPageFormat{\indexEntryPageTxt{~#1}}}%
3787 }
3788 \newcommand{\headDateTimeFormat}{ }
3789 \newcommand{\xepersian@headDateTime}{%
3790 \headDateTimeFormat\date\hspace{5pt}$\parallel$\hspace{5pt}%
3791 \currenttime %
3792 }
3793 \newcommand{\weatherFormat}{\bfseries}
3794 \newcommand{\xepersian@weather}[1]{%
3795 \noindent{\weatherFormat #1}%
3796 }
3797 \newcommand{\weatherTempFormat}{\small}
3798 \newcommand{\weatherUnits}{\textdegree{C}}
3799 \newcommand{\xepersian@section}[0]{ {
3800 \newcommand{\xepersian@headleft}{%
3801 {\small\bfseries \@custommagazinename} \date
3802 }
3803 \newcommand{\xepersian@headcenter}{%
3804 \xepersian@section{ }
3805 }
3806 \newcommand{\xepersian@headright}{%
3807 \small\xepersian@edition%
3808 \hspace*{5pt}\beginL\thepage\ / \pageref{LastPage}\endL
3809 }
3810
3811 \newcommand{\heading}[3]{%
3812 \renewcommand{\xepersian@headleft}{\beginR#1\endR}%
3813 \renewcommand{\xepersian@headcenter}{\beginR#2\endR}%

```



```

3814 \renewcommand{\xepersian@headright}{\beginR#3\endR}%
3815 }
3816 \newcommand{\xepersian@footright}{%
3817 {\footnotesize\lr{\copyright\ \@customwwwTxt{}}-- - \lr{\XePersian}}%
3818 }
3819 \newcommand{\xepersian@footcenter}{%
3820 }
3821 \newcommand{\xepersian@footleft}{%
3822 }
3823
3824 \newcommand{\foot}[3]{%
3825 \renewcommand{\xepersian@footleft}{\beginR#1\endR}%
3826 \renewcommand{\xepersian@footcenter}{\beginR#2\endR}%
3827 \renewcommand{\xepersian@footright}{\beginR#3\endR}%
3828 }
3829 \newcommand{\firstTitleFormat}{\Huge\bfseries\flushright}
3830 \newcommand{\xepersian@firstTitle}[1]{%
3831 {%
3832 \begin{spacing}{2.0}{%
3833 \noindent\ignorespaces
3834 \ifthenelse{\boolean{xepersian@hyphenatedtitles}}%
3835 {\nohyphens{\firstTitleFormat #1}}%
3836 {\{\firstTitleFormat #1}}%
3837 }%
3838 \end{spacing}%
3839 }%
3840 }
3841 \newcommand{\firstTextFormat}{%
3842 \newcommand{\xepersian@firstText}[1]{%
3843 {\noindent\ignorespaces\firstTextFormat #1}}%
3844 }
3845 \newcommand{\secondTitleFormat}{\LARGE\bfseries}
3846 \newcommand{\xepersian@secondTitle}[1]{%
3847 \begin{spacing}{1.5}{%
3848 \noindent\ignorespaces\flushright
3849 \ifthenelse{\boolean{xepersian@hyphenatedtitles}}%
3850 {\nohyphens{\secondTitleFormat #1}}%
3851 {\{\secondTitleFormat #1}}%
3852 }\end{spacing}%
3853 }
3854 \newcommand{\secondSubtitleFormat}{\large}
3855 \newcommand{\xepersian@secondSubtitle}[1]{%
3856 {\noindent\ignorespaces{\secondSubtitleFormat #1}}%
3857 }
3858 \newcommand{\secondTextFormat}{%
3859 \newcommand{\xepersian@secondText}[1]{%
3860 \begin{multicols}{2}
3861 {\noindent\ignorespaces\secondTextFormat #1}
3862 \end{multicols}
3863 }

```





```

3864 \newcommand{\thirdTitleFormat}{\Large\bfseries}
3865 \newcommand{\xepersian@thirdTitle}[1]{%
3866 \begin{spacing}{1.5}{%
3867 \noindent\ignorespaces\flushright
3868 \ifthenelse{\boolean{xepersian@hyphenatedtitles}}{%
3869 {\nohyphens{\thirdTitleFormat #1}}%
3870 {\thirdTitleFormat #1}}%
3871 }\end{spacing}%
3872 }
3873 \newcommand{\thirdSubtitleFormat}{\large}
3874 \newcommand{\xepersian@thirdSubtitle}[1]{%
3875 {\noindent\ignorespaces\thirdSubtitleFormat #1}}
3876 \newcommand{\thirdTextFormat}{}
3877 \newcommand{\xepersian@thirdText}[1]{\thirdTextFormat #1}}
3878 \newcommand{\pictureCaptionFormat}{\small\bfseries}
3879 \newcommand{\xepersian@pictureCaption}[1]{%
3880 {\noindent\pictureCaptionFormat #1}}%
3881 }
3882 \newcommand{\pagesFormat}{\bfseries\footnotesize}
3883 \newcommand{\xepersian@pages}[1]{%
3884 {\noindent{\pagesFormat\MakeUppercase{#1}}}}
3885 \newcommand{\innerTitleFormat}{\Huge}
3886 \newcommand{\xepersian@innerTitle}[1]{%
3887 \begin{flushright}{%
3888 \noindent
3889 \ifthenelse{\boolean{xepersian@hyphenatedtitles}}{%
3890 {\nohyphens{\innerTitleFormat #1}}%
3891 {\innerTitleFormat #1}}%
3892 }%
3893 \\%
3894 \end{flushright}}%
3895 }
3896 \newcommand{\innerSubtitleFormat}{\large}
3897 \newcommand{\xepersian@innerSubtitle}[1]{\innerSubtitleFormat #1}}
3898 \newcommand{\timestampTxt}{}
3899 \newcommand{\timestampSeparator}{|}
3900 \newcommand{\timestampFormat}{\small}
3901 \newcommand{\timestamp}[1]{%
3902 {\timestampFormat%
3903 #1~\timestampTxt}%
3904 }~\timestampSeparator}%
3905 }
3906 \newcommand{\innerAuthorFormat}{\footnotesize}
3907 \newcommand{\innerPlaceFormat}{\footnotesize\bfseries}
3908 \newcommand{\innerTextFinalMark}{\rule{0.65em}{0.65em}}
3909 \newcommand{\editorialTitleFormat}{\LARGE\textit}
3910 \newcommand{\xepersian@editorialTitle}[1]{\editorialTitleFormat{#1}}
3911 \newcommand{\editorialAuthorFormat}{\textsc}
3912 \newcommand{\shortarticleTitleFormat}{\LARGE\bfseries}
3913 \newcommand{\xepersian@shortarticleTitle}[1]{\shortarticleTitleFormat #1}}

```



```

3914 \newcommand{\shortarticleSubtitleFormat}{\Large}
3915 \newcommand{\xepersian@shortarticleSubtitle}[1]{\{\shortarticleSubtitleFormat #1\}}
3916 \newcommand{\shortarticleItemTitleFormat}{\large\bfseries}
3917 \newcommand{\xepersian@shortarticleItemTitle}[1]{\{\shortarticleItemTitleFormat #1\}}
3918 \renewcommand{\maketitle}{\begin{titlepage}%
3919   \let\footnotesize\small
3920   \let\footnoterule\relax
3921   \let \footnote \thanks
3922   \null\vfil
3923   \vskip 60\p@
3924   \begin{center}%
3925     {\LARGE \@title \par}%
3926     \vskip 1em%
3927     {\LARGE «\xepersian@edition» \par}%
3928     \vskip 3em%
3929     {\large
3930       \lineskip .75em%
3931       \begin{tabular}[t]{c}%
3932         \@author
3933       \end{tabular}\par}%
3934       \vskip 1.5em%
3935       {\large \@date \par}%
3936     \end{center}\par
3937     \@thanks
3938     \vfil\null
3939   \end{titlepage}%
3940   \setcounter{footnote}{0}%
3941   \global\let\thanks\relax
3942   \global\let\maketitle\relax
3943   \global\let\@thanks\@empty
3944   \global\let\@author\@empty
3945   \global\let\@date\@empty
3946   \global\let\@title\@empty
3947   \global\let\title\relax
3948   \global\let\author\relax
3949   \global\let\date\relax
3950   \global\let\and\relax
3951 }
3952 \newcommand{\xepersian@say}[1]{\typeout{#1}}
3953 \newsavebox{\xepersian@fmbox}
3954 \newenvironment{xepersian@fmpage}[1]
3955   {\begin{lrbox}{\xepersian@fmbox}\begin{minipage}{#1}}
3956   {\end{minipage}\end{lrbox}\fbox{\usebox{\xepersian@fmbox}}}
3957 \newcommand{\image}[2]{
3958   \vspace{5pt}
3959   \setlength{\fboxsep}{1pt}
3960   \addtolength{\xepersian@imgsize}{\columnwidth}
3961   \addtolength{\xepersian@imgsize}{-1\columnsep}
3962   \ifxetex
3963     \setlength{\xepersian@pageneed}{1.5\xepersian@imgsize}

```



```

3964 \addtolength{\xepersian@pageneed}{50pt}
3965 \ClassWarning{xepersian-magazine}{%
3966 Image #1 needs: \the\xepersian@pageneed \space %
3967 and there is left: \the\page@free\space%
3968 }
3969 \ifdim \xepersian@pageneed < \page@free
3970
3971 {\centering\fbbox{%
3972 \includegraphics[width = \xepersian@imgsize,
3973 height = \xepersian@imgsize,
3974 keepaspectratio ]{#1}}
3975 \xepersian@pictureCaption{#2}
3976
3977 \vspace{5pt}
3978 \else
3979 \ClassWarning{Image #1 needs more space!%
3980 It was not inserted!}
3981 \fi
3982 \fi
3983 }
3984 \textblockorigin{1cm}{1cm}
3985 \newdimen\xepersian@dx
3986 \newdimen\xepersian@dy
3987 \newcount\xepersian@cx
3988 \newcount\xepersian@cy
3989 \newcommand{\grid}[3][ ]{
3990 \xepersian@dx=\textwidth%
3991 \xepersian@dy=\textheight%
3992 \xepersian@cx=#3% %columns
3993 \xepersian@cy=#2% %rows
3994
3995 \count1=#3%
3996 \advance\count1 by 1
3997
3998 \count2=#2%
3999 \advance\count2 by 1
4000
4001 \divide\xepersian@dx by #3
4002 \divide\xepersian@dy by #2
4003
4004 \setlength{\TPHorizModule}{\xepersian@dx}
4005 \setlength{\TPVertModule}{\xepersian@dy}
4006
4007 \ifthenelse{\equal{#1}{show}}{
4008 \multido{\xepersian@nrow=0+1}{\count2}{
4009 \begin{textblock}{\xepersian@cx}(0,\xepersian@nrow)
4010 \rule[0pt]{\textwidth}{.1pt}
4011 \end{textblock}
4012 }
4013

```



```

4014 \multido{\xepersian@ncol=0+1}{\count1}{
4015 \begin{textblock}{\xepersian@cy}{\xepersian@ncol,0}
4016 \rule[0pt]{.1pt}{\textheight}
4017 \end{textblock}
4018 }
4019 }{}
4020 }
4021 \newcommand{\xepersianInit}{
4022 \setlength{\headheight}{14pt}
4023 \renewcommand{\headrulewidth}{0.4pt}
4024
4025 \pagestyle{fancy}
4026
4027 \setlength{\columnseprule}{\columnlines}
4028 \setlength{\fboxrule}{0.1 pt}
4029
4030 }
4031
4032 \def\customlogo#1{\gdef\@customlogo{\beginR#1\endR}}
4033 \def\customminilogo#1{\gdef\@customminilogo{\beginR#1\endR}}
4034 \def\custommagazinenamename#1{\gdef\@custommagazinenamename{\beginR#1\endR}}
4035 \newcommand{\logo}[0]{
4036 %% Heading %%
4037 \noindent\hrulefill\hspace{10pt}\xepersian@editionLogo\hspace{5pt}\xepersian@www
4038
4039 \vspace*{-3pt}
4040
4041 {\Large\bfseries \@customlogo}
4042 \hrulefill
4043 \hspace{10pt}\xepersian@headDateTime
4044
4045 }
4046 \newcommand{\minilogo}[0]{
4047 {\large\bfseries \@customminilogo}
4048
4049 \vspace*{5pt}
4050 }
4051 \newcommand{\mylogo}[1]{
4052 {\beginR#1\endR}
4053
4054 \noindent
4055 \xepersian@editionLogo\hspace{5pt}
4056 \hrulefill
4057 \hspace{5pt}\xepersian@headDateTime
4058 }
4059 \newcommand{\edition}[1]{\renewcommand{\xepersian@edition}{#1}}
4060 \newenvironment{frontpage}[0]
4061 {
4062 \setboolean{xepersian@insidefrontpage}{true}
4063 \thispagestyle{empty}

```



```

4064 \logo
4065
4066 }%
4067 {
4068 \thispagestyle{empty}
4069 \clearpage
4070 \newpage
4071 \fancyhead{}
4072 \fancyfoot{}
4073 \fancyhead[R0,LE]{\beginR\xepersian@headright\endR}
4074 \fancyhead[L0,RE]{\beginR\xepersian@headleft\endR}
4075 \fancyhead[C]{\beginR\xepersian@headcenter\endR}
4076 \fancyfoot[R0,LE]{\beginR\xepersian@footright\endR}
4077 \fancyfoot[L0,RE]{\beginR\xepersian@footleft\endR}
4078 \fancyfoot[C]{\beginR\xepersian@footcenter\endR}
4079 \renewcommand{\headrulewidth}{0.4pt}
4080 \setboolean{xepersian@insidefrontpage}{false}
4081
4082 }
4083 \newcommand{\firstarticle}[3]
4084 {
4085 \ifthenelse{\boolean{xepersian@insidefrontpage}}{%
4086 \ifthenelse{\boolean{xepersian@hyphenatedtitles}}{%
4087 \begin{textblock}{24}(22,5)
4088 }
4089 {
4090 \begin{textblock}{28}(22,5)
4091 }
4092 \vspace{-7pt}
4093 \xepersian@firstTitle{#1}
4094 \end{textblock}
4095 \begin{textblock}{29}(22,10)
4096 \vspace{5pt plus 2pt minus 2pt}
4097
4098 \xepersian@firstText{\timestamp{#3}~#2}
4099
4100 \end{textblock}
4101
4102 \begin{textblock}{50}(0,15)
4103 \rule{50\TPHorizModule}{.3pt}
4104 \end{textblock}
4105 }{%else
4106 \ClassError{xepersian-magazine}{%
4107 \protect\firstarticle\space in a wrong place.\MessageBreak
4108 \protect\firstarticle\space may only appear inside frontpage environment.
4109 }{%
4110 \protect\firstarticle\space may only appear inside frontpage environment.
4111 }%
4112 }
4113 }

```



```

4114 \newcommand{\secondarticle}[5]
4115 {
4116 \ifthenelse{\boolean{xepersian@insidefrontpage}}{%
4117 \begin{textblock}{33}(2,16)
4118 \xepersian@pages{#4}
4119 \vspace{-5pt}
4120 \xepersian@secondTitle{#1}
4121
4122 \vspace*{5pt}
4123
4124 \xepersian@secondSubtitle{#2}
4125
4126 \vspace*{-7pt}
4127
4128 \xepersian@secondText{\timestamp{#5}~#3}
4129
4130 \end{textblock}
4131
4132 \begin{textblock}{33}(2,25)
4133 \vspace{5pt plus 2pt minus 2pt}
4134
4135 \noindent\ignorespaces\rule{33\TPHorizModule}{.3pt}
4136 \end{textblock}
4137 }{%else
4138 \ClassError{xepersian-magazine}{%
4139 \protect\secondarticle\space in a wrong place.\MessageBreak
4140 \protect\secondarticle\space may only appear inside frontpage environment.
4141 }{%
4142 \protect\secondarticle\space may only appear inside frontpage environment.
4143 }%
4144 }
4145 }
4146 \newcommand{\thirdarticle}[6]
4147 {
4148 \ifthenelse{\boolean{xepersian@insidefrontpage}}{%
4149 \begin{textblock}{32}(2,26)
4150 \xepersian@pages{#5}
4151 \vspace{-5pt}
4152 \setlength{\fboxsep}{1pt}
4153 \xepersian@thirdTitle{#1}
4154
4155 \vspace*{5pt}
4156
4157 \xepersian@thirdSubtitle{#2}
4158
4159 \vspace*{5pt}
4160
4161 {\noindent\ignorespaces %
4162 \ifthenelse{\equal{#4}{}}{}}
4163

```



```

4164 \xepersian@thirdText{\timestamp{#6}~#3}
4165
4166 }
4167
4168 \vspace*{5pt}
4169
4170 \end{textblock}
4171 }{%else
4172 \ClassError{xepersian-magazine}{%
4173 \protect\thirdarticle\space in a wrong place.\MessageBreak
4174 \protect\thirdarticle\space may only appear inside frontpage environment.
4175 }{%
4176 \protect\thirdarticle\space may only appear inside frontpage environment.
4177 }%
4178 }
4179 }
4180 \newcommand{\firstimage}[2]
4181 {
4182 \ifthenelse{\boolean{xepersian@insidefrontpage}}{%
4183 \begin{textblock}{18}(2,5)
4184 \setlength{\fboxsep}{1pt}
4185 \ifxetex % only in PDF
4186 \noindent\fbox{\includegraphics[width = 18\TPHorizModule ]{#1}}
4187 \fi
4188
4189 \xepersian@pictureCaption{#2}
4190 \end{textblock}}%
4191 }
4192 {\ClassError{xepersian-magazine}{%
4193 \protect\firstimage\space in a wrong place.\MessageBreak
4194 \protect\firstimage\space may only appear inside frontpage environment.
4195 }{%
4196 \protect\firstimage\space may only appear inside frontpage environment.
4197 }}
4198 }%
4199 \newcommand{\weatheritem}[5]{%
4200 \ifthenelse{\boolean{xepersian@insideweather}}{
4201 \begin{minipage}{45pt}
4202 \ifxetex
4203 \includegraphics[width=40pt]{#1}
4204 \fi
4205 \end{minipage}
4206 \begin{minipage}{50pt}
4207 \weatherTempFormat
4208 #2\\
4209 \beginL#3 $\\$ #4 \lr{\weatherUnits{}}\endL\\
4210 #5
4211 \end{minipage}
4212 }{%else
4213 \ClassError{xepersian-magazine}{%

```



```

4214 \protect\weatheritem\space in a wrong place.\MessageBreak
4215 \protect\weatheritem\space may only appear inside weatherblock environment.
4216 }{%
4217 \protect\weatheritem\space may only appear inside weatherblock environment.\MessageBreak
4218 weatherblock environment may only appear inside frontpage environment.
4219 }%
4220 }
4221 }
4222 \newenvironment{weatherblock}[1]
4223 {
4224 \ifthenelse{\boolean{xepersian@insidefrontpage}}{%
4225 \setboolean{xepersian@insideweather}{true}
4226 \begin{textblock}{32}(2,38)
4227 \vspace*{-15pt}
4228
4229 \xepersian@weather{\beginR#1\endR}
4230
4231 \vspace*{5pt}
4232
4233 \noindent\begin{xepersian@fmpage}{32\TPHorizModule}
4234 \begin{minipage}{32\TPHorizModule}
4235 \hspace{5pt}
4236
4237 }{%
4238 \ClassError{xepersian-magazine}{%
4239 weatherblock in a wrong place.\MessageBreak
4240 weatherblock may only appear inside frontpage environment.
4241 }{%
4242 weatherblock may only appear inside frontpage environment.
4243 }
4244 }
4245 }%
4246 {
4247 \end{minipage}
4248 \end{xepersian@fmpage}
4249 \end{textblock}
4250 \setboolean{xepersian@insideweather}{false}
4251 }
4252 \newenvironment{authorblock}[0]
4253 {
4254 \ifthenelse{\boolean{xepersian@insidefrontpage}}{%
4255 \begin{textblock}{15}(36,35)
4256 \setlength{\fboxsep}{5pt}
4257 \begin{xepersian@fmpage}{13\TPHorizModule}
4258 \begin{minipage}{13\TPHorizModule}
4259 \centering
4260 \minilogo
4261
4262 }{%else
4263 \ClassError{xepersian-magazine}{%

```





```

4264 authorblock in a wrong place.\MessageBreak
4265 authorblock may only appear inside frontpage environment.
4266 }{%
4267 authorblock may only appear inside frontpage environment.
4268 }
4269 }
4270 }
4271 {
4272 \end{minipage}
4273 \end{xepersian@fmpage}
4274 \end{textblock}
4275 }
4276 \newenvironment{indexblock}[1]
4277 {
4278 \ifthenelse{\boolean{xepersian@insidefrontpage}}{%
4279 \setboolean{xepersian@insideindex}{true}%let's in
4280 \begin{textblock}{15}(36,16)
4281 \setlength{\xepersian@indexwidth}{13\TPHorizModule}
4282 \xepersian@indexFrameTitle{#1}
4283
4284 \setlength{\fboxsep}{5pt} %espacio entre el frame y la imagen
4285 \begin{xepersian@fmpage}{\xepersian@indexwidth}
4286 \begin{minipage}{\xepersian@indexwidth}
4287 \vspace*{10pt}
4288 }{%else
4289 \ClassError{xepersian-magazine}{%
4290 indexblock in a wrong place.\MessageBreak
4291 indexblock may only appear inside frontpage environment.
4292 }{%
4293 indexblock may only appear inside frontpage environment.
4294 }
4295 }
4296 }%
4297 {
4298 \end{minipage}
4299 \end{xepersian@fmpage}
4300 \end{textblock}
4301 \setboolean{xepersian@insideindex}{false}%let's out
4302 }
4303 \newcommand{\indexitem}[2]
4304 {
4305 \ifthenelse{\boolean{xepersian@insideindex}}{
4306 \xepersian@indexEntry{#1 \xepersian@indexEntryPage{\pageref{#2}}}
4307
4308 \vspace{0.5cm}
4309
4310 \noindent\ignorespaces\indexEntrySeparator{
4311 }{%else
4312 \ClassError{xepersian-magazine}{%
4313 \protect\indexitem\space in a wrong place.\MessageBreak

```



```

4314 \protect\indexitem\space may only appear inside indexblock environment.
4315 }{%
4316 \protect\indexitem\space may only appear inside indexblock environment.\MessageBreak
4317 indexblock environment may only appear inside frontpage environment.
4318 }%
4319 }
4320 }
4321 \newcommand{\xepersian@inexpandedtitle}[1]{
4322 \begin{minipage}{.95\textwidth}
4323 \begin{center}
4324 \noindent\Large\textbf{\beginR#1\endR}
4325 \end{center}
4326 \end{minipage}
4327 }
4328 \newcommand{\expandedtitle}[2]{
4329 \end{multicols}
4330
4331 \begin{center}
4332 \setlength{\fboxsep}{5pt}
4333 \setlength{\shadowsize}{2pt}
4334 \ifthenelse{\equal{#1}{shadowbox}}{%
4335 \shadowbox{%
4336 \xepersian@inexpandedtitle{#2}%
4337 }%
4338 }{}
4339 \ifthenelse{\equal{#1}{doublebox}}{%
4340 \doublebox{%
4341 \xepersian@inexpandedtitle{#2}%
4342 }%
4343 }{}
4344 \ifthenelse{\equal{#1}{ovalbox}}{%
4345 \ovalbox{%
4346 \xepersian@inexpandedtitle{#2}%
4347 }%
4348 }{}
4349 \ifthenelse{\equal{#1}{ovalbox}}{%
4350 \ovalbox{%
4351 \xepersian@inexpandedtitle{#2}%
4352 }%
4353 }{}
4354 \ifthenelse{\equal{#1}{lines}}{
4355 \hrule
4356 \vspace*{8pt}
4357 \begin{center}
4358 \noindent\Large\textbf{#2}
4359 \end{center}
4360 \vspace*{8pt}
4361 \hrule
4362 }{}
4363 \end{center}

```



