

The XePersian Package

<http://bitbucket.org/vafa/xepersian>

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1 Dedication

We dedicate the XePersian package to our father, Cyrus The Great. Cyrus the Great (c. 600 BC or 576 BC – December 530 BC), also known as Cyrus II or Cyrus of Persia, was the first Zoroastrian Persian emperor. He was the founder of the Persian Empire under the Achaemenid dynasty.

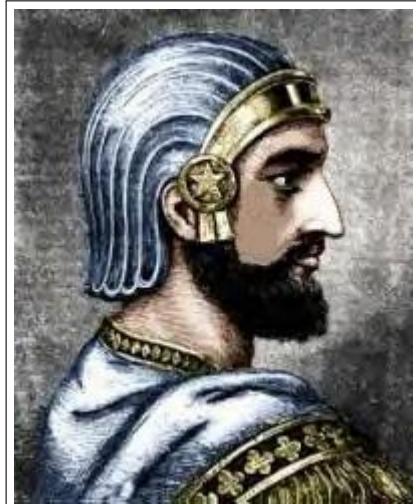


Figure 1: Portrait of Cyrus The Great

was succeeded by his son, Cambyses II, who managed to add to the empire by conquering Egypt, Nubia, and Cyrenaica during his short rule.

As a military leader, Cyrus left a legacy on the art of leadership and decision making, and he attributed his success to “Diversity in counsel, unity in command.” Cyrus the Great respected the customs and religions of the lands he conquered. It is said that in

It was under his own rule that the empire embraced all previous civilized states of the ancient Near East, expanded vastly and eventually conquered most of Southwest Asia and much of Central Asia, from Egypt and the Hellespont in the west to the Indus River in the east, to create the largest empire the world had yet seen.

The reign of Cyrus lasted 29 to 31 years. Cyrus built his empire by fighting and conquering first the Median Empire, then the Lydian Empire and the Neo-Babylonian Empire. Either before or after Babylon, he led an expedition into central Asia, which resulted in major campaigns that brought “into subjection every nation without exception.” Cyrus did not venture into Egypt, as he himself died in battle, fighting the Massagetae along the Syr Darya in December 530 BC. He

universal history, the role of the Achaemenid empire founded by Cyrus lies in its very successful model for centralized administration and establishing a government working to the advantage and profit of its subjects. In fact, the administration of the empire through satraps and the vital principle of forming a government at Pasargadae were the work of Cyrus. Aside from his own nation, Iran, Cyrus also left a lasting legacy on Jewish religion (through his Edict of Restoration), human rights, politics, and military strategy, as well as on both Eastern and Western civilizations.

Contents

1	Dedication	1	
2	Introduction	3	
2.1	Important Notes	3	
2.2	XePersian Info On The Terminal and In The Log File	4	
3	Basics	4	
3.1	Loading The Package	4	
3.2	Commands for Version number, Mercurial commit number and Date of The Package	5	
3.3	Options of The Package	6	
3.3.1	Kashida Option	6	
3.3.2	localise Option	6	
3.4	A Sample Input \TeX File	33	
3.5	Font Commands	34	
3.5.1	Basic Font Commands	34	
3.5.2	Defining Extra Persian and Latin Fonts	34	
3.5.3	Choosing Persian Sans Font	35	
3.5.4	Choosing Persian Mono Font	35	
3.5.5	Choosing Persian Iranic Font	35	
3.5.6	Choosing Persian Navar Font	35	
3.5.7	Choosing Persian Pook Font	35	
3.5.8	Choosing Persian Sayeh Font	35	
3.5.9	Choosing Latin Sans Font	35	
3.5.10	Choosing Latin Mono Font	35	
4	Latin and Persian Environment	35	
4.1	Short Latin and Persian Texts . . .	36	
	4.2	Miscellaneous Commands	36
	4.3	New Commands	36
	4.4	Additional Counters	36
	4.5	Things To Know About \backslash setdigitfont	36
5	Bilingual Captions	37	
5.1	Support For Various Packages . . .	37	
5.1.1	Things You Should Know about Support For enumerate Package . . .	37	
5.2	Index Generation	37	
5.3	Converting Your Farsi \TeX Files To XePersian or Unicode	38	
6	Extra Packages And Classes	38	
6.1	Magazine Typesetting	38	
6.1.1	Introduction	38	
6.1.2	Usage	38	
6.1.3	Front Page	39	
6.1.4	Inside	40	
6.1.5	The article environment	41	
6.1.6	The editorial environment	42	
6.1.7	The shortarticle environment	42	
6.1.8	Commands between articles	42	
6.1.9	Customization	42	
6.1.10	Front Page	43	
6.1.11	Inside The Magazine	44	
6.1.12	Class Options	45	
6.2	Typesetting Multiple-choice Questions	45	
6.2.1	Introduction	45	
6.2.2	Usage	46	
6.2.3	Loading The Package	46	
6.2.4	Creating Questions	46	

6.2.5	The question Environment	46
6.2.6	Question Numbers	46
6.2.7	The Form and the Mask	47
6.2.8	Typesetting corrections	47
6.2.9	Important Note	47
6.3	Customising The Package	48
6.3.1	The question environment	48
6.3.2	The Form and the Mask	48
6.3.3	The correction	48
7	xepersian implementation	49
7.1	algorithmic-xepersian.def	49
7.2	algorithm-xepersian.def	49
7.3	amsart-xepersian.def	49
7.4	amsbook-xepersian.def	50
7.5	article-xepersian.def	51
7.6	artikel1-xepersian.def	51
7.7	artikel2-xepersian.def	51
7.8	artikel3-xepersian.def	51
7.9	backref-xepersian.def	51
7.10	bidicode-xepersian.def	52
7.11	bidimoderncv-xepersian.def	52
7.12	boek3-xepersian.def	52
7.13	boek-xepersian.def	52
7.14	bookest-xepersian.def	52
7.15	book-xepersian.def	52
7.16	breqn-xepersian.def	53
7.17	commands-ltx.def	54
7.18	color-localise.def	73
7.19	commands-xepersian.def	73
7.20	enumerate-xepersian.def	74
7.21	environments-ltx.def	74
7.22	environments-xepersian.def	75
7.23	extarticle-xepersian.def	76
7.24	extbook-xepersian.def	76
7.25	extreport-xepersian.def	76
7.26	flowfram-xepersian.def	76
7.27	footnote-bidi-xepersian.def	77
7.28	hyperref-xepersian.def	79
7.29	kashida-xepersian.def	79
7.30	listings-xepersian.def	80
7.31	loadingorder-bidi-xepersian.def	80
7.32	localise-xepersian.def	81
7.33	memoir-xepersian.def	81
7.34	messages-localise.def	81
7.35	minitoc-xepersian.def	81
7.36	misc-localise-xepersian.def	82
7.37	multicol-xepersian.def	82
7.38	packages-localise-xepersian.def	84
7.39	parsidigits.map	84
7.40	rapport1-xepersian.def	85
7.41	rapport3-xepersian.def	85
7.42	refrep-xepersian.def	85
7.43	report-xepersian.def	85
7.44	scartcl-xepersian.def	85
7.45	scrbook-xepersian.def	86
7.46	scrreprt-xepersian.def	87
7.47	tocloft-xepersian.def	87
7.48	xepersian.sty	88
7.49	xepersian-magazine.cls	94
7.50	xepersian-mathsdigitspec.sty	112
7.51	xepersian-multiplechoice.sty	114
7.52	xepersian-persiancal.sty	116
8	Index	120
9	Change History	134

2 Introduction

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

2.1 Important Notes

- ☒ The XePersian package only works with Xe^TE_X engine.
- ☒ Before reading this documentation, you should have read the documentation of the version 1.1.6 of 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, I no longer provide this class because I am not familiar with specification of a thesis in Iran and even if I was, the specifications are different from University to University. XePersian is a general package like L^AT_EX 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.
- ☞ To get help, please explore <http://forum.parsilatex.com> and ask your question there.

2.2 XePersian Info On The Terminal and In The Log File

If you use XePersian package to write any input T_EX 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 over XeTeX)
Description: The package supports Persian
typesetting, using fonts provided in the distribution.
Copyright © 2008-2011 Vafa Khalighi
v1.1.0β1.2, <commit 80>, 2011/01/01
License: LaTeX Project Public License, version 1.3c or higher (your
choice)
Home: http://bitbucket.org/vafa/xepersian
Location on CTAN: /macros/xetex/latex/xepersian
```

3 Basics

3.1 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 3.3](#).

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:

```
\documentclass{minimal}
\usepackage{xepersian}
\usepackage{enumerate}
\settextfont{XB Niloofar}
\begin{document}
این فقط یک آزمایش است
\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 xepers
ian package. Please load package enumerate before xepersian package
                     , and then t
ry to run xelatex on your document again.

See the xepersian package documentation for explanation.
Type H <return> for immediate help.
...
1.5 \begin{document}

?
```

3.2 Commands for Version number, Mercurial commit number and Date of The Package

```
\xepersianversion \xepersiancommit \xepersiandate
```

- ❸ `\xepersianversion` gives the current version of the package.
- ❸ `\xepersiancommit` gives the current Mercurial commit number of the package.
- ❸ `\xepersiandate` gives the current date of the package.

```

\documentclass{article}
\usepackage{xepersian}
\settextfont{XB Niloofar}
\begin{document}
\begin{latin}
This is typeset by \textsf{\XePersian} package,
\xepersianversion, \xepersiancommit, \xepersiandate.
\end{latin}
\end{document}

```

3.3 Options of The Package

There are two options:

3.3.1 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. Please note that X series fonts of IRMUG (Iranian Mac Users Group) have absolutely super poor quality and if you use any of these fonts with Kashida option enabled, the result on the PDF viewed on the monitor is the ugliest of any kind, however the print may look fine. Hence if you are going to enable Kashida option , then you are advised to use either “Adobe Arabic” or “Scheherazade” fonts.

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!).

3.3.2 localise Option

The `localise` option is now active by default; it 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`

This is the font issue not XePersian's bug

New →

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{\<command-name in Persian\>}{\<original LATEX command-name\>}
\eqenvironment{\<environment-name in Persian\>}{\<original LATEX environment-name\>}
```

Table 1: The Equivalent L^AT_EX and T_EX Commands

Command in T _E X or L ^A T _E X	Equivalent Persian Command
<code>\@arstrut</code>	\شمع جدول
<code>\above</code>	\ فوق
<code>\abovedisplayshortskip</code>	\ فاصله کوتاه بالای نمایش
<code>\abovedisplayskip</code>	\ فاصله بالای نمایش
<code>\abstractname</code>	\ عنوان پکیده
<code>\accent</code>	\ اکسنت
<code>\active</code>	\ افعال
<code>\addcontentsline</code>	\ بیفزاسطر فهرست
<code>\addpenalty</code>	\ اضافه بر جریمه
<code>\address</code>	\ نشانی
<code>\addtocontents</code>	\ بیفزابه فهرست
<code>\addtocounter</code>	\ اضافه بر شمارنده
<code>\addtolength</code>	\ اضافه بر بعد
<code>\addvspace</code>	\ بیفزایضی و
<code>\adjdemerits</code>	\ تنظیم بذمایی
<code>\advance</code>	\ بیفزایر
<code>\afterassignment</code>	\ بعد از انتساب
<code>\aftergroup</code>	\ بعد از گروه
<code>\aleph</code>	\ الف
<code>\aliasfontfeature</code>	\ خصیصه مستعار قلم
<code>\aliasfontfeatureoption</code>	\ انتخاب خصیصه مستعار قلم
<code>\allowbreak</code>	\ شکستنی
<code>\alloc@</code>	\ تخصی @
<code>\allocationnumber</code>	\ تخصیص یافته
<code>\allowdisplaybreaks</code>	\ شکست نمایش محاز
<code>\Alph</code>	\ حروف بزرگ
<code>\alph</code>	\ حروف کوچک
<code>\alsoname</code>	\ نام همچنین

Continued on next page

Command in TeX or L ^A T _E X	Equivalent Persian Command
\and	\و
\angle	\زاویه
\appendixname	\عنوانپیوست
\approx	\اقریب
\arabic	\عربی
\arg	\آرگ
\arrayrulecolor	\رنگخطجدول
\arraycolsep	\فاصلهستونهایآرایه
\arrayrulewidth	\ضخامتخطجدول
\arraystretch	\اکشیدگیآرایه
\AtBeginDocument	\درآغازنوشتار
\AtEndDocument	\درپایاننوشتار
\AtEndOfClass	\دراننهایطیقه
\AtEndOfPackage	\درانتهایسبک
\author	\نویسنده
\backmatter	\مطلوبپشت
\backslash	\شکافپشت
\badness	\ابدنمایی
\bar	\امیله
\baselineskip	\فاصلهکرسی
\baselinestretch	\اکشن FF فاصلهکرسی
\batchmode	\پردازش دستهای
\begin	\شروع
\beginL	\شروعچپ
\beginR	\شروع راست
\begingroup	\شروع گروه
\belowdisplayshortskip	\فاصله کوتاه پایین نمایش
\belowdisplayskip	\فاصله پایین نمایش
\bf	\سیاه
\bfdefault	\پیشفرض سیاه
\bfseries	\اشمایل سیاه
\bgroup	\شرگروه
\bibitem	\مرجوع
\bibliography	\کتابنامه
\bibliographystyle	\اسبک کتابنامه
\bibname	\عنوان کتابنامه
\bigskip	\پرش بلند
\bigskipamount	\مقدار پرش بلند
\botfigrule	\خط پایین شناور
\botmark	\علامت پایین

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Command in TeX or L ^A T _E X	Equivalent Persian Command
\bottomskip	\کادرتایین
\bottomfraction	\نسبتپایین
\box	\کادر
\boxmaxdepth	\حداکثرعمقکادر
\break	\ بشکن
\bullet	\گلوله
\@cclv	\دوبن@پنج
\@cclvi	\دوبن@شش
\caption	\شرح
\catcode	\کرده
\cc	\رونوشت
\ccname	\نامرونوشت
\cdot	\ نقطه وسط
\cdots	\ نقاط وسط
\centering	\ تنظیم از وسط
\centerline	\ خطوط وسط
\ch@ck	\چک@ن
\chapter	\فصل
\chaptername	\عنوان فصل
\char	\نویسه
\chardef	\ تعریف نویسه
\CheckCommand	\بررسی فرمان
\cite	\ مرجع
\ClassError	\خطای طبقه
\ClassInfo	\اطلاع طبقه
\ClassWarning	\هشدار طبقه
\ClassWarningNoLine	\هشدار طبقه بی سطر
\cleaders	\ نشانگر مرکزی
\cleardoublepage	\ دو صفحه پاک
\clearpage	\ صفحه پاک
\cline	\ خطناپر
\closein	\ بندورودی
\closeout	\ بند خروجی
\closing	\ استن
\clubpenalty	\ جرمیه سربند
\clubsuit	\ اخراج
\colbotmark	\ علامت پایین ستون اول
\colfirstmark	\ علامت اول ستون اول
\color	\ رنگ
\colorbox	\ کادر رنگ

Continued on next page

Command in TeX or L ^A T _E X	Equivalent Persian Command
\coltopmark	\علامت بالای ستون اول
\columncolor	\رنگ ستون
\columnsep	\ابین ستون
\columnwidth	\پهنای ستون
\columnseprule	\خط بینی ستون
\contentsline	\اسطره فهرست
\contentsname	\عنوان فهرست مطالب
\copy	\کپی
\copyright	\حق تالیف
\count	\شمار
\count@	@شمار
\countdef	\تعريف شمار
\cr	\اسخ
\crcr	\اسخ سخ
\csname	\نام فرمان
\CurrentOption	\گزینه جاری
\dashbox	\اکادمی بینایی
\dashv	\بینایی
\@date	@تاریخ
\date	\تاریخ
\day	\روز
\dblbotfigrule	\خط پایین شناور پهن
\dblbottomfraction	\نسبت پهن پایین
\dblfigrule	\خط بالای شناور پهن
\dblfloatpagefraction	\نسبت صفحه شناور پهن
\dblfloatsep	\فاصله بین شناور پهن
\dblfntlocatecode	\کد مکان غیر همان نظر
\dbltextfloatsep	\فاصله متن و شناور پهن
\dbltopfraction	\نسبت پهن بالا
\DeclareFixedFont	\اعلان قلم ثابت
\DeclareGraphicsExtensions	\اعلان پسوندگاری
\DeclareGraphicsRule	\اعلان دستور گرافیک
\DeclareOldFontCommand	\اعلان فرمان قلم قدیمی
\DeclareOption	\اعلان گزینه
\DeclareRobustCommand	\اعلان فرمان قوی
\DeclareSymbolFont	\اعلان قلم عالم
\deadcycles	\دور بسته
\def	\تر
\definecolor	\تعريف رنگ
\deg	\درجہ

Continued on next page

Command in TeX or L ^A T _E X	Equivalent Persian Command
\delcode	\کدجاساز
\delimiter	\جداساز
\delimiterfactor	\ضریبجداساز
\depth	\اگودی
\diamondsuit	\خشت
\dim	\ابعاد
\dimen	\بعد
\dimen@	@\بعد
\dimen@i	\بعد@یک
\dimen@ii	\بعد@دو
\dimendef	\تعريفبعد
\discretionary	\تیرهگذاری
\displaybreak	\شکستنمایش
\displayindent	\تورنگینمایش
\displaystyle	\سبکنمایش
\displaywidth	\عرضنمایش
\divide	\ تقسیم
\documentclass	\طبقهنوشtar
\do	\اکن
\dospecials	\اعویضکدها
\dot	\ نقطه
\doteq	\ نقطهمساوی
\dotfill	\ پر نقطه
\dots	\ نقطاط
\doublebox	\اکادردولا
\doublerulesepcolor	\رنگفاصلهدوخطجدول
\doublerulesep	\فاصلهبیندوخط
\downarrow	\فشنپایین
\dp	\عمق
\dump	\تخلیه
\edef	\ترگ
\egroup	\پاگروه
\eject	\انتهایفاصله
\else	\گرنه
\em	\تاكید
\emergencystretch	\کششلاجرم
\emph	\موکد
\empty	\پوج@
\emptyset	\پوج
	\مجموعهپوج

Continued on next page

Command in TeX or L ^A T _E X	Equivalent Persian Command
\end	\پایان
\endL	\پایانچپ
\endR	\پایانراست
\endcsname	\پایاننامفرمان
\endfirsthead	\پایانولینسر
\endfoot	\پایانپا
\endgraf	\نهبند
\endgroup	\پایانگروه
\endhead	\پایانسر
\endinput	\پایانوروی
\endlastfoot	\پایانآخرینپا
\enlargethispage	\گسترشاینصفحه
\endline	\نهسطر
\endlinechar	\نویسهنهسطر
\enspace	\اندوری
\enskip	\انفاصله
\eqcommand	\فرمانجاشین
\eqenvironment	\محیطجاشین
\eqref	\ارجاعفر
\errhelp	\کمکخطا
\errmessage	\پیامخطا
\errorcontextlines	\سیطرمنخطا
\errorstopmode	\پردازشتوقفخطا
\escapechar	\نویسهویژه
\euro	\یورو
\evensidemargin	\حاشیهزوج
\everycr	\هرسخ
\everydisplay	\هنرمايش
\everyhbox	\هرکادرای
\everyjob	\هرکار
\everymath	\هرریاضی
\everypar	\هربند
\everyvbox	\هرکادرو
\ExecuteOptions	\اجرایگزینهها
\exhyphenpenalty	\جریمهاضافیتیرهندی
\expandafter	\ابگستریساز
\extracolsep	\فاصلهاضافیبینستونها
\@firstofone	\اولیازیک
\@firstoftwo	\اولیازدو
\f@ur	\چ@ار

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Command in TeX or L ^A T _E X	Equivalent Persian Command
\fam	\خانواده
\fancypage	\صفحه‌تجملی
\fbox	\کادر با
\fboxrule	\ضخامت‌کادر با
\fboxsep	\حاشیه‌کادر با
\fcolorbox	\کادر بارنگ
\fi	\اگر
\figurename	\عنوان‌شکل
\filbreak	\پرشکن
\fill	\بر
\firstmark	\علامت‌اول
\flat	\پهن
\floatpagefraction	\نسبت‌صفحه‌شناور
\floatingpenalty	\جريمه‌شناور
\floatsep	\فاصله‌بین‌شناور
\flushbottom	\تنظيم‌ازپایین
\fmtname	\شكل‌بندی
\fmtversion	\ردہ‌شكل‌بندی
\fnsymbol	\نشانه
\font	\قلم
\fontdimen	\بعد‌قلم
\fontencoding	\رمزینه‌قلم
\fontfamily	\فamilی‌قلم
\fontname	\نام‌قلم
\fontseries	\شمايل‌قلم
\fontshape	\شكل‌قلم
\fontsize	\اندازه‌قلم
\footheight	\بلندی‌پایین‌صفحه
\footins	\درج‌زیرنویس
\footnote	\زیرنویس
\footnotemark	\علامت‌زیرنویس
\footnoterule	\خط‌زیرنویس
\footnotesep	\فاصله‌تازه‌زیرنویس
\footnotesize	\اندازه‌زیرنویس
\footnotetext	\متن‌زیرنویس
\footskip	\فاصله‌تایپ‌صفحه
\frame	\فريم
\framebox	\کادر با خط
\frenchspacing	\فواصل‌یکنواخت‌لاتین
\frontmatter	\مطلوب‌پيش

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Command in TeX or L ^A T _E X	Equivalent Persian Command
\futurelet	\بعدکذار
\@gobble	@\خورهی صانه
\@gobbletwo	@\خورهی صانه دو
\@gobblefour	@\خورهی صانه چهار
\gtempa	@\آاقت آ
\gtempb	@\آاقت ب
\gdef	\ترع
\GenericInfo	\الگوی اطلاع
\GenericWarning	\الگوی هشدار
\GenericError	\الگوی خطأ
\global	\عام
\globaldefs	\تعاریف عام
\glossary	\لغت نامه
\glossaryentry	\فقره فرهنگ
\goodbreak	\خوش شکن
\graphpaper	\کاغذگراف
\guillemotleft	\گیومه چپ
\guillemotright	\گیومه راست
\guilsinglleft	\گیومه تکی چپ
\guilsinglright	\گیومه تکی راست
\halign	\ردیفا
\hang	\برو تو
\hangafter	\بعداز سطر
\hangindent	\تور فنگی ثابت
\hbadness	\ابد نمایی
\hbox	\اکادرا
\headheight	\بلندای سر صفحه
\headsep	\فاصله از سر صفحه
\headtoname	\سر به نام
\heartsuit	\دل
\height	\بلندا
\hfil	\پرا
\hfill	\پر پرا
\hfilneg	\رفع پرا
\hfuzz	\پرز افقی
\hideskip	\فاصله مخفی
\hidewidth	\عرض پنهان
\hline	\خط پر
\hoffset	\حاشیه ا
\holdinginserts	\حفظ درج

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Command in TeX or L ^A T _E X	Equivalent Persian Command
\hrboxsep	\افاصله‌اگرد
\hrule	\خطا
\rulefill	\پرخطا
\hsize	\طول سطر
\hskip	\افاصله‌ا
\hspace	\فضای‌ا
\hss	\هدوا
\ht	\ارتفاع
\huge	\بزرگ
\Huge	\بزرگ‌تر
\hyperlink	\ابریبوند
\hypersetup	\بارگذاری‌ابر
\hypertarget	\هدف‌ابر
\hyphenation	\تیره‌بندی
\hyphenchar	\نویسه‌تیره
\hyphenpenalty	\جریمه‌تیره‌بندی
\@ifclassloaded	\@گرکلاس‌فراخوانی‌شده
\@ifdefinable	\@گرترشدنی
\@ifnextchar	\@گرنویسه‌بعدی
\@ifpackageloaded	\@گرسبك‌فراخوانی‌شده
\@ifstar	\@گرستاره
\@ifundefined	\@گرتعريف‌نشده
\if	\اگر
\if@tempswa	\اگر@سوافت‌آ
\ifcase	\اگرانواع
\ifcat	\اگرده
\ifdefined	\اگرتعريف‌شده
\ifdim	\اگر بعد
\ifeof	\اگرته‌پرونده
\iff	\اگر
\iffalse	\اگرنا درست
\IfFileExists	\اگربرونده‌ موجود
\ifhbox	\اگرکادرا
\ifhmode	\اگرحالات‌ا
\ifinner	\اگردونی
\ifmmode	\اگرحالات‌ریاضی
\ifnum	\اگر عدد
\ifodd	\اگرفرد
\ifthenelse	\اگر آنگاه‌دیگر
\iftrue	\اگردرست

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Command in TeX or L ^A T _E X	Equivalent Persian Command
\ifvbox	\گرکادرو
\ifvmode	\گرhaltو
\ifvoid	\گرتهی
\ifx	\گرتام
\ignorespaces	\فاصله خالی راندیده بگیر
\immediate	\فوری
\include	\شامل
\includegraphics	\درج تصویر
\includeonly	\مشمولین
\indent	\تورفتگی
\index	\درنایه
\indexentry	\استعلام
\indexname	\عنوان نمایه
\indexspace	\فاصله رهنما
\input	\ورودی
\InputIfFileExists	\ورود پرونده گرموجود
\inputlineno	\شماره سطور و دی
\insert	\درج
\insertpenalties	\جریمه درج
\interfootnotelinepenalty	\جریمه بین سطرهای زیرنویس
\interdisplaylinepenalty	\جریمه بین سطرهای نمایش
\interlinepenalty	\جریمه بین سطراها
\intertext	\متن داخلی
\intertextsep	\فاصله شناور در متن
\invisible	\مخفي
\itdefault	\پيش فرض اي
\itshape	\شكلي ايناليك
\item	\فتره
\itemindent	\تورفتگي فقره
\itemsep	\فاصله فقره
\iterate	\تكرار کن
\itshape	\شكل اي
\jobname	\نام کار
\jot	\قلپ
\kern	\دوری
\kill	\الگو
\label	\برچسب
\labelenumi	\برچسب شمارش يك
\labelenumii	\برچسب شمارش دو
\labelenumiii	\برچسب شمارش سه

Continued on next page

Command in TeX or L ^A T _E X	Equivalent Persian Command
\labelenumiv	\برچسبشمارش چهار
\labelitemi	\برچسب فقره‌یک
\labelitemii	\برچسب فقره‌دو
\labelitemiii	\برچسب فقره‌سه
\labelitemiv	\برچسب فقره‌چهار
\labelsep	\فاصله‌از برچسب
\labelwidth	\پنهانی برچسب
\language	\زبان
\large	\درشت
\Large	\درشت‌تر
\LARGE	\درشت‌درشت
\lastbox	\آخرین کادر
\lastkern	\آخرین دوری
\lastpenalty	\آخرین جریمه
\lastskip	\آخرین فاصله
\LaTeX	\لاتک
\LaTeXe	\لاتک‌ای
\lccode	\اکدکوچک
\ldots	\نقاطخ
\leaders	\نشانگر
\leavevmode	\ترکو
\left	\چپ
\leftmargin	\حاشیه‌چپ
\leftmargini	\حاشیه‌چپ‌یک
\leftmarginii	\حاشیه‌چپ‌دو
\leftmarginiii	\حاشیه‌چپ‌سه
\leftmarginiv	\حاشیه‌چپ‌چهار
\leftmarginv	\حاشیه‌چپ‌پنج
\leftmarginvi	\حاشیه‌چپ‌شش
\leftmark	\علامت‌چپ
\leftpageskip	\اکادر تاچپ
\leftskip	\فاصله‌ابتدا سطر
\let	\بگذار
\line	\سطر
\linebreak	\سطرشکن
\linepenalty	\جریمه سطر
\lineskip	\فاصله سطرها
\lineskiplimit	\حد فاصله سطر
\linespread	\کشش فاصله سطر
\linethickness	\ضخامت خط

Continued on next page

Command in TeX or L ^A T _E X	Equivalent Persian Command
\linewidth	\پهنای سطر
\listfigurename	\عنوان فهرست اشکال
\listfiles	\لیست پروندها
\listoffigures	\فهرست اشکال
\listoftables	\فهرست جداول
\listparindent	\تورفتگی بندلیست
\listtablename	\عنوان فهرست جداول
\LoadClass	\بارگذاری طبقه
\LoadClassWithOptions	\بارگذاری طبقه با گزینه
\location	\مکان
\long	\بلند
\loop	\حلقه
\looseness	\گسیختگی
\lower	\انتقال پایین
\@makeother	\دیگر @ \
\@m	\زار @ \
\@M	\دار @ \ زار
\@Mi	\دار @ \ زاریک
\@Mii	\دار @ \ داردو
\@Miii	\دار @ \ دارسه
\@Miv	\دار @ \ دارچهار
\@MM	\دار @ \ زار
\m@ne	\من @ \ ا
\mag	\بزرگنمایی
\magstep	\آکام
\magstephalf	\نیم آکام
\mainmatter	\مطلوب اصلی
\makeatletter	\ات حرف
\makeatother	\ات دیگر
\makebox	\کادر بی خط
\makeglossary	\ساخت فرهنگ
\makeindex	\تهیه نمایی
\makelabel	\ساخت برچسب
\makelabels	\ساخت برچسب ها
\MakeLowercase	\ساخت حروف کوچک
\maketitle	\عنوان ساز
\MakeUppercase	\ساخت حروف بزرگ
\marginpar	\در حاشیه
\marginparpush	\فاصله دو حاشیه
\marginparsep	\فاصله تا حاشیه

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Command in TeX or L^AT_EX Equivalent Persian Command

\marginparwidth	\پهناى حاشيه
\mark	\علامت
\markboth	\علامت در دو طرف
\markright	\علامت در راست
\mathaccent	\اعراب رياضي
\mathchar	\نويسه رياضي
\mathchardef	\تعريف نويسه رياضي
\mathcode	\اکريلیك
\mathrm	\رياضي رومان
\maxdeadcycles	\حداکثر تکرار
\maxdepth	\حداکثر عمق صفحه
\maxdimen	\بعديشين
\mbox	\اکادمي
\mdseries	\شمایل نازك
\meaning	\معنا
\mediumseries	\نازك
\medmuskip	\فاصله متوسط رياضي
\medskip	\پرش متوسط
\medskipamount	\مقدار پرش متوسط
\medspace	\فضاي متوسط
\message	\پيام
\MessageBreak	\پيام شکن
\minrowclearance	\حداقل فاصله رديف
\mkern	\دورى رياضي
\month	\ماه
\moveleft	\انتقال بچپ
\moveright	\انتقال براست
\mskip	\فاصله رياضي
\m@th	\رضي
\multicolumn	\چندستوني
\multiply	\ضرب
\multispan	\چندادگام
\muskip	\ميوفاصله
\muskipdef	\تعريف ميوفاصله
\@namedef	\ترنام@ \
\@nameuse	\كاربردنام@ \
\@ne	@ يك \
\name	\نام
\natural	\طبيعي
\nearrow	\باريك \

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Command in TeX or L ^A T _E X	Equivalent Persian Command
\nearrower	\باریکتر
\NeedsTeXFormat	\شکلبندی موردنیاز
\neg	\منفی
\negmedspace	\فضای متوسط منفی
\negthickspace	\فضای ضخیم منفی
\negthinspace	\دوری کوچک منفی
\newboolean	\بولی نو
\newbox	\کادر جدید
\newcommand	\فرمان نو
\newcount	\شماره جدید
\newcounter	\شمارنده جدید
\newdimen	\بعد جدید
\newenvironment	\محیط نو
\newfam	\خانواده جدید
\newfont	\قلم نو
\newhelp	\اکمک جدید
\newif	\اگر جدید
\newinsert	\درج جدید
\newlabel	\برچسب جدید
\newlength	\معرف بعد جدید
\newline	\سطر جدید
\newlinechar	\نویسه سطر جدید
\newmuskip	\میواصله جدید
\newpage	\صفحه جدید
\newread	\بخوان جدید
\newsavebox	\معرف کادر جدید
\newskip	\فاصله جدید
\newtheorem	\قضیه جدید
\newtoks	\جز جدید
\newwrite	\بنویس جدید
\noalign	\ابن ردیف
\nobreak	\نشکن
\nobreakspace	\فاصله نشکستنی
\nocite	\ بدون سند
\noexpand	\نگستر
\nofiles	\ بدون پرونده
\noindent	\ بدون تور فنگی
\nointerlineskip	\ابن فاصله سطر
\nolimits	\ بدون حد
\nolinebreak	\ سطر نشکن

Continued on next page

Command in TeX or L ^A T _E X	Equivalent Persian Command
\nonstopmode	\پردازش بدون توقف
\nonfrenchspacing	\فواصل متعارف لاتین
\nonumber	\ بدون شماره
\nopagebreak	\صفحه نشکن
\normalbaselines	\کرسیهای متعارف
\normalbaselineskip	\افاصله کرسی متعارف
\normalcolor	\رنگ عادی
\normalfont	\قلم عادی
\normallineskip	\افاصله سطر متعارف
\normallineskiplimit	\حد افاصله سطر متعارف
\normalmarginpar	\در حاشیه عادی
\normalsize	\اندازه عادی
\notag	\ بدون اتیکت
\null	\نول
\nullfont	\قلم تهی
\number	\ عدد
\numberline	\ سطر عددی
\numberwithin	\ شماره مطابق
\@evenfoot	\ پایین صفحه زوج
\@evenhead	\ بالای صفحه زوج
\@oddfoot	\ پایین صفحه فرد
\@oddhead	\ بالای صفحه فرد
\@outeqntrue	\ شماره بیرون درست
\@outeqnfalase	\ شماره بیرون نادرست
\obeylines	\ سطربه سطر
\obeyspaces	\ فضاعال
\oddsidemargin	\ حاشیه فرد
\offinterlineskip	\ سطور بی فاصله
\omit	\ حذف
\@onlypreamble	\ تنها در پیش درآمد
\onecolumn	\ یک ستون
\onlynotes	\ تنها ادادا شت ها
\onlyslides	\ تنها اسلاید ها
\openin	\ باز کن ورودی
\openout	\ باز کن خروجی
\OptionNotUsed	\ گزینه مصرف نشده
\or	\ یا
\outer	\ بروندی
\output	\ صفحه بندی
\outputpenalty	\ جرمیه صفحه بندی

