

The XePersian Package



Persian for L^AT_EX 2_& over XeT_EX

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1 Introduction

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

1.1 Important Notes

- ☞ The XePersian package only works with XeTeX engine.
- ☞ Before reading this documentation, you should have read the documentation of the *bidi* package. The XePersian package automatically loads *bidi* package with *RTLdocument* option enabled and hence any commands that *bidi* package offers, is also available in XePersian package. Here, in this documentation, we will not repeat any of *bidi* package's commands.

 In previous versions ($\leq 1.0.3$) of XePersian, a thesis class provided for typesetting thesis. As of version 1.0.4, we no longer provide this class because we are not familiar with specification of a thesis in Iran and even if we were, the specifications are different from University to University. XePersian is a general package like 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.

1.2 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 © 2008–2013 Persian TeX Group
v12.8, 2013/05/01
License: LaTeX Project Public License, version 1.3c or higher (your choice
)
Location on CTAN: /macros/xetex/latex/xepersian
```

2 Basics

2.1 Loading The Package

You can load the package in the ordinary way;

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

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

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

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

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

For instance, consider the following minimal example:

```

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

```

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

```

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

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

?

```

2.2 XePersian's Symbol

As you may know lion symbolizes T_EX but lion does not symbolizes XePersian. **Simorgh**¹ (shown on the first page of this documentation) symbolizes XePersian.

2.3 Commands for Version number, and Date of The Package

\xepersianversion	\xepersiandate
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- ☞ \xepersianversion gives the current version of the package.
- ☞ \xepersiandate gives the current date of the package.

```

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

```

2.4 Options of The Package

There are four options:

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

2.4.1 `extrafootnotefeatures` Option

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

2.4.2 `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 unfortunately X series fonts of IRMUG (Iranian Mac Users Group) do not have Kashida support and if you use any of these fonts with `Kashida` option enabled, the result on the PDF viewed on the monitor is not pleasant, 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 or any other fonts that has fine Kashida support, like `Persian Modern` font (the default font of XePersian package).

Note that you can not use `Kashida` option when you are using Nastaliq-like font (well, you still can use `Kashida` option when you use any Nastaliq-like font, but I can not guarantee high quality output!).

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