```

4364
4365 \begin{multicols}{\xepersian@ncolumns{}}
4366 \ifnum \xepersian@ncolumns > \minraggedcols
4367 \raggedFormat
4368 \fi
4369 }
4370 \newcommand{\xepersian@incolumntitle}[2]{
4371 \begin{minipage}{#1}
4372 \begin{center}
4373 \noindent\normalsize\textbf{#2}
4374 \end{center}
4375 \end{minipage}
4376 }
4377
4378 \newcommand{\columnntitle}[2]{
4379 \vspace*{5pt}
4380 \begin{center}
4381 \setlength{\fboxsep}{5pt}
4382 \setlength{\shadowsize}{2pt}
4383 \addtolength{\xepersian@coltitsize}{\columnwidth}
4384 \addtolength{\xepersian@coltitsize}{-1\columnsep}
4385 \addtolength{\xepersian@coltitsize}{-5pt}
4386 \addtolength{\xepersian@coltitsize}{-1\shadowsize}
4387 \ifthenelse{\equal{#1}{shadowbox}}{%
4388 \shadowbox{%
4389 \xepersian@incolumntitle{\xepersian@coltitsize}{#2}%
4390 }%
4391 }{}
4392 \ifthenelse{\equal{#1}{doublebox}}{%
4393 \doublebox{%
4394 \xepersian@incolumntitle{\xepersian@coltitsize}{#2}%
4395 }%
4396 }{}
4397 \ifthenelse{\equal{#1}{ovalbox}}{%
4398 \ovalbox{%
4399 \xepersian@incolumntitle{\xepersian@coltitsize}{#2}%
4400 }%
4401 }{}
4402 \ifthenelse{\equal{#1}{ovalbox}}{%
4403 \ovalbox{%
4404 \xepersian@incolumntitle{\xepersian@coltitsize}{#2}%
4405 }%
4406 }{}
4407 \ifthenelse{\equal{#1}{lines}}{
4408 \hrule
4409 \vspace*{5pt}
4410 \begin{center}
4411 \noindent\normalsize\textbf{#2}
4412 \end{center}
4413 \vspace*{5pt}

```



```

4414 \hrule
4415 }{}
4416 \end{center}
4417 }
4418 \renewcommand{\date}{\%
4419 \longdate{\today}}%
4420 }
4421 \newcommand{\authorandplace}[2]{\%
4422 \rightline{\%
4423 {\innerAuthorFormat #1},\space}{\innerPlaceFormat #2}}%
4424 }%
4425 \par %
4426 }
4427 \newcommand{\newsection}[1]{
4428 \renewcommand{\xepersian@section}{#1}
4429 }
4430 \newenvironment{article}[5]
4431 {
4432 \xepersian@say{Adding a new piece of article}
4433 \renewcommand{\xepersian@ncolumns}{#1}
4434 \begin{multicols}{#1}[
4435 \xepersian@pages{#4}
4436 \xepersian@innerTitle{#2}}%
4437 \xepersian@innerSubtitle{#3}}%
4438 ] [4cm]%
4439 \label{#5}
4440 \ifnum #1 > \minraggedcols
4441 \raggedFormat
4442 \fi
4443 }
4444 {\sim\innerTextFinalMark{}
4445 \end{multicols}
4446 }
4447 \newcommand{\articlesep}{\%
4448 \setlength{\xepersian@pageneed}{16000pt}
4449 \setlength{\xepersian@pageleft}{\pagegoal}
4450 \addtolength{\xepersian@pageleft}{-\pagetotal}
4451 }
4452 \xepersian@say{How much left \the\xepersian@pageleft}
4453 }
4454 \ifdim \xepersian@pageneed < \xepersian@pageleft
4455 \xepersian@say{Not enough space}
4456 \else
4457 \xepersian@say{Adding sep line between articles}
4458 \vspace*{10pt plus 10pt minus 5pt}
4459 \hrule
4460 \vspace*{10pt plus 5pt minus 5pt}
4461 \fi
4462 }
4463 }

```



```

4464 \newcommand{\xepersian@editorialTit}[2]{
4465 \setlength{\arrayrulewidth}{.1pt}
4466 \begin{center}
4467 \begin{tabular}{c}
4468 \noindent
4469 \xepersian@editorialTitle{#1}
4470 \vspace{2pt plus 1pt minus 1pt}
4471 \\
4472 \hline
4473 \vspace{2pt plus 1pt minus 1pt}
4474 \\
4475 \editorialAuthorFormat{#2}
4476 \end{tabular}
4477 \end{center}
4478 }
4479 \newenvironment{editorial}[4]
4480 {
4481 \xepersian@say{Adding a new editorial}
4482 \begin{multicols}{#1}[%
4483 \xepersian@editorialTit{#2}{#3}%
4484 ] [4cm]
4485 \label{#4}
4486 \ifnum #1 > \minraggedcols
4487 \raggedFormat
4488 \fi
4489 }
4490 {
4491 \end{multicols}
4492 }
4493 \newcommand{\xepersian@shortarticleTit}[2]{
4494 \begin{center}
4495 \vbox{%
4496 \noindent
4497 \xepersian@shortarticleTitle{#1}
4498 \vspace{4pt plus 2pt minus 2pt}
4499 \hrule
4500 \vspace{4pt plus 2pt minus 2pt}
4501 \xepersian@shortarticleSubtitle{#2}
4502 }
4503 \end{center}
4504 }
4505 \newenvironment{shortarticle}[4]
4506 {
4507 \xepersian@say{Adding a short article block}
4508 \begin{multicols}{#1}[\xepersian@shortarticleTit{#2}{#3}] [4cm] %
4509 \label{#4}
4510 \par %
4511 \ifnum #1 > \minraggedcols
4512 \raggedFormat
4513 \fi

```



```

4514 }
4515 {
4516 \end{multicols}
4517 }
4518 \newcommand{\shortarticleitem}[2]{
4519 \goodbreak
4520 \vspace{5pt plus 3pt minus 3pt}
4521 {\vbox{\noindent\expersian@shortarticleItemTitle{#1}}}
4522 \vspace{5pt plus 3pt minus 3pt}
4523 {\noindent #2}\}
4524 }

```

## 7.56 xepersian-mathsdigitspec.sty

```

4525 \NeedsTeXFormat{LaTeX2e}
4526 \ProvidesPackage{xepersian-mathsdigitspec}
4527 [2014/11/21 v1.1.0 Unicode Persian maths digits in XeLaTeX]
4528 \def\new@mathgroup{\alloc@8\mathgroup\chardef\@cclvi}
4529 \let\newfam\new@mathgroup
4530 \def\select@group#1#2#3#4{%
4531 \ifx\math@bgroup\bgroup\else\relax\expandafter\@firstofone\fi
4532 {%
4533 \ifmmode
4534 \ifnum\csname c@mv@\math@version\endcsname<\@cclvi
4535 \begingroup
4536 \escapechar\m@ne
4537 \getanddefine@fonts{\csname c@mv@\math@version\endcsname}#3%
4538 \globaldefs\@ne \math@fonts
4539 \endgroup
4540 \init@restore@version
4541 \xdef#1{\noexpand\use@mathgroup\noexpand#2%
4542 {\number\csname c@mv@\math@version\endcsname}}}%
4543 \global\advance\csname c@mv@\math@version\endcsname\@ne
4544 \else
4545 \let#1\relax
4546 \@latex@error{Too many math alphabets used in
4547 version \math@version}%
4548 \@eha
4549 \fi
4550 \else \expandafter\non@alpherr\fi
4551 #1{#4}%
4552 }%
4553 }
4554 \def\document@select@group#1#2#3#4{%
4555 \ifx\math@bgroup\bgroup\else\relax\expandafter\@firstofone\fi
4556 {%
4557 \ifmmode
4558 \ifnum\csname c@mv@\math@version\endcsname<\@cclvi
4559 \begingroup
4560 \escapechar\m@ne

```



```

4561 \getanddefine@fonts{\csname c@mv@\math@version\endcsname}#3%
4562 \globaldefs\@ne \math@fonts
4563 \endgroup
4564 \expandafter\extract@alph@from@version
4565 \csname mv@\math@version\expandafter\endcsname
4566 \expandafter{\number\csname
4567 c@mv@\math@version\endcsname}%
4568 #1%
4569 \global\advance\csname c@mv@\math@version\endcsname\@ne
4570 \else
4571 \let#1\relax
4572 \@latex@error{Too many math alphabets used
4573 in version \math@version}%
4574 \@eha
4575 \fi
4576 \else \expandafter\non@alpherr\fi
4577 #1{#4}%
4578 }%
4579 }
4580 \ExplSyntaxOn
4581 \bool_set_false:N \g__fontspec_math_bool
4582 \tl_map_inline:nn
4583 {
4584 \new@mathgroup\cdp@list\cdp@elt\DeclareMathSizes
4585 \@DeclareMathSizes\newmathalphabet\newmathalphabet@@\newmathalphabet@@@
4586 \DeclareMathVersion\define@mathalphabet\define@mathgroup\addtoversion
4587 \version@list\version@elt\alpha@list\alpha@elt
4588 \restore@mathversion\init@restore@version\dorestore@version\process@table
4589 \new@mathversion\DeclareSymbolFont\group@list\group@elt
4590 \new@symbolfont\SetSymbolFont\SetSymbolFont@get@cdp
4591 \DeclareMathAlphabet\new@mathalphabet\SetMathAlphabet\SetMathAlphabet@
4592 \DeclareMathAccent\set@mathaccent\DeclareMathSymbol\set@mathchar
4593 \set@mathsymbol\DeclareMathDelimiter\@xxDeclareMathDelimiter
4594 \@DeclareMathDelimiter\@xDeclareMathDelimiter\set@mathdelimiter
4595 \set@@@mathdelimiter\DeclareMathRadical\mathchar@type
4596 \DeclareSymbolFontAlphabet\DeclareSymbolFontAlphabet@
4597 }
4598 {
4599 \tl_remove_once:Nn \@preamblecmds {\do#1}
4600 }
4601 \ExplSyntaxOff
4602 \newcommand\xepersian@PackageInfo[1]{\PackageInfo{xepersian-mathsdigitsspec}{#1}}
4603 \newcommand\SetMathCode[4]{%
4604 \Umathcode#1="\mathchar@type#2 \csname sym#3\endcsname #4\relax}
4605 \newcommand\SetMathCharDef[4]{%
4606 \Umathchardef#1="\mathchar@type#2 \csname sym#3\endcsname #4\relax}
4607 \ExplSyntaxOn
4608 \cs_new_eq:NN \orig_mathbf:n \mathbf
4609 \cs_new_eq:NN \orig_mathit:n \mathit
4610 \cs_new_eq:NN \orig_mathrm:n \mathrm

```



```

4611 \cs_new_eq:NN \orig_mathsf:n \mathsf
4612 \cs_new_eq:NN \orig_mathtt:n \mathtt
4613 \NewDocumentCommand \new@mathbf { m } {
4614   \orig_mathbf:n {
4615     \int_step_inline:nnnn { `0 } { \c_one } { `9 } {
4616       \mathcode ##1 = \numexpr "100 * \symnew@mathbf@font@digits + ##1 \relax
4617     }
4618     #1
4619   }
4620 }
4621 \NewDocumentCommand \new@mathit { m } {
4622   \orig_mathit:n {
4623     \int_step_inline:nnnn { `0 } { \c_one } { `9 } {
4624       \mathcode ##1 = \numexpr "100 * \symnew@mathit@font@digits + ##1 \relax
4625     }
4626     #1
4627   }
4628 }
4629 \NewDocumentCommand \new@mathrm { m } {
4630   \orig_mathrm:n {
4631     \int_step_inline:nnnn { `0 } { \c_one } { `9 } {
4632       \mathcode ##1 = \numexpr "100 * \symnew@mathrm@font@digits + ##1 \relax
4633     }
4634     #1
4635   }
4636 }
4637 \NewDocumentCommand \new@mathsf { m } {
4638   \orig_mathsf:n {
4639     \int_step_inline:nnnn { `0 } { \c_one } { `9 } {
4640       \mathcode ##1 = \numexpr "100 * \symnew@mathsf@font@digits + ##1 \relax
4641     }
4642     #1
4643   }
4644 }
4645 \NewDocumentCommand \new@mathtt { m } {
4646   \orig_mathtt:n {
4647     \int_step_inline:nnnn { `0 } { \c_one } { `9 } {
4648       \mathcode ##1 = \numexpr "100 * \symnew@mathtt@font@digits + ##1 \relax
4649     }
4650     #1
4651   }
4652 }
4653 \DeclareDocumentCommand \setdigitfont { 0{} m 0{} } {%
4654   \let\glb@currsize\relax
4655   \fontspec_set_family:Nnn \xepersian@digits@family {Mapping=parsidigits,#1,#3}{#2}
4656   \xepersian@PackageInfo{Defining the default Persian maths digits font as '#2'}
4657   \DeclareSymbolFont{OPERATORS}{EU1}{\xepersian@digits@family}{m}{n}
4658   \DeclareSymbolFont{new@mathbf@font@digits}{EU1}{\xepersian@digits@family}{bx}{n}
4659   \DeclareSymbolFont{new@mathit@font@digits}{EU1}{\xepersian@digits@family}{m}{it}
4660   \DeclareSymbolFont{new@mathrm@font@digits}{EU1}{\xepersian@digits@family}{m}{n}

```





```

4661 \def\persianmathsdigits{%
4662 \SetMathCode{`0}{\mathalpha}{OPERATORS}{`0}
4663 \SetMathCode{`1}{\mathalpha}{OPERATORS}{`1}
4664 \SetMathCode{`2}{\mathalpha}{OPERATORS}{`2}
4665 \SetMathCode{`3}{\mathalpha}{OPERATORS}{`3}
4666 \SetMathCode{`4}{\mathalpha}{OPERATORS}{`4}
4667 \SetMathCode{`5}{\mathalpha}{OPERATORS}{`5}
4668 \SetMathCode{`6}{\mathalpha}{OPERATORS}{`6}
4669 \SetMathCode{`7}{\mathalpha}{OPERATORS}{`7}
4670 \SetMathCode{`8}{\mathalpha}{OPERATORS}{`8}
4671 \SetMathCode{`9}{\mathalpha}{OPERATORS}{`9}
4672 \SetMathCharDef{\%}{\mathbin}{OPERATORS}{` }

4673 \SetMathCharDef{\decimalseparator}{\mathord}{OPERATORS}{"066B}
4674 \cs_set_eq:NN \mathbf \new@mathbf
4675 \cs_set_eq:NN \mathit \new@mathit
4676 \cs_set_eq:NN \mathrm \new@mathrm}
4677 }
4678 \DeclareDocumentCommand \setmathsfdigitfont { 0{} m 0{} }
4679 {
4680 \fontspec_set_family:Nnn \g_fontspec_mathsf_tl {Mapping=parsidigits,#1,#3}{#2}
4681 \DeclareSymbolFont{new@mathsf@font@digits}{EU1}{\g_fontspec_mathsf_tl}{m}{n}
4682 \def\persianmathsfdigits{\cs_set_eq:NN \mathsf \new@mathsf}
4683 }
4684 \DeclareDocumentCommand \setmathttdigitfont { 0{} m 0{} }
4685 {
4686 \fontspec_set_family:Nnn \g_fontspec_mathtt_tl {Mapping=parsidigits,#1,#3}{#2}
4687 \DeclareSymbolFont{new@mathtt@font@digits}{EU1}{\g_fontspec_mathtt_tl}{m}{n}
4688 \def\persianmathttdigits{\cs_set_eq:NN \mathtt \new@mathtt}
4689 }
4690 \ExplSyntaxOff
4691 \ifx\newcommand\undefined\else
4692 \newcommand{\ZifferAn}{}
4693 \fi
4694 \mathchardef\ziffer@DotOri="013A
4695 {\ZifferAn
4696 \catcode\.\=\active\gdef.{\begingroup\obeyspaces\futurelet\n\ziffer@dcheck}}
4697 \def\ziffer@dcheck{\ziffer@check\ZifferLeer\ziffer@DotOri}
4698 \def\ziffer@check#1#2{%
4699 \ifx\n1\endgroup#1\else
4700 \ifx\n2\endgroup#1\else
4701 \ifx\n3\endgroup#1\else
4702 \ifx\n4\endgroup#1\else
4703 \ifx\n5\endgroup#1\else
4704 \ifx\n6\endgroup#1\else
4705 \ifx\n7\endgroup#1\else
4706 \ifx\n8\endgroup#1\else
4707 \ifx\n9\endgroup#1\else
4708 \ifx\n0\endgroup#1\else
4709 \ifx\n\overline\endgroup#1\else

```



```

4710             \endgroup#2%
4711         \fi
4712     \fi
4713 \fi
4714     \fi
4715 \fi
4716     \fi
4717 \fi
4718     \fi
4719 \fi
4720 \fi
4721 \fi}
4722 \mathcode`.="8000\relax
4723 \def\ZifferLeer{\ifx\decimalseparator\undefined.\else\decimalseparator\fi}
4724 \def\DefaultMathsDigits{\def\SetMathsDigits{}}
4725 \def\PersianMathsDigits{\def\SetMathsDigits{%
4726 \ifx\persianmathsdigits\undefined\else\persianmathsdigits\fi%
4727 \ifx\persianmathsfdigits\undefined\else\persianmathsfdigits\fi%
4728 \ifx\persianmathttdigits\undefined\else\persianmathttdigits\fi}}
4729 \def\AutoMathsDigits{\def\SetMathsDigits{%
4730 \ifx\persianmathsdigits\undefined\else\if@Latin\else\persianmathsdigits\fi\fi%
4731 \ifx\persianmathsfdigits\undefined\else\if@Latin\else\persianmathsfdigits\fi\fi%
4732 \ifx\persianmathttdigits\undefined\else\if@Latin\else\persianmathttdigits\fi\fi}}
4733 \AutoMathsDigits
4734 \everymath\expandafter{\the\everymath\SetMathsDigits}
4735 \g@addto@macro\document{\everydisplay\expandafter{\the\everydisplay\SetMathsDigits}}

```

## 7.57 xepersian-multiplechoice.sty

```

4736 \NeedsTeXFormat{LaTeX2e}
4737 \ProvidesPackage{xepersian-multiplechoice}[2010/07/25 v0.2
4738     Multiple Choice Questionnaire class for Persian in XeLaTeX]
4739 \RequirePackage{pifont}
4740 \RequirePackage{fullpage}
4741 \RequirePackage{ifthen}
4742 \RequirePackage{calc}
4743 \RequirePackage{verbatim}
4744 \RequirePackage{tabularx}
4745 \def\@headerfont{\bfseries}
4746 \newcommand\headerfont[1]{\gdef\@headerfont{#1}}
4747 \def\@X{X}
4748 \newcommand\X[1]{\gdef\@X{#1}}
4749 \def\pbs#1{\let\tmp=\@#1\let\@=\tmp}
4750 \newcolumnntype{D}{>\pbs\centering}X}
4751 \newcolumnntype{Q}{>\@headerfont}X}
4752
4753 \renewcommand\tabularxcolumn[1]{m{#1}}
4754 \newcommand\makeform@nocorrection{%
4755 \addtocontents{frm}{\protect\end{tabularx}}
4756 \starttoc{frm}}

```



```

4757 \newcommand\makeform@correction{%
4758   \addtocontents{frm}{\protect\end{tabularx}}}
4759 \newcommand\makemask@nocorrection{%
4760   \addtocontents{msk}{\protect\end{tabularx}}
4761   \@starttoc{msk}}
4762 \newcommand\makemask@correction{%
4763   \addtocontents{msk}{\protect\end{tabularx}}}
4764 \newlength\questionspace
4765 \setlength\questionspace{0pt}
4766 \newcommand\answerstitle[1]{\gdef\@answerstitle{#1}}
4767 \def\@answerstitlefont{\bfseries}
4768 \newcommand\answerstitlefont[1]{\gdef\@answerstitlefont{#1}}
4769 \def\@answernumberfont{\bfseries}
4770 \newcommand\answernumberfont[1]{\gdef\@answernumberfont{#1}}
4771 \newcounter{question}\stepcounter{question}
4772 \newcounter{@choice}
4773 \def\@initorcheck{%
4774   \xdef\@choices{\the@choice}%
4775   \setcounter{@choice}{1}%
4776   \gdef\@arraydesc{|Q|}%
4777   \gdef\@headerline{}%
4778   \whiledo{\not{\value{@choice}>\@choices}}{
4779     \xdef\@arraydesc{\@arraydesc D|}
4780     \def\@appendheader{\g@addto@macro\@headerline}
4781     \@appendheader{\&\protect\@headerfont}
4782     \edef\@the@choice{\alph{@choice}}
4783     \expandafter\@appendheader\@the@choice
4784     \stepcounter{@choice}}%
4785   \addtocontents{frm}{%
4786     \protect\begin{tabularx}{\protect\linewidth}{\@arraydesc}
4787     \protect\hline
4788     \@headerline\protect\\\protect\hline\protect\hline}%
4789   \addtocontents{msk}{%
4790     \protect\begin{tabularx}{\protect\linewidth}{\@arraydesc}
4791     \protect\hline
4792     \@headerline\protect\\\protect\hline\protect\hline}%
4793   \gdef\@initorcheck{%
4794     \ifthenelse{\value{@choice} = \@choices}{}%
4795     \ClassError{xepersian-multiplechoice}{Question \thequestion: wrong number of choices
4796       (\the@choice\space instead of \@choices)}{%
4797       Questions must all have the same number of proposed answers.%
4798       \MessageBreak
4799       Type X <return> to quit, fix your MCQ (multiple choice question) and rerun XeLaTeX.}}}}
4800 \newenvironment{question}[1]{%
4801   %% \begin{question}
4802   \begin{minipage}{\textwidth}
4803     \xdef\@formanswerline{\@questionheader}%
4804     \xdef\@maskanswerline{\@questionheader}%
4805     \fbox{\parbox[c]{\linewidth}{#1}}
4806     \vspace\questionspace\par

```