Continued on next page

Command in TeX or L ^A T _E X	Equivalent Persian Command
\overfullrule	\علامت‌سریز
\@preamblecmds	\فرمان‌های‌پیش‌درآمد
\p@	\پو@\
\PackageError	\خطای‌سبک
\PackageInfo	\اطلاع‌سبک
\PackageWarning	\هشدار‌سبک
\PackageWarningNoLine	\هشدار‌سبک‌بی‌سطر
\pagebreak	\صفحه‌شکن
\pagecolor	\رنگ‌صفحه
\pagedepth	\عمق‌صفحه
\pagefillstretch	\کشن‌پررصفحه
\pagefillstretch	\کشن‌پررصفحه
\pagefilstretch	\کشن‌پرصفحه
\pagegoal	\غایت‌صفحه
\pagename	\نام‌صفحه
\pagenumbering	\شماره‌گذاری‌صفحه
\pageref	\رجوع‌صفحه
\pagerulewidth	\ضخامت‌خط‌صفحه
\pageshrink	\افشردگی‌صفحه
\pagestretch	\کشن‌صفحه
\pagestyle	\سبک‌صفحه
\pagetotal	\جمع‌صفحه
\paperheight	\بلندای‌کاغذ
\paperwidth	\پهنای‌کاغذ
\par	\بند
\paragraph	\پاراگراف
\parallel	\موازی
\parbox	\کادیار
\parfillskip	\فاصله‌تنه‌بند
\parindent	\تورفتگی‌سریند
\parsep	\فاصله‌بندی‌لیست
\parshape	\شكل‌بند
\parskip	\فاصله‌بند
\part	\بخش
\partname	\عنوان‌بخش
\partopsep	\فاصله‌بالای‌لیست‌بند
\PassOptionToClass	\ارسال‌گزینه‌به‌کلاس
\PassOptionToPackage	\ارسال‌گزینه‌به‌پکیج
\path	\مسیر
\patterns	\الگوها\

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Command in TeX or L ^A T _E X	Equivalent Persian Command
\pausing	\مکث
\penalty	\جریمه
\phantom	\غیب
\poptabs	\الگوی قبلی
\postdisplaypenalty	\جریمه پس نمایش
\predisplaydirection	\جهت پیش نمایش
\predisplaypenalty	\جریمه پیش نمایش
\predisplaysize	\اندازه پیش نمایش
\pretolerance	\پیش حد بدنمایی
\prevdepth	\عمق قبلی
\prevgraf	\بند قبلی
\printindex	\نمایه در اینجا
\ProcessOptions	\پردازش گزینه ها
\protect	\تامین
\providecommand	\تهیه فرمان
\ProvidesClass	\آماده سازی طبقه
\ProvidesFile	\آماده سازی پرونده
\ProvidesPackage	\آماده سازی سبک
\pushtabs	\ثبت الگو
\quad	\کواد
\quad	\کوکواد
\@outputpagerestore	\@ باز آبی خروج صفحه
\radical	\رادیکال
\raggedbottom	\پایین بی تنظیم
\raggedleft	\تنظیم از راست
\raggedright	\تنظیم از چپ
\raise	\انتقال بی بلا
\raisebox	\بالابر
\raisetag	\ترفع اتیکت
\rangle	\زاویه ر
\rceil	\سقف ر
\read	\بخوان
\ref	\رجوع
\reflectbox	\کادر قرینه
\refname	\عنوان مراجع
\refstepcounter	\اگام شمارنده مرجع
\relax	\راحت
\removelastskip	\رفع آخرین فاصله
\renewcommand	\فرمان ازن تو
\renewenvironment	\محیط ازن تو

Continued on next page

Command in TeX or L ^A T _E X	Equivalent Persian Command
\repeat	\ازنو
\RequirePackage	\سیکموردنیاز
\RequirePackageWithOptions	\سیکموردنیازباگزینه
\resizebox	\اکادرکشیده
\reversemarginpar	\ادرحاشیهمعکوس
\rfloor	\اکفر
\right	\راست
\rightmargin	\حاشیهراست
\rightmark	\علامتراست
\rightpageskip	\اکادرتاراست
\rightskip	\فاصلهانتهایسطر
\rmdefault	\رومیعادی
\rmfamily	\فامیلرمن
\Roman	\رومینیزگ
\roman	\رومکوچک
\romannumeral	\عددرومی
\rotatebox	\اکادرچرخان
\rowcolor	\رنگردیف
\rule	\خط
\@secondoftwo	\دویی@
\@spaces	\فضها@
\samepage	\همینصفحه
\savebox	\مقدارکادر
\sbox	\مقکادر
\scalebox	\اکادراندازه
\scdefault	\پیشفرض تمامبزرگ
\scshape	\شكل تمامبزرگ
\scriptfont	\قلمتوان
\scriptscriptfont	\قلمتوانتوان
\scriptscriptstyle	\سیکتنهنوشتتهنوشت
\scriptsize	\اندازهپنیس
\scriptstyle	\سیکتنهنوشت
\scrollmode	\اپرداشگذری
\section	\قسمت
\secdef	\تعريفقسمت
\see	\ابینید
\seealso	\انیزبینید
\seename	\نامبینید
\selectfont	\قلمبردار
\setboolean	\تنظیمپولی

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Command in TeX or L^AT_EX Equivalent Persian Command

\setbox	\درکادر
\setcounter	\مقدارشمارنده
\setlength	\مقداربعد
\setminus	\تنظیمنها
\SetSymbolFont	\تعريفقلم علائم
\settodepth	\تنظیم به عمق
\settoheight	\تنظیم به ارتفاع
\settowidth	\مقدار بعدیه اندازه
\sfcode	\کد ضرب فاصله
\sfdefault	\یش فرض سف
\sffamily	\فamilی سن سریف
\shadowbox	\کادر سایه دار
\sharp	\تیز
\shipout	\بفرست
\shortstack	\پشتہ کوتاه
\show	\نمایش بده
\showbox	\نمایش بده کادر
\showboxbreadth	\میزان نمایش کادر
\showboxdepth	\عمق نمایش کادر
\showlists	\نمایش بده لیستها
\showthe	\نمایش بده محتوای
\simplefontmode	\حالت ساده قلم
\sixt@@n	\شانزد @\
\skewchar	\نویسه اریب
\skip	\افاصله
\skip@	\افاصل @
\skipdef	\تعريف فاصله
\sl	\خوابیده
\sldefault	\یش فرض خو
\slshape	\شكل خوابیده
\sloppy	\راحت چین
\slshape	\شمایل خو
\small	\کوچک
\smallskip	\پرش کوتاه
\smallskipamount	\مقدار پرش کوتاه
\smash	\کوب
\smile	\البند
\snglfntlocatecode	\اکد مکان همان نظر
\space	\فضا
\spacefactor	\ضریب فاصله

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Command in TeX or L ^A T _E X	Equivalent Persian Command
\spaceskip	\فاصله‌کلمات
\spadesuit	\پیک
\span	\ادغام
\special	\ویژه
\splitmaxdepth	\حداکثر عمق ستون
\splittopskip	\فاصله بالای ستون
\star	\ستاره
\stepcounter	\گام‌شمارنده
\stretch	\کشی
\string	\رشته
\strut	\شمع
\strutbox	\کادر شمع
\subitem	\زیربند
\subparagraph	\زیرپاراگراف
\subsection	\زیرقسمت
\substack	\زیرپشته
\subsubitem	\زیرزیربند
\subsubsection	\زیرزیرقسمت
\subset	\زیرمجموعه
\subsepeq	\زیرمجموعه مس
\supereject	\منتهاي صفحه
\suppressfloats	\حذف مكان‌شناور
\@tempa	\موقعت آ@
\@tempb	\موقعت ب@
\@tempc	\موقعت پ@
\@tempd	\موقعت ت@
\@tempe	\موقعت ث@
\@tempboxa	\کادر قات آ@
\@tempcnta	\شماقت آ@
\@tempcntb	\شماقت ب@
\@tempdim a	\بعدقت آ@
\@tempdim b	\بعدقت ب@
\@tempdim c	\بعدقت پ@
\@tempskipa	\فاقت آ@
\@tempskipb	\فاقت ب@
\@tempswafalse	\سواقت آنادرست @
\@tempswatrue	\سواقت آدرست @
\@temptokena	\جزقت آ@
\@thefnmark	\انگزیرنویس
\@thirdofthree	\سومی از سه @

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Command in TeX or L ^A T _E X	Equivalent Persian Command
\tabbingsep	\فاصله_جاكاري
\tabcolsep	\فاصله_بين_ستونها
\tableofcontents	\فهرست_مطالب
\tablename	\عنوان_جدول
\tabskip	\فاصله_ستونها
\tabularnewline	\ا_س_ط_ر_ج_د_و_ل
\tag	\ا_ت_ي_ك_ت
\telephone	\ا_ت_ل_ف_ن
\TeX	\ا_ت_ك
\text	\ا_م_ت_ن
\textbullet	\ا_گ_ل_و_ل_ه_م_ت_ن_ي
\textfont	\ا_ق_ل_م_م_ت_ن
\textemdash	\ا_م_د_ش_م_ت_ن_ي
\textendash	\ا_ن_د_ش_م_ت_ن_ي
\textexclamdown	\ا_تع_ج_ب_وا_ر_و_ن_ه_م_ت_ن_ي
\textperiodcentered	\ا_ن_ق_ط_ه_و_س_ط_م_ت_ن_ي
\textquestiondown	\ا_س_و_ال_وا_ر_و_ن_ه_م_ت_ن_ي
\textquotedblleft	\ا_ن_ق_ل_چ_پ_م_ت_ن_ي_دو_ل_ا
\textquotedblright	\ا_ن_ق_ل_ر_ا_س_ت_م_ت_ن_ي_دو_ل_ا
\textquotingleft	\ا_ن_ق_ل_م_ت_ن_ي_چ_پ
\textquoteright	\ا_ن_ق_ل_م_ت_ن_ي_را_س_ت
\textvisiblespace	\ا_ف_ض_ا_ي_ن_م_ا_ي_ا_ن_م_ت_ن_ي
\textbackslash	\ا_ش_ك_ا_ف_ت_پ_ش_ت_م_ت_ن_ي
\textbar	\ا_م_ي_ل_ه_م_ت_ن_ي
\textgreater	\ا_ب_ر_ز_گ_ت_ر_م_ت_ن_ي
\textless	\ا_ك_م_ت_ر_م_ت_ن_ي
\textbf	\ا_م_ت_ن_س_ي_اه
\textcircled	\ا_م_د_و_ر_م_ت_ن_ي
\textcolor	\ا_ر_ن_گ_م_ت_ن_ي
\textcompwordmark	\ا_ن_ش_ا_n_ك_ل_م_ه_م_ر_ك_ب_م_ت_ن_ي
\textfloatsep	\ا_ف_ا_س_ل_ه_م_ت_ن_و_ش_ن_ا_ور
\textfraction	\ا_ن_س_ب_ت_م_ت_ن_ي
\textheight	\ا_ب_ل_ن_د_ا_ي_م_ت_ن_ي
\textindent	\ا_م_ت_ن_ت_و_ر_ف_ت_ه
\textit	\ا_م_ت_ن_ا_ي_ت_ا_ل_ي_ك
\textmd	\ا_م_ت_ن_ن_از_ك
\textnormal	\ا_م_ت_ن_ن_ر_م_ا_ل
\textregistered	\ا_ث_ب_ت_ي_م_ت_ن_ي
\textrm	\ا_م_ت_ن_ر_و_م_ن
\textsc	\ا_م_ت_ن_ت_ام_ب_ر_ز_گ

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Command in TeX or L^AT_EX Equivalent Persian Command

\textsf	\متن‌سن‌سُرِيف
\textsl	\متن‌خواپیده
\textstyle	\سُبک‌متن
\textsuperscript	\بالا‌نویس‌متن
\texttrademark	\علامت‌تجاری‌متن
\texttt	\متن‌تایپ
\textup	\متن‌ایستاده
\textwidth	\پهنه‌ای‌متن
\thanks	\زیرنویس‌عنوان
\the	\محتوای
\thempfn	\این‌زیرنویس
\thicklines	\خط‌های‌اضخم
\thickmuskip	\فاصله‌زیاد‌ریاضی
\thinmuskip	\فاصله‌کم‌ریاضی
\thickspace	\فضا‌اضخم
\thinlines	\خط‌های‌نازک
\thinspace	\دوری‌کوچک
\thisfancypage	\این‌صفحه‌تجملی
\thispagestyle	\سُبک‌این‌صفحه
\thr@@	@\سده
\tilde	\مد
\tiny	\ظریف
\time	\زمان
\times	\ضرب‌در
\title	\عنوان
\to	\به
\today	\امروز
\toks	\جز
\toksdef	\تعريف‌جز
\tolerance	\حد‌دُنیا‌ی
\top	\بالا
\topfigrule	\خط‌بالای‌شناور
\topfraction	\نسبت‌بالا
\topmargin	\حاشیه‌بالا
\topmark	\علامت‌بالا
\topskip	\کادر‌تابلا
\topsep	\فاصله‌بالای‌لیست
\skip	\فاصله‌بالا
\totalheight	\بلندی‌کل
\tracingall	\ردگیری‌کل

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Command in TeX or L ^A T _E X	Equivalent Persian Command
\tracingcommands	\رددگیری فرامین
\tracinglostchars	\رددگیری حروف
\tracingmacros	\رددگیری ماکروها
\tracingonline	\رددگیری نمایشی
\tracingoutput	\رددگیری صفحه‌بندی
\tracingpages	\رددگیری صفحات
\tracingparagraphs	\رددگیری بندها
\tracingrestores	\رددگیری بازگردانی
\tracingstats	\رددگیری آمارها
\triangle	\مثلث
\ttdefault	\پیش‌فرض تایپ
\ttfamily	\فamilی تایپ
\tw@	@\دو
\twocolumn	\دوستون
\typein	\درنویس
\typeout	\برنویس
\uccode	\کدبزرگ
\uchyph	\تیره‌بندی بزرگ
\undefined	\تعريف‌نشده
\underline	\زیرخط
\unhbox	\ابی کادر
\unhcopy	\ابی کپی
\unitlength	\ واحد طول
\unkern	\برگشت دوری
\unpenalty	\برگشت حریمه
\unskip	\برگشت فاصله
\unvbox	\ابی کادرو
\unvcopy	\ابی کپی و
\updefault	\پیش‌فرض ایستاده
\upshape	\شكل ایستاده
\usebox	\از کادر
\usecounter	\باشمارشگر
\usefont	\گزینش قلم
\usepackage	\سبک لازم
\vobeyspaces	\فضاهای فعال @\
\void	\نهی @\
\vadjust	\تنظیم و
\valign	\ردیف و
\value	\محتوای شمارنده
\vbadness	\بدنامایی و

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Command in TeX or L ^A T _E X	Equivalent Persian Command
\vbox	\کادر و
\vcenter	\کادر و سط
\verb	\همانطور
\vfil	\پر و
\vfill	\پر و
\vfilneg	\رفع پر و
\vfuzz	\پر ز عمودی
\visible	\نمایان
\vline	\خط عمود
\voffset	\حاشیه و
\voidb@x	\ا ک در تهی
\vpageref	\ارجاع صفحه ع
\vrboxsep	\افاصله و گرد
\vref	\ارجاع ع
\vrule	\خط و
\vsize	\اطول صفحه
\vskip	\افاصله و
\vspace	\فضای و
\vsplit	\شکست و
\vss	\هر دو و
\vtop	\کادر گرد
\wd	\عرض
\whiledo	\اما دام بکن
\widehat	\کلا د پهن
\widetilde	\مد پهن
\widowpenalty	\جریمه ته بند
\width	\ا پهنا
\wlog	\در کار نامه
\write	\بنویس
\@xobeysp	\فصاری لاتین
\@xxxii	\ا سی @ دو
\xdef	\ترگع
\xleaders	\نشانگر گستر شی
\xspaceskip	\افاصله اضافی کلمات
\year	\سال
\z@	\فر
\z@skip	\ف ر فاصله

Table 2: The Equivalent XePersian Commands

Command in XePersian	Equivalent Persian Command
\autofootnoterule	\ خط زیرنویس خودکار

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Command in XePersian	Equivalent Persian Command
\AutoMathsDigits	\اعدادفرمولهای خودکار
\DefaultMathsDigits	\اعدادفرمولهای لاتین
\deflatinfont	\تعريف قلم لاتین
\defpersianfont	\تعريف قلم پارسی
\hboxL	\اکادر اچپ
\hboxR	\اکادر است
\Latincite	\مرجح لاتین
\latinfont	\قلم لاتین
\latintoday	\امروز لاتین
\leftfootnoterule	\خط زیرنویس چپ
\lr	\امتن لاتین
\LRE	\چپ براست
\LTRdblcol	\دوستونی چپ
\LTRfootnote	\پانویس
\LTRfootnotetext	\امتن پانویس
\LTRthanks	\پانویس عنوان
\persianfont	\قلم پارسی
\PersianMathsDigits	\اعدادفرمولهای پارسی
\plq	\علامت چپ نقل قول پارسی
\prq	\علامت راست نقل قول پارسی
\rightfootnoterule	\خط زیرنویس راست
\rl	\امتن پارسی
\RLE	\راست بچپ
\RTLdblcol	\دوستونی راست
\RTLfootnote	\پانوشت
\RTLfootnotetext	\امتن پانوشت
\RTLthanks	\پانوشت عنوان
\@SepMark	\علامت بین @
\SepMark	\علامت بین
\setdefaultbibitems	\بگذار مجموعات عادی
\setdefaultmarginpar	\بگذار در حاشیه عادی
\setdigitfont	\گزینش قلم اعداد فرمولها
\setfootnoteLR	\بگذار زیرنویس چپ
\setfootnoteRL	\بگذار زیرنویس راست
\setlatintextfont	\گزینش قلم لاتین من
\setLTR	\بگذار امتن چپ
\setLTRbibitems	\بگذار مجموعات چپ
\setLTRmarginpar	\بگذار در حاشیه چپ
\setRTL	\بگذار امتن راست
\setRTLbibitems	\بگذار مجموعات راست

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Command in XePersian	Equivalent Persian Command
\setRTLmarginpar	ابگذار در حاشیه راست
\settextfont	اگرینش قلم متن
\textwidthfootnoterule	خط زیرنویس پهنانی متن
\twocolumnstableofcontents	فهرست مطالب دوستونی
\unsetfootnoteRL	انگذار زیرنویس راست
\unsetLTR	انگذار متن چپ
\unsetRTL	انگذار متن راست
\vboxL	اکادر واژچه
\vboxR	اکادر واژراست
\XeLaTeX	ازی لاتک
\XePersian	ازی پرشین
\xepersianversion	اگونه زی پرشین
\xepersiandate	تاریخ گونه زی پرشین
\xepersiancommit	اممیزی گونه زی پرشین
\XeTeX	ازی تک

Table 3: The Equivalent L^AT_EX Environments

Environment in L ^A T _E X	Equivalent Persian Environment
abstract	چکیده
appendix	پیوست
array	آرایه
center	وسط چن
description	توضیح
displaymath	ریاضی نمایشی
document	نوشتار
enumerate	شمارش
figure	شکل
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

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Environment in L ^A T _E X	Equivalent Persian Environment
multicols	چندستونی‌ها
multiline	چندخطی
note	یادداشت
overlay	انباشتن
picture	تصویر
quotation	اقتباس
quote	نقل
slide	اسلاید
sloppypar	پارنامرتب
split	شکافتن
subarray	زیرآرایه
tabbing	جاگذاری
table	لوح
table*	لوح*
tabular	جدول
tabular*	جدول*
thebibliography	مراجع
theindex	محتوای‌نمایه
titlepage	صفحه‌عنوان
trivlist	لیست‌بدوی
verbatim	همانظورکه‌هست
verbatim*	همانظورکه‌هست*
verse	شعر

Table 4: The Equivalent XePersian Environments

Environment in XePersian	Equivalent Persian Environment
latin	لاتین
LTR	متن‌چپ
LTRitems	دسته‌بندی‌چپ
persian	پارسی
RTL	متن‌راست
RTLitems	دسته‌بندی‌راست

3.4 A Sample Input T_EX File

```
\documentclass{article}
\usepackage{xepersian}
\settextfont{XB Niloofer}
\title{یک سند نموده}
\author{نام نویسنده}
\begin{document}
\maketitle
\tableofcontents
```

```
\part{عنوان بخش}
...
\section{عنوان قسمت}
...
\subsection{عنوان زیرقسمت}
...
\subsubsection{عنوان زیر زیرقسمت}
...
\end{document}
```

3.5 Font Commands

3.5.1 Basic Font Commands

```
\settextfont [Options] {\langle font name \rangle}
\setlatintextfont [Options] {\langle font name \rangle}
\setdigitfont [Options] {\langle font name \rangle}
```

- ☞ 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. This command is compulsory and if you do not use it at least once, you will get error saying that you should choose a Persian font by using this command.
- ☞ `\setlatintextfont` will choose the font for Latin texts of your document. If you do not use this command at all, the default `TEX` 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 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 `TEX` font for digits in math mode and digits appear in their original form (Western).

3.5.2 Defining Extra Persian and Latin Fonts

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

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

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

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

3.5.3 Choosing Persian Sans Font

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

3.5.4 Choosing Persian Mono Font

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

3.5.5 Choosing Persian Iranic Font

```
\setiranicfont [Options] {\<font name>}  
\iranicfamily \textiranic{\<text>}
```

3.5.6 Choosing Persian Navar Font

```
\setnavarfont [Options] {\<font name>}  
\navarfamilly \textnavar{\<text>}
```

3.5.7 Choosing Persian Pook Font

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

3.5.8 Choosing Persian Sayeh Font

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

3.5.9 Choosing Latin Sans Font

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

3.5.10 Choosing Latin Mono Font

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

4 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.

Warning: The commands `\Latin` and `\Persian` do not exist as of version 1.1.0β1.2

4.1 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.

4.2 Miscellaneous Commands

```
\today \latintoday \twocolumnstableofcontents \XePersian  
\plq \prq
```

 `\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.

4.3 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.

4.4 Additional Counters

XePersian defines several additional counters to what already `LATEX` offers. These counters are `harfi`, `adadi`, and `tartibi`.

4.5 Things To Know About `\setdigitfont`

```
\DefaultMathsDigits \PersianMathsDigits \AutoMathsDigits
```

 As we discussed before, `\setdigitfont` will choose the Persian font 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 \TeX font for digits in math mode and digits appear in their original form (Western).

If you use `\setdigitfont`, 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 \TeX '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 \TeX 's default font and digits in math mode.

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 `!`, `،`, or `ـ` produces the value of the counter printed with (respectively) `\harfi`, `\adadi`, or `\tartibi`.

These letters may be surrounded by any strings involving any other \TeX expressions, however the tokens `A`, `a`, `I`, `i`, `1`, `!`, `،`, `ـ` 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 FarsiTeX Files To XePersian or Unicode

There is a python program written by Mostafa Vahedi that enables you to convert FarsiTeX files to XePersian or unicode. This program can be found in doc folder with the name `ftxe-0.11.py`. To convert your FarsiTeX files to XePersian, put `ftxe-0.11.py` in the same directory that your FarsiTeX file is, and then open a terminal/command prompt and do the following:

```
python ftxe-0.11.py file.ftx file.tex
```

This will convert your `file.ftx` (FarsiTeX file) to `file.tex` (XePersian file).

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

```
python ftxe-0.11.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 create¹ a magazine just load the class as usual², with

¹For a sample file, please look at `magazine-sample.tex` in the doc folder

²You 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 3](#) of the documentation.

```
\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 caption; `\langle image \rangle` defines the relative path to the image. In order to include the first piece of article use

```
\firstarticle{\langle title \rangle}{\langle opening \rangle}{\langle time \rangle}
```

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{\langle title \rangle}{\langle subtitle \rangle}{\langle opening \rangle}{\langle pagesof \rangle}{\langle time \rangle}
```

The new arguments `\langle subtitle \rangle` and `\langle pagesof \rangle` 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{\langle title \rangle}{\langle subtitle \rangle}{\langle opening \rangle}{\langle pagesof \rangle}{\langle time \rangle}
```

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 [subsubsection 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 `<title>` 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{<image>}{<day-name>}{<max>}{<min>}{<short-des>}
```

The first argument includes the path to the weather icon (i.e. sunny or rainy), `<day-name>` like Monday, `<max>` and `<min>` are the highest and lowest day temperatures and `<short-des>` 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 [subsubsection 6.1.5](#), the `editorial` environment [subsubsection 6.1.6](#) for opinion articles and the `shortarticle` environment explained in [subsubsection 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}{<num-of-columns>}{<title>}{<subtitle>} {<pagesof>}{<label>}<br/>...<text>...<br/>\end{article}
```

The first argument `<num-of-columns>` sets the number of columns the article will be divided whereas `<label>` 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 `multicol` package does not provide any float support for its `multcols` 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>}
```

```
\columntitle \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

```
\columntitle{<type>}{<text>}<br/>\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}{<num-of-columns>}{<title>}{<author>}{<label>}\  
...<text>...\  
\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. Althought it has its own title and subtitle, each piece of article within it may have a title. To use it just type:

```
\begin{shortarticle}{<num-of-columns>}{<title>}{<subtitle>}{<label>}\  
...<text>...\  
\shortarticleitem{<title>}{<text>}\  
...  
\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{<section name>}
```

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 L^AT_EX 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 L^AT_EX 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{\langle left\rangle}{\langle center\rangle}{\langle right\rangle}  
\foot{\langle left\rangle}{\langle center\rangle}{\langle right\rangle}
```

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 lay out.

6.2 Typesetting Multiple-choice Questions

6.2.1 Introduction

`xepersian-multiplechoice` is a package for making multiple choices questionnaires under `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:

```
\begin{question}{سؤال}
\false ١ جواب
\true ٢ جواب
\false ٣ جواب
\false ٤ جواب
\end{question}
\begin{correction}
جواب واقعی و علت اینکه این جواب، جواب واقعی هست
\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 L^AT_EX 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 \thequestion}`

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 `LATEX` 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 me 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 \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

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

7.3 amsart-xepersian.def

```
1 \ProvidesFile{amsart-xepersian.def}[2010/07/25 v0.2 adaptations for amsart class]
2 \renewcommand \thepart {\@tartibi\c@part}
3 \def\appendix{\par\c@section\z@\c@subsection\z@
4   \let\sectionname\appendixname
5   \def\thesection{\@harfi\c@section}}
6 \long\def\@footnotetext#1{%
7   \begingroup
8   \setbox\footins
9   \vbox{\if@RTL@footnote@\RTLtrue\else@\RTLfalse\fi\reset@font\footnotesize
10   \interlinepenalty\interfootnotelinepenalty
11   \splittopskip\footnotesep
12   \splitmaxdepth \dp\strutbox \floatingpenalty \OMM
13   \hsize\columnwidth \parboxrestore \parindent\normalparindent \sloppy
14   \bidi@footnotetext@dir{#1}%
15   \protected@edef\@currentlabel{\csname p@footnote\endcsname\@thefnmark}\@makefntext
16   {\rule{\z@}{\footnotesep}\ignorespaces\if@RTL@footnote#1\else\latinfont#1\fi\unskip\strut\par
17   \bidi@footnotetext@after
18   \insert\footins{\unvbox\footins}%
19   \endgroup}
20 \long\def\@RTLfootnotetext#1{%
21   \begingroup
22   \setbox\footins
23   \vbox{\@RTLtrue\reset@font\footnotesize
24   \interlinepenalty\interfootnotelinepenalty
25   \splittopskip\footnotesep
26   \splitmaxdepth \dp\strutbox \floatingpenalty \OMM
27   \hsize\columnwidth \parboxrestore \parindent\normalparindent \sloppy
28   \bidi@footnotetext@dir{#1}%
29   \protected@edef\@currentlabel{\csname p@footnote\endcsname\@thefnmark}\@makefntext
30   {\rule{\z@}{\footnotesep}\ignorespaces\persianfont #1\unskip\strut\par}%
31   \bidi@footnotetext@after
32   \insert\footins{\unvbox\footins}%
33   \endgroup}
34 \long\def\@LTRfootnotetext#1{%
```

```

35 \begingroup
36 \setbox\footins
37 \vbox{\@RTLfalse\reset@font\footnotesize
38 \interlinepenalty\interfootnotelinepenalty
39 \splittopskip\footnotesep
40 \splitmaxdepth \dp\strutbox \floatingpenalty \OMM
41 \hsize\columnwidth \parboxrestore \parindent\normalparindent \sloppy
42 \bidi@footnotetext@dir{#1}%
43 \protected@edef\@currentlabel{\csname p@footnote\endcsname\thefnmark}\makefntext
44 {\rule{\z@\footnotesep}\ignorespaces\latinfont #1\unskip\strut\par}%
45 \bidi@footnotetext@after
46 \insert\footins{\unvbox\footins}%
47 \endgroup}

```

7.4 amsbook-xepersian.def

```

1 \ProvidesFile{amsbook-xepersian.def}[2010/07/25 v0.3 adaptations for amsbook class]
2 \def\frontmatter{\cleardoublepage\pagenumbering{harfi}}
3 \renewcommand \thechapter {\tartibi\cpart}
4 \def\appendix{\par
5   \cchapter\z@ \csection\z@
6   \let\chaptername\appendixname
7   \def\thechapter{\charfi\cchapter}}
8 \long\def\footnotetext#1{%
9   \begingroup
10  \setbox\footins
11  \vbox{\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi\reset@font\footnotesize
12  \interlinepenalty\interfootnotelinepenalty
13  \splittopskip\footnotesep
14  \splitmaxdepth \dp\strutbox \floatingpenalty \OMM
15  \hsize\columnwidth \parboxrestore \parindent\normalparindent \sloppy
16  \bidi@footnotetext@dir{#1}%
17  \protected@edef\@currentlabel{\csname p@footnote\endcsname\thefnmark}\makefntext
18  {\rule{\z@\footnotesep}\ignorespaces\if@RTL@footnote#1\else\latinfont#1\fi\unskip\strut\par}%
19  \bidi@footnotetext@after
20  \insert\footins{\unvbox\footins}%
21  \endgroup}
22 \long\def\RTLfootnotetext#1{%
23   \begingroup
24   \setbox\footins
25   \vbox{\@RTLtrue\reset@font\footnotesize
26   \interlinepenalty\interfootnotelinepenalty
27   \splittopskip\footnotesep
28   \splitmaxdepth \dp\strutbox \floatingpenalty \OMM
29   \hsize\columnwidth \parboxrestore \parindent\normalparindent \sloppy
30   \bidi@footnotetext@dir{#1}%
31   \protected@edef\@currentlabel{\csname p@footnote\endcsname\thefnmark}\makefntext
32   {\rule{\z@\footnotesep}\ignorespaces\persianfont #1\unskip\strut\par}%
33   \bidi@footnotetext@after
34   \insert\footins{\unvbox\footins}%

```

```

35      \endgroup}
36 \long\def\@LTRfootnotetext#1{%
37     \begingroup
38     \setbox\footins
39     \vbox{\@RTLfalse\reset@font\footnotesize
40     \interlinepenalty\interfootnotelinepenalty
41     \splittopskip\footnotesp
42     \splitmaxdepth \dp\strutbox \floatingpenalty \OMM
43     \hsize\columnwidth \parboxrestore \parindent\normalparindent \sloppy
44     \bidi@footnotetext@dir{#1}%
45     \protected@edef\@currentlabel{\csname p@footnote\endcsname\@thefnmark}\@makefntext
46     {\rule{\z@}{\footnotesp}\ignorespaces\latinfont #1\unskip\strut\par}}%
47     \bidi@footnotetext@after
48     \insert\footins{\unvbox\footins}%
49     \endgroup}

```

7.5 article-xepersian.def

```

1 \ProvidesFile{article-xepersian.def}[2010/07/25 v0.2 adaptations for standard article class]
2 \renewcommand \thepart {\@tartibi\c@part}
3 \renewcommand\appendix{\par
4   \setcounter{section}{0}%
5   \setcounter{subsection}{0}%
6   \gdef\thesection{\@harfi\c@section}}

```

7.6 artikel1-xepersian.def

```

1 \ProvidesFile{artikel1-xepersian.def}[2010/07/25 v0.1 adaptations for artikel1 class]
2 \renewcommand*\thepart{\@tartibi\c@part}
3 \renewcommand*\appendix{\par
4   \setcounter{section}{0}%
5   \setcounter{subsection}{0}%
6   \gdef\thesection{\@harfi\c@section}}

```

7.7 artikel2-xepersian.def

```

1 \ProvidesFile{artikel2-xepersian.def}[2010/07/25 v0.1 adaptations for artikel2 class]
2 \renewcommand*\thepart{\@tartibi\c@part}
3 \renewcommand*\appendix{\par
4   \setcounter{section}{0}%
5   \setcounter{subsection}{0}%
6   \gdef\thesection{\@harfi\c@section}}

```

7.8 artikel3-xepersian.def

```

1 \ProvidesFile{artikel3-xepersian.def}[2010/07/25 v0.1 adaptations for artikel3 class]
2 \renewcommand*\thepart{\@tartibi\c@part}
3 \renewcommand*\appendix{\par
4   \setcounter{section}{0}%
5   \setcounter{subsection}{0}%
6   \gdef\thesection{\@harfi\c@section}}

```

7.9 backref-xepersian.def

```
1 \ProvidesFile{backref-xepersian.def}[2010/07/25 v0.1 adaptations for backref package]
2 \def\backrefpagesname{\if@RTL else\ pages\fi}
```

7.10 **bidicode-xepersian.def**