```
\KashidaOn \KashidaOff
```

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

2.4.3 `quickindex` Option

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

2.4.4 `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 `IATEX` environments are shown in [Table 3](#) and Persian equivalents of XePersian environments are shown in [Table 4](#)

Please note that the Persian equivalents of L^AT_EX and T_EX 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 L^AT_EX and T_EX commands and environments, but still original L^AT_EX and T_EX commands and environments work too.

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

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

<code>\eqcommand{\{command-name in Persian\}}{\{original L^AT_EX command-name\}}</code>	
<code>\eqenvironment{\{environment-name in Persian\}}{\{original L^AT_EX environment-name\}}</code>	

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 چکیده
<code>\accent</code>	\ اکسنت
<code>\active</code>	\ فعل
<code>\addcontentsline</code>	\ بیفزاسطرفهرست
<code>\addpenalty</code>	\ اضافه بر جریمه
<code>\address</code>	\ انشانی
<code>\addtocontents</code>	\ بیفزابه فهرست
<code>\addtocounter</code>	\ اضافه بر شمارنده
<code>\addtolength</code>	\ اضافه بر بعد
<code>\addvspace</code>	\ بیفزاضای و
<code>\adjdemerits</code>	\ تنظیم بد نمایی
<code>\advance</code>	\ بیفزابر
<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

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Command in TeX or L ^A T _E X	Equivalent Persian Command
\allowbreak	\شکستنی
\alloc@	\تخصی
\allocationnumber	\تخصیمنیافته
\allowdisplaybreaks	\شکستنمایشمجاز
\Alph	\حروفبزرگ
\alph	\حروفکوچک
\alsooname	\نامهمچنین
\and	\و
\angle	\زاویه
\appendixname	\عنوانپیوست
\approx	\اقریب
\arabic	\عربی
\arg	\آرگ
\arrayrulecolor	\رنگخطجدول
\arraycolsep	\فاصلهستونهایآرایه
\arrayrulewidth	\ضخامتخطجدول
\arraystretch	\کشیدگیآرایه
\AtBeginDocument	\درآغازنوشتار
\AtEndDocument	\درپایاننوشتار
\AtEndOfClass	\درانتهایطبقه
\AtEndOfPackage	\درانتهایسبک
\author	\نویسنده
\backmatter	\مطلوبپشت
\backslash	\شکافپشت
\badness	\بدنمایی
\bar	\میله
\baselineskip	\فاصلهکرسی
\baselinestretch	\کشنفاصلهکرسی
\batchmode	\پردازشدستهای
\begin	\شروع
\beginL	\شروعچپ
\beginR	\شروعراست
\begingroup	\شروعگروه
\belowdisplayshortskip	\فاصلهکوتاهپاییننمایش
\belowdisplayskip	\فاصلهپاییننمایش
\bf	\سیاه
\bfdefault	\پیشفرضسیاه
\bfseries	\شمایلسیاه
\bgroup	\شرگروه
\bibitem	\مرجوع
\bibliography	\کتابنامه
\bibliographystyle	\سبککتابنامه
\bibname	\عنوانکتابنامه
\bigskip	\پرشبلند

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Command in TeX or L ^A T _E X	Equivalent Persian Command
\bigskipamount	\مقدار پرش بلند
\botfigrule	\خط پایین شناور
\botmark	\علامت پایین
\bottompageskip	\کادر تا پایین
\bottomfraction	\نسبت پایین
\box	\کادر
\boxmaxdepth	\حداکثر عمق کادر
\break	\ بشکن
\bullet	\گلوله
\@cclv	\دوفین@پنج
\@cclvi	\دوفین@شش
\caption	\شرح
\catcode	\کدرده
\cc	\رونوشت
\ccname	\نام رونوشت
\cdot	\ نقطه وسط
\cdots	\ نقاط وسط
\centering	\ تنظیم از وسط
\centerline	\ خط وسط
\ch@ck	\چک@ن
\chapter	\فصل
\chaptername	\عنوان فصل
\char	\نویسه
\chardef	\تعريف نویسه
\CheckCommand	\بررسی فرمان
\cite	\مرجع
\ClassError	\خطای طبقه
\ClassInfo	\اطلاع طبقه
\ClassWarning	\هشدار طبقه
\ClassWarningNoLine	\هشدار طبقه بی سطر
\leaders	\انشانگر مرکزی
\cleardoublepage	\دوصفحه پاک
\clearpage	\صفحه پاک
\cline	\خط ناپر
\closein	\ابند و روای
\closeout	\ابند خروجی
\closing	\استن
\clubpenalty	\حریمه سربند
\clubsuit	\خارج
\colbotmark	\علامت پایین ستون اول
\colfirstmark	\علامت اول ستون اول
\color	\رنگ
\colorbox	\کادر رنگ
\coltopmark	\علامت بالای ستون اول

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Command in TeX or L ^A T _E X	Equivalent Persian Command
\columncolor	\رنگ ستون
\columnsep	\ابین ستون
\columnwidth	\پهناى ستون
\columnseprule	\خط بین ستون
\contentsline	\اسطر فهرست
\contentsname	\عنوان فهرست مطالب
\copy	\کپی
\copyright	\حق تالیف
\count	\شمار
\count@	\شمار @
\countdef	\تعريف شمار
\cr	\سخ
\crcr	\اسخ سخ
\csname	\نام فرمان
\CurrentOption	\گزینه جاری
\dashbox	\کادر بیناییں
\dashv	\بیناییں ع
\@date	\@تاریخ
\date	\تاریخ
\day	\روز
\dblbotfigrule	\خط پایین شناور پهن
\dblbottomfraction	\نسبت پهن پایین
\dblfigrule	\خط بالا شناور پهن
\dblfloatpagefraction	\نسبت صفحه شناور پهن
\dblfloatsep	\فاصله بین شناور پهن
\dblntlocatecode	\کدمکان غیر همان نظر
\dbltxtfloatsep	\فاصله متن و شناور پهن
\dbltopfraction	\نسبت پهن بالا
\DeclareFixedFont	\اعلان قلم ثابت
\DeclareGraphicsExtensions	\اعلان پسوند گرافیک
\DeclareGraphicsRule	\اعلان دستور گرافیک
\DeclareOldFontCommand	\اعلان فرمان قلم قدیمی
\DeclareOption	\اعلان گزینه
\DeclareRobustCommand	\اعلان فرمان قوی
\DeclareSymbolFont	\اعلان قلم علائم
\deadcycles	\دوربسته
\def	\تر
\define@key	\تعريف @ کلید
\definecolor	\تعريف رنگ
\deg	\درجہ
\delcode	\کد ج داساز
\delimiter	\ج داساز
\delimiterfactor	\ضریب ج داساز
\depth	\اگودی

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Command in TeX or L ^A T _E X	Equivalent Persian Command