```

4807 {\@answerstylefont\@answerstyle}
4808 \begin{list}{\@answernumberfont\alph{choice}}~}{\usecounter{choice}}{ }%
4809 %% \end{question}
4810 \end{list}
4811 \@initcheck%
4812 \addtocontents{frm}{\@formanswerline\protect\\protect\hline}%
4813 \addtocontents{msk}{\@maskanswerline\protect\\protect\hline}%
4814 \end{minipage}
4815 \stepcounter{question}}
4816 \def\@truesymbol{\ding{52}~}
4817 \def\@falsesymbol{\ding{56}~}
4818 \newcommand\truesymbol[1]{\gdef\@truesymbol{#1}}
4819 \newcommand\falsesymbol[1]{\gdef\@falsesymbol{#1}}
4820 \def\@true@nocorrection{\item}
4821 \def\@false@nocorrection{\item}
4822 \def\@true@correction{\item[\@truesymbol\refstepcounter{choice}]}
4823 \def\@false@correction{\item[\@falsesymbol\refstepcounter{choice}]}
4824 \newcommand\true{%
4825 \xdef\@formanswerline{\@formanswerline&}%
4826 \xdef\@maskanswerline{\@maskanswerline&\@X}%
4827 \@true}%
4828 \newcommand>false{%
4829 \xdef\@formanswerline{\@formanswerline&}%
4830 \xdef\@maskanswerline{\@maskanswerline&}%
4831 \@false}%
4832 \def\@correctionstyle{\itshape}
4833 \newcommand\correctionstyle[1]{\gdef\@correctionstyle{#1}}
4834 \newenvironment{correction}{\@correctionstyle}{ }
4835 \def\@questionheader{ \thequestion}
4836 \answerstyle{ :
4837 \DeclareOption{nocorrection}{%
4838 \let\@true\@true@nocorrection
4839 \let\@false\@false@nocorrection
4840 \let\correction\comment
4841 \let\endcorrection\endcomment
4842 \def\makeform{\makeform@nocorrection}
4843 \def\makemask{\makemask@nocorrection}}
4844 \DeclareOption{correction}{%
4845 \let\@true\@true@correction
4846 \let\@false\@false@correction
4847 \let\correction\@correction
4848 \let\endcorrection\end@correction
4849 \def\makeform{\makeform@correction}
4850 \def\makemask{\makemask@correction}}
4851 \ExecuteOptions{nocorrection}
4852 \newcommand\questiontitle[1]{\gdef\@questiontitle{#1}}
4853 \def\@questiontitlefont{\bfseries}
4854 \newcommand\questiontitlefont[1]{\gdef\@questiontitlefont{#1}}
4855 \newlength\questiontitlespace
4856 \setlength\questiontitlespace{5pt}

```



```

4857 \newlength\questionsepspace
4858 \setlength\questionsepspace{20pt}
4859 \gdef\@questionsepspace{0pt}
4860 \let\old@question\question
4861 \let\old@endquestion\endquestion
4862 \renewenvironment{question}[1]{%
4863   %% \begin{question}
4864   \vspace\@questionsepspace
4865   \fbox{\parbox[c]{0.25\linewidth}{\@questiontitlefont\@questiontitle}}
4866   \nopagebreak\vspace\questiontitlespace\par
4867   \old@question{#1}}{%
4868   %% \end{question}
4869   \old@endquestion
4870   \gdef\@questionsepspace{\questionsepspace}}
4871 \questiontitle{ \thequestion:}
4872 \ProcessOptions

```

## 7.58 xepersian-persiancal.sty

```

4873 \NeedsTeXFormat{LaTeX2e}
4874 \ProvidesPackage{xepersian-persiancal}[2012/07/25 v0.2 provides Persian calendar]
4875
4876 \newif\ifXePersian@leap \newif\ifXePersian@kabiseh
4877 \newcount\XePersian@i \newcount\XePersian@y \newcount\XePersian@m \newcount\XePersian@d
4878 \newcount\XePersian@latini \newcount\XePersian@persiani
4879 \newcount\XePersian@latinii \newcount\XePersian@persianii
4880 \newcount\XePersian@latiniii \newcount\XePersian@persianiii
4881 \newcount\XePersian@latiniv \newcount\XePersian@persianiv
4882 \newcount\XePersian@latinvi \newcount\XePersian@persianv
4883 \newcount\XePersian@latinvi \newcount\XePersian@persianvi
4884 \newcount\XePersian@latinvii \newcount\XePersian@persianvii
4885 \newcount\XePersian@latinviii \newcount\XePersian@persianviii
4886 \newcount\XePersian@latinix \newcount\XePersian@persianix
4887 \newcount\XePersian@latinx \newcount\XePersian@persianx
4888 \newcount\XePersian@latinxi \newcount\XePersian@persianxi
4889 \newcount\XePersian@latinxii \newcount\XePersian@persianxii
4890 \newcount\XePersian@persianxiii
4891
4892 \newcount\XePersian@temp
4893 \newcount\XePersian@temptwo
4894 \newcount\XePersian@temptthree
4895 \newcount\XePersian@yModHundred
4896 \newcount\XePersian@thirtytwo
4897 \newcount\XePersian@dn
4898 \newcount\XePersian@sn
4899 \newcount\XePersian@mminusone
4900
4901
4902 \XePersian@y=\year \XePersian@m=\month \XePersian@d=\day
4903 \XePersian@temp=\XePersian@y

```



```

4904 \divide\XePersian@temp by 100\relax
4905 \multiply\XePersian@temp by 100\relax
4906 \XePersian@yModHundred=\XePersian@y
4907 \advance\XePersian@yModHundred by -\XePersian@temp\relax
4908 \ifodd\XePersian@yModHundred
4909   \XePersian@leapfalse
4910 \else
4911   \XePersian@temp=\XePersian@yModHundred
4912   \divide\XePersian@temp by 2\relax
4913   \ifodd\XePersian@temp\XePersian@leapfalse
4914   \else
4915     \ifnum\XePersian@yModHundred=0%
4916       \XePersian@temp=\XePersian@y
4917       \divide\XePersian@temp by 400\relax
4918       \multiply\XePersian@temp by 400\relax
4919       \ifnum\XePersian@y=\XePersian@temp\XePersian@leaptrue\else\XePersian@leapfalse\fi
4920       \else\XePersian@leaptrue
4921       \fi
4922   \fi
4923 \fi
4924 \XePersian@latini=31\relax
4925 \ifXePersian@leap
4926   \XePersian@latinii = 29\relax
4927 \else
4928   \XePersian@latinii = 28\relax
4929 \fi
4930 \XePersian@latiniii = 31\relax
4931 \XePersian@latiniv = 30\relax
4932 \XePersian@latinv = 31\relax
4933 \XePersian@latinvi = 30\relax
4934 \XePersian@latinvii = 31\relax
4935 \XePersian@latinviii = 31\relax
4936 \XePersian@latinix = 30\relax
4937 \XePersian@latinx = 31\relax
4938 \XePersian@latinxi = 30\relax
4939 \XePersian@latinxii = 31\relax
4940 \XePersian@thirtytwo=32\relax
4941 \XePersian@temp=\XePersian@y
4942 \advance\XePersian@temp by -17\relax
4943 \XePersian@temptwo=\XePersian@temp
4944 \divide\XePersian@temptwo by 33\relax
4945 \multiply\XePersian@temptwo by 33\relax
4946 \advance\XePersian@temp by -\XePersian@temptwo
4947 \ifnum\XePersian@temp=\XePersian@thirtytwo\XePersian@kabisehfalse
4948 \else
4949   \XePersian@temptwo=\XePersian@temp
4950   \divide\XePersian@temptwo by 4\relax
4951   \multiply\XePersian@temptwo by 4\relax
4952   \advance\XePersian@temp by -\XePersian@temptwo
4953   \ifnum\XePersian@temp=\z@\XePersian@kabisehtrue\else\XePersian@kabisehfalse\fi

```



```

4954 \fi
4955 \XePersian@tempthree=\XePersian@y % Number of Leap years
4956 \advance\XePersian@tempthree by -1
4957 \XePersian@temp=\XePersian@tempthree % T := (MY-1) div 4
4958 \divide\XePersian@temp by 4\relax
4959 \XePersian@temptwo=\XePersian@tempthree % T := T - ((MY-1) div 100)
4960 \divide\XePersian@temptwo by 100\relax
4961 \advance\XePersian@temp by -\XePersian@temptwo
4962 \XePersian@temptwo=\XePersian@tempthree % T := T + ((MY-1) div 400)
4963 \divide\XePersian@temptwo by 400\relax
4964 \advance\XePersian@temp by \XePersian@temptwo
4965 \advance\XePersian@tempthree by -611 % Number of Kabise years
4966 \XePersian@temptwo=\XePersian@tempthree % T := T - ((SY+10) div 33) * 8
4967 \divide\XePersian@temptwo by 33\relax
4968 \multiply\XePersian@temptwo by 8\relax
4969 \advance\XePersian@temp by -\XePersian@temptwo
4970 \XePersian@temptwo=\XePersian@tempthree %
4971 \divide\XePersian@temptwo by 33\relax
4972 \multiply\XePersian@temptwo by 33\relax
4973 \advance\XePersian@tempthree by -\XePersian@temptwo
4974 \ifnum\XePersian@tempthree=32\advance\XePersian@temp by 1\fi % if (SY+10) mod 33=32 then Inc(T);
4975 \divide\XePersian@tempthree by 4\relax % T := T - ((SY+10) mod 33) div 4
4976 \advance\XePersian@temp by -\XePersian@tempthree
4977 \advance\XePersian@temp by -137 % T := T - 137 Adjust the value
4978 \XePersian@persiani=31
4979 \advance\XePersian@persiani by -\XePersian@temp % now 31 - T is the persiani
4980 \XePersian@persianii = 30\relax
4981 \ifXePersian@kabiseh
4982 \XePersian@persianiii = 30\relax
4983 \else
4984 \XePersian@persianiii = 29\relax
4985 \fi
4986 \XePersian@persianiv = 31\relax
4987 \XePersian@persianv = 31\relax
4988 \XePersian@persianvi = 31\relax
4989 \XePersian@persianvii = 31\relax
4990 \XePersian@persianviii = 31\relax
4991 \XePersian@persianix = 31\relax
4992 \XePersian@persianx = 30\relax
4993 \XePersian@persianxi = 30\relax
4994 \XePersian@persianxii = 30\relax
4995 \XePersian@persianxiii = 30\relax
4996 \XePersian@dn= 0\relax
4997 \XePersian@sn= 0\relax
4998 \XePersian@mminusone=\XePersian@m
4999 \advance\XePersian@mminusone by -1\relax
5000 \XePersian@i=0\relax
5001 \ifnum\XePersian@i < \XePersian@mminusone
5002 \loop
5003 \advance \XePersian@i by 1\relax

```