```
1 \ProvidesFile{bidicode-xepersian.def}[2010/07/25 v0.0 Persian captions for bidicode package]
```

7.11 **bidimoderncv-xepersian.def**

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

7.12 **boek3-xepersian.def**

```
1 \ProvidesFile{boek3-xepersian.def}[2010/07/25 v0.1 adaptations for boek3 class]
2 \renewcommand*\thepart{\@tartibi\c@part}
3 \renewcommand*\frontmatter{%
4   \cleardoublepage
5   \mainmatterfalse
6   \pagenumbering{harfi}}
7 \renewcommand*\appendix{\par
8   \setcounter{chapter}{0}%
9   \setcounter{section}{0}%
10  \gdef\chapapp{\appendixname}%
11  \gdef\thechapter{\@harfi\c@chapter}}
```

7.13 **boek-xepersian.def**

```
1 \ProvidesFile{boek-xepersian.def}[2010/07/25 v0.1 adaptations for boek class]
2 \renewcommand*\thepart{\@tartibi\c@part}
3 \renewcommand*\frontmatter{%
4   \cleardoublepage
5   \mainmatterfalse
6   \pagenumbering{harfi}}
7 \renewcommand*\appendix{\par
8   \setcounter{chapter}{0}%
9   \setcounter{section}{0}%
10  \gdef\chapapp{\appendixname}%
11  \gdef\thechapter{\@harfi\c@chapter}}
```

7.14 **bookest-xepersian.def**

```
1 \ProvidesFile{bookest-xepersian.def}[2010/07/25 v0.1 adaptations for bookest class]
2 \renewcommand \thepart {\@tartibi\c@part}
3 \renewcommand\appendix{\par
4   \setcounter{chapter}{0}%
5   \setcounter{section}{0}%
6   \gdef\chapapp{\appendixname}%
7   \gdef\thechapter{\@harfi\c@chapter}
8 }%end appendix
```

7.15 **book-xepersian.def**

```
1 \ProvidesFile{book-xepersian.def}[2010/07/25 v0.2 adaptations for standard book class]
```

```

2 \renewcommand\frontmatter{%
3   \cleardoublepage
4   \@mainmatterfalse
5   \pagenumbering{harfi}}
6 \renewcommand \thepart {\@tartibi\c@part}
7 \renewcommand\appendix{\par
8   \setcounter{chapter}{0}%
9   \setcounter{section}{0}%
10  \gdef\chapapp{\appendixname}%
11  \gdef\thechapter{\@harfi\c@chapter}
12 }%end appendix

```

7.16 breqn-xepersian.def

```

1 \ProvidesFile{breqn-xepersian.def}[2010/07/25 v0.1 adaptations for breqn package]
2 \def\@dmath[#1]{\if@RTL\@RTLfalse\addfontfeatures{Mapping=farsidigits}\fi%
3   \everydisplay\expandafter{\the\everydisplay \display@setup}%
4   \if@noskipsec \leavevmode \fi
5   \if@inlabel \leavevmode \global\@inlabelfalse \fi
6   \if\eq@group\else\eq@prelim\fi
7   \setkeys{breqn}{#1}%
8   \the\eqstyle
9   \eq@setnumber
10  \begingroup
11  \eq@setup@a
12  \eq@startup
13 }
14 \def\@dgroup[#1]{\if@RTL\@RTLfalse\addfontfeatures{Mapping=farsidigits}\fi%
15  \let\eq@group@\True \global\let\eq@GRP@first@dmath@\True
16  \global\GRP@queue\emptytoks \global\setbox\GRP@box\box\voidb@x
17  \global\let\GRP@label\empty
18  \global\grp@wdL\z@\global\grp@wdR\z@\global\grp@wdT\z@
19  \global\grp@linewidth\z@\global\grp@wdNum\z@
20  \global\let\grp@eqs@numbered@\False
21  \global\let\grp@aligned@\True
22  \global\let\grp@shiftnumber@\False
23  \eq@prelim
24  \setkeys{breqn}{#1}%
25  \if\grp@hasNumber \grp@setnumber \fi
26 }
27 \def\@dseries[#1]{\if@RTL\@RTLfalse\addfontfeatures{Mapping=farsidigits}\fi%
28  \let\display@setup\dseries@display@setup
29  % Question: should this be the default for dseries???
30  \global\eq@wdCond\z@
31  \@dmath[layout={M},#1]%
32  \mathsurround\z@\@@math \penalty\@Mi
33  \let\endmath\ends@math
34  \def\premath{%
35    \ifdim\lastskip<.3em \unskip
36    \else\ifnum\lastpenalty<\@M \dquad\fi\fi

```

```

37 }%
38 \def\postmath{\unpenalty\eq@addpunct \penalty\intermath@penalty \dquad \ignorespaces}%
39 \ignorespaces
40 }

```

7.17 commands-ltx.def

```

1 \ProvidesFile{commands-ltx.def}[2010/07/25 v0.2 Persian localisation of LaTeX2e commands]
2 \eqcommand{ }{@arstrut}
3 \eqcommand{ }{above}
4 \eqcommand{ }{abovedisplayshortskip}
5 \eqcommand{ }{abovedisplayskip}
6 \eqcommand{ }{abstractname}
7 \eqcommand{ }{accent}
8 \eqcommand{ }{active}
9 \eqcommand{ }{addcontentsline}
10 \eqcommand{ }{addpenalty}
11 \eqcommand{ }{address}
12 \eqcommand{ }{addtocontents}
13 \eqcommand{ }{addtocounter}
14 \eqcommand{ }{addtolength}
15 \eqcommand{ }{addvspace}
16 \eqcommand{ }{adjdemerits}
17 \eqcommand{ }{advance}
18 \eqcommand{ }{afterassignment}
19 \eqcommand{ }{aftergroup}
20 \eqcommand{ }{aleph}
21 \eqcommand{ }{aliasfontfeature}
22 \eqcommand{ }{aliasfontfeatureoption}
23 \eqcommand{ }{allowbreak}
24 \eqcommand{ @}{alloc@}
25 \eqcommand{ }{allocationnumber}
26 \eqcommand{ }{allowdisplaybreaks}
27 \eqcommand{ }{Alph}
28 \eqcommand{ }{alph}
29 \eqcommand{ }{alsoname}
30 \eqcommand{ }{and}
31 \eqcommand{ }{angle}
32 \eqcommand{ }{appendixname}
33 \eqcommand{ }{approx}
34 \eqcommand{ }{arabic}
35 \eqcommand{ }{arg}
36 \eqcommand{ }{arrayrulecolor}
37 \eqcommand{ }{arraycolsep}
38 \eqcommand{ }{arrayrulewidth}
39 \eqcommand{ }{arraystretch}
40 \eqcommand{ }{AtBeginDocument}
41 \eqcommand{ }{AtEndDocument}
42 \eqcommand{ }{AtEndOfClass}
43 \eqcommand{ }{AtEndOfPackage}

```

```

44 \eqcommand{ }{author}
45 \eqcommand{ }{backmatter}
46 \eqcommand{ }{backslash}
47 \eqcommand{ }{badness}
48 \eqcommand{ }{bar}
49 \eqcommand{ }{baselineskip}
50 \eqcommand{ }{baselinestretch}
51 \eqcommand{ }{batchmode}
52 \eqcommand{ }{begin}
53 \eqcommand{ }{beginL}
54 \eqcommand{ }{beginR}
55 \eqcommand{ }{begingroup}
56 \eqcommand{ }{belowdisplayshortskip}
57 \eqcommand{ }{belowdisplayskip}
58 \eqcommand{ }{bf}
59 \eqcommand{ }{bfdefault}
60 \eqcommand{ }{bfseries}
61 \eqcommand{ }{bgroup}
62 \eqcommand{ }{bibitem}
63 \eqcommand{ }{bibliography}
64 \eqcommand{ }{bibliographystyle}
65 \eqcommand{ }{bibname}
66 \eqcommand{ }{bigskip}
67 \eqcommand{ }{bigskipamount}
68 \eqcommand{ }{botfigrule}
69 \eqcommand{ }{botmark}
70 \eqcommand{ }{bottompageskip}
71 \eqcommand{ }{bottomfraction}
72 \eqcommand{ }{box}
73 \eqcommand{ }{boxmaxdepth}
74 \eqcommand{ }{break}
75 \eqcommand{ }{bullet}
76 \eqcommand{ @ }{@cclv}
77 \eqcommand{ @ }{@cclvi}
78 \eqcommand{ }{caption}
79 \eqcommand{ }{catcode}
80 \eqcommand{ }{cc}
81 \eqcommand{ }{ccname}
82 \eqcommand{ }{cdot}
83 \eqcommand{ }{cdots}
84 \eqcommand{ }{centering}
85 \eqcommand{ }{centerline}
86 \eqcommand{ @ }{ch@ck}
87 \eqcommand{ }{chapter}
88 \eqcommand{ }{chaptername}
89 \eqcommand{ }{char}
90 \eqcommand{ }{chardef}
91 \eqcommand{ }{CheckCommand}
92 \eqcommand{ }{cite}
93 \eqcommand{ }{ClassError}

```

```

94 \eqcommand{ }{ClassInfo}
95 \eqcommand{ }{ClassWarning}
96 \eqcommand{ }{ClassWarningNoLine}
97 \eqcommand{ }{cleaders}
98 \eqcommand{ }{cleardoublepage}
99 \eqcommand{ }{clearpage}
100 \eqcommand{ }{cline}
101 \eqcommand{ }{closein}
102 \eqcommand{ }{closeout}
103 \eqcommand{ }{closing}
104 \eqcommand{ }{clubpenalty}
105 \eqcommand{ }{clubsuit}
106 \eqcommand{ }{colbotmark}
107 \eqcommand{ }{colfirstmark}
108 \eqcommand{ }{color}
109 \eqcommand{ }{colorbox}
110 \eqcommand{ }{coltopmark}
111 \eqcommand{ }{columncolor}
112 \eqcommand{ }{columnsep}
113 \eqcommand{ }{columnwidth}
114 \eqcommand{ }{columnseprule}
115 \eqcommand{ }{contentsline}
116 \eqcommand{ }{contentsname}
117 \eqcommand{ }{copy}
118 \eqcommand{ }{copyright}
119 \eqcommand{ }{count}
120 \eqcommand{ @}{count@}
121 \eqcommand{ }{countdef}
122 \eqcommand{ }{cr}
123 \eqcommand{ }{crcr}
124 \eqcommand{ }{csname}
125 \eqcommand{ }{CurrentOption}
126 \eqcommand{ }{dashbox}
127 \eqcommand{ }{dashv}
128 \eqcommand{@}{@date}
129 \eqcommand{ }{date}
130 \eqcommand{ }{day}
131 \eqcommand{ }{dblbotfigrule}
132 \eqcommand{ }{dblbottomfraction}
133 \eqcommand{ }{dblfigrule}
134 \eqcommand{ }{dblfloatpagefraction}
135 \eqcommand{ }{dblfloatsep}
136 \eqcommand{ }{dblfnlocatecode}
137 \eqcommand{ }{dbltextfloatsep}
138 \eqcommand{ }{dbltopfraction}
139 \eqcommand{ }{DeclareFixedFont}
140 \eqcommand{ }{DeclareGraphicsExtensions}
141 \eqcommand{ }{DeclareGraphicsRule}
142 \eqcommand{ }{DeclareOldFontCommand}
143 \eqcommand{ }{DeclareOption}

```

```

144 \eqcommand{ }{DeclareRobustCommand}
145 \eqcommand{ }{DeclareSymbolFont}
146 \eqcommand{ }{deadcycles}
147 \eqcommand{ }{def}
148 \eqcommand{ }{definecolor}
149 \eqcommand{ }{deg}
150 \eqcommand{ }{delcode}
151 \eqcommand{ }{delimiter}
152 \eqcommand{ }{delimiterfactor}
153 \eqcommand{ }{depth}
154 \eqcommand{ }{diamondsuit}
155 \eqcommand{ }{dim}
156 \eqcommand{ }{dimen}
157 \eqcommand{ @}{dimen@}
158 \eqcommand{ @ }{dimen@i}
159 \eqcommand{ @ }{dimen@ii}
160 \eqcommand{ }{dimendef}
161 \eqcommand{ }{discretionary}
162 \eqcommand{ }{displaybreak}
163 \eqcommand{ }{displayindent}
164 \eqcommand{ }{displaystyle}
165 \eqcommand{ }{displaywidth}
166 \eqcommand{ }{divide}
167 \eqcommand{ }{documentclass}
168 \eqcommand{ }{do}
169 \eqcommand{ }{dospecials}
170 \eqcommand{ }{dot}
171 \eqcommand{ }{doteq}
172 \eqcommand{ }{dotfill}
173 \eqcommand{ }{dots}
174 \eqcommand{ }{doublebox}
175 \eqcommand{ }{doublerulesepcolor}
176 \eqcommand{ }{doublerulesep}
177 \eqcommand{ }{downarrow}
178 \eqcommand{ }{dp}
179 \eqcommand{ }{dump}
180 \eqcommand{ }{edef}
181 \eqcommand{ }{egroup}
182 \eqcommand{ }{eject}
183 \eqcommand{ }{else}
184 \eqcommand{ }{em}
185 \eqcommand{ }{emergencystretch}
186 \eqcommand{ }{emph}
187 \eqcommand{@ }{@empty}
188 \eqcommand{ }{empty}
189 \eqcommand{ }{emptyset}
190 \eqcommand{ }{end}
191 \eqcommand{ }{endL}
192 \eqcommand{ }{endR}
193 \eqcommand{ }{endcsname}

```

```

194 \eqcommand{      }{endfirsthead}
195 \eqcommand{      }{endfoot}
196 \eqcommand{      }{endgraf}
197 \eqcommand{      }{endgroup}
198 \eqcommand{      }{endhead}
199 \eqcommand{      }{endinput}
200 \eqcommand{      }{endlastfoot}
201 \eqcommand{      }{enlargethispage}
202 \eqcommand{      }{endline}
203 \eqcommand{      }{endlinechar}
204 \eqcommand{      }{enspace}
205 \eqcommand{      }{enskip}
206 \eqcommand{      }{eqcommand}
207 \eqcommand{      }{eqenvironment}
208 \eqcommand{      }{eqref}
209 \eqcommand{      }{errhelp}
210 \eqcommand{      }{errmessage}
211 \eqcommand{      }{errorcontextlines}
212 \eqcommand{      }{errorstopmode}
213 \eqcommand{      }{escapechar}
214 \eqcommand{      }{euro}
215 \eqcommand{      }{evensidemargin}
216 \eqcommand{      }{everycr}
217 \eqcommand{      }{everydisplay}
218 \eqcommand{      }{everyhbox}
219 \eqcommand{      }{everyjob}
220 \eqcommand{      }{everymath}
221 \eqcommand{      }{everypar}
222 \eqcommand{      }{everyvbox}
223 \eqcommand{      }{ExecuteOptions}
224 \eqcommand{      }{exhyphenpenalty}
225 \eqcommand{      }{expandafter}
226 \eqcommand{      }{extracolsep}
227 \eqcommand{@      }{@firstofone}
228 \eqcommand{@      }{@firstoftwo}
229 \eqcommand{@ }{f@ur}
230 \eqcommand{      }{fam}
231 \eqcommand{      }{fancypage}
232 \eqcommand{      }{fbox}
233 \eqcommand{      }{fboxrule}
234 \eqcommand{      }{fboxsep}
235 \eqcommand{      }{fcolorbox}
236 \eqcommand{      }{fi}
237 \eqcommand{      }{figurename}
238 \eqcommand{      }{filbreak}
239 \eqcommand{      }{fill}
240 \eqcommand{      }{firstmark}
241 \eqcommand{      }{flat}
242 \eqcommand{      }{floatpagefraction}
243 \eqcommand{      }{floatingpenalty}

```

```

244 \eqcommand{      }{floatsep}
245 \eqcommand{      }{flushbottom}
246 \eqcommand{      }{fmtname}
247 \eqcommand{      }{fmtversion}
248 \eqcommand{      }{fnssymbol}
249 \eqcommand{      }{font}
250 \eqcommand{      }{fontdimen}
251 \eqcommand{      }{fontencoding}
252 \eqcommand{      }{fontfamily}
253 \eqcommand{      }{fontname}
254 \eqcommand{      }{fontseries}
255 \eqcommand{      }{fontshape}
256 \eqcommand{      }{fontsize}
257 \eqcommand{      }{footheight}
258 \eqcommand{      }{footins}
259 \eqcommand{      }{footnote}
260 \eqcommand{      }{footnotemark}
261 \eqcommand{      }{footnoterule}
262 \eqcommand{      }{footnotesep}
263 \eqcommand{      }{footnotesign}
264 \eqcommand{      }{footnotetext}
265 \eqcommand{      }{footskip}
266 \eqcommand{      }{frame}
267 \eqcommand{      }{framebox}
268 \eqcommand{      }{frenchspacing}
269 \eqcommand{      }{frontmatter}
270 \eqcommand{      }{futurelet}
271 \eqcommand{@      }{@gobble}
272 \eqcommand{@      }{@gobbletwo}
273 \eqcommand{@      }{@gobblefour}
274 \eqcommand{@      }{@tempa}
275 \eqcommand{@      }{@tempb}
276 \eqcommand{      }{gdef}
277 \eqcommand{      }{GenericInfo}
278 \eqcommand{      }{GenericWarning}
279 \eqcommand{      }{GenericError}
280 \eqcommand{      }{global}
281 \eqcommand{      }{globaldefs}
282 \eqcommand{      }{glossary}
283 \eqcommand{      }{glossaryentry}
284 \eqcommand{      }{goodbreak}
285 \eqcommand{      }{graphpaper}
286 \eqcommand{      }{guillemotleft}
287 \eqcommand{      }{guillemotright}
288 \eqcommand{      }{guilsinglleft}
289 \eqcommand{      }{guilsinglright}
290 \eqcommand{      }{halign}
291 \eqcommand{      }{hang}
292 \eqcommand{      }{hangafter}
293 \eqcommand{      }{hangindent}

```

```

294 \eqcommand{ }{hbadness}
295 \eqcommand{ }{hbox}
296 \eqcommand{ }{headheight}
297 \eqcommand{ }{headsep}
298 \eqcommand{ }{headtoname}
299 \eqcommand{ }{heartsuit}
300 \eqcommand{ }{height}
301 \eqcommand{ }{hfil}
302 \eqcommand{ }{hfill}
303 \eqcommand{ }{hfilneg}
304 \eqcommand{ }{hfuzz}
305 \eqcommand{ }{hideskip}
306 \eqcommand{ }{hidewidth}
307 \eqcommand{ }{hline}
308 \eqcommand{ }{hoffset}
309 \eqcommand{ }{holdinginserts}
310 \eqcommand{ }{hrboxsep}
311 \eqcommand{ }{hrule}
312 \eqcommand{ }{hrulefill}
313 \eqcommand{ }{hsize}
314 \eqcommand{ }{hskip}
315 \eqcommand{ }{hspace}
316 \eqcommand{ }{hss}
317 \eqcommand{ }{ht}
318 \eqcommand{ }{huge}
319 \eqcommand{ }{Huge}
320 \eqcommand{ }{hyperlink}
321 \eqcommand{ }{hypersetup}
322 \eqcommand{ }{hypertarget}
323 \eqcommand{ }{hyphenation}
324 \eqcommand{ }{hyphenchar}
325 \eqcommand{ }{hyphenpenalty}
326 \eqcommand{@ }{@ifclassloaded}
327 \eqcommand{@ }{@ifdefinable}
328 \eqcommand{@ }{@ifnextchar}
329 \eqcommand{@ }{@ifpackageloaded}
330 \eqcommand{@ }{@ifstar}
331 \eqcommand{@ }{@ifundefined}
332 \eqcommand{ }{if}
333 \eqcommand{ @ }{@if@tempswa}
334 \eqcommand{ }{ifcase}
335 \eqcommand{ }{ifcat}
336 \eqcommand{ }{ifdefined}
337 \eqcommand{ }{ifdim}
338 \eqcommand{ }{ifeof}
339 \eqcommand{ }{iff}
340 \eqcommand{ }{iffalse}
341 \eqcommand{ }{IfFileExists}
342 \eqcommand{ }{ifhbox}
343 \eqcommand{ }{ifhmode}

```

```

344 \eqcommand{ }{ifinner}
345 \eqcommand{ }{ifmmode}
346 \eqcommand{ }{ifnum}
347 \eqcommand{ }{ifodd}
348 \eqcommand{ }{ifthenelse}
349 \eqcommand{ }{iftrue}
350 \eqcommand{ }{ifvbox}
351 \eqcommand{ }{ifvmode}
352 \eqcommand{ }{ifvoid}
353 \eqcommand{ }{ifx}
354 \eqcommand{ }{ignorespaces}
355 \eqcommand{ }{immediate}
356 \eqcommand{ }{include}
357 \eqcommand{ }{includegraphics}
358 \eqcommand{ }{includeonly}
359 \eqcommand{ }{indent}
360 \eqcommand{ }{index}
361 \eqcommand{ }{indexentry}
362 \eqcommand{ }{indexname}
363 \eqcommand{ }{indexspace}
364 \eqcommand{ }{input}
365 \eqcommand{ }{InputIfExists}
366 \eqcommand{ }{inputlineno}
367 \eqcommand{ }{insert}
368 \eqcommand{ }{insertpenalties}
369 \eqcommand{ }{interfootnotelinepenalty}
370 \eqcommand{ }{interdisplaylinepenalty}
371 \eqcommand{ }{interlinepenalty}
372 \eqcommand{ }{intertext}
373 \eqcommand{ }{intertextsep}
374 \eqcommand{ }{invisible}
375 \eqcommand{ }{itdefault}
376 \eqcommand{ }{itshape}
377 \eqcommand{ }{item}
378 \eqcommand{ }{itemindent}
379 \eqcommand{ }{itemsep}
380 \eqcommand{ }{iterate}
381 \eqcommand{ }{itshape}
382 \eqcommand{ }{jobname}
383 \eqcommand{ }{jot}
384 \eqcommand{ }{kern}
385 \eqcommand{ }{kill}
386 \eqcommand{ }{label}
387 \eqcommand{ }{labelenumi}
388 \eqcommand{ }{labelenumii}
389 \eqcommand{ }{labelenumiii}
390 \eqcommand{ }{labelenumiv}
391 \eqcommand{ }{labelitemi}
392 \eqcommand{ }{labelitemii}
393 \eqcommand{ }{labelitemiii}

```

```

394 \eqcommand{ }{\labelitemiv}
395 \eqcommand{ }{\labelsep}
396 \eqcommand{ }{\labelwidth}
397 \eqcommand{ }{\language}
398 \eqcommand{ }{\large}
399 \eqcommand{ }{\Large}
400 \eqcommand{ }{\LARGE}
401 \eqcommand{ }{\lastbox}
402 \eqcommand{ }{\lastkern}
403 \eqcommand{ }{\lastpenalty}
404 \eqcommand{ }{\lastskip}
405 \eqcommand{ }{\LaTeX}
406 \eqcommand{ }{\LaTeXe}
407 \eqcommand{ }{\lccode}
408 \eqcommand{ }{\ldots}
409 \eqcommand{ }{\leaders}
410 \eqcommand{ }{\leavevmode}
411 \eqcommand{ }{\left}
412 \eqcommand{ }{\leftmargin}
413 \eqcommand{ }{\leftmargini}
414 \eqcommand{ }{\leftmarginii}
415 \eqcommand{ }{\leftmarginiii}
416 \eqcommand{ }{\leftmarginiv}
417 \eqcommand{ }{\leftmarginv}
418 \eqcommand{ }{\leftmarginvi}
419 \eqcommand{ }{\leftmark}
420 \eqcommand{ }{\leftpageskip}
421 \eqcommand{ }{\leftskip}
422 \eqcommand{ }{\let}
423 \eqcommand{ }{\line}
424 \eqcommand{ }{\linebreak}
425 \eqcommand{ }{\linepenalty}
426 \eqcommand{ }{\lineskip}
427 \eqcommand{ }{\lineskiplimit}
428 \eqcommand{ }{\linespread}
429 \eqcommand{ }{\linethickness}
430 \eqcommand{ }{\linewidth}
431 \eqcommand{ }{\listfigurename}
432 \eqcommand{ }{\listfiles}
433 \eqcommand{ }{\listoffigures}
434 \eqcommand{ }{\listoftables}
435 \eqcommand{ }{\listparindent}
436 \eqcommand{ }{\listtablename}
437 \eqcommand{ }{\LoadClass}
438 \eqcommand{ }{\LoadClassWithOptions}
439 \eqcommand{ }{\location}
440 \eqcommand{ }{\long}
441 \eqcommand{ }{\loop}
442 \eqcommand{ }{\looseness}
443 \eqcommand{ }{\lower}

```

```

444 \eqcommand{@ }{@makeother}
445 \eqcommand{@ }{@m}
446 \eqcommand{ @ }{@M}
447 \eqcommand{ @ }{@Mi}
448 \eqcommand{ @ }{@Mii}
449 \eqcommand{ @ }{@Miii}
450 \eqcommand{ @ }{@Miv}
451 \eqcommand{ @ }{@MM}
452 \eqcommand{ @ }{@ne}
453 \eqcommand{ }{@mag}
454 \eqcommand{ }{@magstep}
455 \eqcommand{ }{@magstephalf}
456 \eqcommand{ }{@mainmatter}
457 \eqcommand{ }{@makeatletter}
458 \eqcommand{ }{@makeatother}
459 \eqcommand{ }{@makebox}
460 \eqcommand{ }{@makeglossary}
461 \eqcommand{ }{@makeindex}
462 \eqcommand{ }{@makelabel}
463 \eqcommand{ }{@makelabels}
464 \eqcommand{ }{@MakeLowercase}
465 \eqcommand{ }{@maketitle}
466 \eqcommand{ }{@MakeUppercase}
467 \eqcommand{ }{@marginpar}
468 \eqcommand{ }{@marginparpush}
469 \eqcommand{ }{@marginparsep}
470 \eqcommand{ }{@marginparwidth}
471 \eqcommand{ }{@mark}
472 \eqcommand{ }{@markboth}
473 \eqcommand{ }{@markright}
474 \eqcommand{ }{@mathaccent}
475 \eqcommand{ }{@mathchar}
476 \eqcommand{ }{@mathchardef}
477 \eqcommand{ }{@mathcode}
478 \eqcommand{ }{@mathrm}
479 \eqcommand{ }{@maxdeadcycles}
480 \eqcommand{ }{@maxdepth}
481 \eqcommand{ }{@maxdimen}
482 \eqcommand{ }{@mbox}
483 \eqcommand{ }{@mdseries}
484 \eqcommand{ }{@meaning}
485 \eqcommand{ }{@mediumseries}
486 \eqcommand{ }{@medmuskip}
487 \eqcommand{ }{@medskip}
488 \eqcommand{ }{@medskipamount}
489 \eqcommand{ }{@medspace}
490 \eqcommand{ }{@message}
491 \eqcommand{ }{@MessageBreak}
492 \eqcommand{ }{@minrowclearance}
493 \eqcommand{ }{@mkern}

```

```

494 \eqcommand{ }{month}
495 \eqcommand{ }{moveleft}
496 \eqcommand{ }{moveright}
497 \eqcommand{ }{mskip}
498 \eqcommand{ @ }{m@th}
499 \eqcommand{ }{multicolumn}
500 \eqcommand{ }{multiply}
501 \eqcommand{ }{multispan}
502 \eqcommand{ }{muskip}
503 \eqcommand{ }{muskipdef}
504 \eqcommand{@ }{@namedef}
505 \eqcommand{@ }{@nameuse}
506 \eqcommand{ @}{@ne}
507 \eqcommand{ }{name}
508 \eqcommand{ }{natural}
509 \eqcommand{ }{nearrow}
510 \eqcommand{ }{nearrower}
511 \eqcommand{ }{NeedsTeXFormat}
512 \eqcommand{ }{neg}
513 \eqcommand{ }{negmedspace}
514 \eqcommand{ }{negthickspace}
515 \eqcommand{ }{negthinspace}
516 \eqcommand{ }{newboolean}
517 \eqcommand{ }{newbox}
518 \eqcommand{ }{newcommand}
519 \eqcommand{ }{newcount}
520 \eqcommand{ }{newcounter}
521 \eqcommand{ }{newdimen}
522 \eqcommand{ }{newenvironment}
523 \eqcommand{ }{newfam}
524 \eqcommand{ }{newfont}
525 \eqcommand{ }{newhelp}
526 \eqcommand{ }{newinsert}
527 \eqcommand{ }{newlabel}
528 \eqcommand{ }{newlength}
529 \eqcommand{ }{newline}
530 \eqcommand{ }{newlinechar}
531 \eqcommand{ }{newmuskip}
532 \eqcommand{ }{newpage}
533 \eqcommand{ }{newread}
534 \eqcommand{ }{newsavebox}
535 \eqcommand{ }{newskip}
536 \eqcommand{ }{newtheorem}
537 \eqcommand{ }{newtoks}
538 \eqcommand{ }{newwrite}
539 \eqcommand{ }{noalign}
540 \eqcommand{ }{nobreak}
541 \eqcommand{ }{nobreakspace}
542 \eqcommand{ }{nocite}
543 \eqcommand{ }{noexpand}

```

```

544 \eqcommand{ }{nofiles}
545 \eqcommand{ }{noindent}
546 \eqcommand{ }{nointerlineskip}
547 \eqcommand{ }{nolimits}
548 \eqcommand{ }{nolinebreak}
549 \eqcommand{ }{nonstopmode}
550 \eqcommand{ }{nonfrenchspacing}
551 \eqcommand{ }{nonumber}
552 \eqcommand{ }{nopagebreak}
553 \eqcommand{ }{normalbaselines}
554 \eqcommand{ }{normalbaselineskip}
555 \eqcommand{ }{normalcolor}
556 \eqcommand{ }{normalfont}
557 \eqcommand{ }{normallineskip}
558 \eqcommand{ }{normallineskiplimit}
559 \eqcommand{ }{normalmarginpar}
560 \eqcommand{ }{normalsize}
561 \eqcommand{ }{notag}
562 \eqcommand{ }{null}
563 \eqcommand{ }{nullfont}
564 \eqcommand{ }{number}
565 \eqcommand{ }{numberline}
566 \eqcommand{ }{numberwithin}
567 \eqcommand{ }{@evenfoot}
568 \eqcommand{ }{@evenhead}
569 \eqcommand{ }{@oddfoot}
570 \eqcommand{ }{@oddhead}
571 \eqcommand{ }{@outeqnttrue}
572 \eqcommand{ }{@outeqnfase}
573 \eqcommand{ }{obeylines}
574 \eqcommand{ }{obeyspaces}
575 \eqcommand{ }{oddsidemargin}
576 \eqcommand{ }{offinterlineskip}
577 \eqcommand{ }{omit}
578 \eqcommand{@ }{@onlypreamble}
579 \eqcommand{ }{onecolumn}
580 \eqcommand{ }{onlynotes}
581 \eqcommand{ }{onlyslides}
582 \eqcommand{ }{openin}
583 \eqcommand{ }{openout}
584 \eqcommand{ }{OptionNotUsed}
585 \eqcommand{ }{or}
586 \eqcommand{ }{outer}
587 \eqcommand{ }{output}
588 \eqcommand{ }{outputpenalty}
589 \eqcommand{ }{overfullrule}
590 \eqcommand{@ }{@preamblecmds}
591 \eqcommand{@ }{p@}
592 \eqcommand{ }{PackageError}
593 \eqcommand{ }{PackageInfo}

```

```

594 \eqcommand{ }{PackageWarning}
595 \eqcommand{ }{PackageWarningNoLine}
596 \eqcommand{ }{pagebreak}
597 \eqcommand{ }{pagecolor}
598 \eqcommand{ }{pagedepth}
599 \eqcommand{ }{pagefillstretch}
600 \eqcommand{ }{pagefillstretch}
601 \eqcommand{ }{pagefilstretch}
602 \eqcommand{ }{pagegoal}
603 \eqcommand{ }{pagename}
604 \eqcommand{ }{pagenumbering}
605 \eqcommand{ }{pageref}
606 \eqcommand{ }{pagerulewidth}
607 \eqcommand{ }{pageshrink}
608 \eqcommand{ }{pagestretch}
609 \eqcommand{ }{pagestyle}
610 \eqcommand{ }{pagetotal}
611 \eqcommand{ }{paperheight}
612 \eqcommand{ }{paperwidth}
613 \eqcommand{ }{par}
614 \eqcommand{ }{paragraph}
615 \eqcommand{ }{parallel}
616 \eqcommand{ }{parbox}
617 \eqcommand{ }{parfillskip}
618 \eqcommand{ }{parindent}
619 \eqcommand{ }{parsep}
620 \eqcommand{ }{parshape}
621 \eqcommand{ }{parskip}
622 \eqcommand{ }{part}
623 \eqcommand{ }{partname}
624 \eqcommand{ }{partopsep}
625 \eqcommand{ }{PassOptionToClass}
626 \eqcommand{ }{PassOptionToPackage}
627 \eqcommand{ }{path}
628 \eqcommand{ }{patterns}
629 \eqcommand{ }{pausing}
630 \eqcommand{ }{penalty}
631 \eqcommand{ }{phantom}
632 \eqcommand{ }{poptabs}
633 \eqcommand{ }{postdisplaypenalty}
634 \eqcommand{ }{predisplaydirection}
635 \eqcommand{ }{predisplaypenalty}
636 \eqcommand{ }{predisplaysize}
637 \eqcommand{ }{pretolerance}
638 \eqcommand{ }{prevdepth}
639 \eqcommand{ }{prevgraf}
640 \eqcommand{ }{printindex}
641 \eqcommand{ }{ProcessOptions}
642 \eqcommand{ }{protect}
643 \eqcommand{ }{providecommand}

```