\diamondsuit	\خشت
\dim	\ابعاد
\dimen	\بعد
\dimen@	@\بعد
\dimen@i	\بعد@یک
\dimen@ii	\بعد@دو
\dimendef	\تعريفبعد
\discretionary	\اتیرهگذاری
\displaybreak	\شکستنمايش
\displayindent	\تورفتگى نمايش
\displaystyle	\سبک نمايش
\displaywidth	\عرض نمايش
\divide	\ تقسيم
\documentclass	\طبقه نوشتار
\do	\اكن
\dospecials	\اعویض کدها
\dot	\ نقطه
\doteq	\ نقطه مساوى
\dotfill	\ پر نقطه
\dots	\ نقاط
\doublebox	\کادر دولا
\doublerulesepcolor	\رنگ فاصله دو خط جدول
\doublerulesep	\فاصله بین دو خط
\downarrow	\فلش پایین
\dp	\عمق
\dump	\تخليه
\edef	\ترگ
\egroup	\پاگروه
\eject	\انتهای فاصله
\else	\گرنه
\em	\تاکید
\emergencystretch	\کشش لاجرم
\emph	\موکد
\empty	\@_پوج
\emptyset	\اچ
\emptyset	\مجموعه پوج
\end	\پيان
\endL	\پيان چپ
\endR	\پيان راست
\endcsname	\پيان نام فرمان
\endfirsthead	\پيان اولين سر
\endfoot	\پيان پا
\endgraf	\ته بند
\endgroup	\پيان گروه

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Command in TeX or L ^A T _E X	Equivalent Persian Command
\endhead	\پایان سر
\endinput	\پایان ورودی
\endlastfoot	\پایان آخرین پا
\enlargethispage	\گسترش این صفحه
\endline	\نه سطر
\endlinechar	\نویسه ته سطر
\enspace	\ان دوری
\enskip	\ان فاصله
\eqcommand	\فرمان جانشین
\eqenvironment	\محیط جانشین
\eqref	\ارجاع فر
\errhelp	\کمک خطأ
\errmessage	\پیام خطأ
\errorcontextlines	\سطر متن خطأ
\errorstopmode	\پردازش توقف خطأ
\escapechar	\نویسه ویژه
\euro	\یورو
\evensidemargin	\حاشیه زوج
\everycr	\هر سخ
\everydisplay	\هر نمایش
\everyhbox	\هر کادرا
\everyjob	\هر کار
\everymath	\هر ریاضی
\everypar	\هر بند
\everyvbox	\هر کادرو
\ExecuteOptions	\اجرای گزینه ها
\exhyphenpenalty	\حریمه اضافی تیره بندی
\expandafter	\بگسترت پس از
\extracolsep	\فاصله اضافی بین ستونها
\@firstofone	\اولی ازیک
\@firstoftwo	\اولی از دو
\f@ur	\ج@ار
\fam	\خانواده
\fancypage	\صفحه تجملی
\fbox	\کادر با
\fboxrule	\ضخامت کادر با
\fboxsep	\حاشیه کادر با
\fcolorbox	\کادر بارنگ
\fi	\ارگ
\figurename	\عنوان شکل
\filbreak	\پرسکن
\fill	\پر
\firstmark	\علامت اول
\flat	\پهن

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Command in TeX or L ^A T _E X	Equivalent Persian Command
\floatpagefraction	\نسبت صفحه شناور
\floatingpenalty	\جريمه شناور
\floatsep	\فاصله بین شناور
\flushbottom	\تنظيم از پایین
\fmtname	\شکل‌نامه
\fmtversion	\ردہ شکل‌نامه
\fnsymbol	\انشانه
\font	\قلم
\fontdimen	\بعد قلم
\fontencoding	\رمزینه قلم
\fontfamily	\فamilی قلم
\fontname	\نام قلم
\fontseries	\شمايل قلم
\fontshape	\شكل قلم
\fontsize	\اندازه قلم
\footheight	\بلندای پایین صفحه
\footins	\درج زیرنویس
\footnote	\ازیرنویس
\footnotemark	\علامت زیرنویس
\footnoterule	\خط زیرنویس
\footnotesep	\فاصله تازی زیرنویس
\footnotesize	\اندازه زیرنویس
\footnotetext	\امتن زیرنویس
\footskip	\فاصله تا پایین صفحه
\frame	\فریم
\framebox	\کادر با خطر
\frenchspacing	\فواصل یکنواخت لاتین
\frontmatter	\مطلوب پیش
\futurelet	\بعدگذار
\@gobble	\@خور حریصانه
\@gobbletwo	\@خور حریصانه دو
\@gobblefour	\@خور حریصانه چهار
\@gtempa	\آعاقت آ
\@gtempb	\@آعاقت ب
\gdef	\ترع
\GenericInfo	\الگوی اطلاع
\GenericWarning	\الگوی هشدار
\GenericError	\الگوی خطا
\global	\عام
\globaldefs	\تعاریف عام
\glossary	\لغت نامه
\glossaryentry	\اقرہ فرنگ
\goodbreak	\خوش شکن
\graphpaper	\کاغذگراف

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Command in TeX or L ^A T _E X	Equivalent Persian Command
\guillemotleft	\گیومه چپ
\guillemotright	\گیومه راست
\guilsinglleft	\گیومه تکی چپ
\guilsinglright	\گیومه تکی راست
\halign	\ردیف ا
\hang	\برو تو
\hangafter	\بعداز سطر
\hangindent	\تورفتگی ثابت
\hbadness	\ا بد نمایی ا
\hbox	\کادر ا
\headheight	\بلندای سرصفحه
\headsep	\فاصله از سرصفحه
\headtoname	\سر به نام
\heartsuit	\دل
\height	\بلندا
\hfil	\پرا
\hfill	\پررا
\hfilneg	\رفع پرا
\hfuzz	\پر زافقی
\hideskip	\فاصله مخفی
\hidewidth	\عرض پنهان
\hline	\خط پر
\hoffset	\حاشیه ا
\holdinginserts	\حفظ درج
\hrboxsep	\فاصله اگرد
\hrule	\خط ا
\rulefill	\پر خط ا
\hsize	\طول سطر
\hskip	\فاصله ا
\hspace	\فضای ا
\hss	\هر دوا
\ht	\ارتفاع
\huge	\بزرگ
\Huge	\بزرگ تر
\hyperlink	\ابر پیوند
\hypersetup	\بارگذاری ابر
\hypertarget	\هدف ابر
\hyphenation	\تیره بندی
\hyphenchar	\نویسه تیره
\hyphenpenalty	\جريمه تیره بندی
\@ifclassloaded	@\@گر کلاس فراخوانی شده
\@ifdefinable	@\@گر ترشدنی
\@ifnextchar	@\@گر نویسه بعدی
\@ifpackageloaded	@\@گر سبک فراخوانی شده

Continued on next page

Command in TeX or L ^A T _E X	Equivalent Persian Command
\@ifstar	\@گرستاره
\@ifundefined	\@گرتعریفنشده
\if	\اگر
\if@tempswa	\اگر@سواقتآ
\ifcase	\اگرانواع
\ifcat	\اگررده
\ifdefined	\اگرتعریفشده
\ifdim	\اگربعد
\ifeof	\اگرتهپرونده
\iff	\اگرر
\iffalse	\اگرنادرست
\IfFileExists	\اگرپرونده موجود
\ifhbox	\اگرکادرا
\ifhmode	\اگرحالتا
\ifinner	\اگردرونی
\ifmmode	\اگرحالتریاضی
\ifnum	\اگرعدد
\ifodd	\اگرفرد
\ifthenelse	\اگرآنگاهدیگر
\iftrue	\اگدرست
\ifvbox	\اگرکادرو
\ifvmode	\اگرحالتو
\ifvoid	\اگرتهی
\ifx	\اگرتم
\ignorespaces	\فاصله خالی راندیده بگیر
\immediate	\فوری
\include	\شامل
\includegraphics	\درج تصویر
\includeonly	\مشمولین
\indent	\تورفتگی
\index	\درنمايه