```

5004 \advance\XePersian@dn by \csname XePersian@latin\romannumeral\the\XePersian@i\endcsname
5005 \ifnum\XePersian@i<\XePersian@mminusone \repeat
5006 \fi
5007 \advance \XePersian@dn by \XePersian@d
5008 \XePersian@i=1\relax
5009 \XePersian@sn = \XePersian@persiani
5010 \ifnum \XePersian@sn<\XePersian@dn \repeat
5011 \loop
5012 \advance \XePersian@i by 1\relax
5013 \advance\XePersian@sn by \csname XePersian@persian\romannumeral\the\XePersian@i\endcsname
5014 \ifnum \XePersian@sn<\XePersian@dn \repeat
5015 \fi
5016 \ifnum \XePersian@i < 4
5017 \XePersian@m = 9 \advance\XePersian@m by \XePersian@i
5018 \advance \XePersian@y by -622\relax
5019 \else
5020 \XePersian@m = \XePersian@i \advance \XePersian@m by -3\relax
5021 \advance \XePersian@y by -621\relax
5022 \fi
5023 \advance\XePersian@sn by -\csname XePersian@persian\romannumeral\the\XePersian@i%
5024 \endcsname
5025 \ifnum\XePersian@i = 1
5026 \XePersian@d = \XePersian@dn \advance \XePersian@d by 30 \advance\XePersian@d by -\XePersian@per
5027 \else
5028 \XePersian@d = \XePersian@dn \advance \XePersian@d by -\XePersian@sn
5029 \fi
5030 \newcommand*{\persiantoday}{\%
5031 \number\XePersian@d\space%
5032 \XePersian@persian@month{\XePersian@m}\space\number\XePersian@y%
5033 }
5034 \let\persianyear\XePersian@y
5035 \let\persianmonth\XePersian@m
5036 \let\persianday\XePersian@d
5037 \def\XePersian@persian@month#1{\ifcase#1\or or\
5038 or\
5039 or\ or\
5040 or\
5041 or\ or\
5042 or\ or\
5043 or\ or\
5044 \fi\

```





## Index

Symbols	
\!	2577
\%	4672
\.	1676, 4696
\@and	3211
\@if@newlist	1483, 1503, 3133, 3186
\@math	318
\@maybeautodot	2792, 2793, 2811, 2826, 2827, 2845, 2856, 2857, 2875
\@par	2104
\@Abjad	3219, 3227, 3228, 3630, 3631
\@Alph	2805, 2839, 2869, 3476, 3479, 3626, 3631
\@DeclareMathDelimiter	4594
\@DeclareMathSizes	4585
\@False	306, 308
\@LTRbidityftesidenote@sidenote	175
\@LTRfootnotetext	50, 66, 112, 127, 187, 194, 1549, 1566, 1746, 1761, 2134
\@LTRmarginparreset	3109
\@Latincitex	164, 165, 2368, 2377, 2567, 3117, 3118
\@Latinfalse	3099
\@Latintrue	3098, 3100, 3104
\@M	322, 1675, 1688, 1770, 3261, 3362, 3448
\@MM	20, 37, 56, 82, 99, 118, 1516, 1535, 1554, 1716, 1733, 1752
\@Mi	318
\@Mii	2027
\@Miii	2029
\@RTL@footnotefalse	3100, 3104, 3563
\@RTL@footnotetrue	3102, 3105, 3561
\@RTLbidityftesidenote@sidenote	202
\@RTLfalse	16, 52, 78, 114, 288, 300, 313, 1512, 1550, 1572, 1605, 1671, 1712, 1748, 3172, 3182, 3539, 3545
\@RTLfootnotetext	31, 65, 93, 126, 214, 221, 1530, 1565, 1727, 1760, 2135
\@RTLtrue	16, 33, 78, 95, 1512, 1531, 1572, 1590, 1671, 1712, 1729, 3172, 3182, 3537, 3543
\@Roman	2807, 2841, 2871
\@SepMark	1783, 1784, 1785, 1786, 1963
\@SetTab	2878
\@True	301, 307
\@X	4747, 4748, 4826
\@abjad	3437, 3456, 3457, 3625, 3626
\@acol	2259, 2267
\@acolampacol	2257, 2259, 2265, 2267
\@adadi	2803, 2837, 2867, 3235, 3237, 3240
\@addamp	2258, 2266
\@addtopreamble	2226
\@alph	2806, 2840, 2870, 2879, 3475, 3478, 3625, 3630
\@ampacol	2257, 2265
\@answernumberfont	4769, 4770, 4808
\@answerstitle	4766, 4807
\@answerstitlefont	4767, 4768, 4807
\@appendheader	4780, 4781, 4783
\@arrayclassz	2257
\@arraydesc	4776, 4779, 4786, 4790
\@arrayrule	2205, 2206, 2207, 2249, 2250, 2251
\@author	3932, 3944
\@autodottrue	2795, 2796, 2797, 2798,

2799, 2800, 2801, 2802, 2803,	2240, 2248, 2278, 2301, 2315
2804, 2805, 2806, 2807, 2808,	\@chnum . . . 2141, 2142, 2143, 2144,
2809, 2829, 2830, 2831, 2832,	2145, 2146, 2156, 2163, 2177,
2833, 2834, 2835, 2836, 2837,	2190, 2197, 2213, 2226, 2242,
2838, 2839, 2840, 2841, 2842,	2243, 2244, 2245, 2246, 2247,
2843, 2859, 2860, 2861, 2862,	2261, 2269, 2279, 2286, 2308
2863, 2864, 2865, 2866, 2867,	\@choices 4774, 4778, 4794, 4796
2868, 2869, 2870, 2871, 2872,	\@cite . . . 2356, 2363, 2375, 2391,
2873	2480, 3120
\@auxout . . . . . 3123	\@cite@ofmt . . . . . 3128
\@begin@tempboxa . . . . . 2104	\@citea . . 2396, 2410, 2424, 2433,
\@begin@dv . . . . . 3165	2434, 2435, 2440, 2455, 2463,
\@biblabel . . . . 1672, 2369, 2378	2464, 2465, 2499, 2515, 2533,
\@bibsetup . . . . . 2370, 2379	3119, 3121
\@bibtitlestyle . . . . . 1668	\@citeb . . 2392, 2394, 2396, 2399,
\@bidi@list@minipage@parbox@not@nobtrue	2401, 2402, 2404, 2427, 2458,
. . . . . 2101, 2123	2481, 2483, 2485, 2488, 2490,
\@bidi@list@minipage@parboxtrue	2491, 2493, 3120, 3122, 3123,
. . . . . 2102, 2124	3124, 3127, 3128
\@biditytesidenote@citations	\@citex . . . . . 2367, 2376
. . . 177, 204, 231, 238	\@classx . . . . . 2223
\@biditytesidenote@infootnote@cite	\@classz . . . . . 2223
. . . 176, 203, 230, 237	\@cleartopmattertags . . . . 1806
\@biditytesidenote@margin@par	\@colht . . . . . 3187
. . . . . 232, 239	\@correction . . . . . 4847
\@biditytesidenote@marginfont	\@correctionstyle . . 4832, 4833,
. . . . . 174	4834
\@biditytesidenote@marginnote@font	\@ctrerr . . . . . 3226, 3231
. . . . . 232, 239	\@currbox 2034, 2080, 2084, 2323,
\@biditytesidenote@marginnote@justification	2327, 2333, 2337
. . . . . 232, 239	\@currentlabel . . . . . 22, 39,
\@biditytesidenote@normal@cite	58, 84, 101, 120, 1518, 1537,
. . . 197, 224, 234, 241	1556, 1577, 1595, 1610, 1718,
\@biditytesidenote@print@citations	1735, 1754
. . . 196, 223, 233, 240	\@currenvir . . . 2641, 2643, 2644
\@biditytesidenote@sidenote@vertical	\@fusetmlogo . . . . . 4032, 4041
179, 181, 187, 194, 206, 208,	\@custommagazinenam 3801, 4034
214, 221	\@customminilogo . . . 4033, 4047
\@bsphack . . . . . 2026	\@customwwwTxt . 3762, 3765, 3817
\@capttype 2014, 2077, 2324, 2334	\@date . . . . . 3935, 3945
\@cclvi . . . . . 4528, 4534, 4558	\@dgroup . . . . . 300
\@chapapp . . . 254, 265, 272, 284,	\@dmath . . . . . 288, 317
1464, 1476, 1969, 2759, 2766,	\@doendpe . . . . . 2658
2773, 2781, 2822, 2852	\@dseries . . . . . 313
\@chclass . . . . . 2139, 2147, 2155,	\@eha . . . . . 4548, 4574
2170, 2184, 2189, 2204, 2220,	



\@empty ..... 303, 1670,  
1792, 2021, 2381, 2391, 2394,  
2480, 2483, 2612, 3119, 3122,  
3151, 3152, 3154, 3155, 3320,  
3326, 3329, 3332, 3428, 3943,  
3944, 3945, 3946  
\@emptytoks ..... 302  
\@enGroup ..... 1351  
\@enLabel . 1342, 1343, 1344, 1345,  
1346, 1347, 1348, 1349  
\@enOther ..... 1353  
\@enSpace ..... 1350  
\@end@tempboxa ..... 2119  
\@endpbox ..... 2233, 2234  
\@enhook ..... 1354  
\@enloop@ ..... 1341  
\@entemp . . 1342, 1343, 1344, 1345,  
1346, 1347, 1348, 1349, 1350,  
1351, 1352  
\@enum@ ..... 1352  
\@evenfoot ..... 3149  
\@evenhead ..... 3148  
\@extra@b@citeb .....  
. . 2396, 2402, 2404, 2427,  
2458, 2485, 2491, 2493  
\@extrafootnotefeaturesfalse .  
..... 3583  
\@extrafootnotefeaturestrue .  
..... 3581  
\@false ..... 4831, 4839, 4846  
\@false@correction . 4823, 4846  
\@false@nocorrection 4821, 4839  
\@falsesymbol . . 4817, 4819, 4823  
\@finalstrut . . . 1523, 1542, 1561,  
1581, 1599, 1614  
\@firstampfalse . . . 2259, 2267  
\@firstofone . . . 1662, 1663, 2394,  
2483, 3122, 4531, 4555  
\@float@HH ..... 2320, 2321  
\@float@Hx ..... 2319, 2320  
\@float@ ..... 2320, 2331  
\@floatboxreset 2090, 2329, 2339  
\@floatcapt ..... 2324, 2334  
\@floatpenalty 2027, 2029, 2032  
\@flstylefalse ..... 2326, 2336  
\@flstyletrue ..... 2326, 2336  
\@fltovf ..... 2082  
\@footnotemark 187, 194, 214, 221  
\@footnotetext . . 14, 64, 76, 125,  
1511, 1564, 1710, 1759, 2133  
\@for ..... 2392, 2481, 3120  
\@formanswerline . . . 4803, 4812,  
4825, 4829  
\@fps 2015, 2016, 2018, 2021, 2038  
\@fpsadddefault . . . 2019, 2022  
\@freelist ..... 2034  
\@gobble . . 1352, 1491, 1492, 1493,  
3161, 3162, 3163  
\@harfi ..... 12,  
74, 134, 140, 146, 152, 255,  
266, 273, 285, 1454, 1465,  
1477, 1696, 1970, 2760, 2767,  
2774, 2782, 2789, 2802, 2823,  
2836, 2853, 2866, 3229, 3232,  
3233  
\@headerfont . . . 4745, 4746, 4751,  
4781  
\@headerline . . 4777, 4780, 4788,  
4792  
\@idxitem ..... 1685, 1690  
\@ifclassloaded .....  
. . 3503, 3504, 3505, 3506,  
3507, 3508, 3509, 3510, 3511,  
3512, 3513, 3514, 3515, 3516,  
3517, 3518, 3519, 3520, 3521,  
3522, 3523, 3524, 3525, 3526,  
3589, 3601, 3613  
\@ifdefinable . . . . 2676, 2678  
\@ifdefinitionfileloaded 2011,  
2154, 2187, 2277, 2318, 3486  
\@ifempty ..... 1771  
\@ifnextchar . . 2320, 2561, 2567,  
3117  
\@ifnum . . 2498, 2500, 2502, 2509,  
2510, 2513, 2525, 2548, 2550  
\@ifpackageloaded .....  
167, 1885, 1889, 2570, 2574,  
2666, 2674, 3192, 3487, 3488,  
3489, 3490, 3491, 3492, 3493,  
3494, 3495, 3496, 3497, 3498,  
3499, 3500, 3501, 3502, 3503  
\@ifstar ..... 2560



<code>\@ifundefined</code> . . .	163, 2396, 2402, 2485, 2491, 3124	<code>\@namedef</code>	2350, 2404, 2493, 2657
<code>\@ignoretrue</code> . . . . .	324	<code>\@nameuse</code> . . . . .	3143
<code>\@iiiminipage</code> . . . . .	2120	<code>\@ne</code> . . . . .	1571, 1589, 1604, 2044, 2050, 2143, 2144, 2147, 2156, 2166, 2167, 2171, 2190, 2200, 2201, 2205, 2206, 2207, 2244, 2245, 2249, 2250, 2251, 2279, 2289, 2290, 2302, 2498, 2510, 2512, 2525, 2533, 3247, 3288, 3295, 3307, 3312, 3348, 3389, 3396, 3408, 3413, 4538, 4543, 4562, 4569
<code>\@iiiparbox</code> . . . . .	2098	<code>\@newlistfalse</code> . . . . .	1484, 3134
<code>\@indexfile</code> . . .	3591, 3603, 3615	<code>\@next</code> . . . . .	2034
<code>\@indextitlestyle</code> . . . . .	1683	<code>\@nextchar</code> . . . . .	2162, 2164, 2165, 2166, 2167, 2168, 2169, 2171, 2172, 2173, 2174, 2175, 2178, 2179, 2180, 2181, 2182, 2183, 2196, 2198, 2199, 2200, 2201, 2202, 2203, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2214, 2215, 2216, 2217, 2218, 2219, 2231, 2233, 2234, 2285, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2302, 2303, 2304, 2305, 2306, 2309, 2310, 2311, 2313, 2314
<code>\@initorcheck</code> . .	4773, 4793, 4811	<code>\@nextchar</code> . . . . .	2312
<code>\@inlabelfalse</code> . . . . .	291	<code>\@nil</code>	2587, 2591, 2592, 2597, 2599, 3278, 3281, 3379, 3382
<code>\@input@</code> . . . . .	3593, 3605, 3617	<code>\@nocument</code> . . . . .	2013
<code>\@lastchclass</code> . . . . .	2139, 2140, 2156, 2157, 2158, 2159, 2161, 2190, 2191, 2192, 2193, 2195, 2240, 2241, 2257, 2265, 2279, 2280, 2281, 2282, 2284	<code>\@noitemerr</code> . . . . .	1678
<code>\@latex@error</code> . . . . .	4546, 4572	<code>\@nx</code> . . . . .	1801, 1802
<code>\@latex@warning</code> . . . . .	1678, 3126	<code>\@oddfoot</code> . . . . .	3146, 3155
<code>\@latinAlpha</code> . . . . .	3476, 3479	<code>\@oddhead</code> . . . . .	3146, 3154
<code>\@latinalph</code> . .	2879, 3475, 3478	<code>\@onelevel@sanitize</code> . . . . .	2016
<code>\@listdepth</code> . . . . .	2136	<code>\@outputbox</code> . . . . .	1501, 3178
<code>\@m</code> .	1676, 2373, 3121, 3260, 3361, 3446	<code>\@outputpage</code> . . . . .	1479, 3129
<code>\@mainmatterfalse</code>	249, 260, 278, 1458, 2816	<code>\@parboxrestore</code> . . . . .	21, 38, 57, 83, 100, 119, 1484, 1517, 1536, 1555, 1576, 1594, 1609, 1717, 1734, 1753, 2089, 2104, 2131, 2328, 2338, 3135
<code>\@makefnmark</code> . . . . .	1703	<code>\@parboxto</code> . . . . .	2107, 2116
<code>\@makefntext</code> . . . . .	24, 41, 60, 86, 103, 122, 1522, 1541, 1560, 1580, 1598, 1613, 1720, 1737, 1756	<code>\@parmoderr</code> . . . . .	2032
<code>\@maketitle</code> . . . . .	1797		
<code>\@maketitle@hook</code> . . . . .	1795		
<code>\@maskanswline</code> . . .	4804, 4813, 4826, 4830		
<code>\@memfront</code> . . . . .	1961		
<code>\@minipagefalse</code> . . . . .	3114		
<code>\@minipagerestore</code> . . . . .	2137		
<code>\@minipagetrue</code> . . . . .	3113		
<code>\@mpLrFootnotetext</code>	1603, 2134		
<code>\@mpRTLFootnotetext</code>	1588, 2135		
<code>\@mpargs</code> . . . . .	2126		
<code>\@mpfn</code> . . .	185, 191, 212, 218, 2132		
<code>\@mpfootins</code>	1572, 1573, 1590, 1591, 1605, 1606		
<code>\@mpfootnotetext</code> . . .	1570, 2133		
<code>\@mplistdepth</code> . . . . .	2136		



<code>\@pboxswfalse</code> . . . . .	2100, 2122	
<code>\@pboxswtrue</code> . . . . .	2114	
<code>\@plus</code> . . . . .	1686, 1764	
<code>\@pnumwidth</code> . . . . .	1777, 1779	
<code>\@preamble</code> . . . . .	2260, 2268	
<code>\@preamblecmds</code> . . . . .	4599	
<code>\@preamerr</code> 2150, 2184, 2220, 2254,		
2315		
<code>\@questionheader</code> . . .	4803, 4804,	
4835		
<code>\@questionsepspace</code> .	4859, 4864,	
4870		
<code>\@questiontitle</code> . . . .	4852, 4865	
<code>\@questiontitlefont</code> 4853, 4854,		
4865		
<code>\@resetactivechars</code> .	1482, 3132	
<code>\@restonecolfalse</code> . . . . .	1681	
<code>\@restonecoltrue</code> . . . . .	1681	
<code>\@roman</code> . . . . .	2808, 2842, 2872	
<code>\@safe@activesfalse</code> 2395, 2484		
<code>\@safe@activetrue</code> .	2393, 2482	
<code>\@secpenalty</code> . . . . .	1769	
<code>\@setcopyright</code> . . . . .	1789	
<code>\@setfontsize</code> . . . . .		
. . .	3732, 3738, 3740, 3743,	
3750, 3756, 3757, 3758, 3759,		
3760		
<code>\@setfpsbit</code> . .	2054, 2057, 2060,	
2063, 2066, 2069		
<code>\@setminipage</code> . . . . .	2138	
<code>\@setnobreak</code> . . . . .	2329, 2339	
<code>\@sharp</code> . .	2262, 2263, 2264, 2270,	
2271, 2272		
<code>\@smemfront</code> . . . . .	1962	
<code>\@specialpagefalse</code> . . . . .	3143	
<code>\@specialstyle</code> . . . . .	3143	
<code>\@sptoken</code> . . . . .	1350	
<code>\@startpbox</code> . . . . .	2233, 2234	
<code>\@startsection</code> . . . . .	1763	
<code>\@starttoc</code> . . . .	3195, 4756, 4761	
<code>\@stop</code> . . . . .	2793, 2827, 2857	
<code>\@sx@xepersian@localize@verbatim</code>		
. . . . .	2350	
<code>\@tabclassz</code> . . . . .	2265	
<code>\@tartibi</code> . . . . .	9, 70,	
130, 136, 142, 148, 246, 257,		
268, 280, 1450, 1460, 1472,		
1693, 1964, 1965, 2755, 2762,		
2769, 2777, 2785, 2804, 2818,		
2838, 2848, 2868, 3341, 3343,		
3346		
<code>\@tempa</code> . . . . .	1342,	
1343, 1344, 1345, 1346, 1347,		
1348, 1349, 1350, 1351, 1352,		
1353, 1356, 1800, 1803, 2597,		
2599, 2682, 2683, 2684, 2685,		
2686, 2687, 2688, 2689, 2690,		
2691, 2692		
<code>\@tempboxa</code> 2127, 3168, 3175, 3176		
<code>\@tempc</code> . .	2612, 2625, 2635, 2637,	
2638, 2641, 2649		
<code>\@tempcnta</code> 2036, 2042, 2044, 2048,		
2050, 2072, 2073, 2079, 2080,		
2224, 2507, 2508, 2509, 2512,		
2513		
<code>\@tempcntb</code> . . .	2077, 2078, 2079	
<code>\@tempdima</code> 1772, 1774, 1776, 1778,		
2103, 2104, 2125, 2129		
<code>\@tempdimb</code> . . . . .	2106, 2107	
<code>\@tempswafalse</code> . . . . .	2525, 3117	
<code>\@tempswatrue</code> . . . . .	2524, 3117	
<code>\@temptokena</code> . . . . .		
. . .	1798, 1802, 2598, 2605,	
2610, 2616, 2623, 2633, 2647		
<code>\@testpach</code> 2139, 2155, 2189, 2240,		
2278		
<code>\@tfor</code> . . . . .	2037, 2682	
<code>\@thanks</code> . . . . .	3937, 3943	
<code>\@the@choice</code> . . . . .	4782, 4783	
<code>\@thefnmark</code> .	23, 40, 59, 85, 102,	
121, 186, 192, 213, 219, 1519,		
1538, 1557, 1578, 1596, 1611,		
1705, 1719, 1736, 1755		
<code>\@thefoot</code> .	3146, 3149, 3152, 3155,	
3182		
<code>\@thehead</code> .	3146, 3148, 3151, 3154,	
3172		
<code>\@themargin</code> 1497, 3147, 3149, 3167		
<code>\@title</code> . . . . .	3925, 3946	
<code>\@tocline</code> . . . . .	1766	
<code>\@tocpagenum</code> . . . . .	1779	
<code>\@topnum</code> . . . . .	1788	



`\@true` ..... 4827, 4838, 4845  
`\@true@correction` .. 4822, 4845  
`\@true@nocorrection` 4820, 4838  
`\@truesymbol` ... 4816, 4818, 4822  
`\@verbatim` 2347, 2350, 2655, 2657, 2668  
`\@vobeyspaces` ..... 2347, 2655  
`\@warning` ..... 2654  
`\@width` ..... 1700, 1702  
`\@x@xepersian@localize@verbatim` ..... 2347  
`\@xDeclareMathDelimiter` . 4594  
`\@xepersian@info` ... 2917, 2938, 2940  
`\@xfloat` ..... 2012, 2319, 2320  
`\@xp` ..... 1798  
`\@xxDeclareMathDelimiter` 4593  
`\@xxxii` ..... 2078  
`@\` ..... 1991, 1992  
`@` ..... 1987, 1988, 1990  
`@\` ..... 2569  
`] \` ..... 2577  
`\ \` .. 1799, 2344, 2577, 3893, 4208, 4209, 4471, 4474, 4523, 4749, 4788, 4792, 4812, 4813  
`\{` ..... 2343, 2577  
`\}` ..... 2343, 2577  
`\]` ..... 2577  
`\^` ..... 2578  
`\_` ..... 1388  
`\|` ..... 4209  
`\~` ..... 2578  
  
`\_` 1623, 1625, 3121, 3284, 3290, 3309, 3315, 3385, 3391, 3410, 3416, 3808, 3817  
  
**A**  
`\abj@num@i` ... 3442, 3459, 3466  
`\abj@num@ii` .. 3444, 3463, 3470  
`\abj@num@iii` ... 3446, 3467, 3473  
`\abj@num@iv` ..... 3448, 3471  
`\Abjad` ..... 3227  
`\abjad` ..... 3456  
`\abjad@zero` ..... 3458, 3462  
  
`\Abjadnumeral` ..... 3228  
`\abjadnumeral` ..... 3457  
`\abovedisplayshortskip` ..... 3735, 3736, 3746, 3747, 3753, 3754  
`\abovedisplayskip` .. 3733, 3734, 3744, 3745, 3751, 3752  
`\abstractname` ..... 3208  
`\active` ..... 2578, 4696  
`\adadi` ... 1343, 2796, 2830, 2860, 3234  
`\adadinumeral` ..... 3240  
`\addfontfeatures` . 288, 300, 313  
`\addpenalty` ..... 1769  
`\addtocontents` 4755, 4758, 4760, 4763, 4785, 4789, 4812, 4813  
`\addtolength` ..... 3960, 3961, 3964, 4383, 4384, 4385, 4386, 4450  
`\addtoversion` ..... 4586  
`\addvspace` ..... 1769  
`\adl@argarraydashrule` ... 2207, 2251  
`\adl@arraydashrule` . 2206, 2250  
`\adl@arrayrule` ..... 2205, 2249  
`\adl@box` ..... 2231, 2233, 2234  
`\adl@class@iiiorvii` 2237, 2274  
`\adl@class@start` ... 2236, 2273  
`\adl@endmbox` ..... 2232  
`\adl@putlrc` ..... 2228, 2229, 2230, 2262, 2263, 2264, 2270, 2271, 2272  
`\adl@startmbox` ..... 2231  
`\advance` .. 1626, 1673, 1776, 2044, 2050, 2073, 2079, 2512, 3724, 3728, 3996, 3999, 4543, 4569, 4907, 4942, 4946, 4952, 4956, 4961, 4964, 4965, 4969, 4973, 4974, 4976, 4977, 4979, 4999, 5003, 5004, 5007, 5012, 5013, 5017, 5018, 5020, 5021, 5023, 5026, 5028  
`\aftergroup` 1486, 1488, 3130, 3138, 3139  
`\ALG@name` ..... 5, 7  
`\algorithmicensure` ..... 3





<code>\bibliofont</code> .....	1669		
<code>\bibname</code> .....	3212		
<code>\bidi@AfterEndPreamble</code> ..	3481		
<code>\bidi@csdefcs</code> .....	939, 1883		
<code>\bidi@csletcs</code> ...	634, 1883, 1887,		