```

644 \eqcommand{ }{ProvidesClass}
645 \eqcommand{ }{ProvidesFile}
646 \eqcommand{ }{ProvidesPackage}
647 \eqcommand{ }{pushtabs}
648 \eqcommand{ }{quad}
649 \eqcommand{ }{qquad}
650 \eqcommand{@ }{@outputpagerestore}
651 \eqcommand{ }{radical}
652 \eqcommand{ }{raggedbottom}
653 \eqcommand{ }{raggedleft}
654 \eqcommand{ }{raggedright}
655 \eqcommand{ }{raise}
656 \eqcommand{ }{raisebox}
657 \eqcommand{ }{raisetag}
658 \eqcommand{ }{rangle}
659 \eqcommand{ }{rceil}
660 \eqcommand{ }{read}
661 \eqcommand{ }{ref}
662 \eqcommand{ }{reflectbox}
663 \eqcommand{ }{refname}
664 \eqcommand{ }{refstepcounter}
665 \eqcommand{ }{relax}
666 \eqcommand{ }{removelastskip}
667 \eqcommand{ }{renewcommand}
668 \eqcommand{ }{renewenvironment}
669 \eqcommand{ }{repeat}
670 \eqcommand{ }{RequirePackage}
671 \eqcommand{ }{RequirePackageWithOptions}
672 \eqcommand{ }{resizebox}
673 \eqcommand{ }{reversemarginpar}
674 \eqcommand{ }{rfloor}
675 \eqcommand{ }{right}
676 \eqcommand{ }{rightmargin}
677 \eqcommand{ }{rightmark}
678 \eqcommand{ }{rightpageskip}
679 \eqcommand{ }{rightskip}
680 \eqcommand{ }{rmdefault}
681 \eqcommand{ }{rmfamily}
682 \eqcommand{ }{Roman}
683 \eqcommand{ }{roman}
684 \eqcommand{ }{romannumeral}
685 \eqcommand{ }{rotatebox}
686 \eqcommand{ }{rowcolor}
687 \eqcommand{ }{rule}
688 \eqcommand{@ }{@secondoftwo}
689 \eqcommand{@ }{@spaces}
690 \eqcommand{ }{samepage}
691 \eqcommand{ }{savebox}
692 \eqcommand{ }{sbox}
693 \eqcommand{ }{scalebox}

```

```

694 \eqcommand{      }{scdefault}
695 \eqcommand{      }{scshape}
696 \eqcommand{      }{scriptfont}
697 \eqcommand{      }{scriptscriptfont}
698 \eqcommand{      }{scriptscriptstyle}
699 \eqcommand{      }{scriptsize}
700 \eqcommand{      }{scriptstyle}
701 \eqcommand{      }{scrollmode}
702 \eqcommand{      }{section}
703 \eqcommand{      }{secdef}
704 \eqcommand{      }{see}
705 \eqcommand{      }{seealso}
706 \eqcommand{      }{seename}
707 \eqcommand{      }{selectfont}
708 \eqcommand{      }{setboolean}
709 \eqcommand{      }{setbox}
710 \eqcommand{      }{setcounter}
711 \eqcommand{      }{setlength}
712 \eqcommand{      }{setminus}
713 \eqcommand{      }{SetSymbolFont}
714 \eqcommand{      }{settodepth}
715 \eqcommand{      }{settoheight}
716 \eqcommand{      }{settowidth}
717 \eqcommand{      }{sfcode}
718 \eqcommand{      }{sfdefault}
719 \eqcommand{      }{sffamily}
720 \eqcommand{      }{shadowbox}
721 \eqcommand{      }{sharp}
722 \eqcommand{      }{shipout}
723 \eqcommand{      }{shortstack}
724 \eqcommand{      }{show}
725 \eqcommand{      }{showbox}
726 \eqcommand{      }{showboxbreadth}
727 \eqcommand{      }{showboxdepth}
728 \eqcommand{      }{showlists}
729 \eqcommand{      }{showthe}
730 \eqcommand{      }{simplefontmode}
731 \eqcommand{      @}{sixt@n}
732 \eqcommand{      }{skewchar}
733 \eqcommand{      }{skip}
734 \eqcommand{      @}{skip@}
735 \eqcommand{      }{skipdef}
736 \eqcommand{      }{sl}
737 \eqcommand{      }{sldefault}
738 \eqcommand{      }{slshape}
739 \eqcommand{      }{sloppy}
740 \eqcommand{      }{slshape}
741 \eqcommand{      }{small}
742 \eqcommand{      }{smallskip}
743 \eqcommand{      }{smallskipamount}

```

```

744 \eqcommand{ }{smash}
745 \eqcommand{ }{smile}
746 \eqcommand{ }{snglfntlocatecode}
747 \eqcommand{ }{space}
748 \eqcommand{ }{spacefactor}
749 \eqcommand{ }{spaceskip}
750 \eqcommand{ }{spadesuit}
751 \eqcommand{ }{span}
752 \eqcommand{ }{special}
753 \eqcommand{ }{splitmaxdepth}
754 \eqcommand{ }{splittopskip}
755 \eqcommand{ }{star}
756 \eqcommand{ }{stepcounter}
757 \eqcommand{ }{stretch}
758 \eqcommand{ }{string}
759 \eqcommand{ }{strut}
760 \eqcommand{ }{strutbox}
761 \eqcommand{ }{subitem}
762 \eqcommand{ }{subparagraph}
763 \eqcommand{ }{subsection}
764 \eqcommand{ }{substack}
765 \eqcommand{ }{subsubitem}
766 \eqcommand{ }{subsubsection}
767 \eqcommand{ }{subset}
768 \eqcommand{ }{subsepeq}
769 \eqcommand{ }{supereject}
770 \eqcommand{ }{suppressfloats}
771 \eqcommand{@ }{@tempa}
772 \eqcommand{@ }{@tempb}
773 \eqcommand{@ }{@tempc}
774 \eqcommand{@ }{@tempd}
775 \eqcommand{@ }{@tempf}
776 \eqcommand{@ }{@tempboxa}
777 \eqcommand{@ }{@tempcnta}
778 \eqcommand{@ }{@tempcntb}
779 \eqcommand{@ }{@tempdima}
780 \eqcommand{@ }{@tempdimb}
781 \eqcommand{@ }{@tempdimc}
782 \eqcommand{@ }{@tempskipa}
783 \eqcommand{@ }{@tempskipb}
784 \eqcommand{@ }{@tempswafalse}
785 \eqcommand{@ }{@tempswatrue}
786 \eqcommand{@ }{@temptokena}
787 \eqcommand{ }{@thefnmark}
788 \eqcommand{@ }{@thirdofthree}
789 \eqcommand{ }{@tabbingsep}
790 \eqcommand{ }{@tabcolsep}
791 \eqcommand{ }{@tableofcontents}
792 \eqcommand{ }{@tablename}
793 \eqcommand{ }{@tabskip}

```

```

794 \eqcommand{ }{tabularnewline}
795 \eqcommand{ }{tag}
796 \eqcommand{ }{telephone}
797 \eqcommand{ }{TeX}
798 \eqcommand{ }{text}
799 \eqcommand{ }{textbullet}
800 \eqcommand{ }{textfont}
801 \eqcommand{ }{textemdash}
802 \eqcommand{ }{textendash}
803 \eqcommand{ }{textexclamdown}
804 \eqcommand{ }{textperiodcentered}
805 \eqcommand{ }{textquestiondown}
806 \eqcommand{ }{textquotedblleft}
807 \eqcommand{ }{textquotedblright}
808 \eqcommand{ }{textquotelleft}
809 \eqcommand{ }{textquoteright}
810 \eqcommand{ }{textvisiblespace}
811 \eqcommand{ }{textbackslash}
812 \eqcommand{ }{textbar}
813 \eqcommand{ }{textgreater}
814 \eqcommand{ }{textless}
815 \eqcommand{ }{textbf}
816 \eqcommand{ }{textcircled}
817 \eqcommand{ }{textcolor}
818 \eqcommand{ }{textcompwordmark}
819 \eqcommand{ }{textfloatsep}
820 \eqcommand{ }{textfraction}
821 \eqcommand{ }{textheight}
822 \eqcommand{ }{textindent}
823 \eqcommand{ }{textit}
824 \eqcommand{ }{textmd}
825 \eqcommand{ }{textnormal}
826 \eqcommand{ }{textregistered}
827 \eqcommand{ }{textrm}
828 \eqcommand{ }{textsc}
829 \eqcommand{ }{textsf}
830 \eqcommand{ }{textsl}
831 \eqcommand{ }{textstyle}
832 \eqcommand{ }{textsuperscript}
833 \eqcommand{ }{texttrademark}
834 \eqcommand{ }{texttt}
835 \eqcommand{ }{textup}
836 \eqcommand{ }{textwidth}
837 \eqcommand{ }{thanks}
838 \eqcommand{ }{the}
839 \eqcommand{ }{thempfn}
840 \eqcommand{ }{thicklines}
841 \eqcommand{ }{thickmuskip}
842 \eqcommand{ }{thinmuskip}
843 \eqcommand{ }{thickspace}

```

```

844 \eqcommand{ }{thinlines}
845 \eqcommand{ }{thinspace}
846 \eqcommand{ }{thisfancypage}
847 \eqcommand{ }{thispagestyle}
848 \eqcommand{ @}{thr@@}
849 \eqcommand{ }{tilde}
850 \eqcommand{ }{tiny}
851 \eqcommand{ }{time}
852 \eqcommand{ }{times}
853 \eqcommand{ }{title}
854 \eqcommand{ }{to}
855 \eqcommand{ }{today}
856 \eqcommand{ }{toks}
857 \eqcommand{ }{toksdef}
858 \eqcommand{ }{tolerance}
859 \eqcommand{ }{top}
860 \eqcommand{ }{topfigrule}
861 \eqcommand{ }{topfraction}
862 \eqcommand{ }{topmargin}
863 \eqcommand{ }{topmark}
864 \eqcommand{ }{toppageskip}
865 \eqcommand{ }{topsep}
866 \eqcommand{ }{topskip}
867 \eqcommand{ }{totalheight}
868 \eqcommand{ }{tracingall}
869 \eqcommand{ }{tracingcommands}
870 \eqcommand{ }{tracinglostchars}
871 \eqcommand{ }{tracingmacros}
872 \eqcommand{ }{tracingonline}
873 \eqcommand{ }{tracingoutput}
874 \eqcommand{ }{tracingpages}
875 \eqcommand{ }{tracingparagraphs}
876 \eqcommand{ }{tracingrestores}
877 \eqcommand{ }{tracingstats}
878 \eqcommand{ }{triangle}
879 \eqcommand{ }{ttdefault}
880 \eqcommand{ }{ttfamily}
881 \eqcommand{ @}{tw@}
882 \eqcommand{ }{twocolumn}
883 \eqcommand{ }{typein}
884 \eqcommand{ }{typeout}
885 \eqcommand{ }{uccode}
886 \eqcommand{ }{uchyph}
887 \eqcommand{ }{underline}
888 \eqcommand{ }{unhbox}
889 \eqcommand{ }{unhcropy}
890 \eqcommand{ }{unitlength}
891 \eqcommand{ }{unkern}
892 \eqcommand{ }{unpenalty}
893 \eqcommand{ }{unskip}

```

```

894 \eqcommand{ }{unvbox}
895 \eqcommand{ }{unvcopy}
896 \eqcommand{ }{updefault}
897 \eqcommand{ }{upshape}
898 \eqcommand{ }{usebox}
899 \eqcommand{ }{usecounter}
900 \eqcommand{ }{usefont}
901 \eqcommand{ }{usepackage}
902 \eqcommand{@ }{@vobeyspaces}
903 \eqcommand{@ }{@void}
904 \eqcommand{ }{vadjust}
905 \eqcommand{ }{valign}
906 \eqcommand{ }{value}
907 \eqcommand{ }{vbadness}
908 \eqcommand{ }{vbox}
909 \eqcommand{ }{vcenter}
910 \eqcommand{ }{verb}
911 \eqcommand{ }{vfill}
912 \eqcommand{ }{vfill}
913 \eqcommand{ }{vfilneg}
914 \eqcommand{ }{vfuzz}
915 \eqcommand{ }{visible}
916 \eqcommand{ }{vline}
917 \eqcommand{ }{voffset}
918 \eqcommand{ @ }{voidb@x}
919 \eqcommand{ }{vpageref}
920 \eqcommand{ }{vrboxsep}
921 \eqcommand{ }{vref}
922 \eqcommand{ }{vrule}
923 \eqcommand{ }{vsize}
924 \eqcommand{ }{vskip}
925 \eqcommand{ }{vspace}
926 \eqcommand{ }{vsplit}
927 \eqcommand{ }{vss}
928 \eqcommand{ }{vtop}
929 \eqcommand{ }{wd}
930 \eqcommand{ }{whiledo}
931 \eqcommand{ }{widehat}
932 \eqcommand{ }{widetilde}
933 \eqcommand{ }{widowpenalty}
934 \eqcommand{ }{width}
935 \eqcommand{ }{wlog}
936 \eqcommand{ }{write}
937 \eqcommand{@ }{@xobeysp}
938 \eqcommand{ @ }{@xxxii}
939 \eqcommand{ }{xdef}
940 \eqcommand{ }{xleaders}
941 \eqcommand{ }{xspaceskip}
942 \eqcommand{ }{year}
943 \eqcommand{@ }{z@}

```

```
944 \eqcommand{@ }{z@skip}
```

7.18 color-localise.def

```
1 color}           \-localise.def][2011/01/01 v0.1 localising color package]
2 rgb}{0}{ }     \,0,0}
3 rgb}{1}{ }     \,1,1}
4 rgb}{1}{ }     \,0,0}
5 rgb}{0}{ }     \,1,0}
6 rgb}{0}{ }     \,0,1}
7 cmyk}{1}{ }    \,0,0,0}
8 cmyk}{0}{ }    \,1,0,0}
9 cmyk}{0}{ }    \,0,1,0}
```

7.19 commands-xepersian.def

```
1 \ProvidesFile{commands-xepersian.def}[2010/07/25 v0.1 Persian localisation of XePersian commands]
2 \eqcommand{ }{autofootnoterule}
3 \eqcommand{ }{AutoMathsDigits}
4 \eqcommand{ }{DefaultMathsDigits}
5 \eqcommand{ }{deflatinfont}
6 \eqcommand{ }{defpersianfont}
7 \eqcommand{ }{hboxL}
8 \eqcommand{ }{hboxR}
9 \eqcommand{ }{Latincite}
10 \eqcommand{ }{latinfont}
11 \eqcommand{ }{latintoday}
12 \eqcommand{ }{leftfootnoterule}
13 \eqcommand{ }{lr}
14 \eqcommand{ }{LRE}
15 \eqcommand{ }{LTRdblcol}
16 \eqcommand{ }{LTRfootnote}
17 \eqcommand{ }{LTRfootnotetext}
18 \eqcommand{ }{LTRthanks}
19 \eqcommand{ }{persianfont}
20 \eqcommand{ }{PersianMathsDigits}
21 \eqcommand{ }{plq}
22 \eqcommand{ }{prq}
23 \eqcommand{ }{rightfootnoterule}
24 \eqcommand{ }{rl}
25 \eqcommand{ }{RLE}
26 \eqcommand{ }{RTLdblcol}
27 \eqcommand{ }{RTLfootnote}
28 \eqcommand{ }{RTLfootnotetext}
29 \eqcommand{ }{RTLthanks}
30 \eqcommand{@ }{@SepMark}
31 \eqcommand{ }{SepMark}
32 \eqcommand{ }{setdefaultbibitems}
33 \eqcommand{ }{setdefaultmarginpar}
34 \eqcommand{ }{setdigitfont}
35 \eqcommand{ }{setfootnoteLR}
```

```

36 \eqcommand{ }{setfootnoteRL}
37 \eqcommand{ }{setlatintextfont}
38 \eqcommand{ }{setLTR}
39 \eqcommand{ }{setLTRbibitems}
40 \eqcommand{ }{setLTRmarginpar}
41 \eqcommand{ }{setRTL}
42 \eqcommand{ }{setRTLbibitems}
43 \eqcommand{ }{setRTLmarginpar}
44 \eqcommand{ }{settextfont}
45 \eqcommand{ }{textwidthfootnoterule}
46 \eqcommand{ }{twocolumnstableofcontents}
47 \eqcommand{ }{unsetfootnoteRL}
48 \eqcommand{ }{unsetLTR}
49 \eqcommand{ }{unsetRTL}
50 \eqcommand{ }{vboxL}
51 \eqcommand{ }{vboxR}
52 \eqcommand{ }{XeTeX}
53 \eqcommand{ }{XePersian}
54 \eqcommand{ }{xepersianversion}
55 \eqcommand{ }{xepersiandate}
56 \eqcommand{ }{xepersiancommit}
57 \eqcommand{ }{XeTeX}

```

7.20 enumerate-xepersian.def

```

1 \ProvidesFile{enumerate-xepersian.def}[2010/07/25 v0.1 adaptations for enumerate package]
2 \def\@enloop@{%
3   \ifx \entemp@\      \def\@tempa{\@enLabel\harfi } \else
4   \ifx \entemp@\      \def\@tempa{\@enLabel\adadi } \else
5   \ifx \entemp@\      \def\@tempa{\@enLabel\tartibi } \else
6   \ifx A\@entemp    \def\@tempa{\@enLabel\Alph } \else
7   \ifx a\@entemp    \def\@tempa{\@enLabel\alph } \else
8   \ifx i\@entemp    \def\@tempa{\@enLabel\roman } \else
9   \ifx I\@entemp    \def\@tempa{\@enLabel\Roman } \else
10  \ifx 1\@entemp    \def\@tempa{\@enLabel\arabic} \else
11  \ifx \sptoken\@entemp \let\@tempa\@enSpace      \else
12  \ifx \bgroup\@entemp \let\@tempa\@enGroup      \else
13  \ifx \enum@\@entemp \let\@tempa\@gobble       \else
14           \let\@tempa\@enOther
15           \@enhook
16           \fi\fi\fi\fi\fi\fi\fi\fi\fi\fi
17  \@tempa}

```

7.21 environments-ltx.def

```

1 \ProvidesFile{environments-ltx.def}[2010/07/25 v0.2 Persian localisation of LaTeX2e environments]
2 \eqenvironment{ }{abstract}
3 \eqenvironment{ }{appendix}
4 \eqenvironment{ }{array}
5 \eqenvironment{ }{center}
6 \eqenvironment{ }{description}

```

```

7 \eqenvironment{ }{displaymath}
8 \eqenvironment{ }{document}
9 \eqenvironment{ }{enumerate}
10 \eqenvironment{ }{figure}
11 \eqenvironment{ *}{figure*}
12 \eqenvironment{ }{filecontents}
13 \eqenvironment{ *}{filecontents*}
14 \eqenvironment{ }{flushleft}
15 \eqenvironment{ }{flushright}
16 \eqenvironment{ }{itemize}
17 \eqenvironment{ }{letter}
18 \eqenvironment{ }{list}
19 \eqenvironment{ }{longtable}
20 \eqenvironment{ }{lrbox}
21 \eqenvironment{ }{math}
22 \eqenvironment{ }{matrix}
23 \eqenvironment{ }{minipage}
24 \eqenvironment{ }{multicols}
25 \eqenvironment{ }{multiline}
26 \eqenvironment{ }{note}
27 \eqenvironment{ }{overlay}
28 \eqenvironment{ }{picture}
29 \eqenvironment{ }{quotation}
30 \eqenvironment{ }{quote}
31 \eqenvironment{ }{slide}
32 \eqenvironment{ }{sloppypar}
33 \eqenvironment{ }{split}
34 \eqenvironment{ }{subarray}
35 \eqenvironment{ }{tabbing}
36 \eqenvironment{ }{table}
37 \eqenvironment{ *}{table*}
38 \eqenvironment{ }{tabular}
39 \eqenvironment{ *}{tabular*}
40 \eqenvironment{ }{thebibliography}
41 \eqenvironment{ }{theindex}
42 \eqenvironment{ }{titlepage}
43 \eqenvironment{ }{trivlist}
44 \eqenvironment{ }{verbatim}
45 \eqenvironment{ *}{verbatim*}
46 \eqenvironment{ }{verse}

```

7.22 environments-xepersian.def

```

1 \ProvidesFile{environments-xepersian.def}[2010/07/25 v0.1 Persian localisation of XePersian and b...
2 \eqenvironment{ }{latin}
3 \eqenvironment{ }{LTR}
4 \eqenvironment{ }{LTRitems}
5 \eqenvironment{ }{persian}
6 \eqenvironment{ }{RTL}
7 \eqenvironment{ }{RTLitems}

```

7.23 extarticle-xepersian.def

```
1 \ProvidesFile{extarticle-xepersian.def}[2010/07/25 v0.1 adaptations for extarticle class]
2 \renewcommand{\thepart}{\@tartibi\c@part}
3 \renewcommand{\appendix}{\par
4   \setcounter{section}{0}%
5   \setcounter{subsection}{0}%
6   \gdef{\thesection}{\@harfi\c@section}}}
```

7.24 extbook-xepersian.def

```
1 \ProvidesFile{extbook-xepersian.def}[2010/07/25 v0.1 adaptations for extbook class]
2 \renewcommand{\frontmatter}{%
3   \cleardoublepage
4   \mainmatterfalse
5   \pagenumbering{harfi}}
6 \renewcommand{\thepart}{\@tartibi\c@part}
7 \renewcommand{\appendix}{\par
8   \setcounter{chapter}{0}%
9   \setcounter{section}{0}%
10  \gdef{\chapapp}{\appendixname}%
11  \gdef{\thechapter}{\@harfi\c@chapter}
12 }%end appendix
```

7.25 extreport-xepersian.def

```
1 \ProvidesFile{extreport-xepersian.def}[2010/07/25 v0.1 adaptations for extreport class]
2 \renewcommand{\thepart}{\@tartibi\c@part}
3 \renewcommand{\appendix}{\par
4   \setcounter{chapter}{0}%
5   \setcounter{section}{0}%
6   \gdef{\chapapp}{\appendixname}%
7   \gdef{\thechapter}{\@harfi\c@chapter}}
```

7.26 flowfram-xepersian.def

```
1 \ProvidesFile{flowfram-xepersian.def}[2010/07/25 v0.1 adaptations for flowfram package]
2 \def{\outputpage}{%
3   \begingroup
4     \let{\protect}{\noexpand}
5     \resetactivechars
6     \global{\let{\@ifnewlist}{\if@newlist}}
7     \global{\@newlistfalse\@parboxrestore}
8     \shipout{\vbox{\set@typeset@protect
9       \aftergroup
10      \endgroup
11      \aftergroup
12      \set@typeset@protect
13      \reset@font\normalsize\normalsfcodes
14      \let{\label}{\gobble}
15      \let{\index}{\gobble}
16      \let{\glossary}{\gobble}}}}
```

```

17   \baselineskip\z@skip
18   \lineskip\z@skip
19   \lineskiplimit\z@
20   \vskip\topmargin\moveright\@themargin
21   \vbox{%
22     \vskip\headheight
23     \vskip\headsep
24     \box\@outputbox
25   }%
26 \global\let\if@newlist\@@if@newlist
27 \stepcounter{page}%
28 \setcounter{displayedframe}{0}%
29 \let\firstmark\botmark

```

7.27 footnote-bidi-xepersian.def

```

1 \ProvidesFile{footnote-bidi-xepersian.def}[2010/07/25 v0.2 footnote macros for xepersian package]
2 \long\def\@footnotetext#1{%
3   \begingroup
4   \setbox\footins
5   \vbox{\if@RTL@\footnote@\RTLtrue\else\@RTLfalse\fi\reset@font\footnotesize
6     \interlinepenalty\interfootnotelinepenalty
7     \splittopskip\footnotesep
8     \splitmaxdepth \dp\strutbox \floatingpenalty \OMM
9     \hsize\columnwidth \parboxrestore
10    \bidi@footnotetext@dir{#1}%
11  \protected@edef\@currentlabel{\csname p@footnote\endcsname\@thefnmark}\@makefntext
12  {\rule{\z@}{\footnotesep}\ignorespaces\if@RTL@\footnote#1\else\latinfont#1\fi\strut}}%
13  \bidi@footnotetext@after
14  \insert\footins{\unvbox\footins}%
15  \endgroup}
16 \long\def\@RTLfootnotetext#1{%
17   \begingroup
18   \setbox\footins
19   \vbox{\@RTLtrue\reset@font\footnotesize
20     \interlinepenalty\interfootnotelinepenalty
21     \splittopskip\footnotesep
22     \splitmaxdepth \dp\strutbox \floatingpenalty \OMM
23     \hsize\columnwidth \parboxrestore
24     \bidi@footnotetext@dir{#1}%
25  \protected@edef\@currentlabel{\csname p@footnote\endcsname\@thefnmark}\@makefntext
26  {\rule{\z@}{\footnotesep}\ignorespaces\persianfont #1\strut}}%
27  \bidi@footnotetext@after
28  \insert\footins{\unvbox\footins}%
29  \endgroup}
30 \long\def\@LTRfootnotetext#1{%
31   \begingroup
32   \setbox\footins
33   \vbox{\@RTLfalse\reset@font\footnotesize
34     \interlinepenalty\interfootnotelinepenalty

```

```

35   \splittopskip\footnotesep
36   \splitmaxdepth \dp\strutbox \floatingpenalty \z@MM
37   \hsize\columnwidth \parboxrestore
38   \bidi@footnotetext@dir{#1}%
39   \protected@edef\@currentlabel{\csname p@footnote\endcsname\@thefnmark}\@makefntext
40   {\rule{\z@}{\footnotesep}\ignorespaces\latinfont #1\strut}%
41   \bidi@footnotetext@after
42   \insert\footins{\unvbox\footins}%
43   \endgroup}
44 \long\def\@mpfootnotetext#1{%
45   \global\setbox\@mpfootins\vbox{\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
46   \unvbox\@mpfootins
47   \reset@font\footnotesize
48   \hsize\columnwidth
49   \parboxrestore
50   \protected@edef\@currentlabel
51   {\csname p@mpfootnote\endcsname\@thefnmark}%
52   \color@begingroup
53   \bidi@footnotetext@dir{#1}
54   \ifnum\c@mpfootnote=1\if@RTL\global\let\bidi@footnoterule\right@footnote\else\global\let\bidi@footnoterule\left@footnote\fi
55   \else\color@finalstrut\strutbox\fi
56   \rule{\z@}{\footnotesep}\ignorespaces\if@RTL@footnote#1\else\latinfont#1\fi\color@finalstrut\strutbox}%
57   \color@endgroup}}
58 \long\def\@mpRTLfootnotetext#1{%
59   \global\setbox\@mpfootins\vbox{\@RTLtrue%
60   \unvbox\@mpfootins
61   \reset@font\footnotesize
62   \hsize\columnwidth
63   \parboxrestore
64   \protected@edef\@currentlabel
65   {\csname p@mpfootnote\endcsname\@thefnmark}%
66   \color@begingroup
67   \bidi@footnotetext@dir{#1}
68   \ifnum\c@mpfootnote=1\if@RTL\global\let\bidi@footnoterule\right@footnote\else\global\let\bidi@footnoterule\left@footnote\fi
69   \else\color@finalstrut\strutbox\fi
70   \rule{\z@}{\footnotesep}\ignorespaces\persianfont#1\color@finalstrut\strutbox}%
71   \color@endgroup}}
72 \long\def\@mpLTRfootnotetext#1{%
73   \global\setbox\@mpfootins\vbox{\@RTLfalse%
74   \unvbox\@mpfootins
75   \reset@font\footnotesize
76   \hsize\columnwidth
77   \parboxrestore
78   \protected@edef\@currentlabel
79   {\csname p@mpfootnote\endcsname\@thefnmark}%
80   \color@begingroup
81   \bidi@footnotetext@dir{#1}
82   \ifnum\c@mpfootnote=1\if@RTL\global\let\bidi@footnoterule\right@footnote\else\global\let\bidi@footnoterule\left@footnote\fi
83   \else\color@finalstrut\strutbox\fi
84   \rule{\z@}{\footnotesep}\ignorespaces\latinfont#1\color@finalstrut\strutbox}%

```

```
85     \color@endgroup}}
```

7.28 hyperref-xepersian.def

```
1 \ProvidesFile{hyperref-xepersian.def}[2010/07/25 v0.3 bilingual captions for hyperref package]
2   \def\equationautorefname{\if@RTL else\ Equation\fi}%
3   \def\footnoteautorefname{\if@RTL else\ footnote\fi}%
4   \def\itemautorefname{\if@RTL else\ item\fi}%
5   \def\figureautorefname{\if@RTL else\ Figure\fi}%
6   \def\tableautorefname{\if@RTL else\ Table\fi}%
7   \def\partautorefname{\if@RTL else\ Part\fi}%
8   \def\appendixautorefname{\if@RTL else\ Appendix\fi}%
9   \def\chapterautorefname{\if@RTL else\ chapter\fi}%
10  \def\sectionautorefname{\if@RTL else\ section\fi}%
11  \def\subsectionautorefname{\if@RTL else\ subsection\fi}%
12  \def\subsubsectionautorefname{\if@RTL else\ subsubsection\fi}%
13  \def\paragraphautorefname{\if@RTL else\ paragraph\fi}%
14  \def\ subparagraphautorefname{\if@RTL else\ subparagraph\fi}%
15  \def\FancyVerbLineautorefname{\if@RTL else\ line\fi}%
16  \def\theoremautorefname{\if@RTL else\ Theorem\fi}%
17  \def\pageautorefname{\if@RTL else\ page\fi}%
18 \AtBeginDocument{%
19 \let\HyOrg@appendix\appendix
20 \def\appendix{%
21   \ltx@ifundefined{chapter}%
22     {\gdef\theHsection{\Alph{section}}}%
23     {\gdef\theHchapter{\Alph{chapter}}}%
24   \xdef\Hy@chapapp{\Hy@appendixstring}%
25   \HyOrg@appendix
26 }
27 }
```

7.29 kashida-xepersian.def

```
1 \ProvidesFile{kashida-xepersian.def}[2010/07/25 v0.1 implementation of Kashida for xepersian packa
2 \chardef\zwj="200D % zero-width joiner
3 \chardef\ksh="0640 % kashida
4
5 \chardef\D=10 % dual-joiner class
6 \chardef\L=11 % lam
7 \chardef\R=12 % right-joiner
8 \chardef\A=13 % alef
9 \chardef\V=256 % vowel or other combining mark (to be ignored)
10
11 \def\kashida{\zwj\nobreak \setbox0=\hbox{\ksh}%
12   \leaders\hrule height\ht0 \hskip0pt plus 0.5em \zwj}
13
14 \def\setclass#1#2{\def\theclass{#1}\def\charlist{#2}%
15   \expandafter\dosetclass\charlist,\end}
16 \def\dosetclass#1,#2\end{%
17   \def\test{#1}\def\charlist{#2}%
18 }
```

```

18 \ifx\test\empty\let\next\finishsetclass
19 \else \XeTeXcharclass "\test = \thechar
20     \let\next\dosetclass \fi
21 \expandafter\next\charlist,,\end}
22 \def\finishsetclass#1,,\end{[]}
23
24 \setclass \A {0622,0623,0625,0627}
25 \setclass \R {0624,0629,062F,0630,0631,0632,0648,0698}
26 \setclass \D {0626,0628,062A,062B,062C,062D,062E}
27 \setclass \D {0633,0634,0635,0636,0637,0638,0639,063A}
28 \setclass \D {0640,0641,0642,0643,0645,0646,0647,0649,064A}
29 \setclass \D {067E,0686,06A9,06AF,06CC}
30 \setclass \L {0644}
31 \setclass \V {064B,064C,064D,064E,064F,0650,0651,0652}
32
33 \XeTeXinterchartoks \D \D = {\kashida}
34 \XeTeXinterchartoks \L \D = {\kashida}
35 \XeTeXinterchartoks \D \L = {\kashida}
36 \XeTeXinterchartoks \L \L = {\kashida}
37 \XeTeXinterchartoks \D \R = {\kashida}
38 \XeTeXinterchartoks \D \A = {\kashida}
39 \XeTeXinterchartoks \L \R = {\kashida}
40 \XeTeXinterchartoks \L \A = {}
41
42 \XeTeXinterchartokenstate=1

```

7.30 listings-xepersian.def

```

1 \ProvidesFile{listings-xepersian.def}[2010/07/25 v0.2 bilingual captions for listings package]
2 \def\lstlistingname{\if@RT \else\ Listing\fi}
3 \def\lstlistlistingname{\if@RTL \else\ Listings\fi}

```

7.31 loadingorder-bidi-xepersian.def

```

1 \ProvidesFile{loadingorder-bidi-xepersian.def}[2010/07/25 v0.2 making sure that xepersian is the last loaded package]
2 \bidi@isloaded{algorithmic}
3 \bidi@isloaded{algorithm}
4 \bidi@isloaded{backref}
5 \bidi@isloaded{enumerate}
6 \bidi@isloaded{tocloft}
7 \AtBeginDocument{
8   \if@bidi@algorithmicloaded@\else
9     \bidi@isloaded[\PackageError{xepersian}{Oops! you have loaded package algorithmic after xepersian}]
10   \fi%
11   \if@bidi@algorithmloaded@\else
12     \bidi@isloaded[\PackageError{xepersian}{Oops! you have loaded package algorithm after xepersian}]
13   \fi%
14   \if@bidi@backrefloaded@\else
15     \bidi@isloaded[\PackageError{xepersian}{Oops! you have loaded package backref after xepersian}]
16   \fi%
17   \if@bidi@enumerateloaded@\else

```