\indexentry	\استعلام
\indexname	\عنوان نمایه
\indexspace	\فاصله رهنما
\input	\ورودی
\InputIfFileExists	\ورود پرونده گرموجود
\inputlineno	\شماره سطر ورودی
\insert	\درج
\insertpenalties	\جريمه درج
\interfootnotelinepenalty	\جريمه بین سطرهای زیرنویس
\interdisplaylinepenalty	\جريمه بین سطرهای نمایش
\interlinepenalty	\جريمه بین سطرهای
\intertext	\امتن داخلی
\intertextsep	\فاصله شناور در متن

Continued on next page

Command in TeX or L ^A T _E X	Equivalent Persian Command
\invisible	\مخفی
\itdefault	\پیش فرض ای
\itshape	\اشکل ایتالیک
\item	\فقره
\itemindent	\تورفتگی فقره
\itemsep	\فاصله فقره
\iterate	\تکرار کن
\itshape	\اشکل ای
\jobname	\نام کار
\jot	\قلپ
\kern	\دوری
\kill	\الگو
\label	\برچسب
\labelenumi	\برچسب شمارش یک
\labelenumii	\برچسب شمارش دو
\labelenumiii	\برچسب شمارش سه
\labelenumiv	\برچسب شمارش چهار
\labelitemi	\برچسب فقره یک
\labelitemii	\برچسب فقره دو
\labelitemiii	\برچسب فقره سه
\labelitemiv	\برچسب فقره چهار
\labelsep	\فاصله از برچسب
\labelwidth	\پنهانی برچسب
\language	\ازبان
\large	\درشت
\Large	\درشت تر
\LARGE	\درشت درشت
\lastbox	\آخرین کادر
\lastkern	\آخرین دوری
\lastpenalty	\آخرین جریمه
\lastskip	\آخرین فاصله
\LaTeX	\لاتک
\LaTeXe	\لاتک ای
\lccode	\کد کوچک
\ldots	\نقاط خ
\leaders	\انسانگر
\leavevmode	\ترک و
\left	\چپ
\leftmargin	\حاشیه چپ
\leftmargini	\حاشیه چپ یک
\leftmarginii	\حاشیه چپ دو
\leftmarginiii	\حاشیه چپ سه
\leftmarginiv	\حاشیه چپ چهار
\leftmarginv	\حاشیه چپ پنج

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Command in TeX or L ^A T _E X	Equivalent Persian Command
\leftmargini	\حاشیه چپ شش
\leftmark	\علامت چپ
\leftskip	\کادرتا چپ
\leftskip	\فاصله ابتدای سطر
\let	\بگذار
\line	\سطر
\linebreak	\سطرشکن
\linepenalty	\جریمه سطر
\lineskip	\فاصله سطرها
\lineskiplimit	\حد فاصله سطر
\linespread	\کشش فاصله سطر
\linethickness	\ضخامت خط
\linewidth	\پهنهای سطر
\listfigurename	\عنوان فهرست اشکال
\listfiles	\لیست پرونده ها
\listoffigures	\فهرست اشکال
\listoftables	\فهرست جداول
\listparindent	\تورفتگی بند لیست
\listtablename	\عنوان فهرست جداول
\LoadClass	\بارگذار کن طبقه
\LoadClassWithOptions	\بارگذار کن طبقه با گزینه
\location	\مکان
\long	\بلند
\loop	\حلقه
\looseness	\گسیختگی
\lower	\انتقال پایین
\@makeother	\دیگر @ \
\@m	\@ زار
\@M	\@ زار
\@Mi	\@ زاریک
\@Mii	\@ زاردو
\@Miv	\@ زارسه
\@MM	\@ زارچهار
\m@ne	\@ زار
\mag	\بزرگ نمایی
\magstep	\گام
\magstephalf	\نیم گام
\mainmatter	\مطلوب اصلی
\makeatletter	\ات حرف
\makeatother	\ات دیگر
\makebox	\کادر بی خطا
\makeglossary	\اساخت فرهنگ
\makeindex	\اتهیه نمایه

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Command in TeX or L ^A T _E X	Equivalent Persian Command
\makelabel	\ساختبرچسب
\makelabels	\ساختبرچسبها
\MakeLowercase	\ساختحروفکوچک
\maketitle	\عنوانساز
\MakeUppercase	\ساختحروفبزرگ
\marginpar	\درحاشیه
\marginparpush	\فاصلهدوحاشیه
\marginparsep	\فاصلهتحاشیه
\marginparwidth	\پنهانیحاشیه
\mark	\علامت
\markboth	\علامتدردوطرف
\markright	\علامتدرراست
\mathaccent	\اعرابریاضی
\mathchar	\نویسهریاضی
\mathchardef	\تعریفنویسهریاضی
\mathcode	\کدریاضی
\mathrm	\ریاضیرومن
\maxdeadcycles	\حداکثرتکرار
\maxdepth	\حداکثرعمقصفحه
\maxdimen	\بعدیشین
\mbox	\کادربی
\mdseries	\شمایلنازک
\meaning	\معنا
\mediumseries	\نازک
\medmuskip	\فاصلهمتوسطریاضی
\medskip	\پرشمتوسط
\medskipamount	\مقدارپرشمتوسط
\medspace	\فضایمتوسط
\message	\پیام
\MessageBreak	\پیامشکن
\minrowclearance	\حداقلفاصلهردیف
\mkern	\دوریریاضی
\month	\ماه
\moveleft	\انتقالبچپ
\moveright	\انتقالبراست
\mskip	\فاصلهریاضی
\m@th	\ری@ضی
\multicolumn	\چندستونی
\multiply	\ضرب
\multispan	\چندادغام
\muskip	\میوفاصله
\muskipdef	\تعریفمیوفاصله
\@namedef	\@ترنام
\@nameuse	\@کاربردنام

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Command in TeX or L^AT_EX Equivalent Persian Command

\@ne	\@یک
\name	\نام
\natural	\طبيعي
\nearrow	\باريک
\nearrower	\باريکتر
\NeedsTeXFormat	\شكلبندی موردنیاز
\neg	\منفی
\negmedspace	\فضای متوسط منفی
\negthickspace	\فضای ضخیم منفی
\negthinspace	\دوری کوچک منفی
\newboolean	\ابولی نو
\newbox	\کادر جدید
\newcommand	\فرمان نو
\newcount	\شمارج دید
\newcounter	\شمارنده جدید
\newdimen	\بعد جدید
\newenvironment	\محیط نو
\newfam	\خانواده جدید
\newfont	\اقلم نو
\newhelp	\کمک جدید
\newif	\گر جدید
\newinsert	\درج جدید
\newlabel	\برچسب جدید
\newlength	\تعريف بعد جدید
\newline	\اسطر جدید
\newlinechar	\نویسه سطر جدید
\newmuskip	\میوفاصله جدید
\newpage	\صفحه جدید
\newread	\بخوان جدید
\newsavebox	\تعريف کادر جدید
\newskip	\فاصله جدید
\newtheorem	\قضیه جدید
\newtoks	\جزء جدید
\newwrite	\بنویس جدید
\noalign	\ابی ردیف
\nobreak	\نشکن
\nobreakspace	\فاصله نشکستنی
\nocite	\ بدون سند
\noexpand	\نگستر
\nofiles	\ بدون پرونده
\noindent	\ بدون تورفتگی
\nointerlineskip	\ابی فاصله سطر
\nolimits	\ بدون حد
\nolinebreak	\اسطر نشکن

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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	\فاصله کرسی متعارف
\normalcolor	\رنگ عادی
\normalfont	\قلم عادی
\normallineskip	\فاصله سطرمتعارف
\normallineskiplimit	\حد فاصله سطرمتعارف
\normalmarginpar	\در حاشیه عادی