	1888, 1891, 1892		
<code>\bidi@footdir@footnote</code>	64, 125,		
	1564, 1759		
<code>\bidi@isloaded</code> .	1854, 1855, 1856,		
	1857, 1858, 1859, 1862, 1865,		
	1868, 1871, 1874, 1877		
<code>\bidi@mpfootnoterule</code>	1571, 1589,		
	1604		
<code>\bidi@newrobustcmd</code> .	3098, 3099		
<code>\bidi@reflect@box</code> .....	3199		
<code>\blacktriangleleft</code> .	1621, 1623		
<code>\blacktriangleright</code>	1621, 1623		
<code>\bm@b</code> .....	2095		
<code>\bm@c</code> .....	2092		
<code>\bm@l</code> .....	2093		
<code>\bm@r</code> .....	2094		
<code>\bm@s</code> .....	2097		
<code>\bm@t</code> .....	2096		
<code>\bm@</code> .....	2096		
<code>\bm@</code> .....	2094		
<code>\bm@</code> .....	2095		
<code>\bm@</code> .....	2092		
<code>\bm@</code> .....	2093		
<code>\bm@</code> .....	2097		
<code>\bool</code> .....	4581		
<code>\boolean</code> .	3709, 3721, 3730, 3834,		
	3849, 3868, 3889, 4085, 4086,		
	4116, 4148, 4182, 4200, 4224,		
	4254, 4278, 4305		
<code>\botmark</code> .....	1506, 3189		
<code>\box</code> .....	302, 1501, 3176, 3178		
<code>\BR@Latincitex</code> .....	155, 165		
<code>\BRorg@Latincitex</code> ....	156, 164		
<b>C</b>			
<code>\C</code> .....	2579		
<code>\c</code> ..	4615, 4623, 4631, 4639, 4647		
<code>\c@book</code> .....	1964		
<code>\c@chapter</code> .....	72,		
	74, 255, 266, 273, 285, 1465,		
	1477, 1970, 2760, 2767, 2774,		
	2782, 2823, 2853		
<code>\c@footnote</code> .....	1805		
<code>\c@mpfootnote</code> ..	1571, 1589, 1604,		
	2132		
<code>\c@part</code> .....	9,		
	70, 130, 136, 142, 148, 246,		
	257, 268, 280, 1450, 1460,		
	1472, 1693, 1965, 2755, 2762,		
	2769, 2777, 2785, 2818, 2848		
<code>\c@section</code> 10, 12, 72, 134, 140, 146,			
	152, 1454, 1694, 1696, 2789		
<code>\c@subsection</code> .....	10, 1694		
<code>\c@tocdepth</code> .....	1767		
<code>\catcode</code> .	1881, 2342, 2343, 2344,		
	2578, 4696		
<code>\ccname</code> .....	3214		
<code>\cdp@elt</code> .....	4584		
<code>\cdp@list</code> .....	4584		
<code>\centering</code> ....	3971, 4259, 4750		
<code>\cftchapname</code> .....	2898		
<code>\cftfigname</code> .....	2904		
<code>\cftparaname</code> .....	2902		
<code>\cftsecname</code> .....	2899		
<code>\cftsubfigname</code> .....	2905		
<code>\cftsubparaname</code> .....	2903		
<code>\cftsubsecname</code> .....	2900		
<code>\cftsubsubsecname</code> .....	2901		
<code>\cftsubtabname</code> .....	2907		
<code>\cfttabname</code> .....	2906		
<code>\chapterautorefname</code> ....	1642		
<code>\chaptername</code> .....	73, 3213		
<code>\chardef</code> ...	1809, 1811, 1812, 1813,		
	1814, 1815, 4528		
<code>\charlist</code> .	1819, 1820, 1822, 1826		
<code>\citation</code> .....	3123		
<code>\cite</code> .	176, 197, 203, 224, 230, 234,		
	237, 241		
<code>\citenumfont</code> .....	2536		
<code>\citeyear</code> .....	2358		
<code>\citeyearpar</code> .....	2358		
<code>\ClassError</code> .....	4106,		
	4138, 4172, 4192, 4213, 4238,		
	4263, 4289, 4312, 4795		
<code>\ClassWarning</code> .	3691, 3693, 3695,		
	3965, 3979		





`\cleardoubleoddpaper` . . . . 2815  
`\cleardoublepage` . . 69, 248, 259,  
277, 1457  
`\clearpage` . . . . . 2815, 4069  
`\closeout` . . . . . 3591, 3603, 3615  
`\clubpenalty` . . . . . 1675  
`\color@begingroup` . . 1521, 1540,  
1559, 1579, 1597, 1612, 2128  
`\color@endbox` . . . . . 3173, 3183  
`\color@endgroup` 1524, 1543, 1562,  
1582, 1600, 1615  
`\color@hbox` . . . . . 3170, 3180  
`\color@vbox` . . 2085, 2327, 2337  
`\columnlines` . . 3665, 3666, 3698,  
4027  
`\columnsep` . . . . 1682, 3961, 4384  
`\columnseprule` . . . . 1682, 4027  
`\columntitle` . . . . . 4378  
`\columnwidth` . . . . . 20, 37,  
56, 82, 99, 118, 1517, 1536,  
1555, 1575, 1593, 1608, 1698,  
1716, 1733, 1752, 2088, 2130,  
2328, 2338, 3960, 4383  
`\comment` . . . . . 4840  
`\contentsname` . . . . . 3193, 3202  
`\copyright` . . . . . 3817  
`\correction` . . . . . 4840, 4847  
`\correctionstyle` . . . . . 4833  
`\count` . . . 2080, 3146, 3995, 3996,  
3998, 3999, 4008, 4014  
`\count@` . . . . . 2224  
`\cs` 2665, 2667, 2973, 2979, 2982,  
2987, 2993, 2997, 2998, 3001,  
3007, 3013, 3019, 4608, 4609,  
4610, 4611, 4612, 4674, 4675,  
4676, 4682, 4688  
`\csname` . . . . . 23,  
40, 59, 85, 102, 121, 191, 218,  
1519, 1538, 1557, 1578, 1596,  
1611, 1719, 1736, 1755, 1772,  
1884, 2077, 2117, 2322, 2325,  
2332, 2335, 2352, 2659, 2676,  
2677, 2678, 2679, 2680, 2790,  
2824, 2854, 2945, 2948, 2954,  
2956, 3128, 3227, 3232, 3235,  
3341, 3456, 4534, 4537, 4542,  
4543, 4558, 4561, 4565, 4566,  
4569, 4604, 4606, 5004, 5013,  
5023  
`\currenttime` . . . . . 3791  
`\customlogo` . . . . . 4032  
`\custommagazinenam` . . . . 4034  
`\customminilogo` . . . . . 4033  
`\customwwwTxt` . . . . . 3762  
  

## D

`\dollarbegin` . . 2228, 2229, 2230  
`\dollarend` . . . 2228, 2229, 2230  
`\date` . . . . 3790, 3801, 3949, 4418  
`\datename` . . . . . 3210  
`\day` . . . . . 4902  
`\decimalseparator` . . 4673, 4723  
`\DeclareDocumentCommand` . . . .  
. . . 1359, 2971, 2985, 2999,  
3011, 3053, 3059, 3065, 3071,  
3077, 3083, 4653, 4678, 4684  
`\DeclareMathAccent` . . . . 4592  
`\DeclareMathAlphabet` . . . . 4591  
`\DeclareMathDelimiter` . . . 4593  
`\DeclareMathRadical` . . . . 4595  
`\DeclareMathSizes` . . . . . 4584  
`\DeclareMathSymbol` . . . . . 4592  
`\DeclareMathVersion` . . . . 4586  
`\DeclareOption` . . . . .  
. . 3687, 3688, 3689, 3690,  
3692, 3694, 3696, 3697, 3698,  
3699, 3700, 4837, 4844  
`\DeclareOptionX` . . . . . 3634  
`\DeclareRobustCommand` . . . . .  
. . 2558, 2976, 2990, 3004,  
3016, 3029, 3032, 3035, 3038,  
3041, 3044, 3116  
`\DeclareSymbolFont` . . . . .  
. . 4589, 4657, 4658, 4659,  
4660, 4681, 4687  
`\DeclareSymbolFontAlphabet` . .  
. . . . . 4596  
`\DeclareSymbolFontAlphabet@` .  
. . . . . 4596  
`\DeclareTextFontCommand` . . . .  
. . 3047, 3048, 3049, 3050,  
3051, 3052



`\def` . . . . . 2, 3, 5,  
6, 7, 10, 12, 14, 31, 50, 69, 71,  
74, 76, 93, 112, 154, 155, 168,  
175, 202, 244, 288, 300, 313,  
320, 324, 1341, 1342, 1343,  
1344, 1345, 1346, 1347, 1348,  
1349, 1479, 1511, 1530, 1549,  
1570, 1588, 1603, 1618, 1620,  
1622, 1624, 1635, 1636, 1637,  
1638, 1639, 1640, 1641, 1642,  
1643, 1644, 1645, 1646, 1647,  
1648, 1649, 1650, 1653, 1664,  
1678, 1681, 1690, 1691, 1692,  
1694, 1696, 1697, 1701, 1703,  
1710, 1727, 1746, 1763, 1766,  
1787, 1799, 1816, 1819, 1821,  
1822, 1827, 1851, 1852, 1974,  
1975, 1976, 1977, 1978, 1979,  
1980, 1981, 1982, 2012, 2014,  
2015, 2017, 2098, 2120, 2126,  
2132, 2139, 2155, 2189, 2223,  
2236, 2237, 2240, 2257, 2265,  
2273, 2274, 2278, 2320, 2321,  
2324, 2331, 2334, 2347, 2348,  
2357, 2360, 2372, 2373, 2383,  
2386, 2399, 2414, 2444, 2476,  
2480, 2505, 2567, 2581, 2585,  
2587, 2588, 2591, 2597, 2599,  
2601, 2617, 2620, 2636, 2637,  
2640, 2653, 2655, 2658, 2675,  
2909, 2910, 2941, 2942, 2943,  
2949, 2950, 2954, 3090, 3094,  
3100, 3101, 3102, 3103, 3107,  
3108, 3109, 3118, 3121, 3129,  
3198, 3200, 3201, 3202, 3203,  
3204, 3205, 3206, 3207, 3208,  
3209, 3210, 3211, 3212, 3213,  
3214, 3215, 3216, 3217, 3218,  
3219, 3227, 3229, 3232, 3241,  
3246, 3255, 3281, 3294, 3305,  
3319, 3325, 3328, 3331, 3335,  
3347, 3356, 3382, 3395, 3406,  
3420, 3427, 3437, 3456, 3458,  
3459, 3463, 3467, 3471, 3477,  
3624, 3629, 3762, 4032, 4033,  
4034, 4528, 4530, 4554, 4661,  
4682, 4688, 4697, 4698, 4723,  
4724, 4725, 4729, 4745, 4747,  
4749, 4767, 4769, 4773, 4780,  
4816, 4817, 4820, 4821, 4822,  
4823, 4832, 4835, 4842, 4843,  
4849, 4850, 4853, 5037  
`\def@NAT@last@yr` . . . 2515, 2517  
`\defaultfontfeatures` . . . . 3635  
`\DefaultMathsDigits` 3531, 4724  
`\define@choicekey` . . . . .  
. . . 3527, 3535, 3541, 3547,  
3559, 3565, 3571, 3575, 3579,  
3585, 3598, 3610, 3622  
`\define@key` . . . . . 2681  
`\define@mathalphabet` . . . . 4586  
`\define@mathgroup` . . . . . 4586  
`\deflatinfont` . . . . . 3011  
`\defpersianfont` . . . . . 2999  
`\depth` . . . . . 2689, 2690  
`\ding` . . . . . 4816, 4817  
`\display@setup` . . . . . 289, 314  
`\divide` . . . . . 4001, 4002, 4904,  
4912, 4917, 4944, 4950, 4958,  
4960, 4963, 4967, 4971, 4975  
`\do` . 2039, 2392, 2481, 2682, 3120,  
4599  
`\document` . . . . . 4735  
`\document@select@group` . . 4554  
`\dorestore@version` . . . . 4588  
`\dosetclass` . . . 1820, 1821, 1825  
`\doublebox` . . . . . 4340, 4393  
`\dp` 19, 36, 55, 81, 98, 117, 1516, 1535,  
1554, 1715, 1732, 1751, 3175  
`\dquad` . . . . . 322, 324  
`\dseries@display@setup` . . 314  
  
E  
`\edef` 1800, 2107, 2162, 2196, 2260,  
2268, 2285, 2394, 2483, 2643,  
2917, 2939, 2948, 2951, 3122,  
4782  
`\edition` . . . . . 4059  
`\editionFormat` . . . . 3768, 3771  
`\editorialAuthorFormat` . . 3911,  
4475



<code>\editorialTitleFormat</code> . . .	3909,	2637, 2645, 2653, 2680, 2683,
	3910	2684, 2685, 2686, 2687, 2688,
<code>\else</code> . . . . .	2, 3, 5, 7, 16, 25,	2689, 2690, 2691, 2794, 2815,
	78, 87, 154, 244, 292, 322,	2828, 2858, 2882, 2898, 2899,
	1342, 1343, 1344, 1345, 1346,	2900, 2901, 2902, 2903, 2904,
	1347, 1348, 1349, 1350, 1351,	2905, 2906, 2907, 2965, 3148,
	1352, 1468, 1512, 1523, 1571,	3153, 3159, 3172, 3182, 3200,
	1572, 1581, 1621, 1623, 1625,	3201, 3202, 3203, 3204, 3205,
	1635, 1636, 1637, 1638, 1639,	3206, 3207, 3208, 3209, 3210,
	1640, 1641, 1642, 1643, 1644,	3211, 3212, 3213, 3214, 3215,
	1645, 1646, 1647, 1648, 1649,	3216, 3217, 3218, 3226, 3231,
	1650, 1671, 1687, 1712, 1721,	3249, 3251, 3259, 3260, 3261,
	1765, 1768, 1776, 1777, 1793,	3262, 3263, 3264, 3265, 3266,
	1824, 1851, 1852, 1861, 1864,	3284, 3299, 3313, 3326, 3329,
	1867, 1870, 1873, 1876, 1974,	3350, 3352, 3360, 3361, 3362,
	1975, 1976, 1977, 1978, 1979,	3363, 3364, 3365, 3366, 3367,
	1980, 1981, 1982, 2020, 2028,	3385, 3400, 3413, 3414, 3439,
	2033, 2043, 2049, 2102, 2105,	3441, 3443, 3445, 3447, 3594,
	2110, 2111, 2112, 2113, 2114,	3606, 3618, 3978, 4456, 4531,
	2124, 2139, 2140, 2141, 2142,	4544, 4550, 4555, 4570, 4576,
	2143, 2144, 2145, 2146, 2147,	4691, 4699, 4700, 4701, 4702,
	2148, 2149, 2150, 2156, 2157,	4703, 4704, 4705, 4706, 4707,
	2158, 2160, 2161, 2164, 2165,	4708, 4709, 4723, 4726, 4727,
	2166, 2167, 2168, 2169, 2171,	4728, 4730, 4731, 4732, 4910,
	2172, 2173, 2174, 2175, 2178,	4914, 4919, 4920, 4927, 4948,
	2179, 2180, 2181, 2182, 2183,	4953, 4983, 5019, 5027
	2190, 2191, 2192, 2194, 2195,	<code>\empty</code> . . . . . 1823
	2198, 2199, 2200, 2201, 2202,	<code>\enclname</code> . . . . . 3215
	2203, 2205, 2206, 2207, 2208,	<code>\end</code> . . . . . 1820, 1821,
	2209, 2210, 2211, 2214, 2215,	1826, 1827, 2571, 2572, 2643,
	2216, 2217, 2218, 2219, 2239,	2654, 3104, 3105, 3196, 3776,
	2240, 2241, 2242, 2243, 2244,	3781, 3838, 3852, 3862, 3871,
	2245, 2246, 2247, 2249, 2250,	3894, 3933, 3936, 3939, 3956,
	2251, 2252, 2253, 2254, 2279,	4011, 4017, 4094, 4100, 4104,
	2280, 2281, 2283, 2284, 2287,	4130, 4136, 4170, 4190, 4205,
	2288, 2289, 2290, 2291, 2292,	4211, 4247, 4248, 4249, 4272,
	2293, 2294, 2295, 2296, 2297,	4273, 4274, 4298, 4299, 4300,
	2298, 2299, 2300, 2302, 2303,	4325, 4326, 4329, 4359, 4363,
	2304, 2305, 2306, 2309, 2310,	4374, 4375, 4412, 4416, 4445,
	2311, 2312, 2313, 2314, 2326,	4476, 4477, 4491, 4503, 4516,
	2336, 2361, 2374, 2406, 2411,	4755, 4758, 4760, 4763, 4809,
	2420, 2423, 2437, 2441, 2450,	4810, 4814, 4868
	2454, 2457, 2469, 2473, 2474,	<code>\end@correction</code> . . . . . 4848
	2495, 2516, 2530, 2532, 2535,	<code>\endcomment</code> . . . . . 4841
	2549, 2551, 2562, 2585, 2596,	<code>\endcorrection</code> . . . . . 4841, 4848
	2609, 2611, 2614, 2629, 2631,	



<code>\endcsname</code> . . . . .	23, 40, 59, 85, 102, 121, 191, 218, 1519, 1538, 1557, 1578, 1596, 1611, 1719, 1736, 1755, 1772, 1884, 2077, 2117, 2322, 2325, 2332, 2335, 2352, 2659, 2676, 2677, 2678, 2679, 2680, 2790, 2824, 2854, 2945, 2948, 2954, 2956, 3128, 3227, 3232, 3235, 3341, 3456, 4534, 4537, 4542, 4543, 4558, 4561, 4565, 4567, 4569, 4604, 4606, 5004, 5013, 5024	336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611,
<code>\endgroup</code> . . . . .	193, 220, 1487, 1781, 1804, 2580, 2658, 2944, 2952, 3130, 3138, 4539, 4563, 4699, 4700, 4701, 4702, 4703, 4704, 4705, 4706, 4707, 4708, 4709, 4710	
<code>\endL</code> . . . . .	3172, 3182, 3808, 4209	
<code>\endlatin</code> . . . . .	3101	
<code>\endlist</code> . . . . .	1679	
<code>\endLTR</code> . . . . .	3101	
<code>\endMakeFramed</code> . . . . .	1629	
<code>\endmath</code> . . . . .	319	
<code>\endpersian</code> . . . . .	3103	
<code>\endquestion</code> . . . . .	4861	
<code>\endR</code> . . . . .	1700, 3172, 3182, 3812, 3813, 3814, 3825, 3826, 3827, 4032, 4033, 4034, 4052, 4073, 4074, 4075, 4076, 4077, 4078, 4229, 4324	
<code>\endRTL</code> . . . . .	3103	
<code>\ends@math</code> . . . . .	319	
<code>\endtrivlist</code> . . . . .	2348, 2658	
<code>\end</code> . . . . .	2348, 2352, 2658, 2659	
<code>\eq@addpunct</code> . . . . .	324	
<code>\eq@group</code> . . . . .	292, 301	
<code>\eq@GRP@first@dmath</code> . . . . .	301	
<code>\eq@prelim</code> . . . . .	292, 309	
<code>\eq@setnumber</code> . . . . .	295	
<code>\eq@setup@a</code> . . . . .	297	
<code>\eq@startup</code> . . . . .	298	
<code>\eq@wdCond</code> . . . . .	316	
<code>\eqcommand</code> . . . . .	328, 329, 330, 331, 332, 333, 334, 335,	



612, 613, 614, 615, 616, 617,  
618, 619, 620, 621, 622, 623,  
624, 625, 626, 627, 628, 629,  
630, 631, 632, 633, 635, 636,  
637, 638, 639, 640, 641, 642,  
643, 644, 645, 646, 647, 648,  
649, 650, 651, 652, 653, 654,  
655, 656, 657, 658, 659, 660,  
661, 662, 663, 664, 665, 666,  
667, 668, 669, 670, 671, 672,  
673, 674, 675, 676, 677, 678,  
679, 680, 681, 682, 683, 684,  
685, 686, 687, 688, 689, 690,  
691, 692, 693, 694, 695, 696,  
697, 698, 699, 700, 701, 702,  
703, 704, 705, 706, 707, 708,  
709, 710, 711, 712, 713, 714,  
715, 716, 717, 718, 719, 720,  
721, 722, 723, 724, 725, 726,  
727, 728, 729, 730, 731, 732,  
733, 734, 735, 736, 737, 738,  
739, 740, 741, 742, 743, 744,  
745, 746, 747, 748, 749, 750,  
751, 752, 753, 754, 755, 756,  
757, 758, 759, 760, 761, 762,  
763, 764, 765, 766, 767, 768,  
769, 770, 771, 772, 773, 774,  
775, 776, 777, 778, 779, 780,  
781, 782, 783, 784, 785, 786,  
787, 788, 789, 790, 791, 792,  
793, 794, 795, 796, 797, 798,  
799, 800, 801, 802, 803, 804,  
805, 806, 807, 808, 809, 810,  
811, 812, 813, 814, 815, 816,  
817, 818, 819, 820, 821, 822,  
823, 824, 825, 826, 827, 828,  
829, 830, 831, 832, 833, 834,  
835, 836, 837, 838, 839, 840,  
841, 842, 843, 844, 845, 846,  
847, 848, 849, 850, 851, 852,  
853, 854, 855, 856, 857, 858,  
859, 860, 861, 862, 863, 864,  
865, 866, 867, 868, 869, 870,  
871, 872, 873, 874, 875, 876,  
877, 878, 879, 880, 881, 882,  
883, 884, 885, 886, 887, 888,

889, 890, 891, 892, 893, 894,  
895, 896, 897, 898, 899, 900,  
901, 902, 903, 904, 905, 906,  
907, 908, 909, 910, 911, 912,  
913, 914, 915, 916, 917, 918,  
919, 920, 921, 922, 923, 924,  
925, 926, 927, 928, 929, 930,  
931, 932, 933, 934, 935, 936,  
937, 938, 940, 941, 942, 943,  
944, 945, 946, 947, 948, 949,  
950, 951, 952, 953, 954, 955,  
956, 957, 958, 959, 960, 961,  
962, 963, 964, 965, 966, 967,  
968, 969, 970, 971, 972, 973,  
974, 975, 976, 977, 978, 979,  
980, 981, 982, 983, 984, 985,  
986, 987, 988, 989, 990, 991,  
992, 993, 994, 995, 996, 997,  
998, 999, 1000, 1001, 1002,  
1003, 1004, 1005, 1006, 1007,  
1008, 1009, 1010, 1011, 1012,  
1013, 1014, 1015, 1016, 1017,  
1018, 1019, 1020, 1021, 1022,  
1023, 1024, 1025, 1026, 1027,  
1028, 1029, 1030, 1031, 1032,  
1033, 1034, 1035, 1036, 1037,  
1038, 1039, 1040, 1041, 1042,  
1043, 1044, 1045, 1046, 1047,  
1048, 1049, 1050, 1051, 1052,  
1053, 1054, 1055, 1056, 1057,  
1058, 1059, 1060, 1061, 1062,  
1063, 1064, 1065, 1066, 1067,  
1068, 1069, 1070, 1071, 1072,  
1073, 1074, 1075, 1076, 1077,  
1078, 1079, 1080, 1081, 1082,  
1083, 1084, 1085, 1086, 1087,  
1088, 1089, 1090, 1091, 1092,  
1093, 1094, 1095, 1096, 1097,  
1098, 1099, 1100, 1101, 1102,  
1103, 1104, 1105, 1106, 1107,  
1108, 1109, 1110, 1111, 1112,  
1113, 1114, 1115, 1116, 1117,  
1118, 1119, 1120, 1121, 1122,  
1123, 1124, 1125, 1126, 1127,  
1128, 1129, 1130, 1131, 1132,  
1133, 1134, 1135, 1136, 1137,



1138, 1139, 1140, 1141, 1142,	1427, 1428, 1429, 1430, 1431,
1143, 1144, 1145, 1146, 1147,	1432, 1433, 1434, 1435, 1436,
1148, 1149, 1150, 1151, 1152,	1437, 1439, 1440, 1441, 1442,
1153, 1154, 1155, 1156, 1157,	1443, 1444, 1445, 1446, 1447,
1158, 1159, 1160, 1161, 1162,	1448, 1884
1163, 1164, 1165, 1166, 1167,	<code>\eqstyle</code> ..... 294
1168, 1169, 1170, 1171, 1172,	<code>\equal</code> 4007, 4162, 4334, 4339, 4344,
1173, 1174, 1175, 1176, 1177,	4349, 4354, 4387, 4392, 4397,
1178, 1179, 1180, 1181, 1182,	4402, 4407
1183, 1184, 1185, 1186, 1187,	<code>\equationautorefname</code> .... 1635
1188, 1189, 1190, 1191, 1192,	<code>\escapechar</code> .. 2947, 4536, 4560
1193, 1194, 1195, 1196, 1197,	<code>\evensidemargin</code> ..... 3149
1198, 1199, 1200, 1201, 1202,	<code>\everydisplay</code> ..... 289, 4735
1203, 1204, 1205, 1206, 1207,	<code>\everyjob</code> ..... 2939, 2940
1208, 1209, 1210, 1211, 1212,	<code>\everymath</code> ..... 4734
1213, 1214, 1215, 1216, 1217,	<code>\everypar</code> ..... 3114
1218, 1219, 1220, 1221, 1222,	<code>\ExecuteOptions</code> ..... 4851
1223, 1224, 1225, 1226, 1227,	<code>\ExecuteOptionsX</code> ..... 3640
1228, 1229, 1230, 1231, 1232,	<code>\exp</code> 2976, 2978, 2979, 2990, 2992,
1233, 1234, 1235, 1236, 1237,	2993, 3004, 3006, 3007, 3016,
1238, 1239, 1240, 1241, 1242,	3018, 3019
1243, 1244, 1245, 1246, 1247,	<code>\expandafter</code> ..... 289, 1820, 1826, 2037, 2038,
1248, 1249, 1250, 1251, 1252,	2162, 2196, 2285, 2322, 2325,
1253, 1254, 1255, 1256, 1257,	2332, 2335, 2352, 2394, 2483,