```

18 \bidi@isloaded[\PackageError{xepersian}{Oops! you have loaded package enumerate after xepersian}]
19 \fi%
20 \if@bidi@tocloftloaded@else
21 \bidi@isloaded[\PackageError{xepersian}{Oops! you have loaded package tocloft after xepersian}]
22 \fi%
23 }

```

7.32 **localise-xepersian.def**

```

1 \ProvidesFile{localise-xepersian.def}[2010/07/25 v0.2a Persian localisation of LaTeX2e]
2 \newcommand{\makezwnjletter}{\catcode`=11\relax}
3 \makezwnjletter
4 \newcommand*{\eqcommand}[2]{%
5 \expandafter\@ifdefinable \csname#1\endcsname{%
6 \expandafter\let\csname#1\expandafter\endcsname\csname#2\endcsname}%
7 \newcommand*{\eqenvironment}[2]{\newenvironment{#1}{\csname#2\endcsname}{\csname end#2\endcsname}%
8 \input{commands-ltx.def}%
9 \input{commands-xepersian.def}%
10 \input{environments-ltx.def}%
11 \input{environments-xepersian.def}%
12 \input{messages-localise.def}%
13 \input{misc-localise-xepersian.def}%
14 \input{packages-localise-xepersian.def}%

```

7.33 **memoir-xepersian.def**

```

1 \ProvidesFile{memoir-xepersian.def}[2010/07/25 v0.1 adaptations for memoir class]
2 \renewcommand{\memfront}{%
3 \smemfront\pagenumbering{harfi}}
4 \renewcommand{\setthesesection}{\thechapter\SepMark\harfi{section}}
5 \renewcommand*{\thebook}{\tartibi{c@book}}
6 \renewcommand*{\thepart}{\tartibi{c@part}}
7 \renewcommand{\appendix}{\par
8 \setcounter{chapter}{0}%
9 \setcounter{section}{0}%
10 \gdef\chapapp{\appendixname}%
11 \gdef\thechapter{\harfi{c@chapter}}%
12 \anappendixtrue}

```

7.34 **messages-localise.def**

```
1 messages} \localise.def}[2011/01/01 v0.1 localising LaTeX2e messages]
```

7.35 **minitoc-xepersian.def**

```

1 \ProvidesFile{minitoc-xepersian.def}[2010/07/25 v0.1 bilingual captions for minitoc package]
2 \def\ptctitle{\if@RTL \else\ Table of Contents\fi}%
3 \def\plftitle{\if@RTL \else\ List of Figures\fi}%
4 \def\plttitle{\if@RTL \else\ List of Tables\fi}%
5 \def\mtctitle{\if@RTL \else\ Contents\fi}%
6 \def\mlftitle{\if@RTL \else\ Figures\fi}%
7 \def\mlttitle{\if@RTL \else\ Tables\fi}%
8 \def\stctitle{\if@RTL \else\ Contents\fi}%

```

```

9 \def\slftitle{\if@RTL else\    Figures\fi}%
10 \def\sltttitle{\if@RTL else\   Tables\fi}%

```

7.36 misc-localise-xepersian.def

```

1 \ProvidesFile{misc-localise-xepersian.def}[2011/01/01 v0.1 miscellaneous Persian localisation of
2 %}1#  \
3     \@  \      @  \      \
4     \1#  \
5     \1# @\
6     \1# @\
7 {\@  \      \
8 %}2#1# @\ \
9 %1#  \      @\      \      \ \      \
10    \2#  \      @\      \
11 {{2#1#  \}}
12 undefined\      \

```

7.37 multicol-xepersian.def

```

1 \ProvidesFile{multicol-xepersian.def}[2010/07/25 v0.1 adaptations for multicol package]
2 \long\def\@footnotetext#1{%
3     \begingroup
4     \setbox\footins
5     \vbox{\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi\reset@font\footnotesize
6     \interlinepenalty\interfootnotelinepenalty
7     \splittopskip\footnotesep
8     \splitmaxdepth \dp\strutbox \floatingpenalty \OMM
9     \hsize\textwidth \parboxrestore
10    \bidi@footnotetext@dir{#1}%
11    \protected@edef\@currentlabel{\csname p@footnote\endcsname\@thefnmark}\@makefntext
12    {\rule{\z@}{\footnotesep}\ignorespaces\if@RTL@footnote#1\else\latinfont#1\fi\strut}}%
13    \bidi@footnotetext@after
14    \insert\footins{\unvbox\footins}%
15    \endgroup
16 \long\def\@RTLfootnotetext#1{%
17     \begingroup
18     \setbox\footins
19     \vbox{\@RTLtrue\reset@font\footnotesize
20     \interlinepenalty\interfootnotelinepenalty
21     \splittopskip\footnotesep
22     \splitmaxdepth \dp\strutbox \floatingpenalty \OMM
23     \hsize\textwidth \parboxrestore
24     \bidi@footnotetext@dir{#1}%
25     \protected@edef\@currentlabel{\csname p@footnote\endcsname\@thefnmark}\@makefntext
26     {\rule{\z@}{\footnotesep}\ignorespaces\persianfont #1\strut}}%
27    \bidi@footnotetext@after
28    \insert\footins{\unvbox\footins}%
29    \endgroup}
30 \long\def\@LTRfootnotetext#1{%
31     \begingroup

```

```

32 \setbox\footins
33 \vbox{\@RTLfalse\reset@font\footnotesize
34 \interlinepenalty\interfootnotelinepenalty
35 \splittopskip\footnotesep
36 \splitmaxdepth \dp\strutbox \floatingpenalty \OMM
37 \hsize\textwidth \parboxrestore
38 \bidi@footnotetext@dir{#1}%
39 \protected@edef\@currentlabel{\csname p@footnote\endcsname\@thefnmark}\@makefntext
40 {\rule{\z@}{\footnotesep}\ignorespaces\latinfont #1\strut}%
41 \bidi@footnotetext@after
42 \insert\footins{\unvbox\footins}%
43 \endgroup}
44 \long\def\@mpfootnotetext#1{%
45 \global\setbox\@mpfootins\vbox{\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
46 \unvbox\@mpfootins
47 \reset@font\footnotesize
48 \hsize\textwidth
49 \parboxrestore
50 \protected@edef\@currentlabel
51 {\csname p@\@mpfootnote\endcsname\@thefnmark}%
52 \color@begingroup
53 \bidi@footnotetext@dir{#1}%
54 \ifnum\c@\@mpfootnote=1\if@RTL\global\let\bidi@footnoterule\right@footnote\else\global\let\bidi@footnoterule\left@footnote\fi\finalstrut\strutbox}%
55 \else\@makefntext{%
56 \rule{\z@}{\footnotesep}\ignorespaces\if@RTL@footnote#1\else\latinfont#1\fi\finalstrut\strutbox}%
57 \color@endgroup}%
58 \long\def\@mpRTLfootnotetext#1{%
59 \global\setbox\@mpfootins\vbox{\@RTLtrue%
60 \unvbox\@mpfootins
61 \reset@font\footnotesize
62 \hsize\textwidth
63 \parboxrestore
64 \protected@edef\@currentlabel
65 {\csname p@\@mpfootnote\endcsname\@thefnmark}%
66 \color@begingroup
67 \bidi@footnotetext@dir{#1}%
68 \ifnum\c@\@mpfootnote=1\if@RTL\global\let\bidi@footnoterule\right@footnote\else\global\let\bidi@footnoterule\left@footnote\fi\finalstrut\strutbox}%
69 \else\@makefntext{%
70 \rule{\z@}{\footnotesep}\ignorespaces\persianfont#1\finalstrut\strutbox}%
71 \color@endgroup}%
72 \long\def\@mpLTRfootnotetext#1{%
73 \global\setbox\@mpfootins\vbox{\@RTLfalse%
74 \unvbox\@mpfootins
75 \reset@font\footnotesize
76 \hsize\textwidth
77 \parboxrestore
78 \protected@edef\@currentlabel
79 {\csname p@\@mpfootnote\endcsname\@thefnmark}%
80 \color@begingroup
81 \bidi@footnotetext@dir{#1}}

```

```

82     \ifnum\c@mpfootnote=1\if@RTL\global\let\bidi@footnoterule\right@footnote\else\global\let\bidi@footnoterule\left@footnote\fi%
83         \@makefntext{%
84             \rule{z@\footnotesep}{\ignorespaces\latinfont#1\finalstrut\strutbox}\%%
85         }\color@endgroup\}}}

```

7.38 packages-localise-xepersian.def

```

1 packages}           \-localise-xepersian.def}[2011/01/01 v0.1 localising LaTeXe Packages]
2 color}   \}{color}      @\-localise.def\}}\}

```

7.39 parsidigits.map

```

1 ; Vafa Khalighi ...
2 LHSName "Digits"
3 RHSName "ParsiDigits"
4
5 pass(Unicode)
6 U+0030 <> U+06F0 ;
7 U+0031 <> U+06F1 ;
8 U+0032 <> U+06F2 ;
9 U+0033 <> U+06F3 ;
10 U+0034 <> U+06F4 ;
11 U+0035 <> U+06F5 ;
12 U+0036 <> U+06F6 ;
13 U+0037 <> U+06F7 ;
14 U+0038 <> U+06F8 ;
15 U+0039 <> U+06F9 ;
16
17 U+0644 U+0651 U+064E U+0627 <> U+0644 U+0627 U+0651 U+064E ; lam shadda fatha alif -> lam alif shadda
18 U+0644 U+0651 U+0627 <> U+0644 U+0627 U+0651 ; lam shadda alif -> lam alif shadda
19 U+0644 U+0652 U+0622 <> U+0644 U+0622 U+0652 ; lam sukun alifmadda -> lam alifmadda sukun
20 U+0644 U+0652 U+0623 <> U+0644 U+0623 U+0652 ; lam sukun alifhamzaabove -> lam alifhamzaabove sukun
21 U+0644 U+0652 U+0625 <> U+0644 U+0625 U+0652 ; lam sukun alifhamzabelow -> lam alifhamzabelow sukun
22 U+0644 U+0651 U+064B U+0627 <> U+0644 U+0627 U+0651 U+064B ; lam shadda fathatan alif -> lam alif shadda
23 U+0644 U+064B U+0627 <> U+0644 U+0627 U+064B ; lam fathatan alif -> lam alif fathatan
24
25 U+002C <> U+060C ; comma -> arabic comma
26 U+003F <> U+061F ; question mark -> arabic qm
27 U+003B <> U+061B ; semicolon -> arabic semicolon
28
29 ; ligatures from Knuth's original CMR fonts
30 U+002D U+002D <> U+2013 ; -- -> en dash
31 U+002D U+002D U+002D <> U+2014 ; --- -> em dash
32
33 U+0027 <> U+2019 ; ' -> right single quote
34 U+0027 U+0027 <> U+201D ; '' -> right double quote
35 U+0022 > U+201D ; " -> right double quote
36
37 U+0060 <> U+2018 ; ` -> left single quote
38 U+0060 U+0060 <> U+201C ; `` -> left double quote
39

```

```

40 U+0021 U+0060 <> U+00A1 ; !` -> inverted exclam
41 U+003F U+0060 <> U+00BF ; ?` -> inverted question
42
43 ; additions supported in T1 encoding
44 U+002C U+002C <> U+201E ; , -> DOUBLE LOW-9 QUOTATION MARK
45 U+003C U+003C <> U+00AB ; << -> LEFT POINTING GUILLEMET
46 U+003E U+003E <> U+00BB ; >> -> RIGHT POINTING GUILLEMET

```

7.40 rapport1-xepersian.def

```

1 \ProvidesFile{rapport1-xepersian.def}[2010/07/25 v0.1 adaptations for rapport1 class]
2 \renewcommand*\thepart{\@tartibi\c@part}
3 \renewcommand*\appendix{\par
4   \setcounter{chapter}{0}%
5   \setcounter{section}{0}%
6   \gdef\@chapapp{\appendixname}%
7   \gdef\thechapter{\@harfi\c@chapter}}

```

7.41 rapport3-xepersian.def

```

1 \ProvidesFile{rapport3-xepersian.def}[2010/07/25 v0.2 adaptations for rapport3 class]
2 \renewcommand*\thepart{\@tartibi\c@part}
3 \renewcommand*\appendix{\par
4   \setcounter{chapter}{0}%
5   \setcounter{section}{0}%
6   \gdef\@chapapp{\appendixname}%
7   \gdef\thechapter{\@harfi\c@chapter}}

```

7.42 refrep-xepersian.def

```

1 \ProvidesFile{refrep-xepersian.def}[2010/07/25 v0.2 adaptations for refrep class]
2 \renewcommand \thepart {\@tartibi\c@part}
3 \renewcommand\appendix{\par
4   \setcounter{chapter}{0}%
5   \setcounter{section}{0}%
6   \gdef\@chapapp{\appendixname}%
7   \gdef\thechapter{\@harfi\c@chapter}
8 }%end appendix

```

7.43 report-xepersian.def

```

1 \ProvidesFile{report-xepersian.def}[2010/07/25 v0.2 adaptations for standard report class]
2 \renewcommand \thepart {\@tartibi\c@part}
3 \renewcommand\appendix{\par
4   \setcounter{chapter}{0}%
5   \setcounter{section}{0}%
6   \gdef\@chapapp{\appendixname}%
7   \gdef\thechapter{\@harfi\c@chapter}
8 }%end appendix

```

7.44 scrartcl-xepersian.def

```

1 \ProvidesFile{scrartcl-xepersian.def}[2010/07/25 v0.2 adaptations for scrartcl class]

```

```

2 \renewcommand*{\thepart}{\@tartibi\c@part}
3 \renewcommand*{\appendix}{\par%
4   \setcounter{section}{0}%
5   \setcounter{subsection}{0}%
6   \gdef\thesection{\@harfi\c@section}%
7   \csname appendixmore\endcsname
8 }
9 \renewcommand*{\@@maybeautodot}[1]{%
10   \ifx #1\@stop\let\@@maybeautodot\relax
11   \else
12     \ifx #1\harfi \autodottrue\fi
13     \ifx #1\adadi \autodottrue\fi
14     \ifx #1\tartibi \autodottrue\fi
15     \ifx #1\Alpha \autodottrue\fi
16     \ifx #1\alpha \autodottrue\fi
17     \ifx #1\Roman \autodottrue\fi
18     \ifx #1\roman \autodottrue\fi
19     \ifx #1\@harfi \autodottrue\fi
20     \ifx #1\@adadi \autodottrue\fi
21     \ifx #1\@tartibi \autodottrue\fi
22     \ifx #1\@Alpha \autodottrue\fi
23     \ifx #1\@alpha \autodottrue\fi
24     \ifx #1\@Roman \autodottrue\fi
25     \ifx #1\@roman \autodottrue\fi
26     \ifx #1\@romannumeral \autodottrue\fi
27   \fi
28   \@@maybeautodot
29 }

```

7.45 scrbook-xepersian.def

```

1 \ProvidesFile{scrbook-xepersian.def}[2010/07/25 v0.2 adaptations for scrbook class]
2 \renewcommand*{\frontmatter}{%
3   \if@twoside\cleardoubleoddpage\else\clearpage\fi
4   \mainmatterfalse\pagenumbering{harfi}%
5 }
6 \renewcommand*{\thepart}{\@tartibi\c@part}
7 \renewcommand*{\appendix}{\par%
8   \setcounter{chapter}{0}%
9   \setcounter{section}{0}%
10  \gdef\@chapapp{\appendixname}%
11  \gdef\thechapter{\@harfi\c@chapter}%
12  \csname appendixmore\endcsname
13 }
14 \renewcommand*{\@@maybeautodot}[1]{%
15   \ifx #1\@stop\let\@@maybeautodot\relax
16   \else
17     \ifx #1\harfi \autodottrue\fi
18     \ifx #1\adadi \autodottrue\fi
19     \ifx #1\tartibi \autodottrue\fi

```

```

20   \ifx #1\Alph \@autodottrue\fi
21   \ifx #1\alph \@autodottrue\fi
22   \ifx #1\Roman \@autodottrue\fi
23   \ifx #1\roman \@autodottrue\fi
24   \ifx #1@harfi \@autodottrue\fi
25   \ifx #1@adadi \@autodottrue\fi
26   \ifx #1@tartibi \@autodottrue\fi
27   \ifx #1@Alpha \@autodottrue\fi
28   \ifx #1@alph \@autodottrue\fi
29   \ifx #1@Roman \@autodottrue\fi
30   \ifx #1@roman \@autodottrue\fi
31   \ifx #1@romannumeral \@autodottrue\fi
32   \fi
33   \@@maybeautodot
34 }

```

7.46 scrreprt-xepersian.def

```

1 \ProvidesFile{scrreprt-xepersian.def}[2010/07/25 v0.2 adaptations for scrreprt class]
2 \renewcommand*{\thepart}{\@tartibi\c@part}
3 \renewcommand*\appendix{\par%
4   \setcounter{chapter}{0}%
5   \setcounter{section}{0}%
6   \gdef\chapapp{\appendixname}%
7   \gdef\thechapter{\@harfi\c@chapter}%
8   \csname appendixmore\endcsname
9 }
10 \renewcommand*{\@@maybeautodot}[1]{%
11   \ifx #1@stop\let\@@maybeautodot\relax
12   \else
13     \ifx #1@harfi \@autodottrue\fi
14     \ifx #1@adadi \@autodottrue\fi
15     \ifx #1@tartibi \@autodottrue\fi
16     \ifx #1@Alpha \@autodottrue\fi
17     \ifx #1@alph \@autodottrue\fi
18     \ifx #1@Roman \@autodottrue\fi
19     \ifx #1@roman \@autodottrue\fi
20     \ifx #1@harfi \@autodottrue\fi
21     \ifx #1@adadi \@autodottrue\fi
22     \ifx #1@tartibi \@autodottrue\fi
23     \ifx #1@Alpha \@autodottrue\fi
24     \ifx #1@alph \@autodottrue\fi
25     \ifx #1@Roman \@autodottrue\fi
26     \ifx #1@roman \@autodottrue\fi
27     \ifx #1@romannumeral \@autodottrue\fi
28   \fi
29   \@@maybeautodot
30 }

```

7.47 tocloft-xepersian.def

```

1 \ProvidesFile{tocloft-xepersian.def}[2010/07/25 v0.1 bilingual captions for tocloft package]
2 \renewcommand*{\cftchapname}{\if@RTL else\ chapter\fi}
3 \renewcommand*{\cftsecname}{\if@RTL else\ section\fi}
4 \renewcommand*{\cftsubsecname}{\if@RTL else\ subsection\fi}
5 \renewcommand*{\cftsubsubsecname}{\if@RTL else\ subsubsection\fi}
6 \renewcommand*{\cftparaname}{\if@RTL else\ paragraph\fi}
7 \renewcommand*{\cftsubparaname}{\if@RTL else\ subparagraph\fi}
8 \renewcommand*{\cftfigname}{\if@RTL else\ figure\fi}
9 \renewcommand*{\cftsubfigname}{\if@RTL else\ subfigure\fi}
10 \renewcommand*{\cfttabname}{\if@RTL else\ table\fi}
11 \renewcommand*{\cftsubtabname}{\if@RTL else\ subtable\fi}

```

7.48 xepersian.sty

```

1 \NeedsTeXFormat{LaTeX2e}
2 \def\xepersianversion{v1.1.0 1.2}
3 \def\xepersiancommit{commit 80}
4 \def\xepersiandate{2011/01/01}
5 \ProvidesPackage{xepersian}[\xepersiandate\space \xepersianversion\space <\xepersiancommit>
6 Persian typesetting in XeLaTeX]
7 \RequirePackage{fontspec}
8 \RequirePackage{xepersian-persiancal}
9 \RequirePackage{xepersian-mathsigitspec}
10 \RequirePackage{etoolbox}
11 \RequirePackage[RTLdocument]{bidi}
12 \edef\xepersianinfo{%
13 xepersian package (Persian for LaTeX over XeTeX)^^J
14 Description: The package supports Persian^^J
15 typesetting, using fonts provided in the distribution.^^J
16 Copyright © 2008–2011 Vafa Khalighi^^J
17 \xepersianversion, <\xepersiancommit>, \xepersiandate^^J
18 License: LaTeX Project Public License, version 1.3c or higher (your choice)^^J
19 Home: http://bitbucket.org/vafa/xepersian^^J
20 Location on CTAN: /macros/xetex/latex/xepersian}
21 \typeout{\xepersianinfo}
22 \edef\xepersian@everyjob{\the\everyjob}
23 \everyjob{\xepersian@everyjob\typeout{\xepersianinfo}}
24 \if@developmentversion
25   \PackageWarningNoLine{xepersian}{Thanks for testing the development version of xepersian package}
26 \fi
27 \def\prq{{\color{purple}\texttt{<>}}}
28 \def\plq{{\color{purple}\texttt{<>}}}
29 \newfontscript{Parsi}{arab}
30 \newfontlanguage{Parsi}{FAR}
31 \newcommand*\settextfont[2][]{\%}
32 \newfontfamily\persianfont[Script=Parsi,Language=Parsi,Mapping=parsidigits,#1]{#2}
33 \let\rmdefault\zf@family
34   \normalfont
35 }
36 \newcommand*\setlatintextfont[2][]{\%}

```

```

37 \newfontfamily\latinfont[Mapping=tex-text,#1]{#2}
38 }
39 \setlatintextfont[ExternalLocation,BoldFont={lmroman10-bold},BoldItalicFont={lmroman10-bolditalic}]
40 \let\setlatinsansfont\setsansfont
41 \let\setlatinmonofont\setmonofont
42 \newcommand*\defpersianfont[1]{%
43   \@ifnextchar[\{\defpersianfont@i#1}{\defpersianfont@i#1[]}\}%
44 \def\defpersianfont@i#1[#2]{#3}%
45   \zf@fontspec{Script=Parsi,Language=Parsi,Mapping=parsidigits,#2}{#3}%
46   \edef\@tempa{%
47     \noexpand\ DeclareRobustCommand\noexpand#1
48     {\noexpand\fontfamily{\zf@family}\noexpand\selectfont}}%
49   \@tempa}%
50 \newcommand*\deflatinfont[1]{%
51   \@ifnextchar[\{\deflatinfont@i#1}{\deflatinfont@i#1[]}\}%
52 \def\deflatinfont@i#1[#2]{#3}%
53   \zf@fontspec{Mapping=tex-text,#2}{#3}%
54   \edef\@tempa{%
55     \noexpand\ DeclareRobustCommand\noexpand#1
56     {\noexpand\fontfamily{\zf@family}\noexpand\selectfont}}%
57   \@tempa}%
58 \newcommand\persiansffamily{}%
59 \newcommand\persianttfamily{}%
60 \newcommand\iranicfamily{}%
61 \newcommand\navarfam{}%
62 \newcommand\pookfam{}%
63 \newcommand\sayehfam{}%
64 \DeclareRobustCommand\persiansffamily
65   {\not@math@\alphabet\persiansffamily\mathpersiansf
66   \fontfamily\persiansffamily\selectfont}%
67 \DeclareRobustCommand\persianttfamily
68   {\not@math@\alphabet\persianttfamily\mathpersiantt
69   \fontfamily\persianttfamily\selectfont}%
70 \DeclareRobustCommand\iranicfamily
71   {\not@math@\alphabet\iranicfamily\mathiranic
72   \fontfamily\iranicfamily\selectfont}%
73 \DeclareRobustCommand\navarfam
74   {\not@math@\alphabet\navarfam\mathnavar
75   \fontfamily\navarfam\selectfont}%
76 \DeclareRobustCommand\pookfam
77   {\not@math@\alphabet\pookfam\mathpook
78   \fontfamily\pookfam\selectfont}%
79 \DeclareRobustCommand\sayehfam
80   {\not@math@\alphabet\sayehfam\mathsayeh
81   \fontfamily\sayehfam\selectfont}%
82 \DeclareTextFontCommand{\textpersiansf}{\persiansffamily}%
83 \DeclareTextFontCommand{\textpersiantt}{\persianttfamily}%
84 \DeclareTextFontCommand{\textiranic}{\iranicfamily}%
85 \DeclareTextFontCommand{\textnavar}{\navarfam}%
86 \DeclareTextFontCommand{\textpook}{\pookfam}%

```

```

87 \DeclareTextFontCommand{\textsayeh}{\sayehfamily}
88 \newcommand*\setpersiansansfont[2][]{%
89   \zf@fontspec{Script=Parsi,Language=Parsi,Mapping=parsidigits,#1}{#2}%
90   \let\persiansfdefault\zf@family
91   \normalfont
92 \newcommand*\setpersianmonofont[2][]{%
93   \zf@fontspec{Script=Parsi,Language=Parsi,Mapping=parsidigits,#1}{#2}%
94   \let\persianttdefault\zf@family
95   \normalfont
96 \newcommand*\setnavarfont[2][]{%
97   \zf@fontspec{Script=Parsi,Language=Parsi,Mapping=parsidigits,#1}{#2}%
98   \let\navardefault\zf@family
99   \normalfont
100 \newcommand*\setpookfont[2][]{%
101   \zf@fontspec{Script=Parsi,Language=Parsi,Mapping=parsidigits,#1}{#2}%
102   \let\pookdefault\zf@family
103   \normalfont
104 \newcommand*\setsayehfont[2][]{%
105   \zf@fontspec{Script=Parsi,Language=Parsi,Mapping=parsidigits,#1}{#2}%
106   \let\sayehdefault\zf@family
107   \normalfont
108 \newcommand*\setiranicfont[2][]{%
109   \zf@fontspec{Script=Parsi,Language=Parsi,Mapping=parsidigits,#1}{#2}%
110   \let\iranicdefault\zf@family
111   \normalfont
112 \def\resetlatinfont{%
113   \let\normalfont\latinfont%
114   \latinfont
115 \def\setpersianfont{%
116   \let\normalfont\persianfont%
117   \persianfont
118 \def\lr#1{\LRE{\latinfont#1}}
119 \def\rl#1{\RLE{\persianfont#1}}
120 \def\latin{\LTR\LatinAlphs\@Latintrue\@RTL@footnotefalse\resetlatinfont}
121 \def\endlatin{\endLTR}
122 \def\persian{\RTL\PersianAlphs\@RTL@footnotetrue\setpersianfont}
123 \def\endpersian{\endRTL}
124 \let\originaltoday=\today
125 \def\today{\lr{\originaltoday}}
126 \let\latintoday\today
127 \def\today{\rl{\persian\today}}
128 \DeclareRobustCommand\Latincite{%
129   \@ifnextchar [{\@tempswatrue\@Latincitex}{\@tempswafalse\@Latincitex[]}]
130 \def\@Latincitex[#1]{\leavevmode
131   \let\@citea\empty
132   \def\@cited{\@for\@citeb:=#2\do
133     {\@citea\def\@citea{\lr{,\ }}\penalty\@m\ }%
134     \edef\@citeb{\expandafter\@firstofone\@citeb\empty}%
135     \if@filesw\immediate\write\auxout{\string\citation{\@citeb}}\fi
136     \ifundefined{b@\@citeb}{\hbox{\reset@font\bfseries\lr{?}}}\fi

```

```

137      \G@refundefinedtrue
138      \@latex@warning
139          {Citation `@\citeb' on page \thepage \space undefined}%
140          {\@cite@ofmt{\lr{\csname b@\@citeb\endcsname}}}{\#1}}
141 \def\@outputpage{%
142 \begingroup % the \endgroup is put in by \aftergroup
143 \let \protect \noexpand
144 \resetactivechars
145 \global\let\@if@newlist\if@newlist
146 \global\@newlistfalse
147 \parboxrestore
148 \shipout \vbox{%
149   \set@typeset@protect
150   \aftergroup \endgroup
151   \aftergroup \set@typeset@protect
152           % correct? or just restore by ending
153           % the group?
154 \if@specialpage
155   \global\@specialpagefalse\@nameuse{ps@\@specialstyle}%
156 \fi
157 \if@twoside
158   \ifodd\count\z@ \let\@thehead\@oddhead \let\@thefoot\@oddfoot
159     \let\@themargin\oddsidemargin
160   \else \let\@thehead\@evenhead
161     \let\@thefoot\@evenfoot \let\@themargin\evensidemargin
162 \fi
163 \ifx\@thehead\empty \let\@thehead\hfil \fi
164 \ifx\@thefoot\empty \let\@thefoot\hfil \fi
165 \else %% not @twoside
166 \ifx\@oddhead\empty \let\@thehead\hfil \fi
167 \ifx\@oddfoot\empty \let\@thefoot\hfil \fi
168 \fi
169 \reset@font
170 \normalsize
171 \if@RTLmain\setpersianfont\else\resetlatinfont\fi
172 \normalsfcodes
173 \let\label\gobble
174 \let\index\gobble
175 \let\glossary\gobble
176 \baselineskip\z@skip \lineskip\z@skip \lineskiplimit\z@
177   \begingroup
178   \vskip \topmargin
179   \moveright\@themargin \vbox {%
180     \setbox\@tempboxa \vbox to\headheight{%
181       \vfil
182       \color@hbox
183         \normalcolor
184       \hb@xt@{\textwidth}{\if@RTLmain\beginR\fi\@thehead\if@RTLmain\endR\fi}%
185       \color@endbox
186     }% %% 22 Feb 87

```



```

287     \let\@Alph\@latinAlph%
288 }
289 \PersianAlphs
290 \@ifdefinitionfileloaded{loadingorder-bidi}{\input{loadingorder-bidi-xepersian.def}}{}
291 \@ifpackageloaded{listings}{\input{listings-xepersian.def}}{}
292 \@ifpackageloaded{algorithmic}{\input{algorithmic-xepersian.def}}{}
293 \@ifpackageloaded{algorithm}{\input{algorithm-xepersian.def}}{}
294 \@ifpackageloaded{backref}{\input{backref-xepersian.def}}{}
295 \@ifpackageloaded{flowfram}{\input{flowfram-xepersian.def}}{}
296 \@ifpackageloaded{bidi}{\input{footnote-bidi-xepersian.def}}{}
297 \@ifpackageloaded{bidicode}{\input{bidicode-xepersian.def}}{}
298 \@ifpackageloaded{breqn}{\input{breqn-xepersian.def}}{}
299 \@ifpackageloaded{enumerate}{\input{enumerate-xepersian.def}}{}
300 \@ifpackageloaded{hyperref}{\input{hyperref-xepersian.def}}{}
301 \@ifpackageloaded{minitoc}{\input{minitoc-xepersian.def}}{}
302 \@ifpackageloaded{multicol}{\input{multicol-xepersian.def}}{}
303 \@ifpackageloaded{tocloft}{\@ifclassloaded{memoir}{}{\input{tocloft-xepersian.def}}}={}
304 \@ifclassloaded{article}{\input{article-xepersian.def}}{}
305 \@ifclassloaded{extarticle}{\input{extarticle-xepersian.def}}{}
306 \@ifclassloaded{artikel1}{\input{artikel1-xepersian.def}}{}
307 \@ifclassloaded{artikel2}{\input{artikel2-xepersian.def}}{}
308 \@ifclassloaded{artikel3}{\input{artikel3-xepersian.def}}{}
309 \@ifclassloaded{amsart}{\input{amsart-xepersian.def}}{}
310 \@ifclassloaded{bidimoderncv}{\input{bidimoderncv-xepersian.def}}{}
311 \@ifclassloaded{report}{\input{report-xepersian.def}}{}
312 \@ifclassloaded{extreport}{\input{extreport-xepersian.def}}{}
313 \@ifclassloaded{rapport1}{\input{rapport1-xepersian.def}}{}
314 \@ifclassloaded{rapport3}{\input{rapport3-xepersian.def}}{}
315 \@ifclassloaded{scrartcl}{\input{scrartcl-xepersian.def}}{}
316 \@ifclassloaded{scrbook}{\input{scrbook-xepersian.def}}{}
317 \@ifclassloaded{scrreprt}{\input{scrreprt-xepersian.def}}{}
318 \@ifclassloaded{amsbook}{\input{amsbook-xepersian.def}}{}
319 \@ifclassloaded{boek3}{\input{boek3-xepersian.def}}{}
320 \@ifclassloaded{boek}{\input{boek-xepersian.def}}{}
321 \@ifclassloaded{bookest}{\input{bookest-xepersian.def}}{}
322 \@ifclassloaded{extbook}{\input{extbook-xepersian.def}}{}
323 \@ifclassloaded{book}{\input{book-xepersian.def}}{}
324 \@ifclassloaded{refrep}{\input{refrep-xepersian.def}}{}
325 \@ifclassloaded{memoir}{\input{memoir-xepersian.def}}{}
326 \DeclareOption{Kashida}{\input{kashida-xepersian.def}}
327 \DeclareOption{localise}{\input{localise-xepersian.def}}
328 \ExecuteOptions{localise}
329 \ProcessOptions

```

7.49 xepersian-magazine.cls

```

1 \NeedsTeXFormat{LaTeX2e}
2 \ProvidesClass{xepersian-magazine}[2010/07/25 v0.2 Typesetting Persian magazines in XeLaTeX]
3 \RequirePackage{ifthen}
4 \newlength{\xepersian@imgsize}

```