\normalsize	\اندازه عادی
\notag	\ بدون اتیکت
\null	\ انول
\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
\@outeqnfal	\ شماره بیرون نادرست
\obeylines	\ سطر به سطر
\obeyspaces	\ فضای عال
\oddsidemargin	\ حاشیه فرد
\offinterlineskip	\ سطور بی فاصله
\omit	\ حذف
\@onlypreamble	\@ تنها در پیش درآمد
\onecolumn	\ یک ستون
\onlynotes	\ تنها یادداشت ها
\onlyslides	\ تنها اسلاید ها
\openin	\ باز کن ورودی
\openout	\ باز کن خروجی
\OptionNotUsed	\ گزینه مصرف نشده
\or	\ یا
\outer	\ بروني
\output	\ صفحه بندی
\outputpenalty	\ جریمه صفحه بندی
\overfullrule	\ علامت سریز
\@preamblecmds	\@ فرمان های پیش درآمد
\p@	\ پو
\PackageError	\ خطای سبک

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Command in TeX or L ^A T _E X	Equivalent Persian Command
\PackageInfo	\اطلاع‌سبک
\PackageWarning	\هشدار‌سبک
\PackageWarningNoLine	\هشدار‌سبک‌بی‌سطر
\pagebreak	\صفحه‌شکن
\pagecolor	\رنگ‌صفحه
\pagedepth	\عمق‌صفحه
\pagefillstretch	\کشش‌پررصفحه
\pagefillstretch	\کشش‌پررصفحه
\pagefilstretch	\کشش‌پرصفحه
\pagegoal	\غایت‌صفحه
\pagename	\نام‌صفحه
\pagenumbering	\شماره‌گذاری‌صفحه
\pageref	\رجوع‌صفحه
\pagerulewidth	\ضخامت‌خط‌صفحه
\pageshrink	\فشردگی‌صفحه
\pagestretch	\کشش‌صفحه
\pagestyle	\سبک‌صفحه
\agetotal	\جمع‌صفحه
\paperheight	\بلندای‌کاغذ
\paperwidth	\پهنای‌کاغذ
\par	\بند
\paragraph	\پاراگراف
\parallel	\موازی
\parbox	\کادرپار
\parfillskip	\فاصله‌ته‌بند
\parindent	\تورفتگی‌سربند
\parsep	\فاصله‌بند‌لیست
\parshape	\شكل‌بند
\parskip	\فاصله‌بند
\part	\بخش
\partname	\عنوان‌بخش
\partopsep	\فاصله‌بالای‌لیست‌بند
\PassOptionToClass	\ارسال‌گزینه‌به‌کلاس
\PassOptionToPackage	\ارسال‌گزینه‌به‌پکیج
\path	\مسیر
\patterns	\الگوهای
\pausing	\مکث
\penalty	\حریمه
\phantom	\غیب
\poptabs	\الگوی‌قبلی
\postdisplaypenalty	\حریمه‌پس‌نمایش
\predisplaydirection	\جهت‌پیش‌نمایش
\predisplaypenalty	\حریمه‌پیش‌نمایش
\predisplaysize	\اندازه‌پیش‌نمایش

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Command in TeX or L ^A T _E X	Equivalent Persian Command
\pretolerance	\پیش حد بدنمایی
\prevdepth	\عمق قبلی
\prevgraf	\بند قبلي
\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 آئی خروج صفحه
\radical	\رادیکال
\raggedbottom	\پایین بی تنظیم
\raggedleft	\تنظیم از راست
\raggedright	\تنظیم از چپ
\raise	\انتقال ببالا
\raisebox	\بالابر
\raisetag	\ترفیع اتیکت
\rangle	\زاویه ر
\rceil	\سقف ر
\read	\بخوان
\ref	\رجوع
\reflectbox	\کادر قرینه
\refname	\عنوان مراجع
\refstepcounter	\گام شمارنده مرجع
\relax	\راحت
\removelastskip	\رفع آخرین فاصله
\renewcommand	\فرمان ازنو
\renewenvironment	\محیط ازنو
\repeat	\از نو
\RequirePackage	\سبک مورد نیاز
\RequirePackageWithOptions	\سبک مورد نیاز با گزینه
\resizebox	\کادر کشیده
\reversemarginpar	\در حاشیه معکوس
\rfloor	\کفر
\right	\راست
\rightmargin	\حاشیه راست
\rightmark	\علامت راست
\rightskip	\کادر تراست
\rmdefault	\فاصله انتهای سطر \رومی عادی

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Command in TeX or L ^A T _E X	Equivalent Persian Command
\rmfamily	\فamil رومن
\Roman	\رومنبزرگ
\roman	\رومنكوچك
\romannumeral	\ادررومی
\rotatebox	\کادرچرخان
\rowcolor	\رنگ ردیف
\rule	\خط
\@secondoftwo	\@دوی ازدو
\@spaces	\فضاها
\samepage	\همین صفحه
\savebox	\مقدار کادر
\sbox	\مقادر
\scalebox	\کادر اندازه
\scdefault	\پيش فرض تمام بزرگ
\scshape	\شكل تمام بزرگ
\scriptfont	\قلم توان
\scriptscriptfont	\قلم توان توان
\scriptscriptstyle	\سبک ته نوشته نوشته
\scriptsize	\اندازه بانويس
\scriptstyle	\سبک ته نوشته
\scrollmode	\پردازش گذری
\section	\قسمت
\secdef	\تعريف قسمت
\see	\ببینید
\seealso	\انيز ببینید
\seename	\نام ببینید
\selectfont	\قلم بردار
\setboolean	\تنظیم بولی
\setbox	\در کادر
\setcounter	\مقدار شمارنده
\setkeys	\مقدار کلیدها
\setlength	\مقدار بعد
\setminus	\تنظيم منها
\SetSymbolFont	\تعريف قلم علائم
\settodepth	\تنظيم به عمق
\settoheight	\تنظيم به ارتفاع
\settowidth	\مقدار بعد به اندازه
\sfcode	\کد ضریب فاصله
\sfdefault	\پيش فرض سف
\sffamily	\فamil سن سریف
\shadowbox	\کادر سایه دار
\sharp	\اپیز
\shipout	\بفرست
\shortstack	\پشته کوتاه

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Command in TeX or L ^A T _E X	Equivalent Persian Command
\show	\نمایش بده
\showbox	\نمایش بده کادر
\showboxbreadth	\میزان نمایش کادر
\showboxdepth	\عمق نمایش کادر
\showlists	\نمایش بده لیستها
\showthe	\نمایش بده محتوا
\simplefontmode	\حالت ساده قلم
\sixt@n	@\شانزد
\skewchar	\نویسه اریب
\skip	\فاصله
\skip@	@\فاصله
\skipdef	\تعريف فاصله
\sl	\خوابیده
\sldefault	\پیش فرض خو
\slshape	\شكل خوابیده
\sloppy	\راحت چین
\slshape	\شمایل خو
\small	\کوچک
\smallskip	\پرش کوتاه
\smallskipamount	\امقدار پرش کوتاه
\smash	\کوب
\smile	\بخند
\snglfntlocatecode	\کدامکان همانطور
\space	\فضا
\spacefactor	\ضریب فاصله
\spaceskip	\فاصله کلمات
\spadesuit	\پیک
\span	\ادغام
\special	\ویرژن
\splitmaxdepth	\حداکثر عمق ستون
\splittopskip	\فاصله بالای ستون
\star	\ستاره
\stepcounter	\گام شمارنده
\stretch	\کشی
\string	\رشه
\strut	\شمع
\strutbox	\کادر شمع
\subitem	\ازیر بند
\subparagraph	\ازیر پاراگراف
\subsection	\ازیر قسمت
\substack	\ازیر پیشته
\subsubitem	\ازیر زیر بند