1258, 1259, 1260, 1261, 1262,	2599, 2604, 2605, 2610, 2615,
1263, 1264, 1265, 1266, 1267,	2616, 2622, 2623, 2624, 2625,
1268, 1269, 1270, 1281, 1282,	2632, 2633, 2634, 2635, 2637,
1283, 1284, 1285, 1286, 1287,	2646, 2647, 2648, 2649, 2659,
1288, 1289, 1290, 1291, 1292,	2676, 2677, 2678, 2679, 2944,
1293, 1294, 1295, 1296, 1297,	2945, 2948, 2951, 2952, 2954,
1298, 1299, 1300, 1301, 1302,	2955, 3122, 3227, 3232, 3235,
1303, 1304, 1305, 1306, 1307,	3250, 3256, 3341, 3351, 3357,
1308, 1309, 1310, 1311, 1312,	3442, 3444, 3446, 3448, 3456,
1313, 1314, 1315, 1316, 1317,	4531, 4550, 4555, 4564, 4565,
1318, 1319, 1320, 1321, 1322,	4566, 4576, 4734, 4735, 4783
1323, 1324, 1325, 1326, 1327,	<code>\expandedtitle</code> ..... 4328
1328, 1329, 1330, 1331, 1332,	<code>\ExplSyntaxOff</code> . 1394, 2351, 2673,
1333, 1334, 1335, 1336, 1337,	3089, 4601, 4690
1338, 1339, 1883	<code>\ExplSyntaxOn</code> .. 1358, 2349, 2661,
<code>\eqenvironment</code> ..... 1396,	2970, 4580, 4607
1397, 1398, 1399, 1400, 1401,	<code>\extract@alph@from@version</code> ..
1402, 1403, 1404, 1405, 1406,	..... 4564
1407, 1408, 1409, 1410, 1411,	
1412, 1413, 1414, 1415, 1416,	F
1417, 1418, 1419, 1420, 1421,	<code>\false</code> ..... 4828
1422, 1423, 1424, 1425, 1426,	



<code>\falsesymbol</code> . . . . .	4819	
<code>\fancyfoot</code> 4072, 4076, 4077, 4078		2801, 2802, 2803, 2804, 2805,
<code>\fancyhead</code> 4071, 4073, 4074, 4075		2806, 2807, 2808, 2809, 2810,
<code>\FancyVerbLineautorefname</code> 1648		2815, 2829, 2830, 2831, 2832,
<code>\fbox</code> 3956, 3971, 4186, 4805, 4865		2833, 2834, 2835, 2836, 2837,
<code>\fboxrule</code> . 1618, 1620, 1622, 1624,		2838, 2839, 2840, 2841, 2842,
4028		2843, 2844, 2859, 2860, 2861,
<code>\fboxsep</code> . . . . . 1618, 1620,		2862, 2863, 2864, 2865, 2866,
1622, 1624, 3959, 4152, 4184,		2867, 2868, 2869, 2870, 2871,
4256, 4284, 4332, 4381		2872, 2873, 2874, 2884, 2898,
<code>\fi</code> . . . . . 2, 3, 5, 7, 16, 25, 78, 87,		2899, 2900, 2901, 2902, 2903,
154, 159, 244, 288, 290, 291,		2904, 2905, 2906, 2907, 2958,
292, 300, 311, 313, 322, 1355,		2959, 2967, 3123, 3144, 3150,
1468, 1512, 1523, 1571, 1572,		3151, 3152, 3154, 3155, 3156,
1581, 1589, 1604, 1621, 1623,		3159, 3172, 3182, 3200, 3201,
1625, 1635, 1636, 1637, 1638,		3202, 3203, 3204, 3205, 3206,
1639, 1640, 1641, 1642, 1643,		3207, 3208, 3209, 3210, 3211,
1644, 1645, 1646, 1647, 1648,		3212, 3213, 3214, 3215, 3216,
1649, 1650, 1671, 1681, 1687,		3217, 3218, 3226, 3231, 3253,
1690, 1691, 1692, 1712, 1721,		3267, 3279, 3284, 3285, 3288,
1765, 1776, 1777, 1782, 1794,		3290, 3291, 3303, 3307, 3309,
1825, 1851, 1852, 1863, 1866,		3310, 3312, 3315, 3317, 3323,
1869, 1872, 1875, 1878, 1974,		3326, 3329, 3333, 3338, 3354,
1975, 1976, 1977, 1978, 1979,		3368, 3380, 3385, 3386, 3389,
1980, 1981, 1982, 2023, 2024,		3391, 3392, 3404, 3408, 3410,
2030, 2045, 2046, 2051, 2052,		3411, 3413, 3416, 3418, 3425,
2055, 2058, 2061, 2064, 2067,		3431, 3449, 3450, 3451, 3452,
2070, 2074, 2075, 2083, 2101,		3453, 3454, 3461, 3462, 3465,
2102, 2108, 2115, 2118, 2123,		3466, 3469, 3470, 3472, 3473,
2124, 2143, 2144, 2145, 2146,		3534, 3540, 3546, 3558, 3564,
2150, 2151, 2152, 2166, 2167,		3570, 3574, 3578, 3584, 3596,
2168, 2169, 2184, 2185, 2200,		3597, 3608, 3609, 3620, 3621,
2201, 2202, 2203, 2220, 2221,		3633, 3652, 3981, 3982, 4187,
2235, 2244, 2245, 2246, 2247,		4204, 4368, 4442, 4461, 4488,
2254, 2255, 2259, 2264, 2267,		4513, 4531, 4549, 4550, 4555,
2272, 2275, 2289, 2290, 2291,		4575, 4576, 4693, 4711, 4712,
2292, 2315, 2316, 2326, 2336,		4713, 4714, 4715, 4716, 4717,
2348, 2366, 2384, 2405, 2407,		4718, 4719, 4720, 4721, 4723,
2418, 2422, 2431, 2432, 2436,		4726, 4727, 4728, 4730, 4731,
2448, 2453, 2457, 2461, 2462,		4732, 4919, 4921, 4922, 4923,
2466, 2471, 2472, 2473, 2474,		4929, 4953, 4954, 4974, 4985,
2494, 2496, 2518, 2526, 2534,		5006, 5015, 5022, 5029, 5044
2535, 2544, 2545, 2551, 2554,		<code>\figureautorefname</code> . . . . . 1638
2564, 2585, 2600, 2618, 2638,		<code>\figurename</code> . . . . . 3200
2651, 2654, 2680, 2692, 2795,		<code>\finishsetclass</code> . . . . . 1823, 1827
2796, 2797, 2798, 2799, 2800,		<code>\firstarticle</code> . . . . . 4083, 4107, 4108,
		4110



\FirstFrameCommand . . . . .	1620	\footdir@ORG@xepersian@LTRfootnotetext	
\firstimage 4180, 4193, 4194, 4196		.....	1566
\firstmark . . . . .	1506, 3189	\footdir@ORG@xepersian@RTLfootnotetext	
\firstTextFormat . . . . .	3841, 3843	.....	1565
\firstTitleFormat . . . . .	3829, 3835, 3836	\footdir@temp . . . . .	64, 65, 66, 125, 126, 127, 1564, 1565, 1566, 1759, 1760, 1761
\float@box . . . . .	2323, 2333	\footins 15, 32, 51, 77, 94, 113, 1511,	1530, 1549, 1711, 1728, 1747
\float@endH . . . . .	2322, 2332	\footnote . . . . .	3921
\floatingpenalty . . . . .	20, 37, 56, 82, 99, 118, 1516, 1535, 1554, 1716, 1733, 1752	\footnoteautorefname . . . . .	1636
\flushright . . . . .	3829, 3848, 3867	\footnoterule . . . . .	3920
\fontencoding . . . . .	2978, 2992, 3006, 3018	\footnotesep . . . . .	19, 25, 36, 42, 55, 61, 81, 87, 98, 104, 117, 123, 1515, 1523, 1534, 1542, 1553, 1561, 1581, 1599, 1614, 1700, 1702, 1715, 1721, 1732, 1738, 1751, 1757
\fontfamily 2979, 2993, 3007, 3019, 3031, 3034, 3037, 3040, 3043, 3046		\footnotesize . . . . .	17, 34, 53, 79, 96, 115, 1468, 1469, 1470, 1513, 1532, 1551, 1574, 1592, 1607, 1689, 1713, 1730, 1749, 3749, 3750, 3784, 3817, 3882, 3906, 3907, 3919
\fontsize . . . . .	1705	\footskip . . . . .	3179
\fontspec 2350, 2668, 2973, 2987, 3001, 3013, 3055, 3061, 3067, 3073, 3079, 3085, 4655, 4680, 4686		\fonttextfont . . . . .	1468
\foot . . . . .	3824	\FrameCommand . . . . .	1618
\footdir@debugfalse . . . . .	3569	\FrameRestore . . . . .	1626
\footdir@debugtrue . . . . .	3567	\frenchspacing . . . . .	2347, 2655
\footdir@ORG@xepersian@amsart@footnotetext . . . . .	64	\frenchmatter . . . . .	69, 247, 258, 276, 1456, 2814
\footdir@ORG@xepersian@amsart@LTRfootnotetext . . . . .	66	\fuzz . . . . .	2590, 4696
\footdir@ORG@xepersian@amsart@RTLfootnotetext . . . . .	65		
\footdir@ORG@xepersian@amsbook@footnotetext . . . . .	125		
\footdir@ORG@xepersian@amsbook@LTRfootnotetext . . . . .	127		
\footdir@ORG@xepersian@amsbook@RTLfootnotetext . . . . .	126		
\footdir@ORG@xepersian@footnotetext . . . . .	1564		
\footdir@ORG@xepersian@imsproc@footnotetext . . . . .	1759		
\footdir@ORG@xepersian@imsproc@LTRfootnotetext . . . . .	1761		
\footdir@ORG@xepersian@imsproc@RTLfootnotetext . . . . .	1760		
		\g . . . . .	2978, 2992, 3006, 3018, 4581, 4680, 4681, 4686, 4687
		\g@addto@macro . . . . .	4735, 4780
		\G@refundefinedtrue . . . . .	3125
		\gdef . . . . .	134, 140, 146, 152, 177, 204, 231, 238, 254, 255, 265, 266, 272, 273, 284, 285, 1454, 1464, 1465, 1476, 1477, 1655, 1656, 1969, 1970, 2759, 2760, 2766, 2767, 2773, 2774, 2781, 2782, 2789, 2822, 2823, 2852, 2853, 3762, 4032, 4033, 4034,





4696, 4746, 4748, 4766, 4768,  
 4770, 4776, 4777, 4793, 4818,  
 4819, 4833, 4852, 4854, 4859,  
 4870  
 \get@cdp ..... 4590  
 \getanddefine@fonts 4537, 4561  
 \Gin@boolkey ..... 2675  
 \glb@currsz ..... 4654  
 \global 164, 165, 291, 301, 302, 303,  
 304, 305, 306, 307, 308, 316,  
 1483, 1484, 1503, 1571, 1572,  
 1589, 1590, 1604, 1605, 2080,  
 2084, 2404, 2493, 3133, 3134,  
 3143, 3186, 3187, 3941, 3942,  
 3943, 3944, 3945, 3946, 3947,  
 3948, 3949, 3950, 4543, 4569  
 \globaldefs ..... 4538, 4562  
 \glossary ..... 1493, 3163  
 \glsaddprotectedpagefmt . 1631,  
 1632, 1633  
 \goodbreak ..... 4519  
 \grid ..... 3723, 3727, 3989  
 \Grot@x .. 2683, 2684, 2685, 2686  
 \Grot@y .. 2687, 2688, 2689, 2690,  
 2691, 2692  
 \group ..... 2668  
 \group@elt ..... 4589  
 \group@list ..... 4589  
 \grp@aligned ..... 307  
 \GRP@box ..... 302  
 \grp@eqs@numbered ..... 306  
 \grp@hasNumber ..... 311  
 \GRP@label ..... 303  
 \grp@linewidth ..... 305  
 \GRP@queue ..... 302  
 \grp@setnumber ..... 311  
 \grp@shiftnumber ..... 308  
 \grp@wdL ..... 304  
 \grp@wdNum ..... 305  
 \grp@wdR ..... 304  
 \grp@wdT ..... 304  
 \gsetlength .. 179, 181, 206, 208  
  
**H**  
 \hangindent ... 1690, 1691, 1692  
  
 \harfi ... 1342, 1963, 2795, 2829,  
 2859, 3232  
 \harfinumeral ..... 3233  
 \hb@xt@ ..... 3172, 3182  
 \hbox .. 232, 239, 1698, 1705, 1779,  
 2231, 3124, 3198, 3199  
 \headDateTimeFormat 3788, 3790  
 \headerfont ..... 4746  
 \headheight ... 1499, 3168, 4022  
 \heading ..... 3811  
 \headrulewidth ..... 4023, 4079  
 \headsep ..... 1500, 3177  
 \headtoname ..... 3217  
 \height ..... 2687, 2688  
 \hfil 1700, 1779, 2227, 2228, 2229,  
 2230, 2262, 2263, 2264, 2270,  
 2271, 2272, 3151, 3152, 3154,  
 3155  
 \hline ... 4472, 4787, 4788, 4791,  
 4792, 4812, 4813  
 \hrule 1700, 1702, 1817, 4355, 4361,  
 4408, 4414, 4459, 4499  
 \hrulefill ... 4037, 4042, 4056  
 \hsize ..... 20, 37, 56,  
 82, 99, 118, 1517, 1536, 1555,  
 1575, 1593, 1608, 1626, 1716,  
 1733, 1752, 2088, 2104, 2129,  
 2130, 2328, 2338  
 \hskip 1778, 1817, 2229, 2230, 2272  
 \hspace .. 1691, 1692, 3790, 3808,  
 4037, 4043, 4055, 4057, 4235  
 \hss ..... 2116  
 \Huge ..... 3760, 3829, 3885  
 \huge ..... 3759  
 \Hy@appendixstring ..... 1657  
 \Hy@backout ..... 160, 168  
 \Hy@chapapp ..... 1657  
 \HyOrg@appendix .... 1652, 1658  
 \hyper@natlinkbreak 2426, 2457  
 \hyper@natlinkstart ..... 168  
 \hyphenpenalty ..... 1688, 1770  
  
**I**  
 \if 292, 311, 2041, 2047, 2053, 2056,  
 2059, 2062, 2065, 2068, 2071,  
 2102, 2109, 2110, 2111, 2112,



2124, 2141, 2142, 2143, 2144,	1690, 1691, 1692, 1765, 1776,
2145, 2146, 2147, 2148, 2149,	1777, 1851, 1852, 1974, 1975,
2150, 2164, 2165, 2166, 2167,	1976, 1977, 1978, 1979, 1980,
2168, 2169, 2171, 2172, 2173,	1981, 1982, 2102, 2124, 2898,
2174, 2175, 2178, 2179, 2180,	2899, 2900, 2901, 2902, 2903,
2181, 2182, 2183, 2198, 2199,	2904, 2905, 2906, 2907, 3200,
2200, 2201, 2202, 2203, 2205,	3201, 3202, 3203, 3204, 3205,
2206, 2207, 2208, 2209, 2210,	3206, 3207, 3208, 3209, 3210,
2211, 2214, 2215, 2216, 2217,	3211, 3212, 3213, 3214, 3215,
2218, 2219, 2242, 2243, 2244,	3216, 3217, 3218
2245, 2246, 2247, 2249, 2250,	\if@RTL@footnote . 16, 25, 78, 87,
2251, 2252, 2253, 2254, 2287,	1468, 1512, 1523, 1571, 1572,
2288, 2289, 2290, 2291, 2292,	1581, 1712, 1721
2293, 2294, 2295, 2296, 2297,	\if@RTLibibitems . . . . . 1671
2298, 2299, 2300, 2302, 2303,	\if@RTLmain . . . 3159, 3172, 3182
2304, 2305, 2306, 2309, 2310,	\if@RTLtab . . . . . 2101, 2123,
2311, 2312, 2313, 2314, 2409,	2143, 2144, 2145, 2146, 2166,
2439, 2457, 2467, 2473, 2474,	2167, 2168, 2169, 2200, 2201,
2535, 2551, 2583, 2603, 2609,	2202, 2203, 2244, 2245, 2246,
2611, 2621, 2629, 2631, 2653,	2247, 2289, 2290, 2291, 2292
2683, 2684, 2685, 2686, 2687,	\if@specialpage . . . . . 3142
2688, 2689, 2690, 2691, 2692	\if@tempswa . . . . . 2526
\if@bidi@algorithmicloaded@ .	\if@twocolumn . . . . . 1681
. . . . . 1861	\if@twoside . . . . . 2815, 3145
\if@bidi@algorithmloaded@ 1864	\ifadl@usingarypkg . . . . 2188
\if@bidi@backrefloaded@ . 1867	\ifbidi@autofootnoterule 1571,
\if@bidi@csprimitive . . . . 1883	1589, 1604
\if@bidi@csundef . . . 3436, 3482	\ifBR@verbose . . . . . 157
\if@bidi@enumerateloaded@ 1870	\ifcase . . 2226, 2257, 2261, 2265,
\if@bidi@tocloftloaded@ . 1873	2269, 2408, 2438, 2531, 3220,
\if@bidi@urlloaded@ . . . . 1876	3229, 3257, 3320, 3326, 3329,
\if@extrafootnotefeatures 3649	3332, 3336, 3358, 3421, 3428,
\if@fileswh . . . . . 3123	3460, 3464, 3468, 3472, 3528,
\if@inlabel . . . . . 291	3536, 3542, 3548, 3560, 3566,
\if@Latin . . . . . 4730, 4731, 4732	3572, 3576, 3580, 3586, 3599,
\if@LTRbibitems . . . . . 1671	3611, 3623, 5037
\if@newlist 1483, 1503, 2348, 3133,	\ifdim . . . . . 321, 3969, 4454
3186	\ifhmode . . . . . 2025
\if@noskipsec . . . . . 290	\ifinner . . . . . 2031
\if@pboxsw . . . . . 2118	\ifmmode . . . . . 2113, 4533, 4557
\if@RTL . . . . . 2, 3, 5, 7,	\ifNAT@full . . . . . 2406, 2495
154, 244, 288, 300, 313, 1621,	\ifNAT@longnames . . . 2402, 2491
1623, 1625, 1635, 1636, 1637,	\ifNAT@numbers . . . . 2355, 2562
1638, 1639, 1640, 1641, 1642,	\ifNAT@super . . . . . 2356
1643, 1644, 1645, 1646, 1647,	\ifNAT@swa 2408, 2473, 2497, 2549
1648, 1649, 1650, 1671, 1687,	



<code>\ifnum</code> . . . . .	322,	2867, 2868, 2869, 2870, 2871,
	1571, 1589, 1604, 1767, 2072,	2872, 2873, 2945, 2953, 3151,
	2139, 2140, 2156, 2157, 2158,	3152, 3154, 3155, 4531, 4555,
	2159, 2161, 2190, 2191, 2192,	4691, 4699, 4700, 4701, 4702,
	2193, 2195, 2240, 2241, 2279,	4703, 4704, 4705, 4706, 4707,
	2280, 2281, 2282, 2284, 2880,	4708, 4709, 4723, 4726, 4727,
	2963, 3247, 3249, 3258, 3259,	4728, 4730, 4731, 4732
	3260, 3261, 3262, 3263, 3264,	<code>\ifXePersian@kabiseh</code> 4876, 4981
	3265, 3282, 3284, 3286, 3288,	<code>\ifXePersian@leap</code> . . 4876, 4925
	3290, 3295, 3306, 3307, 3309,	<code>\ifxetex</code> . . . . . 3962, 4185, 4202
	3311, 3312, 3315, 3348, 3350,	<code>\ignorespaces</code> . . . . .
	3359, 3360, 3361, 3362, 3363,	. . . 25, 42, 61, 87, 104, 123,
	3364, 3365, 3366, 3383, 3385,	198, 225, 325, 1523, 1542,
	3387, 3389, 3391, 3396, 3407,	1561, 1581, 1599, 1614, 1721,
	3408, 3410, 3412, 3413, 3416,	1738, 1757, 1799, 2330, 2340,
	3438, 3440, 3442, 3444, 3446,	3057, 3063, 3069, 3075, 3081,
	3448, 3462, 3466, 3470, 3473,	3087, 3780, 3833, 3843, 3848,
	4366, 4440, 4486, 4511, 4534,	3856, 3861, 3867, 3875, 4135,
	4558, 4915, 4919, 4947, 4953,	4161, 4310
	4974, 5001, 5005, 5010, 5014,	<code>\image</code> . . . . . 3957
	5016, 5025	<code>\immediate</code> 3123, 3591, 3592, 3603,
<code>\ifodd</code> 2042, 2048, 3146, 4908, 4913		3604, 3615, 3616
<code>\ifthenelse</code> . . . . . 178, 183, 205,		<code>\includegraphics</code> . . . 3972, 4186,
	210, 3709, 3721, 3730, 3834,	4203
	3849, 3868, 3889, 4007, 4085,	<code>\index</code> . . . . . 1492, 3162
	4086, 4116, 4148, 4162, 4182,	<code>\indexEntryFormat</code> . . 3778, 3780
	4200, 4224, 4254, 4278, 4305,	<code>\indexEntryPageFormat</code> . . . 3784,
	4334, 4339, 4344, 4349, 4354,	3786
	4387, 4392, 4397, 4402, 4407,	<code>\indexEntryPageTxt</code> . 3783, 3786
	4794	<code>\indexEntrySeparator</code> 3782, 4310
<code>\ifwritexviii</code> . 2962, 3588, 3600,		<code>\indexFormat</code> . . . . . 3774, 3776
3612		<code>\indexitem</code> 4303, 4313, 4314, 4316
<code>\ifx</code> . . 1342, 1343, 1344, 1345, 1346,		<code>\indexname</code> . . . . . 3206
	1347, 1348, 1349, 1350, 1351,	<code>\init@restore@version</code> . . . 4540,
	1352, 1792, 1823, 2018, 2021,	4588
	2105, 2325, 2335, 2412, 2413,	<code>\innerAuthorFormat</code> . 3906, 4423
	2415, 2442, 2443, 2445, 2514,	<code>\innerPlaceFormat</code> . . 3907, 4423
	2532, 2592, 2641, 2680, 2793,	<code>\innerSubtitleFormat</code> 3896, 3897
	2795, 2796, 2797, 2798, 2799,	<code>\innerTextFinalMark</code> 3908, 4444
	2800, 2801, 2802, 2803, 2804,	<code>\innerTitleFormat</code> . 3885, 3890,
	2805, 2806, 2807, 2808, 2809,	3891
	2827, 2829, 2830, 2831, 2832,	<code>\input</code> . . . . 1894, 1895, 1896, 1897,
	2833, 2834, 2835, 2836, 2837,	1898, 1899, 1900, 3486, 3487,
	2838, 2839, 2840, 2841, 2842,	3488, 3489, 3490, 3491, 3492,
	2843, 2857, 2859, 2860, 2861,	3493, 3494, 3495, 3496, 3497,
	2862, 2863, 2864, 2865, 2866,	3498, 3499, 3500, 3501, 3502,



3503, 3504, 3505, 3506, 3507,  
 3508, 3509, 3510, 3511, 3512,  
 3513, 3514, 3515, 3516, 3517,  
 3518, 3519, 3520, 3521, 3522,  
 3523, 3524, 3525, 3526, 3573,  
 3577, 3650, 3651  
 \insert 15, 32, 51, 77, 94, 113, 1511,  
 1530, 1549, 1711, 1728, 1747  
 \insert@column 2228, 2229, 2230,  
 2231, 2233, 2234  
 \int . 4615, 4623, 4631, 4639, 4647  
 \interfootnotelinepenalty ...  
 18, 35, 54, 80, 97, 116, 1514,  
 1533, 1552, 1714, 1731, 1750  
 \interlinepenalty ... 18, 35, 54,  
 80, 97, 116, 1514, 1533, 1552,  
 1714, 1731, 1750  
 \intermath@penalty ..... 324  
 \iranicdefault 3025, 3037, 3085  
 \iranicfamily . 3035, 3036, 3049  
 \isempty ..... 178, 183, 205, 210  
 \item 1685, 4820, 4821, 4822, 4823  
 \itemautorefname ..... 1637  
 \itshape ..... 4832

J

\jobname . 3592, 3593, 3604, 3605,  
 3616, 3617

K

\KashidaOff ..... 1848  
 \KashidaOn ..... 1847, 1849  
 \kern ... 199, 200, 226, 227, 1699,  
 1700, 1701, 1702, 2360, 3199  
 \keys . 1361, 1363, 1364, 1367, 1369,  
 1370, 1373, 1375, 1376, 1379,  
 1381, 1384  
 \keyval@eq@alias@key 1886, 1890

L

\l ..... 2982  
 \label 1491, 3161, 4439, 4485, 4509  
 \labelsep ..... 1669, 1673  
 \labelwidth ..... 1672, 1673  
 \LARGE ... 3758, 3845, 3909, 3912,  
 3925, 3927

\Large ... 3757, 3864, 3914, 4041,  
 4324, 4358  
 \large 3756, 3768, 3774, 3854, 3873,  
 3896, 3916, 3929, 3935, 4047  
 \LastFrameCommand ..... 1624  
 \lastpenalty ..... 322  
 \lastskip ..... 321  
 \latin ..... 3100  
 \LatinAlphs ... 3100, 3104, 3477  
 \Latincite ..... 2558, 3116  
 \latinfont ..... 25, 61, 87,  
 123, 174, 187, 194, 232, 1468,  
 1469, 1523, 1561, 1581, 1614,  
 1721, 1757, 2987, 2990, 2993,  
 3091, 3093, 3098, 3111, 3636  
 \latintoday ..... 3107  
 \lccode ..... 2577, 2578, 2579  
 \leaders ..... 1817  
 \leavevmode 290, 291, 1704, 1778,  
 2099, 2121, 2348, 3118, 3198  
 \left@footnoterule . 1571, 1604,  
 1701  
 \leftfootnoterule ..... 3551  
 \leftmargin ..... 1673  
 \leftskip ..... 1776, 1777  
 \let ... 11, 73, 164, 165, 176, 197,  
 203, 224, 230, 234, 237, 241,  
 301, 303, 306, 307, 308, 314,  
 319, 1350, 1351, 1352, 1353,  
 1481, 1483, 1491, 1492, 1493,  
 1503, 1506, 1571, 1589, 1604,  
 1652, 1662, 1663, 1670, 1685,  
 1695, 1792, 1823, 1825, 2092,  
 2093, 2094, 2095, 2096, 2097,  
 2116, 2133, 2134, 2135, 2136,  
 2205, 2206, 2207, 2249, 2250,  
 2251, 2319, 2322, 2323, 2332,  
 2333, 2352, 2356, 2358, 2359,  
 2362, 2363, 2364, 2365, 2367,  
 2368, 2369, 2370, 2375, 2376,  
 2377, 2378, 2379, 2380, 2381,  
 2391, 2400, 2403, 2406, 2407,  
 2480, 2489, 2492, 2495, 2496,  
 2504, 2559, 2584, 2595, 2602,  
 2608, 2612, 2613, 2628, 2630,  