```

5 \newlength{\xepersian@coltitsize}
6 \newlength{\xepersian@pageneed}
7 \newlength{\xepersian@pageleft}
8 \newlength{\xepersian@indexwidth}
9 \newcommand{\xepersian@ncolumns}{0}
10 \newlength{\columnlines}
11 \setlength{\columnlines}{0 pt} % no lines by default
12 \newboolean{xepersian@hyphenatedtitles}
13 \setboolean{xepersian@hyphenatedtitles}{true}
14 \newboolean{xepersian@ninepoints}
15 \setboolean{xepersian@ninepoints}{false}
16 \newboolean{xepersian@showgrid}
17 \setboolean{xepersian@showgrid}{false}
18 \newboolean{xepersian@a3paper}
19 \setboolean{xepersian@a3paper}{false}
20 \newboolean{xepersian@insidefrontpage}
21 \setboolean{xepersian@insidefrontpage}{false}
22 \newboolean{xepersian@insideweather}
23 \setboolean{xepersian@insideweather}{false}
24 \newboolean{xepersian@insideindex}
25 \setboolean{xepersian@insideindex}{false}
26 \newcount\xepersian@gridrows
27 \newcount\xepersian@gridcolumns
28 \xepersian@gridrows=40
29 \xepersian@gridcolumns=50
30 \newcount\minraggedcols
31 \minraggedcols=5
32 \DeclareOption{10pt}{\PassOptionsToClass{10pt}{article}}
33 \DeclareOption{11pt}{\PassOptionsToClass{11pt}{article}}
34 \DeclareOption{12pt}{\PassOptionsToClass{12pt}{article}}
35 \DeclareOption{twocolumn}{%
36 {\ClassWarning{xepersian-magazine}{Option 'twocolumn' not available for xepersian-magazine.}}%
37 \DeclareOption{notitlepage}{%
38 {\ClassWarning{xepersian-magazine}{Option 'notitlepage' not available for xepersian-magazine.}}%
39 \DeclareOption{twoside}{%
40 {\ClassWarning{xepersian-magazine}{Option 'twoside' not available for xepersian-magazine.}}%
41 \DeclareOption{9pt}{\setboolean{xepersian@ninepoints}{true}}
42 \DeclareOption{hyphenatedtitles}{\setboolean{xepersian@hyphenatedtitles}{false}}
43 \DeclareOption{columnlines}{\setlength{\columnlines}{0.1 pt}}
44 \DeclareOption{showgrid}{\setboolean{xepersian@showgrid}{true}}
45 \DeclareOption{a3paper}{\setboolean{xepersian@a3paper}{true}}
46 \ProcessOptions\relax
47 \LoadClass[10pt, onecolumn, titlepage, a4paper]{article}
48 \RequirePackage{ifxetex}
49 \RequirePackage{multido}
50 \RequirePackage{datetime}
51 \RequirePackage{multicol}
52 \RequirePackage{fancyhdr}
53 \RequirePackage{fancybox}
54 \ifthenelse{\boolean{xepersian@a3paper}}{%

```

```

55 \RequirePackage[a3paper,headsep=0.5cm,vmargin={2cm,2cm},hmargin={1.5cm,1.5cm}]{geometry}
56 }{
57 \RequirePackage[headsep=0.5cm,vmargin={2cm,2cm},hmargin={1.5cm,1.5cm}]{geometry}
58 }
59 \RequirePackage[absolute]{textpos} % absoulte positioning
60 \RequirePackage{hyphenat} % when hyphenate
61 \RequirePackage{lastpage} % to know the last page number
62 \RequirePackage{setspace} % set space between lines
63 \RequirePackage{ragged2e}
64 \newcommand{\raggedFormat}{\RaggedLeft}
65 \AtEndOfClass{\xepersianInit}
66 \ifthenelse{\boolean{xepersian@showgrid}}{%
67 \AtBeginDocument{
68 \grid[show]{\xepersian@gridrows}{\xepersian@gridcolumns}}
69 \advance\minraggedcols by -1
70 }{%
71 \AtBeginDocument{
72 \grid[]{\xepersian@gridrows}{\xepersian@gridcolumns}}
73 \advance\minraggedcols by -1
74 }
75 \ifthenelse{\boolean{xepersian@ninepoints}}{%
76 \renewcommand{\normalsize}{%
77   \@setfontsize{\normalsize}{9pt}{10pt}%
78   \setlength{\abovedisplayskip}{5pt plus 1pt minus .5pt}%
79   \setlength{\belowdisplayskip}{\abovedisplayskip}%
80   \setlength{\abovedisplayshortskip}{3pt plus 1pt minus 2pt}%
81   \setlength{\belowdisplayshortskip}{\abovedisplayshortskip}%
82 }
83 \renewcommand{\tiny}{\@setfontsize{\tiny}{5pt}{6pt}}
84 }
85 \renewcommand{\scriptsize}{\@setfontsize{\scriptsize}{7pt}{8pt}}
86
87 \renewcommand{\small}{%
88   \@setfontsize{\small}{8pt}{9pt}%
89   \setlength{\abovedisplayskip}{4pt plus 1pt minus 1pt}%
90   \setlength{\belowdisplayskip}{\abovedisplayskip}%
91   \setlength{\abovedisplayshortskip}{2pt plus 1pt}%
92   \setlength{\belowdisplayshortskip}{\abovedisplayshortskip}%
93 }
94 \renewcommand{\footnotesize}{%
95   \@setfontsize{\footnotesize}{8pt}{9pt}%
96   \setlength{\abovedisplayskip}{4pt plus 1pt minus .5pt}%
97   \setlength{\belowdisplayskip}{\abovedisplayskip}%
98   \setlength{\abovedisplayshortskip}{2pt plus 1pt}%
99   \setlength{\belowdisplayshortskip}{\abovedisplayshortskip}%
100 }
101 \renewcommand{\large}{\@setfontsize{\large}{11pt}{13pt}}
102 \renewcommand{\Large}{\@setfontsize{\Large}{14pt}{18pt}}
103 \renewcommand{\LARGE}{\@setfontsize{\LARGE}{18pt}{20pt}}
104 \renewcommand{\huge}{\@setfontsize{\huge}{20pt}{25pt}}

```

```

105 \renewcommand{\Huge}{\@setfontsize{\Huge}{25pt}{30pt}}
106 }{%
107 \def\customwwwTxt#1{\gdef\@customwwwTxt{\lr{#1}}}
108 \newcommand{\xepersian@wwwFormat}{\sffamily}
109 \newcommand{\xepersian@www}{%
110 \raisebox{-3pt}{{\xepersian@wwwFormat\@customwwwTxt}}%
111 }
112 \newcommand{\xepersian@edition}{%
113 \newcommand{\editionFormat}{\large\bfseries\textrm}
114 \newcommand{\xepersian@editionLogo}{%
115 \raisebox{-3pt}{\%%
116 {\editionFormat\xepersian@edition}\%%
117 }\%%
118 }
119 \newcommand{\indexFormat}{\large\bfseries}
120 \newcommand{\xepersian@indexFrameTitle}[1]{%
121 {\begin{flushright}{\indexFormat #1}\end{flushright}}%
122 }
123 \newcommand{\indexEntryFormat}{\normalsize}
124 \newcommand{\xepersian@indexEntry}[1]{%
125 {\begin{minipage}{13\TPHorizModule}%
126 {\indexEntryFormat\noindent\ignorespaces{#1}}\%
127 \end{minipage}}%
128 \newcommand{\indexEntrySeparator}{\rule{\xepersian@indexwidth}{.1pt}}%
129 \newcommand{\indexEntryPageTxt}{%
130 \newcommand{\xepersian@indexEntryPage}[1]{%
131 {\indexEntryPageFormat{\indexEntryPageTxt{}-\#1}}\%
132 }
133 \newcommand{\headDateTimeFormat}{}
134 \newcommand{\xepersian@headDateTime}{%
135 \headDateTimeFormat\date{\hspace{5pt}\$parallel\$hspace{5pt}}\%
136 \currenttime \%
137 }
138 \newcommand{\weatherFormat}{\bfseries}
139 \newcommand{\xepersian@weather}[1]{%
140 {\noindent\weatherFormat #1}\%
141 }
142 \newcommand{\weatherTempFormat}{\small}
143 \newcommand{\weatherUnits}{\textdegree{}C}
144 \newcommand{\xepersian@section}[0]{%
145 \newcommand{\xepersian@headleft}{%
146 {\small\bfseries \@custommagazinename} \date{%
147 }
148 \newcommand{\xepersian@headcenter}{%
149 \xepersian@section{}%
150 }
151 \newcommand{\xepersian@headright}{%
152 \small\xepersian@edition\%
153 \hspace*{5pt}\beginL\thepage\ / \ pageref{LastPage}\endL
154 }

```

```

155
156 \newcommand{\heading}[3]{%
157 \renewcommand{\xepersian@headleft}{\beginR#1\endR}%
158 \renewcommand{\xepersian@headcenter}{\beginR#2\endR}%
159 \renewcommand{\xepersian@headright}{\beginR#3\endR}%
160 }
161 \newcommand{\xepersian@footright}{%
162 {\footnotesize\lr{\copyright\ \@customwwwTxt{}}-- - \lr{\XePersian}}%
163 }
164 \newcommand{\xepersian@footcenter}{%
165 }
166 \newcommand{\xepersian@footleft}{%
167 }
168
169 \newcommand{\foot}[3]{%
170 \renewcommand{\xepersian@footleft}{\beginR#1\endR}%
171 \renewcommand{\xepersian@footcenter}{\beginR#2\endR}%
172 \renewcommand{\xepersian@footright}{\beginR#3\endR}%
173 }
174 \newcommand{\firstTitleFormat}{\Huge\bfseries\flushright}
175 \newcommand{\xepersian@firstTitle}[1]{%
176 {%
177 \begin{spacing}{2.0}{%
178 \noindent\ignorespaces
179 \ifthenelse{\boolean{xepersian@hyphenatedtitles}}{%
180 {\nohyphens{\firstTitleFormat #1}}{%
181 {\{\firstTitleFormat #1}}{%
182 }{%
183 \end{spacing}}{%
184 }{%
185 }{%
186 \newcommand{\firstTextFormat}{}
187 \newcommand{\xepersian@firstText}[1]{%
188 {\noindent\ignorespaces\firstTextFormat #1}}{%
189 }{%
190 \newcommand{\secondTitleFormat}{\LARGE\bfseries}
191 \newcommand{\xepersian@secondTitle}[1]{%
192 \begin{spacing}{1.5}{%
193 \noindent\ignorespaces\flushright
194 \ifthenelse{\boolean{xepersian@hyphenatedtitles}}{%
195 {\nohyphens{\secondTitleFormat #1}}{%
196 {\{\secondTitleFormat #1}}{%
197 }\end{spacing}}{%
198 }{%
199 \newcommand{\secondSubtitleFormat}{\large}
200 \newcommand{\xepersian@secondSubtitle}[1]{%
201 {\noindent\ignorespaces{\secondSubtitleFormat #1}}{%
202 }{%
203 \newcommand{\secondTextFormat}{}
204 \newcommand{\xepersian@secondText}[1]{%

```

```

205 \begin{multicols}{2}
206 {\noindent\ignorespaces\secondTextFormat #1}
207 \end{multicols}
208 }
209 \newcommand{\thirdTitleFormat}{\Large\bfseries}
210 \newcommand{\xepersian@thirdTitle}[1]{%
211 \begin{spacing}{1.5}{%
212 \noindent\ignorespaces\flushright
213 \ifthenelse{\boolean{xepersian@hyphenatedtitles}}{%
214 {\nohyphens{\thirdTitleFormat #1}}}{%
215 {\{\thirdTitleFormat #1\}}}{%
216 }\end{spacing}%
217 }
218 \newcommand{\thirdSubtitleFormat}{\large}
219 \newcommand{\xepersian@thirdSubtitle}[1]{%
220 {\{\noindent\ignorespaces\thirdSubtitleFormat #1\}}%
221 \newcommand{\thirdTextFormat}{%
222 \newcommand{\xepersian@thirdText}[1]{\{\thirdTextFormat #1\}}%
223 \newcommand{\pictureCaptionFormat}{\small\bfseries}
224 \newcommand{\xepersian@pictureCaption}[1]{%
225 {\noindent\pictureCaptionFormat #1}}%
226 }%
227 \newcommand{\pagesFormat}{\bfseries\footnotesize}
228 \newcommand{\xepersian@pages}[1]{%
229 {\noindent\pagesFormat\MakeUppercase{#1}}}}
230 \newcommand{\innerTitleFormat}{\Huge}
231 \newcommand{\xepersian@innerTitle}[1]{%
232 \begin{flushright}{%
233 \noindent
234 \ifthenelse{\boolean{xepersian@hyphenatedtitles}}{%
235 {\nohyphens{\innerTitleFormat #1}}}{%
236 {\{\innerTitleFormat #1\}}}{%
237 }}%
238 \\%
239 \end{flushright}%
240 }
241 \newcommand{\innerSubtitleFormat}{\large}
242 \newcommand{\xepersian@innerSubtitle}[1]{\{\innerSubtitleFormat #1\}}%
243 \newcommand{\timestampTxt}{}
244 \newcommand{\timestampSeparator}{|}%
245 \newcommand{\timestampFormat}{\small}%
246 \newcommand{\timestamp}[1]{%
247 {\timestampFormat}%
248 #1~\timestampTxt{}%
249 }~\timestampSeparator{}%
250 }
251 \newcommand{\innerAuthorFormat}{\footnotesize}
252 \newcommand{\innerPlaceFormat}{\footnotesize\bfseries}
253 \newcommand{\innerTextFinalMark}{\rule{0.65em}{0.65em}}%
254 \newcommand{\editorialTitleFormat}{\LARGE\textrit}

```

```

255 \newcommand{\xepersian@editorialTitle}[1]{\editorialTitleFormat{#1}}
256 \newcommand{\editorialAuthorFormat}{\textsc}
257 \newcommand{\shortarticleTitleFormat}{\LARGE\bfseries}
258 \newcommand{\xepersian@shortarticleTitle}[1]{{\shortarticleTitleFormat #1}}
259 \newcommand{\shortarticleSubtitleFormat}{\Large}
260 \newcommand{\xepersian@shortarticleSubtitle}[1]{{\shortarticleSubtitleFormat #1}}
261 \newcommand{\shortarticleItemFormat}{\large\bfseries}
262 \newcommand{\xepersian@shortarticleItemTitle}[1]{{\shortarticleItemFormat #1}}
263 \renewcommand{\maketitle}{\begin{titlepage}%
264   \let\footnotesize\small
265   \let\footnoterule\relax
266   \let \footnote \thanks
267   \null\vfil
268   \vskip 60\p@
269   \begin{center}%
270     {\LARGE \@title \par}%
271     \vskip 1em%
272     {\LARGE «\xepersian@edition» \par}%
273     \vskip 3em%
274     {\large
275       \lineskip .75em%
276       \begin{tabular}[t]{c}%
277         \@author
278       \end{tabular}\par}%
279     \vskip 1.5em%
280     {\large \@date \par}%
281   \end{center}\par
282   \thanks
283   \vfil\null
284   \end{titlepage}%
285   \setcounter{footnote}{0}%
286   \global\let\thanks\relax
287   \global\let\maketitle\relax
288   \global\let\@thanks\empty
289   \global\let\@author\empty
290   \global\let\@date\empty
291   \global\let\@title\empty
292   \global\let\title\relax
293   \global\let\author\relax
294   \global\let\date\relax
295   \global\let\and\relax
296 }
297 \newcommand{\xepersian@say}[1]{\typeout{#1}}
298 \newsavebox{\xepersian@fmbox}
299 \newenvironment{xepersian@fmpage}[1]
300   {\begin{lrbox}{\xepersian@fmbox}\begin{minipage}{#1}}
301   {\end{minipage}\end{lrbox}\fbox{\usebox{\xepersian@fmbox}}}
302 \newcommand{\image}[2]{
303   \vspace{5pt}
304   \setlength{\fboxsep}{1pt}

```

```

305 \addtolength{\xepersian@imgsize}{\columnwidth}
306 \addtolength{\xepersian@imgsize}{-1\columnsep}
307 \ifxetex
308 \setlength{\xepersian@pageneed}{1.5\xepersian@imgsize}
309 \addtolength{\xepersian@pageneed}{50pt}
310 \ClassWarning{xepersian-magazine}{%
311 Image #1 needs: \the\xepersian@pageneed \space %
312 and there is left: \the\page@free\space%
313 }
314 \ifdim \xepersian@pageneed < \page@free
315
316 {\centering\fbox{%
317 \includegraphics[width = \xepersian@imgsize,
318 height = \xepersian@imgsize,
319 keepaspectratio ]{#1}}}
320 \xepersian@pictureCaption{#2}
321
322 \vspace{5pt}
323 \else
324 \ClassWarning{Image #1 needs more space!}%
325 It was not inserted!
326 \fi
327 \fi
328 }
329 \textblockorigin{1cm}{1cm}
330 \newdimen\xepersian@dx
331 \newdimen\xepersian@dy
332 \newcount\xepersian@cx
333 \newcount\xepersian@cy
334 \newcommand{\grid}[3][]{%
335 \xepersian@dx=\textwidth%
336 \xepersian@dy=\textheight%
337 \xepersian@cx=#3% %columns
338 \xepersian@cy=#2% %rows
339
340 \count1=#3%
341 \advance\count1 by 1
342
343 \count2=#2%
344 \advance\count2 by 1
345
346 \divide\xepersian@dx by #3
347 \divide\xepersian@dy by #2
348
349 \setlength{\TPHorizModule}{\xepersian@dx}
350 \setlength{\TPVertModule}{\xepersian@dy}
351
352 \ifthenelse{\equal{#1}{show}}{
353 \multido{\xepersian@nrow=0+1}{\count2} {
354 \begin{textblock}{\xepersian@cx}(0,\xepersian@nrow)

```

```

355 \rule[0pt]{\textwidth}{.1pt}
356 \end{textblock}
357 }
358 \multido{\xepersian@ncol=0+1}{\count1}{
359 \begin{textblock}{\xepersian@cy}(\xepersian@ncol,0)
360 \rule[0pt]{.1pt}{\textheight}
361 \end{textblock}
362 }
363 }
364 }
365 }
366 \newcommand{\xepersianInit}{
367 \setlength{\headheight}{14pt}
368 \renewcommand{\headrulewidth}{0.4pt}
369
370 \pagestyle{fancy}
371
372 \setlength{\columnseprule}{\columnlines}
373 \setlength{\fboxrule}{0.1 pt}
374
375 }
376
377 \def\customlogo#1{\gdef\@customlogo{\beginR#1\endR}}
378 \def\customminilogo#1{\gdef\@customminilogo{\beginR#1\endR}}
379 \def\custommagazinename#1{\gdef\@custommagazinename{\beginR#1\endR}}
380 \newcommand{\logo}[0]{
381 %% Heading %%
382 \noindent\hrulefill\hspace{10pt}\xepersian@editionLogo\hspace{5pt}\xepersian@www
383
384 \vspace*{-3pt}
385
386 {\Large\bfseries \@customlogo}
387 \hrulefill
388 \hspace{10pt}\xepersian@headDateTime
389
390 }
391 \newcommand{\minilogo}[0]{
392 {\large\bfseries \@customminilogo}
393
394 \vspace*{5pt}
395 }
396 \newcommand{\mylogo}[1]{
397 {\beginR#1\endR}
398
399 \noindent
400 \xepersian@editionLogo\hspace{5pt}
401 \hrulefill
402 \hspace{5pt}\xepersian@headDateTime
403 }
404 \newcommand{\edition}[1]{\renewcommand{\xepersian@edition}{#1}}

```

```

405 \newenvironment{frontpage}[0]
406 {
407 \setboolean{xepersian@insidefrontpage}{true}
408 \thispagestyle{empty}
409 \logo
410 }%
411 {
412 {
413 \thispagestyle{empty}
414 \clearpage
415 \newpage
416 \fancyhead{}
417 \fancyfoot{}
418 \fancyhead[RO,LE]{\beginR\xepersian@headright\endR}
419 \fancyhead[LO,RE]{\beginR\xepersian@headleft\endR}
420 \fancyhead[C]{\beginR\xepersian@headcenter\endR}
421 \fancyfoot[RO,LE]{\beginR\xepersian@footright\endR}
422 \fancyfoot[LO,RE]{\beginR\xepersian@footleft\endR}
423 \fancyfoot[C]{\beginR\xepersian@footcenter\endR}
424 \renewcommand{\headrulewidth}{0.4pt}
425 \setboolean{xepersian@insidefrontpage}{false}
426 }
427 }
428 \newcommand{\firstarticle}[3]
429 {
430 \ifthenelse{\boolean{xepersian@insidefrontpage}}{%
431 \ifthenelse{\boolean{xepersian@hyphenatedtitles}}{%
432 \begin{textblock}{24}(22,5)
433 }
434 {
435 \begin{textblock}{28}(22,5)
436 }
437 \vspace{-7pt}
438 \xepersian@firstTitle{#1}
439 \end{textblock}
440 \begin{textblock}{29}(22,10)
441 \vspace{5pt plus 2pt minus 2pt}
442
443 \xepersian@firstText{\timestamp{#3}~#2}
444
445 \end{textblock}
446
447 \begin{textblock}{50}(0,15)
448 \rule{50\TPHorizModule}{.3pt}
449 \end{textblock}
450 }{\%else
451 \ClassError{xepersian-magazine}{%
452 \protect\firstarticle\space in a wrong place.\MessageBreak
453 \protect\firstarticle\space may only appear inside frontpage environment.
454 }{\%

```

```

455 \protect\firstarticle\space may only appear inside frontpage environment.
456 }%
457 }
458 }
459 \newcommand{\secondarticle}[5]
460 {
461 \ifthenelse{\boolean{xepersian@insidefrontpage}}{%
462 \begin{textblock}{33}(2,16)
463 \xepersian@pages{#4}
464 \vspace{-5pt}
465 \xepersian@secondTitle{#1}
466
467 \vspace*{5pt}
468
469 \xepersian@secondSubtitle{#2}
470
471 \vspace*{-7pt}
472
473 \xepersian@secondText{\timestamp{#5}~#3}
474
475 \end{textblock}
476
477 \begin{textblock}{33}(2,25)
478 \vspace{5pt plus 2pt minus 2pt}
479
480 \noindent\ignorespaces\rule{33\TPHorizModule}{.3pt}
481 \end{textblock}
482 }{%
483 \ClassError{xepersian-magazine}{%
484 \protect\secondarticle\space in a wrong place.\MessageBreak
485 \protect\secondarticle\space may only appear inside frontpage environment.
486 }%
487 \protect\secondarticle\space may only appear inside frontpage environment.
488 }%
489 }
490 }
491 \newcommand{\thirdarticle}[6]
492 {
493 \ifthenelse{\boolean{xepersian@insidefrontpage}}{%
494 \begin{textblock}{32}(2,26)
495 \xepersian@pages{#5}
496 \vspace{-5pt}
497 \setlength{\fboxsep}{1pt}
498 \xepersian@thirdTitle{#1}
499
500 \vspace*{5pt}
501
502 \xepersian@thirdSubtitle{#2}
503
504 \vspace*{5pt}

```

```

505
506 {\noindent\ignorespaces %
507 \ifthenelse{\equal{#4}{}}{}{%
508 \xepersian@thirdText{\timestamp{#6}~#3}%
509 }%
510 }%
511 }%
512 \vspace*{5pt}%
513 }%
514 \end{textblock}%
515 \else
516 \ClassError{xepersian-magazine}{%
517 \protect\thirdarticle\space in a wrong place.\MessageBreak
518 \protect\thirdarticle\space may only appear inside frontpage environment.%
519 }%
520 \protect\thirdarticle\space may only appear inside frontpage environment.%
521 }%
522 }%
523 }%
524 }%
525 \newcommand{\firstimage}[2]{%
526 {
527 \ifthenelse{\boolean{xepersian@insidefrontpage}}{%
528 \begin{textblock}{18}(2,5)%
529 \setlength{\fboxsep}{1pt}%
530 \ifxetex % only in PDF
531 \noindent\fbox{\includegraphics[width = 18\TPHorizModule ]{#1}}%
532 \fi
533 }%
534 \xepersian@pictureCaption{#2}%
535 \end{textblock}%
536 }%
537 \ClassError{xepersian-magazine}{%
538 \protect\firstimage\space in a wrong place.\MessageBreak
539 \protect\firstimage\space may only appear inside frontpage environment.%
540 }%
541 \protect\firstimage\space may only appear inside frontpage environment.%
542 }%
543 }%
544 \newcommand{\weatheritem}[5]{%
545 \ifthenelse{\boolean{xepersian@insideweather}}{%
546 \begin{minipage}{45pt}%
547 \ifxetex
548 \includegraphics[width=40pt]{#1}%
549 \fi
550 \end{minipage}%
551 \begin{minipage}{50pt}%
552 \weatherTempFormat
553 #2\\
554 \beginL#3 $\| $ #4 \lr{\weatherUnits{}}\endL\\

```

```

555 #5
556 \end{minipage}
557 }{\%else
558 \ClassError{xepersian-magazine}{%
559 \protect\weatheritem\space in a wrong place.\MessageBreak
560 \protect\weatheritem\space may only appear inside weatherblock environment.
561 }{%
562 \protect\weatheritem\space may only appear inside weatherblock environment.\MessageBreak
563 weatherblock environment may only appear inside frontpage environment.
564 }%
565 }
566 }
567 \newenvironment{weatherblock}[1]
568 {
569 \ifthenelse{\boolean{xepersian@insidefrontpage}}{%
570 \setboolean{xepersian@insideweather}{true}
571 \begin{textblock}{32}(2,38)
572 \vspace*{-15pt}
573
574 \xepersian@weather{\beginR#1\endR}
575
576 \vspace*{5pt}
577
578 \noindent\begin{xepersian@fmpage}{32\TPHorizModule}
579 \begin{minipage}{32\TPHorizModule}
580 \hspace{5pt}
581 }{%
582 }{\%
583 \ClassError{xepersian-magazine}{%
584 weatherblock in a wrong place.\MessageBreak
585 weatherblock may only appear inside frontpage environment.
586 }{%
587 weatherblock may only appear inside frontpage environment.
588 }
589 }
590 }%
591 {
592 \end{minipage}
593 \end{xepersian@fmpage}
594 \end{textblock}
595 \setboolean{xepersian@insideweather}{false}
596 }
597 \newenvironment{authorblock}[0]
598 {
599 \ifthenelse{\boolean{xepersian@insidefrontpage}}{%
600 \begin{textblock}{15}(36,35)
601 \setlength{\fboxsep}{5pt}
602 \begin{xepersian@fmpage}{13\TPHorizModule}
603 \begin{minipage}{13\TPHorizModule}
604 \centering

```

```

605 \minilogo
606
607 }{%
608 \ClassError{xepersian-magazine}{%
609 authorblock in a wrong place.\MessageBreak
610 authorblock may only appear inside frontpage environment.
611 }{%
612 authorblock may only appear inside frontpage environment.
613 }
614 }
615 }
616 {
617 \end{minipage}
618 \end{xepersian@fmpage}
619 \end{textblock}
620 }
621 \newenvironment{indexblock}[1]
622 {
623 \ifthenelse{\boolean{xepersian@insidefrontpage}}{%
624 \setboolean{xepersian@insideindex}{true}%
625 \begin{textblock}{15}(36,16)
626 \setlength{\xepersian@indexwidth}{13\TPHorizModule}
627 \xepersian@indexFrameTitle{#1}
628
629 \setlength{\fboxsep}{5pt} %espacio entre el frame y la imagen
630 \begin{xepersian@fmpage}{\xepersian@indexwidth}
631 \begin{minipage}{\xepersian@indexwidth}
632 \vspace*{10pt}
633 }{%
634 \ClassError{xepersian-magazine}{%
635 indexblock in a wrong place.\MessageBreak
636 indexblock may only appear inside frontpage environment.
637 }{%
638 indexblock may only appear inside frontpage environment.
639 }
640 }
641 }%
642 {
643 \end{minipage}
644 \end{xepersian@fmpage}
645 \end{textblock}
646 \setboolean{xepersian@insideindex}{false}%
647 \begin{newcommand}{\indexitem}[2]
648 \begin{newcommand}{\indexentry}[2]
649 {
650 \ifthenelse{\boolean{xepersian@insideindex}}{%
651 \xepersian@indexEntry{#1} \xepersian@indexEntryPage{\pageref{#2}}}
652
653 \vspace{0.5cm}
654

```

```

655 \noindent\ignorespaces\indexEntrySeparator{}
656 }{\%else
657 \ClassError{xepersian-magazine}{%
658 \protect\indexitem{space in a wrong place.}\MessageBreak
659 \protect\indexitem{space may only appear inside indexblock environment.}%
660 }{\%
661 \protect\indexitem{space may only appear inside indexblock environment.}\MessageBreak
662 indexblock environment may only appear inside frontpage environment.}%
663 }%
664 }
665 }
666 \newcommand{\xepersian@inexpandedtitle}[1]{%
667 \begin{minipage}{.95\textwidth}%
668 \begin{center}%
669 \noindent\Large\textbf{\begin{R}\end{R}}%
670 \end{center}%
671 \end{minipage}%
672 }%
673 \newcommand{\expandedtitle}[2]{%
674 \end{multicols}%
675 %
676 \begin{center}%
677 \setlength{\fboxsep}{5pt}%
678 \setlength{\shadowsize}{2pt}%
679 \ifthenelse{\equal{#1}{shadowbox}}{%
680 \shadowbox{%
681 \xepersian@inexpandedtitle{#2}}%
682 }%
683 }{%
684 \ifthenelse{\equal{#1}{doublebox}}{%
685 \doublebox{%
686 \xepersian@inexpandedtitle{#2}}%
687 }%
688 }{%
689 \ifthenelse{\equal{#1}{ovalbox}}{%
690 \ovalbox{%
691 \xepersian@inexpandedtitle{#2}}%
692 }%
693 }{%
694 \ifthenelse{\equal{#1}{Ovalbox}}{%
695 \Ovalbox{%
696 \xepersian@inexpandedtitle{#2}}%
697 }%
698 }{%
699 \ifthenelse{\equal{#1}{lines}}{%
700 \hrule
701 \vspace*{8pt}%
702 \begin{center}%
703 \noindent\Large\textbf{\begin{R}\end{R}}%
704 \end{center}%

```

```

705 \vspace*{8pt}
706 \hrule
707 }){}
708 \end{center}
709
710 \begin{multicols}{\xepersian@ncolumns{}}
711 \ifnum \xepersian@ncolumns > \minraggedcols
712 \raggedFormat
713 \fi
714 }
715 \newcommand{\xepersian@incolumntitle}[2]{
716 \begin{minipage}{#1}
717 \begin{center}
718 \noindent\normalsize\textbf{#2}
719 \end{center}
720 \end{minipage}
721 }
722
723 \newcommand{\columntitle}[2]{
724 \vspace*{5pt}
725 \begin{center}
726 \setlength{\fboxsep}{5pt}
727 \setlength{\shadowsize}{2pt}
728 \addtolength{\xepersian@coltitsize}{\columnwidth}
729 \addtolength{\xepersian@coltitsize}{-\columnsep}
730 \addtolength{\xepersian@coltitsize}{-5pt}
731 \addtolength{\xepersian@coltitsize}{-\shadowsize}
732 \ifthenelse{\equal{#1}{shadowbox}}{%
733 \shadowbox{%
734 \xepersian@incolumntitle{\xepersian@coltitsize}{#2}}%
735 }%
736 }{%
737 \ifthenelse{\equal{#1}{doublebox}}{%
738 \doublebox{%
739 \xepersian@incolumntitle{\xepersian@coltitsize}{#2}}%
740 }%
741 }{%
742 \ifthenelse{\equal{#1}{ovalbox}}{%
743 \ovalbox{%
744 \xepersian@incolumntitle{\xepersian@coltitsize}{#2}}%
745 }%
746 }{%
747 \ifthenelse{\equal{#1}{Ovalbox}}{%
748 \Ovalbox{%
749 \xepersian@incolumntitle{\xepersian@coltitsize}{#2}}%
750 }%
751 }{%
752 \ifthenelse{\equal{#1}{lines}}{%
753 \hrule
754 \vspace*{5pt}

```

```

755 \begin{center}
756 \noindent\normalsize\textbf{#2}
757 \end{center}
758 \vspace*{5pt}
759 \hrule
760 }{}
761 \end{center}
762 }
763 \renewcommand{\date}{%
764 \longdate{\today}%
765 }
766 \newcommand{\authorandplace}[2]{%
767 \rightline{%
768 {\innerAuthorFormat #1},\space{}{\innerPlaceFormat #2}%
769 }%
770 \par %
771 }
772 \newcommand{\newsection}[1]{%
773 \renewcommand{\xepersian@section}{#1}%
774 }
775 \newenvironment{article}[5]
776 {
777 \xepersian@say{Adding a new piece of article}
778 \renewcommand{\xepersian@ncolumns}{#1}
779 \begin{multicols}{#1}[
780 \xepersian@pages{#4}
781 \xepersian@innerTitle{#2}%
782 \xepersian@innerSubtitle{#3}%
783 ] [4cm]%
784 \label{#5}
785 \ifnum #1 > \minraggedcols
786 \raggedformat
787 \fi
788 }
789 {~\innerTextFinalMark{}}
790 \end{multicols}
791 }
792 \newcommand{\articlesep}{%
793 \setlength{\xepersian@pageneed}{16000pt}
794 \setlength\xepersian@pageleft{\pagegoal}
795 \addtolength\xepersian@pageleft{-\pagetotal}
796
797 \xepersian@say{How much left \the\xepersian@pageleft}
798
799 \ifdim \xepersian@pageneed < \xepersian@pageleft
800 \xepersian@say{Not enough space}
801 \else
802 \xepersian@say{Adding sep line between articles}
803 \vspace*{10pt plus 10pt minus 5pt}
804 \hrule

```

```

805 \vspace*{10pt plus 5pt minus 5pt}
806 \fi
807 }
808 }
809 \newcommand{\xepersian@editorialTit}[2]{
810 \setlength{\arrayrulewidth}{.1pt}
811 \begin{center}
812 \begin{tabular}{c}
813 \noindent
814 \xepersian@editorialTitle{#1}
815 \vspace{2pt plus 1pt minus 1pt}
816 \\
817 \hline
818 \vspace{2pt plus 1pt minus 1pt}
819 \\
820 \editorialAuthorFormat{#2}
821 \end{tabular}
822 \end{center}
823 }
824 \newenvironment{editorial}[4]
825 {
826 \xepersian@say{Adding a new editorial}
827 \begin{multicols}{#1}[%
828 \xepersian@editorialTit{#2}{#3}%
829 ] [4cm]
830 \label{#4}
831 \ifnum #1 > \minraggedcols
832 \raggedFormat
833 \fi
834 }
835 {
836 \end{multicols}
837 }
838 \newcommand{\xepersian@shortarticleTit}[2]{
839 \begin{center}
840 \vbox{%
841 \noindent
842 \xepersian@shortarticleTitle{#1}
843 \vspace{4pt plus 2pt minus 2pt}
844 \hrule
845 \vspace{4pt plus 2pt minus 2pt}
846 \xepersian@shortarticleSubtitle{#2}
847 }
848 \end{center}
849 }
850 \newenvironment{shortarticle}[4]
851 {
852 \xepersian@say{Adding a short article block}
853 \begin{multicols}{#1}[\xepersian@shortarticleTit{#2}{#3}] [4cm] %
854 \label{#4}

```