\subsubsection	\ازیر زیر قسمت
\subset	\ازیر مجموعه

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Command in TeX or L ^A T _E X	Equivalent Persian Command
\subseteq	\زیرمجموعه مس
\supereject	\امتهای صفحه
\suppressfloats	\حذف مکان شناور
\@tempa	\موقت آ
\@tempb	\موقتب
\@tempc	\موقتب پ
\@tempd	\موقتب
\@temppe	\موقتب
\@tempboxa	\موقتب آ
\@tempcnta	\شماقت آ
\@tempcntb	\شماقت ب
\@tempdima	\بعدقت آ
\@tempdimb	\بعدقت ب
\@tempdimc	\بعدقت
\@tempskipa	\فاقت آ
\@tempskipb	\فاقت ب
\@tempswafalse	\سواقت آنادرست
\@tempswatrue	\سواقت آدرست
\@temptokena	\جزقت آ
\@thefnmark	\انگ زیرنویس
\@thirdofthree	\سومی از سه
\tabbingsep	\فاصله جاگذاری
\tabcolsep	\فاصله بین ستونها
\tableofcontents	\فهرست مطالب
\tablename	\عنوان جدول
\tabskip	\فاصله ستونها
\tabularnewline	\ته سطر جدول
\tag	\اتیکت
\telephone	\تلفن
\TeX	\تک
\text	\امتن
\textbullet	\گلوله متنی
\textfont	\قلم متن
\textemdash	\ام دش متنی
\textendash	\ان دش متنی
\textexclamdown	\تعجب و ارونه متنی
\textperiodcentered	\ نقطه و سط متنی
\textquestiondown	\سوال و ارونه متنی
\textquotedblleft	\نقل چپ متنی دولا
\textquotedblright	\نقل راست متنی دولا
\textquotelleft	\نقل متنی چپ
\textquoteright	\نقل متنی راست
\textvisiblespace	\فضای نمایان متنی
\textbackslash	\شکافت پشت متنی

Continued on next page

Command in TeX or L ^A T _E X	Equivalent Persian Command
\textbar	\میله متň
\textgreater	\بزرگ ترمتنی
\textless	\کمترمتň
\textbf	\متن سیاه
\textcircled	\مدورمتنی
\textcolor	\رنگ متن
\textcompwordmark	\انشان کلمه مرکب متن
\textfloatsep	\فاصله متن و شناور
\textfraction	\نسبت متن
\textheight	\بلندای متن
\textindent	\متن تورفته
\textit	\متن ایتالیک
\textmd	\متن نازک
\textnormal	\متن نرمال
\textregistered	\ثبتی متنی
\textrm	\متن رومان
\textsc	\متن تمام بزرگ
\textsf	\متن سن سریف
\textsl	\متن خوابیده
\textstyle	\سیک متň
\textsuperscript	\بالانویس متň
\texttrademark	\علامت تجاری متنی
\texttt	\متن تایپ
\textup	\متن ایستاده
\textwidth	\پهناز متن
\thanks	\ازیرنویس عنوان
\the	\محتوای
\thempfn	\این زیرنویس
\thicklines	\خط هاضخیم
\thickmuskip	\فاصله زیاد ریاضی
\thinmuskip	\فاصله کم ریاضی
\thickspace	\فضاضخیم
\thinlines	\خط هانازک
\thinspace	\ادوری کوچک
\thisfancypage	\این صفحه تجملی
\thispagestyle	\سبک این صفحه
\thr@@	@سه\
\tilde	\مد
\tiny	\ظریف
\time	\زمان
\times	\ضرب در
\title	\عنوان
\to	\به
\today	\امروز

Continued on next page

Command in TeX or L ^A T _E X	Equivalent Persian Command
\toks	\جزء
\toksdef	\تعريف جزء
\tolerance	\حدبندنمايی
\top	\بالا
\topfigrule	\خط بالاي شناور
\topfraction	\نسبت بالا
\topmargin	\حاشيه بالا
\topmark	\علامت بالا
\topskip	\کادر تابالا
\topsep	\فاصله بالاي ليست
\topskip	\فاصله بالا
\totalheight	\بلندای کل
\tracingall	\ردگيري کل
\tracingcommands	\ردگيري فرامين
\tracinglostchars	\ردگيري حروف
\tracingmacros	\ردگيري ماکروها
\tracingonline	\ردگيري نمایشی
\tracingoutput	\ردگيري صفحه بندی
\tracingpages	\ردگيري صفحات
\tracingparagraphs	\ردگيري بندها
\tracingrestores	\ردگيري بازگردانی
\tracingstats	\ردگيري آمارها
\triangle	\مثلث
\ttdefault	\پيش فرض تايب
\ttfamily	\فamil تايب
\tw@	@\دو
\twocolumn	\دوستون
\typein	\درنويس
\typeout	\برنويس
\uccode	\کد بزرگ
\uchyph	\تيره بندی بزرگ
\undefined	\تعريف نشده
\underline	\زير خط
\unhbox	\ابی کادرا
\unhcopy	\ابی کپی ا
\unitlength	\واحد طول
\unkern	\برگشت دوری
\unpenalty	\برگشت جريمہ
\unskip	\برگشت فاصله
\unvbox	\ابی کادرو
\unvcopy	\ابی کپی و
\updefault	\پيش فرض ايستاده
\upshape	\شكل ايستاده
\usebox	\از کادر

Continued on next page

Command in TeX or L ^A T _E X	Equivalent Persian Command
\usecounter	\باشمارشگر
\usefont	\گزینش قلم
\usepackage	\سبک لازم
\@vobeyspaces	\فضاهای فعال
\@void	\@تهی
\vadjust	\تنظیم و
\valign	\ردیف و
\value	\محتوای شمارنده
\vbadness	\ابدناهی و
\vbox	\کادرو
\vcenter	\کادرو سط
\verb	\همانطور
\vfil	\پرو
\vfill	\پررو
\vfilneg	\رفع پرو
\vfuzz	\پرزمودی
\visible	\نمایان
\vline	\خط عمود
\voffset	\حاشیه و
\voidb@x	\ک@درتهی
\vpageref	\ارجاع صفحه ع
\vrboxsep	\فاصله و گرد
\vref	\ارجاع
\rule	\خط و
\vsize	\طول صفحه
\vskip	\فاصله و
\vspace	\فضای و
\vsplit	\شکست و
\vss	\هردو و
\vtop	\کادرگرد
\wd	\عرض
\whiledo	\مادام بکن
\widehat	\کلاه پهن
\widetilde	\مد پهن
\widowpenalty	\جریمه ته بند
\width	\پهنا
\wlog	\در کارنامه
\write	\بنویس
\@xobeysp	\@فضای لاتین
\@xxxii	\اسی @ دو
\xdef	\ترجم
\xleaders	\نشانگر گسترشی
\xspaceskip	\فاصله اضافی کلمات
\year	\سال

Continued on next page

Command in TeX or L ^A T _E X	Equivalent Persian Command
\z@	\فر@\
\z@skip	\فروفاصله@\

Table 2: The Equivalent XePersian Commands

Command in XePersian	Equivalent Persian Command
\autofootnoterule	\خط زیرنویس خودکار
\AutoMathsDigits	\اعداد فرمولهای خودکار
\DefaultMathsDigits	\اعداد فرمولهای لاتین
\deflatinfont	\تعريف قلم لاتین
\defpersianfont	\تعريف قلم پارسی
\hboxL	\کادر اچپ
\hboxR	\کادر راست
\keyval@eq@alias@key	\معادل@کلید
\Latincite	\مرجع لاتین
\latinfont	\قلم لاتین
\latintoday	\امروز لاتین
\leftfootnoterule	\خط زیرنویس چپ
\lr	\امتن لاتین
\LRE	\چپ بر است
\LTRdblcol	\دوستونی چپ
\LTRfootnote	\پانویس
\LTRfootnotetext	\امتن پانویس