 2650, 2659, 2677, 2679, 2793,



2827, 2857, 2879, 3091, 3092,  
 3095, 3096, 3106, 3119, 3131,  
 3133, 3146, 3147, 3148, 3149,  
 3151, 3152, 3154, 3155, 3161,  
 3162, 3163, 3186, 3189, 3228,  
 3233, 3240, 3346, 3457, 3475,  
 3476, 3478, 3479, 3625, 3626,  
 3630, 3631, 3919, 3920, 3921,  
 3941, 3942, 3943, 3944, 3945,  
 3946, 3947, 3948, 3949, 3950,  
 4529, 4545, 4571, 4654, 4749,  
 4838, 4839, 4840, 4841, 4845,  
 4846, 4847, 4848, 4860, 4861,  
 5034, 5035, 5036  
 \lineskip . . . . . 1495, 3164, 3930  
 \lineskiplimit . . . . . 1496, 3164  
 \linespacing . . . . . 1764  
 \linewidth 4786, 4790, 4805, 4865  
 \list . . . . . 1672  
 \listalgorithmname . . . . . 7  
 \listfigurename . . . . . 3203  
 \listtablename . . . . . 3204  
 \LoadClass . . . . . 3702  
 \logo . . . . . 4035, 4064  
 \long . . . . . 14, 31, 50, 76,  
 93, 112, 175, 202, 1511, 1530,  
 1549, 1570, 1588, 1603, 1710,  
 1727, 1746, 2098  
 \longdate . . . . . 4419  
 \loop . . . . . 5002, 5011  
 \lower . . . . . 3198  
 \lowercase . . . . . 2580  
 \lr . 1662, 2391, 2480, 3098, 3107,  
 3120, 3762, 3817, 4209  
 \LRE . . . . . 3098  
 \lstlistingname . . . . . 1851  
 \lstlistlistingname . . . . . 1852  
 \LTR . . . . . 3100  
 \LTRbidituftesidenotemarginpar  
 . . . . . 232  
 \LTRfoottextfont . . . . . 1469  
 \LTRmarginnote . . . . . 229  
 \ltx@ifundefined . . . . . 1654  
  
**M**  
 \m@ne . . . . . 2508, 4536, 4560  
 \m@th . . . . . 2118  
 \makeform . . . . . 4842, 4849  
 \makeform@correction 4757, 4849  
 \makeform@nocorrection . . 4754,  
 4842  
 \MakeFramed . . . . . 1626  
 \makemask . . . . . 4843, 4850  
 \makemask@correction 4762, 4850  
 \makemask@nocorrection . . 4759,  
 4843  
 \maketitle . . . . . 1787, 3918, 3942  
 \MakeUppercase . . . . . 1802, 3884  
 \makezwnjletter . . . . . 1881, 1882  
 \markboth . . . . . 1801  
 \math@bgroup . . . . . 4531, 4555  
 \math@fonts . . . . . 4538, 4562  
 \math@version . . . . .  
 . . . . . 4534, 4537, 4542, 4543,  
 4547, 4558, 4561, 4565, 4567,  
 4569, 4573  
 \mathalpha 4662, 4663, 4664, 4665,  
 4666, 4667, 4668, 4669, 4670,  
 4671  
 \mathbf . . . . . 4608, 4674  
 \mathbin . . . . . 4672  
 \mathchar@type 4595, 4604, 4606  
 \mathchardef . . . . . 4694  
 \mathcode 4616, 4624, 4632, 4640,  
 4648, 4722  
 \mathgroup . . . . . 4528  
 \mathiranic . . . . . 3036  
 \mathit . . . . . 4609, 4675  
 \mathnavar . . . . . 3039  
 \mathord . . . . . 4673  
 \mathpersiansf . . . . . 3030  
 \mathpersiantt . . . . . 3033  
 \mathpook . . . . . 3042  
 \mathrm . . . . . 4610, 4676  
 \mathsayeh . . . . . 3045  
 \mathsf . . . . . 4611, 4682  
 \mathsurround . . . . . 318  
 \mathtt . . . . . 4612, 4688  
 \mbox . . . . . 2362  
 \meaning . . . . . 2948, 2951  
 \MessageBreak . . . . . 2417, 2418, 2447,  
 2448, 3483, 4107, 4139, 4173,



4193, 4214, 4217, 4239, 4264,  
 4290, 4313, 4316, 4798  
 \MidFrameCommand ..... 1622  
 \minilogo ..... 4046, 4260  
 \minraggedcols 3685, 3686, 3724,  
 3728, 4366, 4440, 4486, 4511  
 \mlfttitle ..... 1978  
 \mltttitle ..... 1979  
 \month ..... 4902  
 \moveright ..... 1497, 3167  
 \mtctitle ..... 1977  
 \multido ..... 4008, 4014  
 \multiplefootnotemarker .. 199,  
 200, 226, 227  
 \multiply 2078, 4905, 4918, 4945,  
 4951, 4968, 4972  
 \mylogo ..... 4051  
  
 N  
 \n .. 4696, 4699, 4700, 4701, 4702,  
 4703, 4704, 4705, 4706, 4707,  
 4708, 4709  
 \NAT@@close ..... 2474, 2553  
 \NAT@@Latin@@citetp 2561, 2565,  
 2566, 2567  
 \NAT@@open ..... 2457, 2533  
 \NAT@alias 2435, 2465, 2500, 2543  
 \NAT@all@names 2403, 2406, 2492,  
 2495  
 \NAT@aysep ..... 2427  
 \NAT@biblabel ..... 2378  
 \NAT@biblabelnum ..... 2369  
 \NAT@bibsetnum ..... 2370  
 \NAT@bibsetup ..... 2379  
 \NAT@cite ..... 2375  
 \NAT@cite@list ..... 2392, 2481  
 \NAT@citea@mbox ..... 2526  
 \NAT@citenum ..... 2363  
 \NAT@citesuper ..... 2356  
 \NAT@citeundefined . 2397, 2487  
 \NAT@citex ..... 2376  
 \NAT@citexnum ..... 2367  
 \NAT@close ..... 2371, 2382  
 \NAT@cmprs ..... 2502, 2548  
 \NAT@cmt ..... 2473, 2551

\NAT@ctype 2408, 2438, 2498, 2500,  
 2531, 2539, 2541, 2550, 2559  
 \NAT@date 2382, 2399, 2409, 2410,  
 2421, 2429, 2434, 2439, 2452,  
 2459, 2464, 2467, 2474  
 \NAT@def@citea 2436, 2468, 2529  
 \NAT@def@citea@mbox ..... 2537  
 \NAT@def@citea@close .... 2470  
 \NAT@exlab 2415, 2419, 2445, 2449  
 \NAT@fullfalse ..... 2560  
 \NAT@fulltrue ..... 2560  
 \NAT@hyper@ ..... 2410,  
 2419, 2421, 2424, 2433, 2434,  
 2435, 2440, 2449, 2452, 2455,  
 2463, 2464, 2465, 2500, 2536  
 \NAT@hyper@citea@space .. 2539,  
 2541, 2543  
 \NAT@idxtxt ..... 2371, 2382  
 \NAT@ifcat@num ..... 2503, 2506  
 \NAT@last@nm .. 2400, 2412, 2442,  
 2489, 2532  
 \NAT@last@num . 2489, 2506, 2507,  
 2525  
 \NAT@last@yr .. 2400, 2413, 2443,  
 2480, 2514, 2548  
 \NAT@last@yr@mbox .. 2510, 2520  
 \NAT@Latin@cites ... 2560, 2561  
 \NAT@Latin@citex ... 2377, 2385,  
 2386  
 \NAT@Latin@citexnum 2368, 2475,  
 2476  
 \NAT@mbox 2357, 2362, 2533, 2536,  
 2553  
 \NAT@merge ..... 2510, 2525  
 \NAT@name 2371, 2382, 2403, 2407,  
 2492, 2496  
 \NAT@nm .. 2391, 2400, 2406, 2407,  
 2410, 2412, 2425, 2433, 2440,  
 2442, 2456, 2463, 2480, 2489,  
 2495, 2496, 2504, 2505, 2509,  
 2513, 2532  
 \NAT@nmfmt 2410, 2425, 2433, 2440,  
 2456, 2463  
 \NAT@num . 2371, 2480, 2489, 2503,  
 2504, 2525, 2536  
 \NAT@open ..... 2371, 2382



<code>\NAT@parse</code> . . . . .	2401, 2490		3793, 3794, 3797, 3798, 3799,
<code>\NAT@partrue</code> . . . . .	2559		3800, 3803, 3806, 3811, 3816,
<code>\NAT@penalty</code> . . .	2373, 2381, 2517,		3819, 3821, 3824, 3829, 3830,
	2532		3841, 3842, 3845, 3846, 3854,
<code>\NAT@reset@citea</code> . . .	2390, 2479		3855, 3858, 3859, 3864, 3865,
<code>\NAT@reset@parser</code> . .	2388, 2477		3873, 3874, 3876, 3877, 3878,
<code>\NAT@set@cites</code> . . . .	2354, 2557		3879, 3882, 3883, 3885, 3886,
<code>\NAT@sort@cites</code> . . . .	2389, 2478		3896, 3897, 3898, 3899, 3900,
<code>\NAT@space</code> 2359, 2364, 2380, 2532			3901, 3906, 3907, 3908, 3909,
<code>\NAT@spacechar</code> . . . . .			3910, 3911, 3912, 3913, 3914,
	.. 2364, 2371, 2380, 2382,		3915, 3916, 3917, 3952, 3957,
	2420, 2427, 2451, 2457, 2533,		3989, 4021, 4035, 4046, 4051,
	2535		4059, 4083, 4114, 4146, 4180,
<code>\NAT@super@kern</code> 2360, 2365, 2533			4199, 4303, 4321, 4328, 4370,
<code>\NAT@swafalse</code> . . . . .	2563		4378, 4421, 4427, 4447, 4464,
<code>\NAT@swattrue</code> . . . . .	2559		4493, 4518, 4602, 4603, 4605,
<code>\NAT@temp</code> . 2414, 2415, 2444, 2445			4691, 4692, 4746, 4748, 4754,
<code>\NAT@test</code> 2500, 2533, 2539, 2541			4757, 4759, 4762, 4766, 4768,
<code>\NAT@year</code> 2391, 2400, 2413, 2443			4770, 4818, 4819, 4824, 4828,
<code>\NAT@yrsep</code> . . . . 2412, 2442, 2532			4833, 4852, 4854, 5030
<code>\natexlab</code> . . . . . 2372, 2383		<code>\newcount</code> 3681, 3682, 3685, 3987,	
<code>\navardefault</code> . 3026, 3040, 3067		3988, 4877, 4878, 4879, 4880,	
<code>\navarfamily</code> . . 3038, 3039, 3050		4881, 4882, 4883, 4884, 4885,	
<code>\NeedsTeXFormat</code> 2908, 3656, 4525,		4886, 4887, 4888, 4889, 4890,	
	4736, 4873	4892, 4893, 4894, 4895, 4896,	
<code>\new@mathalphabet</code> . . . . .	4591	4897, 4898, 4899	
<code>\new@mathbf</code> . . . . . 4613, 4674		<code>\newcounter</code> . . . . . 4771, 4772	
<code>\new@mathgroup</code> 4528, 4529, 4584		<code>\newdimen</code> . . . . . 3985, 3986	
<code>\new@mathit</code> . . . . . 4621, 4675		<code>\NewDocumentCommand</code> 4613, 4621,	
<code>\new@mathrm</code> . . . . . 4629, 4676		4629, 4637, 4645	
<code>\new@mathsf</code> . . . . . 4637, 4682		<code>\newenvironment</code> . . . . 1667, 1884,	
<code>\new@mathtt</code> . . . . . 4645, 4688		2571, 2572, 3104, 3105, 3954,	
<code>\new@mathversion</code> . . . . .	4589	4060, 4222, 4252, 4276, 4430,	
<code>\new@symbolfont</code> . . . . .	4590	4479, 4505, 4800, 4834	
<code>\newboolean</code> . . 3667, 3669, 3671,		<code>\newfam</code> . . . . . 4529	
	3673, 3675, 3677, 3679	<code>\newfontlanguage</code> . . . . .	2969
<code>\newcolumntype</code> . . . . .	4750, 4751	<code>\newfontscript</code> . . . . .	2968
<code>\newcommand</code> . . . . .		<code>\newif</code> . . . . . 2962, 4876	
	1847, 1848, 1881, 1883, 1884,	<code>\newlength</code> 3659, 3660, 3661, 3662,	
	1886, 1890, 2385, 2475, 2561,	3663, 3665, 4764, 4855, 4857	
	2566, 2886, 3023, 3024, 3025,	<code>\newmathalphabet</code> . . . . .	4585
	3026, 3027, 3028, 3191, 3234,	<code>\newmathalphabet@</code> . . . . .	4585
	3237, 3340, 3343, 3664, 3719,	<code>\newmathalphabet@@</code> . . . .	4585
	3763, 3764, 3767, 3768, 3769,	<code>\newpage</code> . 3590, 3602, 3614, 4070	
	3774, 3775, 3778, 3779, 3782,	<code>\newsavebox</code> . . . . . 3953	
	3783, 3784, 3785, 3788, 3789,	<code>\newsection</code> . . . . . 4427	



`\next` 1823, 1825, 1826, 2584, 2585,  
 2586, 2590, 2592, 2595, 2599,  
 2600, 2602, 2608, 2613, 2617,  
 2619, 2628, 2630, 2636, 2639,  
 2643, 2650, 2652  
`\nobreak` . . 1778, 1780, 1816, 2357  
`\noexpand` 1481, 2583, 2603, 2609,  
 2611, 2621, 2629, 2631, 2643,  
 2644, 2653, 3131, 4541  
`\nohyphens` 3835, 3850, 3869, 3890  
`\noindent` . . . . . 232,  
 239, 3780, 3795, 3833, 3843,  
 3848, 3856, 3861, 3867, 3875,  
 3880, 3884, 3888, 4037, 4054,  
 4135, 4161, 4186, 4233, 4310,  
 4324, 4358, 4373, 4411, 4468,  
 4496, 4521, 4523  
`\non@alpherr` . . . . . 4550, 4576  
`\nopagebreak` . . . . . 4866  
`\normalcolor` . . 2086, 2327, 2337,  
 3171, 3181  
`\normalfont` . . . . . 17, 34, 53,  
 79, 96, 115, 1669, 1705, 1713,  
 1730, 1749, 1765, 2983, 3056,  
 3062, 3068, 3074, 3080, 3086,  
 3091, 3092, 3095, 3096  
`\normalparindent` . 21, 38, 57, 83,  
 100, 119, 1717, 1734, 1753  
`\normalsfcodes` . . . . 1490, 3160  
`\normalsize` 1490, 3112, 3158, 3731,  
 3732, 3778, 4373, 4411  
`\NOT` . . . . . 178, 205  
`\not` . . . . . 4778  
`\not@math@alphabet` 3030, 3033,  
 3036, 3039, 3042, 3045  
`\null` . . . . . 3922, 3938  
`\number` . . 1772, 3247, 3249, 3250,  
 3348, 3350, 3351, 3442, 3444,  
 3446, 3448, 4542, 4566, 5031,  
 5032  
`\numexpr` . 4616, 4624, 4632, 4640,  
 4648  
  
**O**  
`\obeyspaces` . . . . . 4696  
`\oddsidemargin` . . . . . 3147

`\old@endquestion` . . . 4861, 4869  
`\old@question` . . . . . 4860, 4867  
`\or` 2228, 2229, 2230, 2232, 2233,  
 2257, 2258, 2259, 2263, 2264,  
 2265, 2266, 2267, 2271, 2272,  
 2433, 2434, 2435, 2463, 2464,  
 2465, 2538, 2540, 2542, 3220,  
 3221, 3222, 3223, 3224, 3225,  
 3229, 3230, 3231, 3268, 3269,  
 3270, 3271, 3272, 3273, 3274,  
 3275, 3276, 3277, 3281, 3320,  
 3321, 3322, 3323, 3326, 3329,  
 3332, 3333, 3336, 3337, 3338,  
 3369, 3370, 3371, 3372, 3373,  
 3374, 3375, 3376, 3377, 3378,  
 3382, 3421, 3422, 3423, 3424,  
 3425, 3428, 3429, 3430, 3431,  
 3460, 3461, 3464, 3465, 3468,  
 3469, 3472, 3530, 3532, 3538,  
 3544, 3550, 3552, 3554, 3556,  
 3562, 3568, 3582, 3628, 5037,  
 5038, 5039, 5040, 5041, 5042,  
 5043  
`\orig` . . . . . 4608, 4609,  
 4610, 4611, 4612, 4614, 4622,  
 4630, 4638, 4646  
`\originaltoday` . . . . 3106, 3107  
`\Ovalbox` . . . . . 4350, 4403  
`\ovalbox` . . . . . 4345, 4398  
`\overline` . . . . . 4709  
  
**P**  
`\p@` . . 1682, 1686, 1699, 1700, 1701,  
 1702, 2360, 3923  
`\p@enumiv` . . . . . 1670  
`\PackageError` . . . . .  
 . . . 1862, 1865, 1868, 1871,  
 1874, 1877, 3197, 3242, 3483,  
 3589, 3595, 3601, 3607, 3613,  
 3619  
`\PackageInfo` . . . . 158, 170, 4602  
`\PackageWarning` 2398, 2487, 3434,  
 3587  
`\PackageWarningNoLine` . . . 2415,  
 2445  
`\page@free` . . . . . 3967, 3969





<code>\pageautorefname</code> . . . . .	1650	<code>\persianmathsfdigits</code> 4682, 4727,	
<code>\pagegoal</code> . . . . .	4449	4731	
<code>\pagename</code> . . . . .	3216	<code>\persianmathttdigits</code> 4688, 4728,	
<code>\pagenumbering</code> 69, 250, 261, 279,		4732	
1459, 1962, 2816		<code>\persianmonth</code> . . . . .	5035
<code>\pageref</code> . . . . .	3808, 4306	<code>\persiansfdefault</code> ..	3023, 3031,
<code>\pagesFormat</code> . . . . .	3882, 3884	3055	
<code>\pagestyle</code> . . . . .	4025	<code>\persiansffamily</code> ..	3029, 3030,
<code>\pagetotal</code> . . . . .	4450	3047	
<code>\par</code> . . . . .	10, 25, 42, 61, 71, 87,	<code>\persiantoday</code> . . . . .	3108, 5030
104, 123, 131, 137, 143, 149,		<code>\persianttdefault</code> ..	3024, 3034,
251, 262, 269, 281, 939, 1451,		3061	
1461, 1473, 1690, 1691, 1692,		<code>\persianttfamily</code> ..	3032, 3033,
1694, 1721, 1738, 1757, 1769,		3048	
1779, 1787, 1966, 2756, 2763,		<code>\persianyear</code> . . . . .	5034
2770, 2778, 2786, 2819, 2849,		<code>\pictureCaptionFormat</code> ...	3878,
3925, 3927, 3933, 3935, 3936,		3880	
4425, 4510, 4806, 4866		<code>\plftitle</code> . . . . .	1975
<code>\paragraphautorefname</code> ...	1646	<code>\plq</code> . . . . .	2942
<code>\parallel</code> . . . . .	3790	<code>\plttitle</code> . . . . .	1976
<code>\parbox</code> . . . . .	4805, 4865	<code>\pookdefault</code> ..	3027, 3043, 3073
<code>\parfillskip</code> . . . . .	1777	<code>\pookfamily</code> ...	3041, 3042, 3051
<code>\parindent</code> 21, 38, 57, 83, 100, 119,		<code>\postmath</code> . . . . .	324
1686, 1717, 1734, 1753, 1776		<code>\PrefixCurrentTab</code> . . . . .	2886
<code>\parskip</code> . . . . .	1686	<code>\premath</code> . . . . .	320
<code>\part</code> . . . . .	1763	<code>\prepnext@tok</code> . . . . .	2225, 2235
<code>\partautorefname</code> . . . . .	1640	<code>\printindex</code> ..	3590, 3602, 3614
<code>\partname</code> . . . . .	3209	<code>\process@table</code> . . . . .	4588
<code>\PassOptionsToClass</code> 3687, 3688,		<code>\ProcessOptions</code> ....	3701, 4872
3689		<code>\ProcessOptionsX</code> . . . . .	3647
<code>\pbs</code> . . . . .	4749, 4750	<code>\proofname</code> . . . . .	3218
<code>\pdfstringdefDisableCommands</code> .		<code>\protect</code> . . . . .	1481, 3131, 4107,
1661		4108, 4110, 4139, 4140, 4142,	
<code>\penalty</code> ...	318, 324, 2373, 3121	4173, 4174, 4176, 4193, 4194,	
<code>\persian</code> . . . . .	3102	4196, 4214, 4215, 4217, 4313,	
<code>\PersianAlphs</code> ..	3102, 3105, 3624,	4314, 4316, 4755, 4758, 4760,	
3629, 3655		4763, 4781, 4786, 4787, 4788,	
<code>\persianday</code> . . . . .	5036	4790, 4791, 4792, 4812, 4813	
<code>\persianfont</code> . . . . .		<code>\protected@edef</code> . . . . .	22, 39,
42, 104, 214, 221, 239, 1470,		58, 84, 101, 120, 1518, 1537,	
1542, 1599, 1738, 2973, 2976,		1556, 1577, 1595, 1610, 1718,	
2979, 3095, 3097, 3099		1735, 1754	
<code>\PersianMathsDigits</code> 3533, 4725		<code>\protected@xdef</code> . . . . .	186, 213
<code>\persianmathsdigits</code> 4661, 4726,		<code>\providecommand</code> . . . . .	3433
4730		<code>\ProvidesClass</code> . . . . .	3657



`\ProvidesFile` . . . 1, 4, 8, 68, 129,  
 135, 141, 147, 153, 173, 243,  
 245, 256, 267, 275, 287, 327,  
 1280, 1340, 1357, 1395, 1438,  
 1449, 1455, 1467, 1471, 1478,  
 1507, 1616, 1630, 1634, 1666,  
 1808, 1850, 1853, 1880, 1960,  
 1973, 1983, 2353, 2754, 2761,  
 2768, 2776, 2784, 2813, 2847,  
 2877, 2897  
`\ProvidesPackage` . . . 2911, 4526,  
 4737, 4874  
`\prq` . . . . . 2941  
`\ptctitle` . . . . . 1974

## Q

`\question` . . . . . 4860  
`\questionsepspace` . . 4857, 4858,  
 4870  
`\questionspace` 4764, 4765, 4806  
`\questiontitle` . . . . 4852, 4871  
`\questiontitlefont` . . . . 4854  
`\questiontitlespace` 4855, 4856,  
 4866

## R

`\raggedFormat` . . 3719, 4367, 4441,  
 4487, 4512  
`\RaggedLeft` . . . . . 3719  
`\raggedleft` . . . . . 1687, 1765  
`\raggedright` . . . . . 1687, 1765  
`\raise` . . . . . 1705  
`\raisebox` . . . . . 3765, 3770  
`\refname` . . . . . 244, 3207  
`\refstepcounter` . . . . 4822, 4823  
`\relax` 191, 200, 218, 227, 1669, 1686,  
 1766, 1772, 1774, 1776, 1778,  
 1881, 2073, 2105, 2240, 2241,  
 2262, 2263, 2264, 2325, 2335,  
 2359, 2365, 2409, 2439, 2467,  
 2474, 2480, 2507, 2514, 2525,  
 2680, 2793, 2827, 2857, 2880,  
 2945, 2963, 3528, 3536, 3542,  
 3548, 3560, 3566, 3572, 3576,  
 3580, 3586, 3599, 3611, 3623,  
 3701, 3920, 3941, 3942, 3947,

3948, 3949, 3950, 4531, 4545,  
 4555, 4571, 4604, 4606, 4616,  
 4624, 4632, 4640, 4648, 4654,  
 4722, 4904, 4905, 4907, 4912,  
 4917, 4918, 4924, 4926, 4928,  
 4930, 4931, 4932, 4933, 4934,  
 4935, 4936, 4937, 4938, 4939,  
 4940, 4942, 4944, 4945, 4950,  
 4951, 4958, 4960, 4963, 4967,  
 4968, 4971, 4972, 4975, 4980,  
 4982, 4984, 4986, 4987, 4988,  
 4989, 4990, 4991, 4992, 4993,  
 4994, 4995, 4996, 4997, 4999,  
 5000, 5003, 5008, 5012, 5018,  
 5020, 5021  
`\renewcommand` . . . . 9, 70, 130, 131,  
 136, 137, 142, 143, 148, 149,  
 229, 236, 246, 247, 251, 257,  
 258, 262, 268, 269, 276, 280,  
 281, 1450, 1451, 1456, 1460,  
 1461, 1468, 1469, 1470, 1472,  
 1473, 1670, 1693, 1783, 1784,  
 1785, 1786, 1961, 1963, 1964,  
 1965, 1966, 2354, 2371, 2382,  
 2755, 2756, 2762, 2763, 2769,  
 2770, 2777, 2778, 2785, 2786,  
 2792, 2814, 2818, 2819, 2826,  
 2848, 2849, 2856, 2878, 2898,  
 2899, 2900, 2901, 2902, 2903,  
 2904, 2905, 2906, 2907, 3590,  
 3602, 3614, 3731, 3738, 3740,  
 3742, 3749, 3756, 3757, 3758,  
 3759, 3760, 3812, 3813, 3814,  
 3825, 3826, 3827, 3918, 4023,  
 4059, 4079, 4418, 4428, 4433,  
 4753  
`\renewenvironment` . . 1617, 4862  
`\repeat` . . . . . 5005, 5014  
`\RequirePackage` . . . . . 2913,  
 2914, 2915, 2916, 3658, 3703,  
 3704, 3705, 3706, 3707, 3708,  
 3710, 3712, 3714, 3715, 3716,  
 3717, 3718, 4739, 4740, 4741,  
 4742, 4743, 4744  
`\reserved@a` 2037, 2041, 2047, 2053,  
 2056, 2059, 2062, 2065, 2068,



[2071](#)  
`\reserved@b` . . . . . 2017, 2018  
`\reset@font` 1490, 1513, 1532, 1551,  
[1574](#), [1592](#), [1607](#), [2397](#), [2486](#),  
[3092](#), [3096](#), [3110](#), [3124](#), [3157](#)  