```

855 \par %
856 \ifnum #1 > \minraggedcols
857 \raggedFormat
858 \fi
859 }
860 {
861 \end{multicols}
862 }
863 \newcommand{\shortarticleitem}[2]{
864 \goodbreak
865 \vspace{5pt plus 3pt minus 3pt}
866 {\vbox{\noindent\xepersian@shortarticleItemTitle{#1}}}
867 \vspace{5pt plus 3pt minus 3pt}
868 {\noindent #2}\\
869 }

```

7.50 xepersian-mathsdigtspec.sty

```

1 \NeedsTeXFormat{LaTeX2e}
2 \ProvidesPackage{xepersian-mathsdigtspec}
3 [2011/01/01 v0.6b Unicode Persian maths digits in XeLaTeX]
4 %\z@false
5 \ExplSyntaxOn
6 \bool_set_false:N \g_fontsSpec_math_bool
7 \ExplSyntaxOff
8 \def\@preamblecmds{}
9 \newcommand\not@onlypreamble[1]{%
10 \def\do##1{\ifx##1\else\noexpand\do\noexpand##1\fi}%
11 \xdef\@preamblecmds{\@preamblecmds}}
12 \def\gm@notprerr{ can be used only in preamble (\on@line)}
13 \AtBeginDocument{%
14 \def\do#1{\noexpand\do\noexpand#1}%
15 \edef\@preamblecmds{%
16 \def\noexpand\do##1{%
17 \def##1{\noexpand\PackageError{gmutils/LaTeX}{%
18 {\noexpand\string##1 \noexpand\gm@notprerr}\noexpand\@eha}}%
19 \@preamblecmds}%
20 \def\nocite#1{%
21 \bsphack{\setbox0=\hbox{\cite{#1}}}\espck}
22 \newcommand\xepersian@PackageInfo[1]{\PackageInfo{xepersian-mathsdigtspec}{#1}}
23 \newcommand\SetMathCode[4]{%
24 \XeTeXmathcode#1=\mathchar@type#2 \csname sym#3\endcsname #4\relax}%
25 \newcommand\SetMathCharDef[4]{%
26 \XeTeXmathchardef#1=\mathchar@type#2 \csname sym#3\endcsname #4\relax}%
27 \newcommand\setdigitfont[2][]{%
28 \let\glb@currsize\relax
29 \setkeys*[xepersian-mathsdigtspec]{options}{#1}%
30 \edef\@tempa{\noexpand\zf@fontspec{%
31 \XKV@rm}{#2}}\@tempa
32 \xepersian@PackageInfo{Defining the default Persian maths digits font as '#2'}
```

```

33 \DeclareSymbolFont{OPERATORS} {EU1}{\zf@family} {\m}{n}
34 \def\persianmathsdigits{%
35 \SetMathCode`{`0}{\mathord}{OPERATORS}{06F0}
36 \SetMathCode`{`1}{\mathord}{OPERATORS}{06F1}
37 \SetMathCode`{`2}{\mathord}{OPERATORS}{06F2}
38 \SetMathCode`{`3}{\mathord}{OPERATORS}{06F3}
39 \SetMathCode`{`4}{\mathord}{OPERATORS}{06F4}
40 \SetMathCode`{`5}{\mathord}{OPERATORS}{06F5}
41 \SetMathCode`{`6}{\mathord}{OPERATORS}{06F6}
42 \SetMathCode`{`7}{\mathord}{OPERATORS}{06F7}
43 \SetMathCode`{`8}{\mathord}{OPERATORS}{06F8}
44 \SetMathCode`{`9}{\mathord}{OPERATORS}{06F9}
45 \SetMathCode`{\%}{\mathbin}{OPERATORS}{` }
46 \SetMathCharDef{\decimalseparator}{\mathpunct}{OPERATORS}{066B}}
47 }
48 \ifx\newcommand\undefined\else
49   \newcommand{\ZifferAn}{}
50 \fi
51 \mathchardef\ziffer@DotOri="013A
52 {\ZifferAn
53 \catcode`\.=\active\gdef.{\begingroup\obeyspaces\futurelet\n\ziffer@dcheck}}
54 \def\ziffer@dcheck{\ziffer@check\ZifferLeer\ziffer@DotOri}
55 \def\ziffer@check#1#2{%
56   \ifx\n1\endgroup#1\else
57     \ifx\n2\endgroup#1\else
58       \ifx\n3\endgroup#1\else
59         \ifx\n4\endgroup#1\else
60           \ifx\n5\endgroup#1\else
61             \ifx\n6\endgroup#1\else
62               \ifx\n7\endgroup#1\else
63                 \ifx\n8\endgroup#1\else
64                   \ifx\n9\endgroup#1\else
65                     \ifx\n0\endgroup#1\else
66                       \endgroup#2%
67                     \fi
68                   \fi
69                 \fi
70               \fi
71             \fi
72           \fi
73         \fi
74       \fi
75     \fi
76   \fi}
77 \mathcode`.=="8000\relax
78 \def\ZifferLeer{\ifx\decimalseparator\undefined .\else \decimalseparator\fi}
79 \def\DefaultMathsDigits{\def\SetMathsDigits{}}
80 \def\PersianMathsDigits{\def\SetMathsDigits{\ifx\persianmathsdigits\undefined\else\persianmathsdigits\fi}}
81 \def\AutoMathsDigits{\def\SetMathsDigits{\ifx\persianmathsdigits\undefined\else\if@Latin\else\persianmathsdigits\fi\else\AutoMathsDigits\fi}}
82 \AutoMathsDigits

```

```

83 \everymath{\SetMathsDigits}
84 \g@addto@macro\document{\everydisplay{\predisplaydirection=0 \SetMathsDigits}
85 \@ifpackageloaded{amsmath}{\everydisplay\exp{\the\everydisplay \displaytrue}}{}}

```

7.51 **xpersian-multiplechoice.sty**

```

1 \NeedsTeXFormat{LaTeX2e}
2 \ProvidesPackage{xpersian-multiplechoice}[2010/07/25 v0.2
3                         Multiple Choice Questionnaire class for Persian in XeLaTeX]
4 \RequirePackage{pifont}
5 \RequirePackage{fullpage}
6 \RequirePackage{ifthen}
7 \RequirePackage{calc}
8 \RequirePackage{verbatim}
9 \RequirePackage{multicol}
10 \def\@headerfont{\bfseries}
11 \newcommand\headerfont[1]{\gdef\@headerfont{#1}}
12 \def\@X{X}
13 \newcommand\X[1]{\gdef\@X{#1}}
14 \def\pbs#1{\let\tmp=\#1\let\=\tmp}
15 \newcommand\makeform@nocorrection{%
16   \addtocontents{frm}{\protect\end{tabular}}
17   \starttoc{frm}}
18 \newcommand\makeform@correction{%
19   \addtocontents{frm}{\protect\end{tabular}}}
20 \newcommand\makemask@nocorrection{%
21   \addtocontents{msk}{\protect\end{tabular}}
22   \starttoc{msk}}
23 \newcommand\makemask@correction{%
24   \addtocontents{msk}{\protect\end{tabular}}}
25 \newlength\questionspace
26 \setlength\questionspace{0pt}
27 \newcommand\answerstitle[1]{\gdef\@answerstitle{#1}}
28 \def\@answerstitlefont{\bfseries}
29 \newcommand\answerstitlefont[1]{\gdef\@answerstitlefont{#1}}
30 \def\@answernumberfont{\bfseries}
31 \newcommand\answernumberfont[1]{\gdef\@answernumberfont{#1}}
32 \newcounter{question}\stepcounter{question}
33 \newcounter{@choice}
34 \def\@initorcheck{%
35   \xdef\@choices{\the@choice}%
36   \setcounter{@choice}{1}%
37   \gdef\@arraydesc{|1||}%
38   \gdef\@headerline{}%
39   \whiledo{\not{\value{@choice}>\@choices}}{%
40     \xdef\@arraydesc{\@arraydesc c|}%
41     \def\@appendheader{\g@addto@macro\@headerline}%
42     \@appendheader{\&\protect\@headerfont}%
43     \edef\@the@choice{\{\alpha@choice\}}%
44     \expandafter\@appendheader\@the@choice

```

```

45      \stepcounter{@choice}%
46  \addtocontents{frm}{%
47    \protect\begin{tabular}{\@arraydesc}
48    \protect\hline
49    \@headerline\protect\\ \protect\hline\protect\hline}%
50  \addtocontents{msk}{%
51    \protect\begin{tabular}{\@arraydesc}
52    \protect\hline
53    \@headerline\protect\\ \protect\hline\protect\hline}%
54 \gdef\@initorcheck{%
55   \ifthenelse{\value{@choice} = \@choices}{}{%
56     \ClassError{xepersian-multiplechoice}{Question \thequestion: wrong number of choices
57       (\the@choice space instead of \@choices)}{%
58         Questions must all have the same number of proposed answers.}%
59       \MessageBreak
60       Type X <return> to quit, fix your MCQ (multiple choice question) and rerun XeLaTeX.}}}}%
61 \newenvironment{question}[1]{%
62   %% \begin{question}
63   \begin{minipage}{\textwidth}
64     \xdef\@formanswerline{\@questionheader}%
65     \xdef\@maskanswerline{\@questionheader}%
66     \fbox{\parbox[c]{\linewidth}{#1}}
67     \vspace{questionspace}\par
68     {\@answerstitlefont\@answerstitle}%
69 \begin{multicols}{4}
70   \begin{list}{\@answernumberfont\alph{@choice})~}{\usecounter{@choice}}}%
71   %% \end{question}
72   \end{list}
73 \end{multicols}
74   \@initorcheck%
75   \addtocontents{frm}{\@formanswerline\protect\\ \protect\hline}%
76   \addtocontents{msk}{\@maskanswerline\protect\\ \protect\hline}%
77 \end{minipage}
78 \stepcounter{question}%
79 \def\@truesymbol{\ding{52}~}
80 \def\@falsesymbol{\ding{56}~}
81 \newcommand\truesymbol[1]{\gdef\@truesymbol{#1}}
82 \newcommand\falsesymbol[1]{\gdef\@falsesymbol{#1}}
83 \def\@true@nocorrection{\item}
84 \def\@false@nocorrection{\item}
85 \def\@true@correction{\item[\@truesymbol\refstepcounter{@choice}]}
86 \def\@false@correction{\item[\@falsesymbol\refstepcounter{@choice}]}
87 \newcommand\true{%
88   \xdef\@formanswerline{\@formanswerline&}%
89   \xdef\@maskanswerline{\@maskanswerline&\@X}%
90   \@true}%
91 \newcommand\false{%
92   \xdef\@formanswerline{\@formanswerline&}%
93   \xdef\@maskanswerline{\@maskanswerline&}%
94   \@false}%

```

```

95 \def\@correctionstyle{\itshape}
96 \newcommand\correctionstyle[1]{\gdef\@correctionstyle{#1}}
97 \newenvironment{@correction}{\@correctionstyle{}}
98 \def\@questionheader{ \thequestion}
99 \answersstyle{ :
100 \DeclareOption{nocorrection}{%
101   \let\@true\@true@nocorrection
102   \let\@false\@false@nocorrection
103   \let\correction\comment
104   \let\endcorrection\endcomment
105   \def\makeform{\makeform@nocorrection}
106   \def\makemask{\makemask@nocorrection}}
107 \DeclareOption{correction}{%
108   \let\@true\@true@correction
109   \let\@false\@false@correction
110   \let\correction\@correction
111   \let\endcorrection\end@correction
112   \def\makeform{\makeform@correction}
113   \def\makemask{\makemask@correction}}
114 \ExecuteOptions{nocorrection}
115 \newcommand\questiontitle[1]{\gdef\@questiontitle{#1}}
116 \def\@questiontitlefont{\bfseries}
117 \newcommand\questiontitlefont[1]{\gdef\@questiontitlefont{#1}}
118 \newlength\questiontitlespace
119 \setlength\questiontitlespace{5pt}
120 \newlength\questionsepspace
121 \setlength\questionsepspace{20pt}
122 \gdef\@questionsepspace{0pt}
123 \let\old@question\question
124 \let\old@endquestion\endquestion
125 \renewenvironment{question}[1]{%
126   %% \begin{question}
127   \vspace\@questionsepspace
128   \fbox{\parbox[c]{0.25\linewidth}{\@questiontitlefont\@questiontitle}}
129   \nopagebreak\vspace\questiontitlespace\par
130   \old@question{#1}}{%
131   %% \end{question}
132   \old@endquestion
133   \gdef\@questionsepspace{\questionsepspace}}
134 \questiontitle{ \thequestion:}
135 \ProcessOptions

```

7.52 xepersian-persiancal.sty

```

1 \NeedsTeXFormat{LaTeX2e}
2 \ProvidesPackage{xepersian-persiancal}[2010/07/25 v0.1 provides Persian calendar]
3
4 \newif\ifXePersian@leap \newif\ifXePersian@kabiseh
5 \newcount\XePersian@i \newcount\XePersian@y \newcount\XePersian@m \newcount\XePersian@d
6 \newcount\XePersian@latini \newcount\XePersian@persiani

```

```

7 \newcount\XePersian@latinii    \newcount\XePersian@persianii
8 \newcount\XePersian@latiniii   \newcount\XePersian@persianiii
9 \newcount\XePersian@latiniv   \newcount\XePersian@persianiv
10 \newcount\XePersian@latinv    \newcount\XePersian@persianv
11 \newcount\XePersian@latinvi   \newcount\XePersian@persianvi
12 \newcount\XePersian@latinvii  \newcount\XePersian@persianvii
13 \newcount\XePersian@latinviii \newcount\XePersian@persianviii
14 \newcount\XePersian@latinix   \newcount\XePersian@persianix
15 \newcount\XePersian@latinx   \newcount\XePersian@persianx
16 \newcount\XePersian@latinxi   \newcount\XePersian@persianxi
17 \newcount\XePersian@latinxii  \newcount\XePersian@persianxii
18                               \newcount\XePersian@persianxiii
19
20 \newcount\XePersian@temp
21 \newcount\XePersian@temptwo
22 \newcount\XePersian@tempthree
23 \newcount\XePersian@yModHundred
24 \newcount\XePersian@thirtytwo
25 \newcount\XePersian@dn
26 \newcount\XePersian@sn
27 \newcount\XePersian@mminusone
28
29 \def\persiantoday{%
30 \XePersian@y=\year \XePersian@m=\month \XePersian@d=\day
31 \XePersian@temp=\XePersian@y
32 \divide\XePersian@temp by 100\relax
33 \multiply\XePersian@temp by 100\relax
34 \XePersian@yModHundred=\XePersian@y
35 \advance\XePersian@yModHundred by -\XePersian@temp\relax
36 \ifodd\XePersian@yModHundred
37   \XePersian@leapfalse
38 \else
39   \XePersian@temp=\XePersian@yModHundred
40   \divide\XePersian@temp by 2\relax
41   \ifodd\XePersian@temp\XePersian@leapfalse
42   \else
43     \ifnum\XePersian@yModHundred=0%
44       \XePersian@temp=\XePersian@y
45       \divide\XePersian@temp by 400\relax
46       \multiply\XePersian@temp by 400\relax
47     \ifnum\XePersian@y=\XePersian@temp\XePersian@leaptrue\else\XePersian@leapfalse\fi
48     \else\XePersian@leaptrue
49     \fi
50   \fi
51 \fi
52 \XePersian@latinii=31\relax
53 \ifXePersian@leap
54   \XePersian@latinii = 29\relax
55 \else
56   \XePersian@latinii = 28\relax

```

```

57 \fi
58 \XePersian@latiniii = 31\relax
59 \XePersian@latiniv = 30\relax
60 \XePersian@latinv = 31\relax
61 \XePersian@latinvi = 30\relax
62 \XePersian@latinvii = 31\relax
63 \XePersian@latinviii = 31\relax
64 \XePersian@latinix = 30\relax
65 \XePersian@latinx = 31\relax
66 \XePersian@latinxi = 30\relax
67 \XePersian@latinxii = 31\relax
68 \XePersian@thirtytwo=32\relax
69 \XePersian@temp=\XePersian@y
70 \advance\XePersian@temp by -17\relax
71 \XePersian@temptwo=\XePersian@temp
72 \divide\XePersian@temptwo by 33\relax
73 \multiply\XePersian@temptwo by 33\relax
74 \advance\XePersian@temp by -\XePersian@temptwo
75 \ifnum\XePersian@temp=\XePersian@thirtytwo\XePersian@kabisehfalse
76 \else
77   \XePersian@temptwo=\XePersian@temp
78   \divide\XePersian@temptwo by 4\relax
79   \multiply\XePersian@temptwo by 4\relax
80   \advance\XePersian@temp by -\XePersian@temptwo
81   \ifnum\XePersian@temp=z@\XePersian@kabisehtrue\else\XePersian@kabisehfalse\fi
82 \fi
83 \XePersian@tempthree=\XePersian@y % Number of Leap years
84 \advance\XePersian@tempthree by -1
85 \XePersian@temp=\XePersian@tempthree % T := (MY-1) div 4
86 \divide\XePersian@temp by 4\relax
87 \XePersian@temptwo=\XePersian@tempthree % T := T - ((MY-1) div 100)
88 \divide\XePersian@temptwo by 100\relax
89 \advance\XePersian@temp by -\XePersian@temptwo
90 \XePersian@temptwo=\XePersian@tempthree % T := T + ((MY-1) div 400)
91 \divide\XePersian@temptwo by 400\relax
92 \advance\XePersian@temp by \XePersian@temptwo
93 \advance\XePersian@tempthree by -611 % Number of Kabise years
94 \XePersian@temptwo=\XePersian@tempthree % T := T - ((SY+10) div 33) * 8
95 \divide\XePersian@temptwo by 33\relax
96 \multiply\XePersian@temptwo by 8\relax
97 \advance\XePersian@temp by -\XePersian@temptwo
98 \XePersian@temptwo=\XePersian@tempthree %
99 \divide\XePersian@temptwo by 33\relax
100 \multiply\XePersian@temptwo by 33\relax
101 \advance\XePersian@tempthree by -\XePersian@temptwo
102 \ifnum\XePersian@tempthree=32\advance\XePersian@temp by 1\fi % if (SY+10) mod 33=32 then Inc(T);
103 \divide\XePersian@tempthree by 4\relax % T := T - ((SY+10) mod 33) div 4
104 \advance\XePersian@temp by -\XePersian@tempthree
105 \advance\XePersian@temp by -137 % T := T - 137 Adjust the value
106 \XePersian@persiani=31

```

```

107 \advance\XePersian@persiani by -\XePersian@temp % now 31 - T is the persiani
108 \XePersian@persianii = 30\relax
109 \ifXePersian@kabiseh
110   \XePersian@persianiii = 30\relax
111 \else
112   \XePersian@persianiii = 29\relax
113 \fi
114 \XePersian@persianiv = 31\relax
115 \XePersian@persianv = 31\relax
116 \XePersian@persianvi = 31\relax
117 \XePersian@persianvii = 31\relax
118 \XePersian@persianviii= 31\relax
119 \XePersian@persianix = 31\relax
120 \XePersian@persianx = 30\relax
121 \XePersian@persianxi = 30\relax
122 \XePersian@persianxii = 30\relax
123 \XePersian@persianxiii= 30\relax
124 \XePersian@dn= 0\relax
125 \XePersian@sn= 0\relax
126 \XePersian@mminusone=\XePersian@m
127 \advance\XePersian@mminusone by -1\relax
128 \XePersian@i=0\relax
129 \ifnum\XePersian@i < \XePersian@mminusone
130 \loop
131 \advance \XePersian@i by 1\relax
132 \advance\XePersian@dn by \csname XePersian@latin\romannumeral\the\XePersian@i\endcsname
133 \ifnum\XePersian@i<\XePersian@mminusone \repeat
134 \fi
135 \advance \XePersian@dn by \XePersian@d
136 \XePersian@i=1\relax
137 \XePersian@sn = \XePersian@persiani
138 \ifnum \XePersian@sn<\XePersian@dn
139 \loop
140 \advance \XePersian@i by 1\relax
141 \advance\XePersian@sn by \csname XePersian@persian\romannumeral\the\XePersian@i\endcsname
142 \ifnum \XePersian@sn<\XePersian@dn \repeat
143 \fi
144 \ifnum \XePersian@i < 4
145   \XePersian@m = 9 \advance\XePersian@m by \XePersian@i
146   \advance \XePersian@y by -622\relax
147 \else
148   \XePersian@m = \XePersian@i \advance \XePersian@m by -3\relax
149   \advance \XePersian@y by -621\relax
150 \fi
151 \advance\XePersian@sn by -\csname XePersian@persian\romannumeral\the\XePersian@i%\endcsname
152 \ifnum\XePersian@i = 1
153   \XePersian@d = \XePersian@dn \advance \XePersian@d by 30 \advance\XePersian@d by -\XePersian@pers
154 \else
155   \XePersian@d = \XePersian@dn \advance \XePersian@d by -\XePersian@sn

```