\LTRthanks	\پانویس عنوان
\persianday	\روز پارسی
\persianfont	\قلم پارسی
\PersianMathsDigits	\اعداد فرمولهای پارسی
\persianmonth	\ماه پارسی
\persianyear	\سال 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 مرجوعات عادی
\setdefaultmarginpar	\بگذار در حاشیه عادی
\setdigitfont	\گزینش قلم اعداد فرمولها
\setfootnoteLR	\بگذار زیرنویس چپ
\setfootnoteRL	\بگذار زیرنویس راست

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Command in XePersian	Equivalent Persian Command
\setlatintextfont	\گزینش قلم لاتین متن
\setLTR	\بگذارم تن چپ
\setLTRbibitems	\بگذارم رجوعات چپ
\setLTRmarginpar	\بگذار در حاشیه چپ
\setRTL	\بگذارم تن راست
\setRTLbibitems	\بگذارم رجوعات راست
\setRTLmarginpar	\بگذار در حاشیه راست
\settextfont	\گزینش قلم متن
\textwidthfootnoterule	\خط زیر نویس پنهانی متن
\twocolumnstableofcontents	\فهرست مطالب دو ستونی
\unsetfootnoteRL	\نگذار زیر نویس راست
\unsetLTR	\نگذارم تن چپ
\unsetRTL	\نگذارم تن راست
\vboxL	\کادر واژ چپ
\vboxR	\کادر واژ راست
\XeLaTeX	\ازی لاتک
\XePersian	\ازی پرشین
\xepersianversion	\گونه زی پرشین
\xepersiandate	\تاریخ 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 چین
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
multicols	چند ستونی ها

Continued on next page

Environment in L ^A T _E X	Equivalent Persian Environment
multline	چندخطی
note	یادداشت
overlay	انباشت
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	محتوای نمایه
titlepage	صفحه عنوان
trivlist	لیست بدروی
verbatim	همانطور که هست
verbatim*	همانطور که هست*
verse	شعر

Table 4: The Equivalent XePersian Environments

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

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

Table 5: The Equivalent L^AT_EX position arguments

Position argument in L ^A T _E X	Equivalent Persian position argument
b	ز
c	و
C	س
h	ا
H	آ
J	ت
l	چ
L	ف

Continued on next page

Position argument in L^AT_EX Equivalent Persian position argument

m	م
p	پ
p	ص
r	ر
R	ا
s	ک
t	ب

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

2.4.5 Localizations of the keys and key values of `graphicx` package

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

Table 6: Persian Equivalent keys of `graphicx` package

Original Key	Equivalent Persian Key
<code>draft</code>	پیش‌نویس
<code>origin</code>	مبدأ
<code>clip</code>	بی‌اضافه
<code>keepaspectratio</code>	حفظ‌تناسب
<code>natwidth</code>	پهنازی‌طبیعی
<code>natheight</code>	بلندای‌طبیعی
<code>bb</code>	مختصات
<code>viewport</code>	حدوده‌نمایش
<code>trim</code>	حذف‌اطراف
<code>angle</code>	زاویه
<code>width</code>	پهنا
<code>height</code>	بلندا
<code>totalheight</code>	بلندای‌کل
<code>scale</code>	ضریب
<code>type</code>	نوع
<code>ext</code>	پسوند
<code>read</code>	خواندنی
<code>command</code>	فرمان
<code>x</code>	طول
<code>y</code>	عرض
<code>units</code>	واحد

Table 7: Persian Equivalent key values of `graphicx` package

Original Key value	Equivalent Persian Key value
b	ز
B	ک
false	نادرست
l	ج
r	ر

Continued on next page

Original Key value	Equivalent Persian Key value
t	ب
true	درست

2.4.6 Localizations of font features and font feature options

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

Table 8: Persian Equivalent font features

Original font feature	Equivalent Persian font feature
ExternalLocation	مکان خارجی
ExternalLocation	مسیر
Renderer	تحویل دهنده
BoldFont	قلم سیاه
Language	زبان
Script	خط
UprightFont	قلم عمودی
ItalicFont	قلم ایتالیک
BoldItalicFont	قلم ایتالیک سیاه
SlantedFont	قلم خوابیده
BoldSlantedFont	قلم خوابیده سیاه
SmallCapsFont	قلم کلاه کوچک
UprightFeatures	ویژگی های قلم عمودی
BoldFeatures	ویژگی های قلم سیاه
ItalicFeatures	ویژگی های قلم ایتالیک
BoldItalicFeatures	ویژگی های قلم ایتالیک سیاه
SlantedFeatures	ویژگی های قلم خوابیده
BoldSlantedFeatures	ویژگی های قلم خوابیده سیاه
SmallCapsFeatures	ویژگی های قلم کلاه کوچک
SizeFeatures	ویژگی های اندازه
Scale	ضریب
WordSpace	فضای کلمه
PunctuationSpace	فضای نقطه گذاری
FontAdjustment	تنظیم قلم
LetterSpace	فضای حرف
HyphenChar	نویسه تیره
Color	رنگ
Opacity	کدری
Mapping	نگاشت
Weight	سنگینی
Width	پهنا
OpticalSize	اندازه چشمی
FakeSlant	خوابیده تقلیبی
FakeStretch	کشش تقلیبی
FakeBold	سیاه تقلیبی
AutoFakeSlant	خوابیده تقلیبی خودکار

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Original font feature	Equivalent Persian font feature
AutoFakeBold	سیاه تقلیبی خودکار
Ligatures	دویاچند حرف متصل به هم
Alternate	متناوب
Variant	گوناگون
Variant	مجموعه سبکی
CharacterVariant	گوناگونی نویسه
ScriptStyle	سبک اسکریپت
ScriptScriptStyle	سبک اسکریپت اسکریپت
Style	سبک
Annotation	یادداشت
RawFeature	ویژگی‌های کال
CharacterWidth	پهنانی نویسه
Numbers	ارقام
Contextuals	متنی
Diacritics	تفکیک کننده‌ها
Letters	حروف
Kerning	دوری
VerticalPosition	موقعیت عمودی
Fractions	كسر

Table 9: Persian Equivalent font feature options

font feature	font feature option	Persian font feature option
Language	Default	پیش‌فرض
Language	Parsi	پارسی
Script	Parsi	پارسی
Script	Latin	لاتین

2.5 A Sample Input T_EX File