`\resetlatinfont` 3090, 3100, 3104,  
[3159](#)  
`\restore@mathversion` . . . . 4588  
`\right@footnoterule` 1571, 1589,  
[1697](#)  
`\rightfootnoterule` . . . . . 3553  
`\rightline` . . . . . 4422  
`\rightskip` . . . . . 1776, 1777  
`\rl` . . . . . 1663, 3099, 3108  
`\RLE` . . . . . 3099  
`\rmdefault` . . . . . 2982  
`\Roman` . . . 1348, 2800, 2834, 2864  
`\roman` . . . 1347, 2801, 2835, 2865  
`\romannumeral` . 2809, 2843, 2873,  
[5004](#), [5013](#), [5023](#)  
`\RTL` . . . . . 3102  
`\RTLbidiftesidenotemarginpar`  
. . . . . 239  
`\RTLfoottextfont` . . . . . 1470  
`\RTLmarginnote` . . . . . 236  
`\rule` . . . . 25, 42, 61, 87, 104, 123,  
[1523](#), [1542](#), [1561](#), [1581](#), [1599](#),  
[1614](#), [1721](#), [1738](#), [1757](#), [3782](#),  
[3908](#), [4010](#), [4016](#), [4103](#), [4135](#)

## S

`\sayehdefault` . 3028, 3046, 3079  
`\sayehfamily` . . 3044, 3045, 3052  
`\scriptsize` . . . . . 3740  
`\secondarticle` . 4114, 4139, 4140,  
[4142](#)  
`\secondSubtitleFormat` . . . 3854,  
[3856](#)  
`\secondTextFormat` . . 3858, 3861  
`\secondTitleFormat` . 3845, 3850,  
[3851](#)  
`\section` . . . . . 3193  
`\sectionautorefname` . . . . 1643  
`\sectionname` . . . . . 11, 1695  
`\select@group` . . . . . 4530

`\selectfont` 2979, 2993, 3007, 3019,  
[3031](#), [3034](#), [3037](#), [3040](#), [3043](#),  
[3046](#)  
`\set@mathdelimater` . . . . 4595  
`\set@mathaccent` . . . . . 4592  
`\set@mathchar` . . . . . 4592  
`\set@mathdelimater` . . . . 4594  
`\set@mathsymbol` . . . . . 4593  
`\set@typeset@protect` 1485, 1489,  
[3137](#), [3139](#)  
`\setboolean` . . . . .  
. . . 2887, 2888, 3668, 3670,  
[3672](#), [3674](#), [3676](#), [3678](#), [3680](#),  
[3696](#), [3697](#), [3699](#), [3700](#), [4062](#),  
[4080](#), [4225](#), [4250](#), [4279](#), [4301](#)  
`\setbox` . . . . . 302, 1572,  
[1590](#), [1605](#), [2084](#), [2127](#), [2231](#),  
[2233](#), [2234](#), [2324](#), [2327](#), [2334](#),  
[2337](#), [3168](#)  
`\setclass` . 1819, 1829, 1830, 1831,  
[1832](#), [1833](#), [1834](#), [1835](#), [1836](#)  
`\setcounter` . . . . .  
[132](#), [133](#), [138](#), [139](#), [144](#), [145](#),  
[150](#), [151](#), [252](#), [253](#), [263](#), [264](#),  
[270](#), [271](#), [282](#), [283](#), [1452](#),  
[1453](#), [1462](#), [1463](#), [1474](#), [1475](#),  
[1505](#), [1967](#), [1968](#), [2757](#), [2758](#),  
[2764](#), [2765](#), [2771](#), [2772](#), [2779](#),  
[2780](#), [2787](#), [2788](#), [2820](#), [2821](#),  
[2850](#), [2851](#), [2881](#), [2885](#), [2889](#),  
[2890](#), [2891](#), [2892](#), [2893](#), [2894](#),  
[2895](#), [3940](#), [4775](#)  
`\setdigitfont` . . . . . 4653  
`\setiranicfont` . . . . . 3083  
`\setkeys` . . . . . 293, 310  
`\setlatinmonofont` . . . . . 2998  
`\setlatinsansfont` . . . . . 2997  
`\setlatinfont` . . 2985, 3654  
`\setlength` 2103, 2106, 2125, 3666,  
[3698](#), [3733](#), [3734](#), [3735](#), [3736](#),  
[3744](#), [3745](#), [3746](#), [3747](#), [3751](#),  
[3752](#), [3753](#), [3754](#), [3959](#), [3963](#),  
[4004](#), [4005](#), [4022](#), [4027](#), [4028](#),  
[4152](#), [4184](#), [4256](#), [4281](#), [4284](#),  
[4332](#), [4333](#), [4381](#), [4382](#), [4448](#),  
[4449](#), [4465](#), [4765](#), [4856](#), [4858](#)





`\tartibi` . . . 1344, 2797, 2831, 2861,  
3340  
`\tartibinumeral` . . . . . 3346  
`\test` . . . . . 1822, 1823, 1824  
`\textbf` 2, 3, 1619, 1621, 1623, 1625,  
4324, 4358, 4373, 4411  
`\textblockorigin` . . . . . 3984  
`\textdegree` . . . . . 3798  
`\textheight` . . . 3187, 3991, 4016  
`\textiranic` . . . . . 3049  
`\textit` . . . . . 3909  
`\textnavar` . . . . . 3050  
`\textpersiansf` . . . . . 3047  
`\textpersiantt` . . . . . 3048  
`\textpook` . . . . . 3051  
`\textsayeh` . . . . . 3052  
`\textsc` . . . . . 3911  
`\textsuperscript` . . . . . 2357  
`\texttt` . . . . . 3768  
`\textwidth` 2130, 3172, 3182, 3990,  
4010, 4322, 4802  
`\textwidthfootnoterule` . . 3557  
`\thanks` . . . . . 3921, 3941  
`\the` . . . . . 289, 294, 1801, 1802,  
1817, 2107, 2605, 2610, 2616,  
2623, 2633, 2647, 2939, 3966,  
3967, 4452, 4734, 4735, 5004,  
5013, 5023  
`\the@choice` . . . . . 4774, 4796  
`\thebook` . . . . . 1964  
`\thechapter` . . . . .  
74, 255, 266, 273, 285, 1465,  
1477, 1963, 1970, 2760, 2767,  
2774, 2782, 2823, 2853  
`\theclass` . . . . . 1819, 1824  
`\theenumiv` . . . . . 1670, 1672  
`\theHchapter` . . . . . 1656  
`\theHsection` . . . . . 1655  
`\theindex` . . . . . 1681  
`\thempfn` . . 186, 192, 213, 219, 2132  
`\thempfootnote` . . . . . 2132  
`\theoremautorefname` . . . . 1649  
`\thepage` . 2399, 2416, 2446, 2488,  
3127, 3808  
`\theparagraph` . . . . . 1785, 1786  
`\thepart` . . . . . 9,  
70, 130, 136, 142, 148, 246,  
257, 268, 280, 1450, 1460,  
1472, 1693, 1965, 2755, 2762,  
2769, 2777, 2785, 2818, 2848  
`\thequestion` . . . 4795, 4835, 4871  
`\thesection` 12, 134, 140, 146, 152,  
1454, 1696, 1783, 2789  
`\thesubparagraph` . . . . . 1786  
`\thesubsection` . . . . 1783, 1784  
`\thesubsubsection` . . 1784, 1785  
`\thirdarticle` . . 4146, 4173, 4174,  
4176  
`\thirdSubtitleFormat` 3873, 3875  
`\thirdTextFormat` . . 3876, 3877  
`\thirdTitleFormat` . . 3864, 3869,  
3870  
`\thispagestyle` . 1684, 1790, 4063,  
4068  
`\thr@@` . . . . . 2159, 2178, 2179,  
2193, 2214, 2215, 2241, 2253,  
2254, 2282, 2309, 2310  
`\timestamp` 3901, 4098, 4128, 4164  
`\timestampFormat` . . . 3900, 3902  
`\timestampSeparator` 3899, 3904  
`\timestampTxt` . . . . 3898, 3903  
`\tiny` . . . . . 3738  
`\title` . . . . . 3947  
`\TitleBarFrame` . 1619, 1621, 1623,  
1625  
`\tl` . . . . . 4582, 4599  
`\tmp` . . . . . 4749  
`\today` . . . . . 3106, 3108, 4419  
`\toks` . . . . . 1799, 1801  
`\toks@` . . . . . 1798, 1802  
`\topmargin` . . . . . 1497, 3166  
`\TPHorizModule` . . . . 3779, 4004,  
4103, 4135, 4186, 4233, 4234,  
4257, 4258, 4281  
`\TPVertModule` . . . . . 4005  
`\true` . . . . . 4824  
`\truesymbol` . . . . . 4818  
`\tw@` . . . . . 2054,  
2057, 2139, 2145, 2146, 2148,  
2158, 2168, 2169, 2192, 2202,  
2203, 2240, 2246, 2247, 2252,



2281, 2291, 2292, 2500  
`\twocolumnstableofcontents` 3191  
`\typeout` . . . . . 2938, 2940, 3952

## U

`\Umathchardef` . . . . . 4606  
`\Umathcode` . . . . . 4604  
`\undefined` 1994, 4691, 4723, 4726,  
4727, 4728, 4730, 4731, 4732  
`\unhbox` . . . . . 2116  
`\unpenalty` . . . . . 324  
`\unrestored@protected@xdef` 192,  
219  
`\unskip` . . . . . 25, 42, 61, 87,  
104, 123, 198, 225, 321, 1721,  
1738, 1757, 2270, 2271, 2272,  
2357, 2420, 2451  
`\unvbox` . . . . . 1573, 1591, 1606, 2116  
`\uppercaseonmath` . . . . . 1791  
`\use` 2974, 2979, 2988, 2993, 3002,  
3007, 3014, 3019  
`\use@mathgroup` . . . . . 4541  
`\usebox` . . . . . 3956  
`\usecounter` . . . . . 1674, 4808

## V

`\value` . . . . . 2880, 4778, 4794  
`\vbox` . . . . . 1485, 1498, 1572, 1590,  
1605, 1699, 2087, 2104, 2109,  
2110, 2127, 2234, 2324, 2328,  
2334, 2338, 3136, 3167, 3168,  
4495, 4521  
`\vcenter` . . . . . 2113, 2114  
`\verbatim@addtoline` . . . . .  
. . . 2589, 2604, 2615, 2622,  
2624, 2632, 2634, 2646, 2648  
`\verbatim@finish` . . . . . 2642  
`\verbatim@processline` . . . 2593,  
2606, 2626  
`\verbatim@startline` 2582, 2594,  
2607, 2627  
`\version@elt` . . . . . 4587  
`\version@list` . . . . . 4587  
`\vfil` . . . . . 3169, 3922, 3938  
`\voidb@x` . . . . . 302  
`\vrb@catcodes` . . . . . 2576

`\vskip` 1497, 1499, 1500, 3166, 3177,  
3923, 3926, 3928, 3934  
`\vspace` . . . . . 232,  
239, 3958, 3977, 4039, 4049,  
4092, 4096, 4119, 4122, 4126,  
4133, 4151, 4155, 4159, 4168,  
4227, 4231, 4287, 4308, 4356,  
4360, 4379, 4409, 4413, 4458,  
4460, 4470, 4473, 4498, 4500,  
4520, 4522, 4806, 4864, 4866  
`\vss` . . . . . 2116  
`\vtop` . . . . . 2111, 2112, 2233

## W

`\weatherFormat` . . . . . 3793, 3795  
`\weatheritem` . . . 4199, 4214, 4215,  
4217  
`\weatherTempFormat` . . 3797, 4207  
`\weatherUnits` . . . . . 3798, 4209  
`\whiledo` . . . . . 4778  
`\widowpenalty` . . . . . 1675  
`\width` . . . . . 1627, 2685, 2686  
`\write` . . . 3123, 3592, 3604, 3616  
`\writexviiiifalse` . . . . . 2966  
`\writexviii>true` . . . . . 2964

## X

`\X` . . . . . 4748  
`\x` . . . . . 2948, 2953  
`\xdef` 1657, 4541, 4774, 4779, 4803,  
4804, 4825, 4826, 4829, 4830  
`\XePersian` . . . . . 1664, 3198, 3817  
`\xepersian` . . . . . 2663, 2665  
`\xepersian@adadi` . . 3256, 3281  
`\xepersian@adadi@tartibi` 3357,  
3382  
`\xepersian@A` 1814, 1829, 1843, 1845  
`\xepersian@adadi` . . . 3250, 3255  
`\xepersian@adadi@tartibi` 3351,  
3356  
`\xepersian@cmds@temp` 2943, 2961  
`\xepersian@coltitsize` . . . . .  
. . . 3660, 4383, 4384, 4385,  
4386, 4389, 4394, 4399, 4404  
`\xepersian@cx` . . 3987, 3992, 4009  
`\xepersian@cy` . . 3988, 3993, 4015



\XePersian@d . . . 4877, 4902, 5007,  
5026, 5028, 5031, 5036  
\xepersian@D 1811, 1831, 1832, 1833,  
1834, 1838, 1839, 1840, 1842,  
1843  
\xepersian@dahgan . . . 3314, 3335,  
3415  
\xepersian@digits@family 4655,  
4657, 4658, 4659, 4660  
\XePersian@dn . . . . .  
. . . 4897, 4996, 5004, 5007,  
5010, 5014, 5026, 5028  
\xepersian@dx . . . 3985, 3990, 4001,  
4004  
\xepersian@dy . . . 3986, 3991, 4002,  
4005  
\xepersian@edition . . . 3767, 3771,  
3807, 3927, 4059  
\xepersian@editionLogo . . . 3769,  
4037, 4055  
\xepersian@editorialTit . . . 4464,  
4483  
\xepersian@editorialTitle 3910,  
4469  
\xepersian@everyjob 2939, 2940  
\xepersian@firstText 3842, 4098  
\xepersian@firstTitle . . . 3830,  
4093  
\xepersian@fmbox . . . 3953, 3955,  
3956  
\xepersian@footcenter . . . 3819,  
3826, 4078  
\xepersian@footleft 3821, 3825,  
4077  
\xepersian@footright 3816, 3827,  
4076  
\xepersian@gridcolumns . . . 3682,  
3684, 3723, 3727  
\xepersian@gridrows 3681, 3683,  
3723, 3727  
\xepersian@headcenter . . . 3803,  
3813, 4075  
\xepersian@headDateTime . . . 3789,  
4043, 4057  
\xepersian@headleft 3800, 3812,  
4074  
\xepersian@headright 3806, 3814,  
4073  
\XePersian@i . . . . .  
. . . 4877, 5000, 5001, 5003,  
5004, 5005, 5008, 5012, 5013,  
5016, 5017, 5020, 5023, 5025  
\xepersian@imgsize 3659, 3960,  
3961, 3963, 3972, 3973  
\xepersian@incolumntitle 4370,  
4389, 4394, 4399, 4404  
\xepersian@indexEntry . . . 3779,  
4306  
\xepersian@indexEntryPage 3785,  
4306  
\xepersian@indexFrameTitle . . . . .  
. . . . . 3775, 4282  
\xepersian@indexwidth . . . 3663,  
3782, 4281, 4285, 4286  
\xepersian@inexpandedtitle . . . . .  
. . . . . 4321, 4336, 4341, 4346,  
4351  
\xepersian@innerSubtitle 3897,  
4437  
\xepersian@innerTitle . . . 3886,  
4436  
\XePersian@kabisehfalse . . . 4947,  
4953  
\XePersian@kabisehtrue . . . 4953  
\xepersian@kashida . . . . . 1816,  
1838, 1839, 1840, 1841, 1842,  
1843, 1844  
\xepersian@L . . . 1812, 1835, 1839,  
1840, 1841, 1844, 1845  
\XePersian@latini . . . 4878, 4924  
\XePersian@latinii . . . 4879, 4926,  
4928  
\XePersian@latiniii 4880, 4930  
\XePersian@latiniv . . . 4881, 4931  
\XePersian@latinix . . . 4886, 4936  
\XePersian@latinvi . . . 4882, 4932  
\XePersian@latinvi . . . 4883, 4933  
\XePersian@latinvii 4884, 4934  
\XePersian@latinviii 4885, 4935  
\XePersian@latinix . . . 4887, 4937  
\XePersian@latinxi . . . 4888, 4938  
\XePersian@latinxii 4889, 4939



\XePersian@leapfalse 4909, 4913, 4919  
\XePersian@leaptrue 4919, 4920  
\XePersian@localize@verbatim@  
... 2584, 2585, 2587, 2595, 2608, 2617, 2628, 2636, 2650  
\XePersian@localize@verbatim@@  
..... 2587, 2588  
\XePersian@localize@verbatim@@@  
..... 2590, 2591  
\XePersian@localize@verbatim@@testend  
..... 2630, 2640  
\XePersian@localize@verbatim@rescan  
..... 2644, 2653  
\XePersian@localize@verbatim@start  
. 2581, 2656, 2657, 2668  
\XePersian@localize@verbatim@test  
... 2599, 2601, 2602  
\XePersian@localize@verbatim@testend  
..... 2613, 2620  
\XePersian@m ... 4877, 4902, 4998, 5017, 5020, 5032, 5035  
\XePersian@milyoongan ... 3283, 3294  
\XePersian@milyoongan@tartibi  
..... 3384, 3395  
\XePersian@mminusone 4899, 4998, 4999, 5001, 5005  
\XePersian@ncol ... 4014, 4015  
\XePersian@ncolumns 3664, 4365, 4366, 4433  
\XePersian@nrow ... 4008, 4009  
\XePersian@numberoutofrange .  
... 3241, 3252, 3353  
\XePersian@numberstring . 3238, 3246  
\XePersian@numberstring@tartibi  
..... 3344, 3347  
\XePersian@PackageInfo ... 4602, 4656  
\XePersian@pageleft 3662, 4449, 4450, 4452, 4454  
\XePersian@pageneed .....  
... 3661, 3963, 3964, 3966, 3969, 4448, 4454  
\XePersian@pages 3883, 4118, 4150, 4435  
\XePersian@persian@month 5032, 5037  
\XePersian@persiani 4878, 4978, 4979, 5009, 5026  
\XePersian@persianii 4879, 4980  
\XePersian@persianiii ... 4880, 4982, 4984  
\XePersian@persianiv 4881, 4986  
\XePersian@persianix 4886, 4991  
\XePersian@persianv 4882, 4987  
\XePersian@persianvi 4883, 4988  
\XePersian@persianvii ... 4884, 4989  
\XePersian@persianviii ... 4885, 4990  
\XePersian@persianx 4887, 4992  
\XePersian@persianxi 4888, 4993  
\XePersian@persianxii ... 4889, 4994  
\XePersian@persianxiii ... 4890, 4995  
\XePersian@pictureCaption 3879, 3975, 4189  
\XePersian@R ... 1813, 1830, 1842, 1844  
\XePersian@sadgan .....  
... 3287, 3292, 3296, 3300, 3305, 3388, 3401  
\XePersian@sadgan@tartibi 3393, 3397, 3406  
\XePersian@say 3952, 4432, 4452, 4455, 4457, 4481, 4507  
\XePersian@secondSubtitle 3855, 4124  
\XePersian@secondText ... 3859, 4128  
\XePersian@secondTitle ... 3846, 4120  
\XePersian@section . 3799, 3804, 4428  
\XePersian@shellescape ... 2963  
\XePersian@shortarticleItemTitle  
..... 3917, 4521





`\xepersian@shortarticleSubtitle` ..... 3915, 4501  
`\xepersian@shortarticleTit` ..  
..... 4493, 4508  
`\xepersian@shortarticleTitle` .  
..... 3913, 4497  
`\XePersian@sn` . 4898, 4997, 5009,  
5010, 5013, 5014, 5023, 5028  
`\xepersian@tartibi` . 3344, 3420  
`\XePersian@temp` .....  
.. 4892, 4903, 4904, 4905,  
4907, 4911, 4912, 4913, 4916,  
4917, 4918, 4919, 4941, 4942,  
4943, 4946, 4947, 4949, 4952,  
4953, 4957, 4958, 4961, 4964,  
4969, 4974, 4976, 4977, 4979  
`\xepersian@tempa` .....  
.. 3527, 3535, 3541, 3547,  
3559, 3565, 3571, 3575, 3579,  
3585, 3598, 3610, 3622  
`\xepersian@tempb` .....  
.. 3527, 3528, 3535, 3536,  
3541, 3542, 3547, 3548, 3559,  
3560, 3565, 3566, 3571, 3572,  
3575, 3576, 3579, 3580, 3585,  
3586, 3598, 3599, 3610, 3611,  
3622, 3623  
`\XePersian@tempthree` .....  
.. 4894, 4955, 4956, 4957,  
4959, 4962, 4965, 4966, 4970,  
4973, 4974, 4975, 4976  
`\XePersian@temptwo` .....  
.. 4893, 4943, 4944, 4945,  
4946, 4949, 4950, 4951, 4952,  
4959, 4960, 4961, 4962, 4963,  
4964, 4966, 4967, 4968, 4969,  
4970, 4971, 4972, 4973  
`\xepersian@thirdSubtitle` 3874,  
4157  
`\xepersian@thirdText` 3877, 4164  
`\xepersian@thirdTitle` ... 3865,  
4153  
`\XePersian@thirtytwo` 4896, 4940,  
4947  
`\xepersian@V` ..... 1815, 1836  
`\xepersian@weather` . 3794, 4229  
`\xepersian@www` ..... 3764, 4037  
`\xepersian@wwwFormat` 3763, 3765  
`\XePersian@y` .. 4877, 4902, 4903,  
4906, 4916, 4919, 4941, 4955,  
5018, 5021, 5032, 5034  
`\xepersian@yekani` .. 3287, 3315,  
3319, 3326, 3329, 3388  
`\xepersian@yekanii` 3238, 3300,  
3325, 3401  
`\xepersian@yekaniiiii` 3296, 3328,  
3397  
`\xepersian@yekaniv` . 3307, 3331,  
3408  
`\xepersian@yekanv` .. 3416, 3427  
`\XePersian@yModHundred` .. 4895,  
4906, 4907, 4908, 4911, 4915  
`\xepersian@zwj` .. 1809, 1816, 1817  
`\xepersian@date` . 2910, 2911, 2927  
`\xepersian@init` ..... 3720, 4021  
`\xepersian@version` .. 2909, 2911,  
2927  
`\XeTeXcharclass` ..... 1824  
`\XeTeXcharglyph` ..... 1817  
`\XeTeXglyphbounds` ..... 1817  
`\XeTeXinterchartokenstate` 1847,  
1848  
`\XeTeXinterchartoks` 1838, 1839,  
1840, 1841, 1842, 1843, 1844,  
1845  
`\xpg@warning` .. 3433, 3438, 3440  
  
Y  
`\y` ..... 2949, 2951, 2953  
`\year` ..... 4902  
  
Z  
`\z` ..... 2950, 2951  
`\z@` ..... 10, 25, 42,  
61, 72, 87, 104, 123, 304, 305,  
316, 318, 1496, 1523, 1542,  
1561, 1581, 1599, 1614, 1682,  
1686, 1694, 1705, 1721, 1738,  
1757, 1764, 1776, 1788, 1805,  
2032, 2132, 2136, 2141, 2142,  
2150, 2160, 2164, 2165, 2170,  
2184, 2194, 2198, 2199, 2204,



2220, 2242, 2243, 2254, 2272,  
 2283, 2287, 2288, 2301, 2315,  
 2502, 2548, 2550, 2559, 2683,  
 2684, 2691, 2692, 3146, 3164,  
 3175, 3282, 3284, 3286, 3290,  
 3306, 3309, 3315, 3383, 3385,  
 3387, 3391, 3407, 3410, 3416,  
 3440, 3462, 3466, 3470, 3473,  
 4953  
 \z@skip ..... 1494, 1495, 3164  
 \ziffer@check ..... 4697, 4698  
 \ziffer@dcheck ..... 4696, 4697  
 \ziffer@DotOri ..... 4694, 4697  
 \ZifferAn ..... 4692, 4695  
 \ZifferLeer ..... 4697, 4723

\ ..... 1271, 1972, 2568  
 \ ..... 1996, 1998, 2001, 2008  
 \ ..... 2001  
 \ .. 1986, 1993, 1994, 1997, 1998,  
 2006, 2008  
 \ ..... 1991, 1992, 1996, 2003  
 \ ... 1984, 1990, 1991, 1996, 2001,  
 2002  
 \ .. 1272, 1273, 1274, 1275, 1276,  
 1277, 1278, 1279, 1994  
 \ 1996, 1997, 2002, 2003, 2005,  
 2006  
 \ ..... 1996, 2001  
 \ ..... 1996, 1997, 2002, 2006  
 \ ..... 1991, 1992  
 \ ..... 1996, 1998, 2003, 2008  
 @ \ ..... 1985, 1989

@ \ .. 2693, 2694, 2695, 2696,  
 2697, 2698, 2699, 2700, 2701,  
 2702, 2703, 2704, 2705, 2706,  
 2707, 2708, 2709, 2710, 2711,  
 2712, 2713, 2714  
 @ \ ..... 1985  
 \ ..... 1991  
 \ ..... 1985, 1989  
 \ ..... 2347, 2655  
 \ ..... 2569

\ ..... 1992, 2344, 2345  
 \ ..... 1984  
 \ ..... 1987  
 \ ..... 1986, 1988



## 8 Change History

v13.1	General: Added implementation of the package. . . . .	0
v13.2	General: Replaced <code>\reflect</code> with <code>\bidi@reflect@box</code> . . . . .	122
v13.5	General: Fixed the extra space after Persian decimal separator. . . .	152
v13.6	General: Used <code>\XeTeXglyphbounds</code> to find the true height and depth of the Kashida character. . . . .	93