```

157 \fi
158 \beginL\number\XePersian@d\endL\space%
159 \persianmonth{\XePersian@m}\space\beginL\number\XePersian@y\endL%
160 }
161 \def\persianmonth#1{\ifcase#1\or \or \
162 \or \
163 \or \or \
164 \or \
165 \or \or \
166 \or \or \
167 \or \or \
168 \fi}

```

8 Index

Numbers written in italic refer to the page where the corresponding entry is described; numbers underlined refer to the code line of the definition; numbers in roman refer to the code lines where the entry is used.

Symbols		
\%	45	\@chapapp 6, 6, 6, 6, 6,
\.	53	6, 10, 10, 10, 10, 10, 10
\@and	223	\@choices ... 35, 39, 55, 57
\@if@newlist	..... 6, 26, 145, 198	\@cite 132
\@math	32	\@cite@ofmt 140
\@maybeautodot	..... 9, 10, 10,	\@citea 131, 133
	11, 14, 15, 28, 29, 33	\@citeb 132,
\@Alpha	22, 23, 27, 280, 283, 287	134, 135, 136, 139, 140
\@False	20, 22	\@colht 199
\@LTRfootnotetext	..... 30, 30, 34, 36	\@correction 110
\@Latincitex	129, 130	\@correctionstyle ..
\@Latintrue	120	..... 95, 96, 97
\@M	36, 254	\@ctrerr 233, 235, 237
\@MM	8, 8, 12, 14, 22, 22,	\@currentlabel 11, 11,
	26, 28, 36, 36, 40, 42	15, 17, 25, 25, 29,
\@Mi	32	31, 39, 39, 43, 45,
\@RTL@footnotefalse	120	50, 50, 64, 64, 78, 78
\@RTL@footnotetrue	. 122	\@customlogo 377, 386
\@RTLfalse	... 2, 5, 5,	\@custommagazinename
	9, 11, 14, 27, 33, 33,	..... 146, 379
	37, 39, 45, 45, 73, 73	\@customminilogo 378, 392
\@RTLfootnotetext	..... 16, 16, 20, 22	\@customwwwTxt
\@RTLtrue	.... . 5, 5, 9, 11, 19, 19,	..... 107, 110, 162
	21	\@date 280, 290
		\@dgroup 14
		\@displaytrue 85
		\@dmath 2, 31
		\@dseries 27
		\@eha 18

\@empty	17, 131, 134, 163, 164, 166, 167, 288, 289, 290, 291	\@ifpackageloaded	85, 204, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303	\@resetactivechars 5, 144 \@roman 25, 26, 30 \@setfontsize 77, 83, 85, 88, 95, 101, 102, 103, 104, 105
\@emptytoks	16	\@ifundefined	136	\@smemfront 3
\@enGroup	12	\@ignoretrue	38	\@specialpagefalse . 155
\@enLabel . . . . .	. 3, 4, 5, 6, 7, 8, 9, 10	\@initorcheck	34, 54, 74	\@specialstyle 155
\@enOther	14	\@inlabelfalse	5	\@sptoken 11
\@enSpace	11	\@latex@warning	138	\@starttoc 17, 22, 207
\@enhook	15	\@latinAlph	280, 287	\@stop 10, 11, 15
\@enloop@	2	\@latinalph	279, 286	\@tartibi 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 3, 5, 6, 6, 6, 6, 21, 22, 26, 237, 238
\@entemp	3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13	\@mainmatterfalse	4, 4, 4, 5, 5	\@tempa 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 17, 30, 31, 46, 49, 54, 57
\@enum@	13	\@makefntext	11, 11, 15, 17, 25, 25, 29, 31, 39, 39, 43, 45, 55, 55, 69, 69, 83, 83	\@tempboxa 180, 187, 188
\@esphack	21	\@maskanswerline	65, 76, 89, 93	\@tempswafalse 129
\@evenfoot	161	\@memfront	2	\@tempswatrue 129
\@evenhead	160	\@mpLTRfootnotetext	72, 72	\@thanks 282, 288
\@false	94, 102, 109	\@mpRTLfootnotetext	58, 58	\@thechoice 43, 44
\@false@correction	86, 109	\@mpfootins	45, 45, 46, 46, 59, 59, 60, 60, 73, 73, 74, 74	\@thefnmark 11, 11, 15, 17, 25, 25, 29, 31, 39, 39, 43, 45, 51, 51, 65, 65, 79, 79
\@false@nocorrection	84, 102	\@mpfootnotetext	44, 44	\@tfoot 158, 161, 164, 167, 194
\@falsesymbol	80, 82, 86	\@nameuse	155	\@thead 158, 160, 163, 166, 184
\@finalstrut . . . . .	. 56, 56, 70, 70, 84, 84	\@newlistfalse	7, 146	\@themargin 20, 159, 161, 179
\@firstofone	134	\@oddfoot	158, 167	\@title 270, 291
\@footnotetext	2, 2, 6, 8	\@oddhead	158, 166	\@true 90, 101, 108
\@for	132	\@outputbox	24, 190	\@true@correction 85, 108
\@formanswerline . . . . .	. 64, 75, 88, 92	\@outputpage	2, 141	\@true@nocorrection 83, 101
\@gobble	13, 14, 15, 16, 173, 174, 175	\@parboxrestore . . . . .	. 7, 9, 9, 13, 15, 23, 23, 27, 29, 37, 37, 41, 43, 49, 49, 63, 63, 77, 77, 147	\@truesymbol 79, 81, 85
\@charfi	5, 6, 6, 6, 6, 6, 6, 7, 7, 7, 7, 7, 7, 7, 11, 11, 11, 11, 11, 11, 19, 20, 24, 231, 234	\@preamblecmds . . . . .	. 8, 11, 15, 19	\@xp 85
\@headerfont	10, 11, 42	\@questionheader . . . . .	. 64, 65, 98	\@zf@mathfalse 4 @\\ 9, 10 @\\ 5, 6, 8 @\\ 2
\@headerline	38, 41, 49, 53	\@questionsepspace . . . . .	. 122, 127, 133	\@\\ 14, 49, 53, 75, 76, 238, 553, 554, 816, 819, 868
\@ifclassloaded . . . . .	. 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325	\@questiontitle . . . . .	. 115, 128	\@\\ 554
\@ifdefinable	5	\@questiontitlefont . . . . .	. 116, 117, 128	\@\\ 133, 153, 162
\@ifdefinitionfileloaded . . . . .	. 290			
\@ifnextchar	43, 51, 129			

<p>A</p> <ul style="list-style-type: none"> \A 8, 24, 38, 40 \abj@num@i . . 248, 263, 270 \abj@num@ii . . 250, 267, 274 \abj@num@iii . . 252, 271, 277 \abj@num@iv . . . 254, 275 \abjad 243, 282, 283 \abjad@zero 262, 266 \abovedisplayshortskip 80, 81, 91, 92, 98, 99 \abovedisplayskip 78, 79, 89, 90, 96, 97 \abstractname 220 \active 53 \adadi 4, 13, 14, 18, 236 \addfontfeatures 2, 14, 27 \addtocontents 16, 19, 21, 24, 46, 50, 75, 76 \addtolength 305, 306, 309, 728, 729, 730, 731, 795 \advance 35, 69, 70, 73, 74, 80, 84, 89, 92, 93, 97, 101, 102, 104, 105, 107, 127, 131, 132, 135, 140, 141, 145, 146, 148, 149, 151, 154, 156, 341, 344 \aftergroup 9, 11, 142, 150, 151 \ALG@name 2, 4 \algorithmicensure 3 \algorithmicrequire 2 \ALGS@name 3, 4 \Alph 6, 15, 16, 20, 22, 23 \alph 7, 16, 17, 21, 43, 70 \anappendixtrue 12 \and 295 \answernumberfont 31 \answerstitle 27, 99 \answerstitlefont 29 \appendix 3, 3, 3, 3, 3, 3, 3, 4, 7, 7, 7, 7, 7, 19, 20 \appendixautorefname 8 \appendixname 4, 6, 6, 6, 6, 6, 10, 10, 10, 10, 10, 217 \arabic 10 <p>B</p> <ul style="list-style-type: none"> \backrefpagesname 2 \baselineskip 17, 176, 191 \begin 47, 51, 62, 63, 69, 70, 121, 124, 126, 177, 192, 205, 205, 211, 232, 263, 269, 276, 300, 354, 360, 432, 435, 440, 447, 462, 477, 494, 528, 546, 551, 571, 578, 579, 600, 602, 603, 625, 630, 631, 667, 668, 676, 702, 710, 716, 717, 725, 755, 779, 811, 812, 827, 839, 853 \begin{group} 3, 3, 3, 7, 9, 10, 17, 17, 21, 23, 31, 31, 35, 37, 53, 142 \beginL 153, 158, 159, 554 \beginR 157, 158, 159, 170, 171, 172, 184, 194, 377, 378, 379, 397, 418, 419, 420, 421, 422, 423, 574, 669 \belowdisplayshortskip 81, 92, 99 \belowdisplayskip 79, 90, 97 \bfseries 10, 28, 30, 113, 116, 119, 136, 138, 146, 174, 190, 209, 223, 227, 252, 257, 261, 386, 392 \bgroup 12 \bibname 224 \bidi@footnoterule 54, 54, 68, 68, 82, 82 \bidi@footnotetext@after 13, <p>C</p> <ul style="list-style-type: none"> \c@book 5 \c@chapter 5, 7, 7, 7, 7, 7, 7, 11, 11, 11, 11, 11 \c@mpfootnote 54, 54, 68, 68, 82, 82 \c@part 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 3, 6, 6, 6, 6 \c@section 3, 5, 5, 6, 6, 6, 6, 6, 6 \c@subsection 3 \catcode 2, 53 \ccname 226 \centering 316, 604 \cftchapname 2 \cftfigname 8 \cftparaname 6 \cftsecname 3 \cftsubfigname 9 \cftsubparaname 7 \cftsubsecname 4 \cftsubsubsecname 5 \cftsubtabname 11 \cfttabname 10 \chaterautorefname 9 \chaptername 6, 225 \chardef 2, 3, 5, 6, 7, 8, 9 \charlist 14, 15, 17, 21 \citation 135 \cite 21
--

\ClassError	56, 451, 483, 517, 537, 558, 583, 608, 634, 657	\DeclareOption	32, 33, 34, 35, 37, 39, 41, 42, 43, 44, 45, 100, 107, 326, 327	\display@setup	3, 28
\ClassWarning	36, 38, 40, 310, 324	\DeclareRobustCommand	47, 55, 64, 67, 70, 73, 76, 79, 128	\divide	32, 40, 45, 72, 78, 86, 88, 91, 95, 99, 103, 346, 347
\cleardoubleoddpage . . .	3	\DeclareSymbolFont	33	\do	10, 14, 16, 132
\cleardoublepage	2, 3, 3, 4, 4	\DeclareTextFontCommand	82, 83, 84, 85, 86, 87	\document	84
\clearpage	3, 414	\def	2, 2, 2, 2, 2, 2, 2, 2, 2, 3, 3, 3, 3, 3, 3, 3, 3, 4, 4, 4, 4, 4, 4, 5, 5, 5, 6, 6, 6, 6, 7, 7, 7, 8, 8, 8, 8, 8, 9, 9, 9, 10, 10,	\dosetclass	15, 16, 20
\color@begingroup	52, 52, 66, 66, 80, 80	10, 10, 10, 11, 11, 12, 12, 12, 13, 14, 14, 14, 14, 14, 15, 16, 16, 16, 16, 16, 17, 17, 17, 20, 20, 20, 22, 22, 27, 27, 28, 28, 29, 30, 30,	\doublebox	685, 738	
\color@endbox	185, 195	30, 34, 34, 34, 34, 36, 38, 41, 44, 44, 44, 52, 54, 55, 58, 58, 72, 72, 78, 79, 79, 80, 80, 81, 83, 84, 85, 86, 95, 98, 105, 106, 107, 112,	\dp	8, 8, 12, 14, 22, 22, 26, 28, 36, 40, 42, 187	
\color@endgroup	57, 57, 71, 71, 85, 85	112, 113, 115, 116, 118, 119, 120, 121, 122, 123, 125, 127, 130, 133, 141, 161, 210, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 234, 235, 236, 237, 238, 243, 262,	\dquad	36, 38	
\color@hbox	182, 192	263, 267, 271, 275, 281, 285, 377, 378, 379	\dseries@display@setup	28	
\columnlines	10, 11, 43, 372				
\columnsep	306, 729				
\columnseprule	372				
\columntitle	723				
\columnwidth	9, 13, 15, 23, 27, 29, 37, 41, 43, 48, 62, 76, 305, 728				
\comment	103				
\contentsname	205, 214				
\copyright	162				
\correction	103, 110				
\correctionstyle	96				
\count	158, 340, 341, 343, 344, 353, 359				
\csname	5, 6, 7, 7, 8, 11, 11, 12, 15, 17, 24, 25, 25, 26, 29, 31, 39, 39, 43, 45, 51, 51, 65, 65, 79, 79, 132, 140, 141, 151, 234, 236, 238				
\currenttime	136				
\customlogo	377				
\custommagazinename	379				
\customminilogo	378				
\customwwwTxt	107				
D					
\D	5, 26, 27, 28, 29, 33, 34, 35, 37, 38	\DefaultMathsDigits	79		
\date	135, 146, 294, 763	\deflatinfont	50		
\datename	222	\deflatinfont@i	51, 52		
\day	30	\defpersianfont	42		
\decimalseparator	46, 78	\defpersianfont@i	43, 44		
		\ding	79, 80		

\empty	18	\eq@setup@a	11
\enclname	227	\eq@startup	12
\end 15, 16, 16, 19, 21, 21,		\eq@wdCond	30
22, 24, 71, 72, 73,		\eqcommand 2, 2, 3, 3, 4,	
77, 121, 126, 131,		4, 4, 5, 5, 6, 6, 7, 7,	
183, 197, 207, 208,		8, 8, 9, 9, 10, 10, 11,	
216, 239, 278, 281,		11, 12, 12, 13, 13,	
284, 301, 356, 362,		14, 14, 15, 15, 16,	
439, 445, 449, 475,		16, 17, 17, 18, 18,	
481, 515, 535, 550,		19, 19, 20, 20, 21,	
556, 592, 593, 594,		21, 22, 22, 23, 23,	
617, 618, 619, 643,		24, 24, 25, 25, 26,	
644, 645, 670, 671,		26, 27, 27, 28, 28,	
674, 704, 708, 719,		29, 29, 30, 30, 31,	
720, 757, 761, 790,		31, 32, 32, 33, 33,	
821, 822, 836, 848, 861		34, 34, 35, 35, 36,	
\end@correction	111	36, 37, 37, 38, 38,	
\endcomment	104	39, 39, 40, 40, 41,	
\endcorrection .. 104, 111		41, 42, 42, 43, 43,	
\endcsname	5,	44, 44, 45, 45, 46,	
6, 7, 8, 11, 11, 12,		46, 47, 47, 48, 48,	
15, 17, 24, 25, 25,		49, 49, 50, 50, 51,	
26, 29, 31, 39, 39,		51, 52, 52, 53, 53,	
43, 45, 51, 51, 65,		54, 54, 55, 55, 56,	
65, 79, 79, 132, 140,		56, 57, 57, 58, 59,	
141, 152, 234, 236, 238		60, 61, 62, 63, 64,	
\endgroup		65, 66, 67, 68, 69,	
. 10, 15, 15, 19, 21,		70, 71, 72, 73, 74,	
29, 29, 33, 35, 43,		75, 76, 77, 78, 79,	
43, 47, 49, 56, 57,		80, 81, 82, 83, 84,	
58, 59, 60, 61, 62,		85, 86, 87, 88, 89,	
63, 64, 65, 66, 142, 150		90, 91, 92, 93, 94,	
\endL 153, 158, 159, 554		95, 96, 97, 98, 99,	
\endlatin	121	100, 101, 102, 103,	
\endLTR	121	104, 105, 106, 107,	
\endmath	33	108, 109, 110, 111,	
\endpersian	123	112, 113, 114, 115,	
\endquestion	124	116, 117, 118, 119,	
\endR 157, 158, 159,		120, 121, 122, 123,	
170, 171, 172, 184,		124, 125, 126, 127,	
194, 377, 378, 379,		128, 129, 130, 131,	
397, 418, 419, 420,		132, 133, 134, 135,	
421, 422, 423, 574, 669		136, 137, 138, 139,	
\endRTL	123	140, 141, 142, 143,	
\ends@math	33	144, 145, 146, 147,	
\eq@addpunct	38	148, 149, 150, 151,	
\eq@group	6, 15	152, 153, 154, 155,	
\eq@GRP@first@dmath	15	156, 157, 158, 159,	
\eq@prelim	6, 23	160, 161, 162, 163,	
\eq@setnumber	9	164, 165, 166, 167,	

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,
 612, 613, 614, 615,
 616, 617, 618, 619,
 620, 621, 622, 623,
 624, 625, 626, 627,
 628, 629, 630, 631,
 632, 633, 634, 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, 939,
 940, 941, 942, 943, 944
\eqenvironment . . . 2,
 2, 3, 3, 4, 4, 5, 5, 6,
 6, 7, 7, 7, 8, 9, 10,
 11, 12, 13, 14, 15,
 16, 17, 18, 19, 20,
 21, 22, 23, 24, 25,

26, 27, 28, 29, 30,	25, 25, 26, 26, 26,	\footnoterule 265
31, 32, 33, 34, 35,	26, 27, 27, 27, 27,	\footnotesep 7, 7, 11, 12,
36, 37, 38, 39, 40,	28, 28, 29, 30, 31,	12, 13, 16, 18, 21,
41, 42, 43, 44, 45, 46	32, 36, 45, 45, 47,	21, 25, 26, 26, 27,
\eqstyle 8	49, 50, 50, 51, 54,	30, 32, 35, 35, 39,
\equal .. 352, 507, 679,	54, 56, 56, 57, 67,	40, 40, 41, 44, 46,
684, 689, 694, 699,	68, 68, 69, 70,	56, 56, 70, 70, 84, 84
732, 737, 742, 747, 752	71, 72, 73, 74, 75,	\footnotesize
\equationautorefname . 2	76, 78, 80, 81, 81,	. 5, 5, 9, 11, 19, 19,
\evensidemargin 161	82, 82, 82, 102, 113,	23, 25, 33, 33, 37,
\everydisplay 3, 84, 85	134, 135, 143, 150,	39, 47, 47, 61, 61,
\everyjob 22, 23	156, 157, 162, 163,	75, 75, 94, 95, 129,
\everymath 83	164, 166, 167, 168,	162, 227, 251, 252, 264
\ExecuteOptions . 114, 328	168, 171, 184, 194,	\footskip 191
\expandafter	212, 213, 214, 215,	\frontmatter 2, 2, 2, 2, 3, 3
. 3, 5, 6, 15, 21,	216, 217, 218, 219,	\futurelet 53
44, 134, 234, 236,	220, 221, 222, 223,	
238, 248, 250, 252, 254	224, 225, 226, 227,	G
\expandedtitle 673	228, 229, 230, 233,	\g 6
\ExplSyntaxOff 7	235, 237, 255, 256,	\g@addto@macro 41, 84
\ExplSyntaxOn 5	257, 258, 259, 260,	\G@refundefinedtrue 137
	265, 266, 269, 270,	\gdef 6, 6, 6,
F	273, 274, 276, 277,	6, 6, 6, 6, 6, 6, 6,
\false 91	326, 327, 532, 549,	6, 6, 7, 7, 7, 7, 7,
\falsesymbol 82	713, 787, 806, 833, 858	7, 10, 10, 10, 10, 10,
\fancyfoot 417, 421, 422, 423	\figureautorefname . . . 5	10, 11, 11, 11, 11,
\fancyhead 416, 418, 419, 420	\figurename 212	11, 11, 11, 13, 22,
\FancyVerbLineautorefname	\finishsetclass . . . 18, 22	23, 27, 29, 31, 37,
. 15	\firstarticle	38, 53, 54, 81, 82,
\fbox . 66, 128, 301, 316, 531	. . . . . 428, 452, 453, 455	96, 107, 115, 117,
\fboxrule 373	\firstimage	122, 133, 377, 378, 379
\fboxsep 304, 497,	. . . . . 525, 538, 539, 541	\glb@currsize 28
529, 601, 629, 677, 726	\firstmark 29, 201	\global 5,
\fi 2, 2, 2, 2, 2,	\firstTextFormat 186, 188	6, 7, 15, 16, 17, 18,
2, 2, 3, 3, 3, 3, 3, 3,	\firstTitleFormat	19, 20, 21, 22, 26,
4, 4, 4, 4, 4, 5, 5, 5,	174, 180, 181	30, 45, 45, 54, 54,
5, 5, 5, 6, 6, 6, 6, 7,	\floatingpenalty	59, 59, 68, 68, 73,
7, 7, 8, 8, 8, 9, 9, 9,	8, 8, 12, 14, 22, 22,	73, 82, 82, 145, 146,
9, 10, 10, 10, 10, 10,	26, 28, 36, 36, 40, 42	155, 198, 199, 286,
11, 11, 11, 12, 12,	\flushright 174, 193, 212	287, 288, 289, 290,
12, 12, 13, 13, 13,	\fontfamily 48, 56,	291, 292, 293, 294, 295
13, 14, 14, 14, 14,	66, 69, 72, 75, 78, 81	\glossary 16, 175
15, 15, 15, 16, 16,	\foot 169	\gm@notprerr 12, 18
16, 16, 16, 16, 17,	\footins 4, 4,	\goodbreak 864
17, 17, 17, 18, 18,	8, 10, 14, 14, 18, 18,	\grid 68, 72, 334
18, 18, 19, 19, 19,	18, 20, 22, 24, 28,	\grp@aligned 21
19, 20, 20, 20, 20,	28, 32, 32, 32, 34,	\GRP@box 16
21, 21, 21, 22, 22,	36, 38, 42, 42, 46, 48	\grp@eqs@numbered 20
22, 22, 23, 23, 23,	\footnote 266	\grp@hasNumber 25
24, 24, 24, 25, 25,	\footnoteautorefname . . . 3	\GRP@label 17

\grp@linewidth	19	\if@bidi@enumerateloaded@	17	684, 689, 694, 699, 732, 737, 742, 747, 752
\GRP@queue	16	\if@bidi@tocloftloaded@	20	\ifx 3, 4, 5, 6, 7, 8, 9, 10, 10,
\grp@setnumber	25	\if@developmentversion	24	10, 11, 11, 12, 12, 13, 13, 13, 14, 14,
\grp@shiftnumber	22	\if@files w	135	15, 15, 15, 16, 16,
\grp@wdL	18	\if@inlabel	5	17, 17, 17, 18, 18, 18, 18, 19, 19, 19,
\grp@wdNum	19	\if@Latin	81	20, 20, 20, 21, 21, 21, 22, 22, 22, 23,
\grp@wdR	18	\if@newlist	6, 26, 145, 198	23, 23, 24, 24, 24,
\grp@wdT	18	\if@noskipsec	4	25, 25, 25, 26, 26,
H				
\harfi	3, 4, 12, 13, 17, 234	\if@RTL	2	26, 27, 27, 28, 29,
\hb@xt@	184, 194	\if@RTL	2, 2, 2, 2, 2, 2, 2, 3, 3, 3, 3, 3, 4, 4, 4, 4, 5,	30, 31, 48, 56, 57,
\hbox	11, 21, 136, 210, 211	\if@RTL	5, 5, 6, 6, 6, 7, 7, 7, 8, 8, 8, 9, 9, 9, 10,	58, 59, 60, 61, 62,
\headDateFormat	133, 135	\if@RTL	10, 10, 11, 11, 12, 13, 14, 14, 15, 16, 17, 27, 54, 54, 68,	63, 64, 65, 78, 80,
\headerfont	11	\if@RTL	68, 82, 82, 212, 213, 214, 215, 216, 217,	81, 163, 164, 166, 167
\headheight	22, 180, 367	\if@RTL	218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230	\ifXePersian@kabiseh 4, 109
\heading	156	\if@RTL@footnote	5, 5, 9, 11, 12, 12, 16, 18, 45, 45, 56, 56	\ifXePersian@leap 4, 53
\headrulewidth	368, 424	\if@RTLmain	171, 184, 194	\ifxetex 307, 530, 547
\headsep	23, 189	\if@specialpage	154	\ignorespaces 12,
\headtoname	229	\if@twoside	3, 157	12, 16, 18, 26, 26, 30, 32, 39, 40, 40,
\hfil	163, 164, 166, 167	\ifcase	161, 231, 235, 237, 264, 268, 272, 276	44, 46, 56, 56, 70,
\hline	48, 49, 52, 53, 75, 76, 817	\ifcsdef	242	70, 84, 84, 125, 178, 188, 193, 201, 206,
\hrule	12, 700, 706, 753, 759, 804, 844	\ifdim	35, 314, 799	212, 220, 480, 506, 655
\hrulefill	382, 387, 401	\ifnum	36,	\image 302
\hspace	9, 9, 13, 15, 23, 23, 27, 29, 37, 37, 41, 43, 48, 48, 62, 62, 76, 76	\ifodd	43, 47, 54, 54, 68, 68, 75, 81, 82, 82,	\immediate 135
\hskip	12	\ifthenelse	102, 129, 133, 138, 142, 144, 153, 244,	\includegraphics
\hspace	135, 153, 382, 388, 400, 402, 580	\ifnum	246, 248, 250, 252, 254, 266, 270, 274,	317, 531, 548
\ht	12	\ifnum	277, 711, 785, 831, 856	\index 15, 174
\Huge	105, 174, 230	\ifodd	36, 41, 158	\indexEntryFormat
\huge	104	\ifthenelse	54, 55, 66, 75, 179,	123, 125
\Hy@appendixstring	24	\ifnum	194, 213, 234, 352,	\indexEntryPageFormat
\Hy@chapapp	24	\ifnum	430, 431, 461, 493,	129, 131
\Hy@Org@appendix	19, 25	\ifnum	507, 527, 545, 569, 599, 623, 650, 679,	\indexEntryPageTxt
I				
\if	6, 25	\ifodd	36, 41, 158	128, 131
\if@bidi@algorithmicloaded@	8	\ifthenelse	54, 55, 66, 75, 179,	\indexEntrySeparator
\if@bidi@algorithmloaded@	11	\ifnum	194, 213, 234, 352,	127, 655
\if@bidi@backrefloaded@	14	\ifnum	430, 431, 461, 493,	\indexFormat 119, 121
		\ifnum	507, 527, 545, 569, 599, 623, 650, 679,	\indexItem 648, 658, 659, 661
		\ifnum		\indexName 218
		\ifnum		\innerAuthorFormat
		\ifnum		251, 768
		\ifnum		\innerPlaceFormat
		\ifnum		252, 768

\innerSubtitleFormat	241, 242	\lastskip	35	\LRE	118
\innerTextFinalMark	253, 789	\latin	120	\lstlistingname	2
\innerTitleFormat	230, 235, 236	\LatinAlphs	120, 285	\lstlistlistingname	3
\input	8, 9, 10, 11, 12, 13, 14, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327	\Latincite	128	\LTR	120
\insert	14, 14, 18, 20, 28, 28, 32, 34, 42, 42, 46, 48	\latinfont	12, 12, 16, 18, 37, 40, 40, 44, 46, 56, 56, 84, 84, 113, 114, 118	\ltx@ifundefined	21
\interfootnotelinepenalty	6, 6, 10, 12, 20, 20, 24, 26, 34, 34, 38, 40	\latintoday	126	M	
\interlinepenalty	6, 6, 10, 12, 20, 20, 24, 26, 34, 34, 38, 40	\leaders	12	\makeform	105, 112
\intermath@penalty	38	\leavevmode	4, 5, 130, 210	\makeform@correction	18, 112
\iranicdefault	60, 72, 110	\left@footnote	54, 54, 68, 68, 82, 82	\makeform@nocorrection	15, 105
\iranicfamily	70, 71, 84	\let	4, 4, 6, 6, 6, 10, 11, 11, 12, 13, 14, 14, 14, 15, 15, 15, 16, 17, 18, 19, 20, 20, 21, 22, 26, 28, 28, 29, 33, 33, 40, 41, 54, 54, 68, 68, 82, 82, 90, 94, 98, 101, 102, 102, 103, 104, 106, 108, 109, 110, 110, 111, 113, 116, 123, 124, 124, 126, 131, 143, 145, 158, 159, 160, 161, 163, 164, 166, 167, 173, 174, 175, 198, 201, 264, 265, 266, 279, 280, 282, 283, 286, 286, 287, 287, 288, 289, 290, 291, 292, 293, 294, 295	\makemask	106, 113
\item	83, 84, 85, 86	\lineskip	18, 176, 275	\makemask@correction	23, 113
\itemautorefname	4	\lineskiplimit	19, 176	\makemask@nocorrection	20, 106
\itshape	95	\linewidth	66, 128	\maketitle	263, 287
K		\listalgorithmname	4	\MakeUppercase	229
\kashida	11, 33, 34, 35, 36, 37, 38, 39	\listfigurename	215	\makezwnjletter	2, 3
\kern	211	\listtablename	216	\mathbin	45
\ksh	3, 11	\LoadClass	47	\mathchar@type	24, 26
L		\logo	380, 409	\mathchardef	51
\L	6, 30, 34, 35, 36, 39, 40	\long	2, 2, 6, 8, 16, 16, 20, 22, 30, 30, 34, 36, 44, 44, 58, 58, 72, 72	\mathcode	77
\label	14, 173, 784, 830, 854	\longdate	764	\mathiranic	71
\LARGE	103, 190, 254, 257, 270, 272	\loop	130, 139	\mathnavar	74
\Large	102, 209, 259, 386, 669, 703	\lower	210	\mathord	35, 36, 37, 38, 39, 40, 41, 42, 43, 44
\large	101, 113, 119, 199, 218, 241, 261, 274, 280, 392	\lr	107, 118, 125, 133, 136, 140, 162, 554	\mathpersiansf	65
\lastpenalty	36			\mathpersiantt	68
				\mathpook	77
				\mathpunct	46
				\mathsayeh	80
				\mathsurround	32
				\MessageBreak	
					59, 452, 484, 518, 538, 559, 562, 584, 609, 635, 658, 661
				\minilogo	391, 605
				\minaggedcols	
					30, 31, 69, 73, 711, 785, 831, 856
				\mlfttitle	6
				\mltttitle	7
				\month	30
				\movewright	20, 179
				\mtctitle	5
				\multido	353, 359
				\multiply	
					33, 46, 73, 79, 96, 100

\mylogo	396	\newenvironment	7, 61, 97, 299, 405, 567, 597, 621, 775, 824, 850	\or	161, 162, 163, 164, 165, 166, 167, 231, 232, 233, 235, 237, 264, 265, 268, 269, 272, 273, 276	
N		\newfontfamily	32, 37	\originaltoday . . .	124, 125	
\n . . .	53, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65	\newfontlanguage	30	\Ovalbox	695, 748	
\navardefault . . .	61, 75, 98	\newfontscript	29	\ovalbox	690, 743	
\navarfamly	73, 74, 85	\newif	4	P		
\NeedsTeXFormat		\newlength	4, 5, 6, 7, 8, 10, 25, 118, 120	\p@	268	
	1, 1, 1, 1, 1	\newpage	415	\PackageError	9, 12, 15, 17, 18, 21, 209	
\newboolean	12,	\newsavebox	298	\PackageInfo	22	
	14, 16, 18, 20, 22, 24	\newsection	772	\PackageWarning	240	
\newcommand	2, 4, 7, 9, 9, 11, 13, 15, 18, 20, 22, 23, 23, 25, 27, 27, 29, 31, 31, 36, 42, 48, 49, 50, 58, 59, 60, 61, 62, 63, 64, 81, 82, 87, 88, 91, 92, 96, 96, 100, 104, 108, 108, 109, 112, 113, 114, 115, 117, 119, 120, 123, 124, 127, 128, 129, 130, 133, 134, 138, 139, 142, 143, 144, 145, 148, 151, 156, 161, 164, 166, 169, 174, 175, 186, 187, 190, 191, 199, 200, 203, 203, 204, 209, 210, 218, 219, 221, 222, 223, 224, 227, 228, 230, 231, 241, 242, 243, 244, 245, 246, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 297, 302, 334, 366, 380, 391, 396, 404, 428, 459, 491, 525, 544, 648, 666, 673, 715, 723, 766, 772, 792, 809, 838, 863	\nobreak	11	\PackageWarningNoLine	25	
\newcount	5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 20, 21, 22, 23, 24, 25, 26, 26, 27, 27, 30, 332, 333	\noexpand	4, 10, 14, 16, 17, 18, 30, 47, 48, 55, 56, 143	\page@free	312, 314	
\newcounter	32, 33	\nohyphens	180, 195, 214, 235	\pageautorefname	17	
\newdimen	330, 331	\noindent	125, 140, 178, 188, 193, 201, 206, 212, 220, 225, 229, 233, 382, 399, 480, 506, 531, 578, 655, 669, 703, 718, 756, 813, 841, 866, 868	\pagegoal	794	
		\nopagebreak	129	\pagename	228	
		\normalcolor	183, 193	\pagenumbering		
		\normalfont			2, 3, 4, 5, 5, 6, 6	
					\pageref	153, 651
					\pagesFormat	227, 229
					\pagestyle	370
					\pagetotal	795
					\par	3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 4, 7, 7, 7, 7, 7, 7, 16, 18, 30, 32, 44, 46, 67, 129, 270, 272, 278, 280, 281, 770, 855
					\paragraphautorefname	
						13
					\parallel	135
					\parbox	66, 128
					\parindent	
						13, 15, 27, 29, 41, 43
					\partautorefname	7
					\partname	221
					\PassOptionsToClass	
						32, 33, 34
		O			\pbs	14
		\obeyspaces	53		\penalty	32, 38, 133
		\oddsidemargin	159		\persian	122
		\old@endquestion	124, 132		\PersianAlphs	122, 281, 289
		\old@question	123, 130		\persianfont	
		\on@line	12			26, 26, 30, 32, 32, 70, 70, 116, 117, 119

\shortarticleitem ..	863	\textblockorigin ..	329
\shortarticleItemFormat ..	261, 262	\textdegree	143
\shortarticleSubtitleFormat ..	259, 260	\textheight ..	199, 336, 361
\shortarticleTitleFormat ..	257, 258	\textiranic	84
\slftitle	9	\textit	254
\sloppy	13, 15, 27, 29, 41, 43	\textnavar	85
\slttitle	10	\textpersiansf	82
\small	87, 88, 142, 146, 152, 206, 223, 245, 264	\textpersiant	83
\smash	210	\textpook	86
\space	5, 57, 139, 158, 159, 246, 311, 312, 452, 453, 455, 484, 485, 487, 518, 519, 521, 538, 539, 541, 559, 560, 562, 658, 659, 661, 768	\textsayeh	87
\setlength	11, 26, 43, 78, 79, 80, 81, 89, 90, 91, 92, 96, 97, 98, 99, 119, 121, 304, 308, 349, 350, 367, 372, 373, 497, 529, 601, 626, 629, 677, 678, 726, 727, 793, 794, 810	\textsc	256
\SetMathCharDef ..	25, 46	\texttt	113
\SetMathCode ..	23, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45	\textwidth	9, 23, 37, 48, 62, 63, 76, 184, 194, 335, 355, 667
\SetMathsDigits ..	79, 80, 81, 83, 84	\thanks	266, 286
\setmonofont	41	\the	3, 8, 22, 85, 132, 141, 151, 311, 312, 797
\setnavarfnt	96	\thechoice	35, 57
\setpersianfont	115, 122, 171	\thebook	5
\setpersianmonofont	92	\thechapter	4, 7, 7, 7, 7, 7, 7, 11, 11, 11, 11, 11, 11
\setpersiansansfont	88	\thechapter	14, 19
\setpookfont	100	\theHchapter	23
\setsansfont	40	\theHsection	22
\setsayehfont	104	\theoremautorefname	16
\settextfont	31	\thepage	139, 153
\setthesection	4	\theprt	2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 3, 6, 6, 6, 6
\sffamily	108	\thequestion	56, 98, 134
\shadowbox	680, 733	\thesection .....	..... 5, 6, 6, 6, 6, 6, 6
\shadowsize	678, 727, 731	\thirdarticle .....	..... 491, 518, 519, 521
\shipout	8, 148	\thirdSubTitleFormat	218, 220
		\thirdTextFormat	221, 222
		\thirdTitleFormat .....	..... 209, 214, 215
		\thispagestyle	408, 413
		\timestamp	246, 443, 473, 509
		\timestampFormat	245, 247
		\timestampSeparator	244, 249
		\tablename	213
		\tartibi	5, 14, 15, 19, 238
		\test	17, 18, 19
		\textbf	2, 3, 669, 703, 718, 756
		\textit	83
		\tiny	292
		\tmp	14

\today	124, 125, 126, 127, 764	\weatheritem	.....	\xepersian@gridcolumns
\topmargin	..... 20, 178	.....	544, 559, 560, 562	..... 27, 29, 68, 72
\TPHorizModule	. 124,	\weatherTempFormat	.....	\xepersian@gridrows
	349, 448, 480, 531,	.....	142, 552	..... 26, 28, 68, 72
	578, 579, 602, 603, 626	\weatherUnits	.... 143, 554	\xepersian@headcenter
\TPVertModule	.... 350	\whiledo	..... 39	..... 148, 158, 420
\true	.... 87	\write	..... 135	\xepersian@headDateTime
\truesymbol	.... 81			..... 134, 388, 402
\twocolumnstableofcontents		X		\xepersian@headleft
	..... 203	\X	..... 13	..... 145, 157, 419
\typeout	.... 21, 23, 297	\xdef	.... 11, 24, 35, 40,	\xepersian@headright
			64, 65, 88, 89, 92, 93	..... 151, 159, 418
U		\XePersian	.... 162, 210	\XePersian@i
\undefined	.... 78, 80, 81	\xepersian@coltitlesize	..... 5,	.... 128, 129, 131, 132,
\undefined	.... 12, 48	..... 5, 728, 729, 730,	133, 136, 140, 141,	
\unpenalty	.... 38	..... 731, 734, 739, 744, 749	144, 145, 148, 151, 153	
\unskip	.... 16,	\xepersian@cx	.... 332, 337, 354	\xepersian@imgsize
	18, 30, 32, 35, 44, 46	\xepersian@cy	.... 333, 338, 360	.... 4, 305, 306, 308, 317, 318
\unvbox	.... 14, 14,	\XePersian@d	.... 5,	\xepersian@incolumentitle
	18, 20, 28, 28, 32,	..... 30, 135, 154, 156, 158	715, 734, 739, 744, 749	
	34, 42, 42, 46, 46,	\XePersian@dn	.... 124, 132,	\xepersian@indexEntry
	46, 48, 60, 60, 74, 74	..... 135, 138, 142, 154, 156	..... 124, 651	
\usebox	.... 301	\xepersian@dx	.... 330, 335, 346, 349	\xepersian@indexEntryPage
\usecounter	.... 70	\xepersian@dy	.... 331, 336, 347, 350	..... 130, 651
V		\xepersian@edition	\xepersian@indexFrameTitle	
\V	.... 9, 31	..... 112, 116, 152, 272, 404	.... 120, 627	
\value	.... 39, 55	\xepersian@editionLogo	..... 666, 681, 686, 691, 696	\xepersian@indexwidth
\vbox	.... 5, 5, 8, 9, 11,	..... 114, 382, 400	.... 8, 127, 626, 630, 631	
	19, 19, 21, 23, 25,	\xepersian@editorialTit	\xepersian@inexpandedtitle	
	33, 33, 37, 39, 45,	..... 809, 828	.... 666, 681, 686, 691, 696	
	45, 59, 59, 73, 73,	\xepersian@editorialTitle	\xepersian@innerSubtitle	
	148, 179, 180, 840, 866	..... 255, 814	.... 242, 782	
\vfil	.... 181, 267, 283	\xepersian@everyjob	\xepersian@innerTitle	
\voidb@x	.... 16	..... 22, 23	.... 231, 781	
\vskip	.. 20, 22, 23, 178,	\xepersian@firstText	\xepersian@kabisehfalse	
	189, 268, 271, 273, 279	..... 187, 443	.... 75, 81	
\vspace	.... 67,	\xepersian@firstTitle	\xepersian@kabisehtrue	
	127, 129, 303, 322,	..... 175, 438	.... 81	
	384, 394, 437, 441,	\xepersian@fmbox	\xepersian@latin .	
	464, 467, 471, 478,	.... 298, 300, 301	6, 52	
	496, 500, 504, 513,	\xepersian@footcenter	\xepersian@latinii	
	572, 576, 632, 653,	.... 164, 171, 423	.... 7, 54, 56	
	701, 705, 724, 754,	\xepersian@footleft	\xepersian@latiniii	
	758, 803, 805, 815,	.... 166, 170, 422	.... 8, 58	
	818, 843, 845, 865, 867	\xepersian@footright	\xepersian@latiniv	
W		.... 161, 172, 421	.... 9, 59	
\weatherFormat	.. 138, 140		\xepersian@latinix	
			.... 10, 60	
			\xepersian@latinvi	
			.... 11, 61	

\XePersian@latinvii	..... 12, 62	\XePersian@persianxi	..... 16, 121	\xepersian@thirdText	..... 222, 509
\XePersian@latinviii	..... 13, 63	\XePersian@persianxii	..... 17, 122	\xepersian@thirdTitle	..... 210, 498
\XePersian@latinx	15, 65	\XePersian@persianxiii	..... 18, 123	\XePersian@thirtytwo	..... 24, 68, 75
\XePersian@latinxi	..... 16, 66	\xepersian@pictureCaption	..... 224, 320, 534	\xepersian@weather	..... 139, 574
\XePersian@latinxii	..... 17, 67	\xepersian@say	..... 297, 777, 797, 800, 802, 826, 852	\xepersian@www	.. 109, 382
\XePersian@leapfalse	..... 37, 41, 47	\xepersian@secondSubtitle	..... 200, 469	\xepersian@wwwFormat	..... 108, 110
\XePersian@leaptrue	..... 47, 48	\xepersian@secondText	..... 204, 473	\XePersian@y	..... 5, 30, 31, 34, 44, 47, 69, 83, 146, 149, 159
\XePersian@m	.. 5, 30, 126, 145, 148, 159	\xepersian@secondTitle	..... 191, 465	\XePersian@yModHundred	.. 23, 34, 35, 36, 39, 43
\XePersian@mminusone	. 27, 126, 127, 129, 133	\xepersian@section	..... 144, 149, 773	\xepersiancommit	3, 5, 17
\xepersian@ncol	. 359, 360	\xepersian@shortarticleItem	..... 262, 866	\xepersiandate	.. 4, 5, 17
\xepersian@ncolumns	..... 9, 710, 711, 778	\xepersian@shortarticleSubtitle	..... 260, 846	\xepersianinfo	.. 12, 21, 23
\xepersian@nrow	. 353, 354	\xepersian@shortarticleTit	..... 838, 853	\xepersianInit	.. 65, 366
\xepersian@PackageInfo	..... 22, 32	\xepersian@shortarticleTitle	..... 258, 842	\xepersianversion	.
\xepersian@pageleft	.. 7, 794, 795, 797, 799	\XePersian@sn	..... 20, 31, 32, 33,	\XeTeXcharclass	.. 19
\xepersian@pageneed	..... 6, 308, 309, 311, 314, 793, 799	..... 35, 39, 40, 41, 44, 45, 46, 47, 69, 70,	\XeTeXinterchartokenstate		
\xepersian@pages	.. 228, 463, 495, 780	..... 71, 74, 75, 77, 80, 81, 85, 86, 89, 92,	\XeTeXinterchartok	..... 42	
\XePersian@persiani	.. 6, 106, 107, 137, 154	..... 97, 102, 104, 105, 107	\XeTeXinterchartitle	..... 33, 34,	
\XePersian@persianii	..... 7, 108	\XePersian@temp	..... 35, 39, 40, 41, 44, 45, 46, 47, 69, 70,	\XeTeXmathchardef	.. 26
\XePersian@persianiii	..... 8, 110, 112	\XePersian@tempthree	..... 71, 74, 75, 77, 80, 81, 85, 86, 89, 92,	\XeTeXmathcode	..... 24
\XePersian@persianiv	..... 9, 114	\XePersian@tempthree	..... 97, 102, 104, 105, 107	\XKV@rm	..... 31
\XePersian@persianix	..... 14, 119	\XePersian@tempthree	..... 22, 83, 84,	\xpg@warning	.. 239, 244, 246
\XePersian@persianv	..... 10, 115	\XePersian@tempthree	..... 85, 87, 90, 93, 94, 98, 101, 102, 103, 104	Y	
\XePersian@persianvi	..... 11, 116	\XePersian@temptwo	..... 21, 71,	\year	..... 30
\XePersian@persianvii	..... 12, 117	\XePersian@temptwo	..... 72, 73, 74, 77, 78, 79, 80, 87, 88, 89,	Z	
\XePersian@persianviii	..... 13, 118	\XePersian@temptwo	..... 90, 91, 92, 94, 95, 96, 97, 98, 99, 100, 101	\z@	.. 3, 5, 12, 12, 16, 18, 18, 19, 19, 26,
\XePersian@persianx	..... 15, 120	\xepersian@thirdSubtitle	..... 219, 502		26, 30, 30, 32, 32, 40, 40, 44, 46, 56, 56, 70, 70, 81, 84, 84, 158, 176, 187, 246, 266, 270, 274, 277

\ziffer@dcheck	53, 54	\	9, 10	\	3, 7
\ziffer@DotOri	51, 54	\	2, 8, 9	\	2
\ZifferAn	49, 52	\	2, 3, 4, 5, 6, 7, 8, 9, 12	\	10
\ZifferLeer	54, 78	\	9, 10		
\zwj	2, 11, 12	@ \	3, 7		
		◆		◆	
		\	1, 1, 1	@ \	3
		\	4, 11, 12	\	9

9 Change History

v1.1.0β1.2
 General: Update the documentation. . . 1