```

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

```

2.6 Font Commands

2.6.1 Basic Font Commands

```
\settextfont [Options] {\<font name>}  
\setlatintextfont [Options] {\<font name>}  
\setdigitfont [Options] {\<font name>}  
\setmathsf digitfont [Options] {\<font name>}  
\setmathtt digitfont [Options] {\<font name>}
```

- ☞ Options in any font command in this documentation are anything that `fontspec` package provides as the option of loading fonts, except `Script` and `Mapping`.
- ☞ `\settextfont` will choose the default font for Persian texts of your document. If you do not use this command at all, the `Persian Modern`² font will be used for Persian texts of your document.
- ☞ `\setlatintextfont` will choose the font for Latin texts of your document. If you do not use this command at all, the default `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 default, digits in math mode will appear in Persian form and if you do not use this command at all, the `Persian Modern` font for digits in math mode will be used.
- ☞ `\setmathsf digitfont` will choose the Persian font for digits in math mode inside `\mathsf`. By using this command, digits in math mode inside `\mathsf` will appear in Persian form and if you do not use this command at all, you will get default `TEX` font for digits in math mode inside `\mathsf` and digits appear in their original form (Western).
- ☞ `\setmathtt digitfont` will choose the Persian font for digits in math mode inside `\mathtt`. By using this command, digits in math mode inside `\mathtt` will appear in Persian form and if you do not use this command at all, you will get default `TEX` font for digits in math mode inside `\mathtt` and digits appear in their original form (Western).

2.6.2 Defining Extra Persian and Latin Fonts

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

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

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

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

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

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

2. You do not need to install `Persian Modern` fonts since they are already included in your `TEX` distribution.

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

2.6.3 Choosing Persian Sans Font

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

2.6.4 Choosing Persian Mono Font

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

If you do not use `\setiranicfont` command at all, the Persian Modern font will be used.

2.6.5 Choosing Persian Iranic Font

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

2.6.6 Choosing Persian Navar Font

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

If you do not use `\setpookfont` command at all, the Persian Modern font will be used.

If you do not use `\setsayehfont` command at all, the Persian Modern font will be used.

2.6.7 Choosing Persian Pook Font

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

2.6.8 Choosing Persian Sayeh Font

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

2.6.9 Choosing Latin Sans Font

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

2.6.10 Choosing Latin Mono Font

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

3 Latin and Persian Environment

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

 latin environment both changes direction of the paragraphs to LTR and font to Latin font.

- ☞ `\persian` environment both changes direction of the Paragraphs to RTL and font to Persian font.

3.1 Short Latin and Persian Texts

```
\lr{\text} \rl{\text}
```

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

3.2 Miscellaneous Commands

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

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

3.3 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.

3.4 Additional Counters

`XePersian` defines several additional counters to what already `LATeX` offers. These counters are `harfi`, `adadi`, and `tartibi`. In addition, the following commands are also provided:

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

- ☞ The range of `harfi` counter is integers between 1 and 32 (number of the Persian alphabets) and `adadi` and `tartibi` counters, are integers between 0 and 999,999,999.

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

3.5 Things To Know About `\setdigitfont`, `\setmathsf digitfont`, and `\setmathtt digitfont`

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

- ☞ As we discussed before, `\setdigitfont` will choose the Persian font for digits in math mode. By default, digits in math mode will appear in Persian form and if you do not use this command at all, the **Persian Modern** font for digits in math mode will be used.
- ☞ As we discussed before, `\setmathsf digitfont`, and `\setmathtt digitfont` will choose the Persian sans serif and typewriter fonts for digits in math mode. By using this command, digits in math mode will appear in Persian form and if you do not use this command at all, you will get default **TEX** font for digits in math mode and digits appear in their original form (Western). If you use `\setdigitfont`, `\setmathsf digitfont`, and `\setmathtt digitfont`, then you should know that:
 - ☞ By default, `\AutoMathsDigits` is active, which means that in Persian mode, you get Persian digits in math mode and in Latin mode, you get **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.

4 New Conditionals

4.1 Shell escape (or write18) conditional

```
\ifwritexviii
  <material when Shell escape (or write18) is enabled>
\else
  <material when Shell escape (or write18) is not enabled>
\fi
```

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 `ل`, `ى`, or `ت` produces the value of the counter printed with (respectively) `\harfi`, `\adadi`, or `\tartibi`.

These letters may be surrounded by any strings involving any other TeX expressions, however the tokens `A`, `a`, `I`, `i`, `1`, `ل`, `ى`, `ت` must be inside a {} group if they are not to be taken as special.

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

5.2 Index Generation

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

5.3 Converting Your 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-0.12.py`. To convert your FarsiTeX files to XePersian, put `ftxe-0.12.py` in the same directory that your FarsiTeX file is, and then open a terminal/command prompt and do the following:

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

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

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

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

Where

`-r` (DEFAULT) recursively consider files included in the given files
`-s` do not recursively consider files

`-x` (DEFAULT) insert XePersian related commands
`-u` only convert to unicode (and not to XePersian)

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

6 Extra Packages And Classes

6.1 Magazine Typesetting

6.1.1 Introduction

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

6.1.2 Usage

To create³ a magazine just load the class as usual⁴, with

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

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

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

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

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

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 `<image>` and `<description>`. Notice that second argument is optional and it declares the image caption; `<image>` defines the relative path to the image. In order to include the first piece of article use

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

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

```
\secondarticle
```

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

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

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

```
\thirdarticle
```

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

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

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

The front page includes three information blocks besides the news: `indexblock` which contains the index, `authorblock` which includes information about the author and a `weatherblock` containing a weather forecast. All these three environments are mostly a frame in the front page therefore they can be redefined to fit your personal wishes but I kept them to give an example and to respec 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>}
...<text>...
\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 `multicols` environment, I created a macro that includes an image only if that is possible, calculating if there is enough space for the image. It is not the best solution but it works quite well and I could not find a better one. To include an image use the command and its two arguments: the relative path to the image and a short description.

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

```
\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>}
\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. Although it has its own title and subtitle, each piece of article within it may have a title. To use it just type:

```
\begin{shortarticle}{\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{{\left}\}{{\center}}{\right}}
\foot{{\left}\}{{\center}}{\right}}
```

If you still prefer to use `fancyhdr` macros, use them after the `frontpage` environment.

`xepersian-magazine` by default places no headers and footers. If you want headers and footers, then after loading `xepersian` package, you should write `\pagestyle{fancy}` at the preamble of your document.

6.1.12 Class Options

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

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

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

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

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

```
1 \begin{question}{سؤال}
2 \false ۱ جواب
3 \true ۲ جواب
4 \false ۳ جواب
5 \false ۴ جواب
6 \end{question}
7 \begin{correction}
8 جواب واقعی و علت اینکه این جواب، جواب واقعی هست
9 \end{correction}
```

6.2.5 The `question` Environment

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

```
\true \false
```

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

6.2.6 Question Numbers

The `question` environment is associated with a 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 L^AT_EX 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.