

X_YTeX Persian

X_YTeX macros for typesetting Persian in X_YTeX.



User's Guide

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Welcome to XePersian



New!

X_ƎPersian is a set of macro written for L^AT_EX over X_ƎT_EX in the hope that Persian typesetting in T_EX becomes quite easy and at the same time the Persian users would benefit from the T_EX tools that are available for English users.

There is a change in the manual. I wrote a new L^AT_EX class¹ for writing the manual just to be more attractive, eye-catching and tidy. I also decided to write the manual in English and that is because X_ƎPersian package will be placed on CTAN and it is included in various T_EX distributions like MiK_T_EX and T_EXLive and if I write the manual in Persian, then I have abused the hospitality of CTAN, MiK_T_EX and T_EXLive distributions, so I wrote the manual in plain English in the hope that everyone will be able to understand the material explained here.

I have rewritten almost all the macros, new functionalities have been added and lots of changes have been done, therefore, I would like to encourage all the users to read this manual very carefully before trying to use the package. X_ƎPersian now works with article, report, book, amsart, amsbook, refrep, bookest and beamer classes. Also I have written some new classes: xepersian-thesis (for typesetting Persian thesis), xepersian-presentation (for typesetting plain electronic Persian presentations) and xepersian-magazine (for typesetting Persian magazines, newspapers and other papers).



Thanks

Please note that X_ƎPersian is not just mine, it belongs to all and it is the result of the hard work of several other people. I would like to thanks Jonathan Kew (the author of X_ƎT_EX) for making such a wonderful T_EX system and answering my questions, Karl Berry and Jim Hefferon for all their wonderful encouragements, Ross Moore (my teacher and an absolute T_EXacker) for helping and guiding me patiently and kindly, Will Robertson (the author of fontspec package) for his excellent fontspec package and also answering my question, François Charette (the author of several X_ƎL^AT_EX packages, more importantly the bidi package) for his wonderful bidi package which is currently the basis of X_ƎPersian, Mostafa Vahedi for writing the preliminary version of the package and also motivating me to develop the package, Mehdi Omidali for participating in the development of X_ƎPersian, contributiong mapping files, testing the development version of the package, his bug reports, bug fixes and writing the manual in Persian, and eventually I would like to thanks to all the users of X_ƎPersian, firstly for using the package and secondly for their bug reports.

¹The name of this class is xepersian-user and is included in the X_ƎPersian package but please note that this class has no use for Persian typesetting and it is simply designed for typesetting the manual.

Warning: Keep in mind the following typographical conventions in this User's Guide.

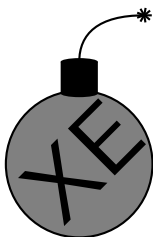


- All literal input characters, i.e., those that should appear verbatim in your input file, appear in upright Helvetica and **Helvetica-Bold** fonts.
- Meta arguments, for which you are supposed to substitute a value (e.g., *Scale*) appear in slanted *Helvetica-Oblique* and ***Helvetica-BoldOblique*** fonts.
- The main entry for a macro or parameter that states its syntax appears in a large bold font, *except for the optional arguments, which are in medium weight*. This is how you can recognize the optional arguments.
- References to XePersian commands and parameters within paragraphs are set in **Helvetica-Bold**.

The Essentials

1 An Example of the Input File

```
1 \documentclass{book}
2 \usepackage{xepersian}
3 \settextfont[Scale=1]{XB Zar}
4 \setromantextfont[Scale=1]{Linux Libertine}
5 \setdigitfont[Scale=1]{XB Zar}
6 \title{<title name>}
7 \author{<author name>}
8 \begin{document}
9 \maketitle
10 \tableofcontents
11 \chapter{<chapter name>}
12 ...
13 \section{<section name>}
14 ...
15 \subsection{<subsection name>}
16 ...
17 \end{document}
```



Warning: Always load X_EPersian package as the last package in the preamble of your document and put your definitions after loading X_EPersian. Also note that the packages: amsmath, amssymb, amsthm and graphicx are loaded by default and you *should not* load them.

2 The Basic Commands of The Package

In this section, I will be explaining some of the useful commands which you are best equipped to know.

\settextfont[...]{...}

Selects the default Persian font.

\setromantextfont[...]{...}

Selects the default Roman font.

`\setdigitfont[...]{...}`

Selects the digits font in maths formuals.

`\defpersianfont\fontname[...]{...}`

Defines an extra Persian font.

`\defromanfont\fontname[...]{...}`

Defines an extra Roman font.

`\footnote{...}`

Inserts Persian footnote.

`\Footnote{...}`

Inserts Roman footnote.

`\today`

Inserts Iranian date of today.

`\romantoday`

Inserts Roman date of today.

`\rdblcolumn`

Places columns from right to left in the *twocolumns* documents (default).

`\lrdblcolumn`

Places columns from left to right in the *twocolumns* documents.

`\twocolumnstableofcontents`

Typesets *table of contents* in two columns (needs to load `fmultico` package at the permeable of the document).

`\lr{...}`

Typesets a short Roman text in a Persian paragraph.

`\rl{...}`

Typesets a short Persian text in a Roman paragraph.

`\begin{LTR} ... \end{LTR}`

Left To Right environment.

`\begin{RTL} ... \end{RTL}`

Right To Left environment.

`\begin{roman} ... \end{roman}`

Typesets a Roman paragraph.

`\begin{persian} ... \end{persian}`

Typesets a Persian paragraph.

\Roman

Similar to **roman** environment but intended to be used in the bibliography environment.

\Persian

Similar to **persian** environment but intended to be used in the bibliography environment.

\rmfamily

Uses Roman font for typesetting (default in **roman** environment).

\persianfont

Uses Persian font for typesetting (default in **persian** environment).

\PersianFootNum

Typesets the the Roman footnote numbers in Persian (default).

\RomanFootNum

Typesets the Roman footnote numbers in Roman.

\RomanBibNum

Typesets the numbers of **\bibitem** in Roman (default).

\PersianBibNum

Typesets the numbers of **\bibitem** in Persian.

2.1 Using Different Fonts

To write a minimal document with X_YPersian you will need to select a font for typesetting the main text. We achieve this by the following command:

`\settextfont[Scale=<integer>]{<fontname>}`

For example with the command:

`\settextfont[Scale=1]{XB Zar}`

We choose **XB Zar** as the main text font with the Scale of 1.

Driver notes: **XB Zar** is the name of the font which should be installed on your machine. If you are on Microsoft Windows, then the font should be available in `C:\windows\fonts` folder. This font is one of the X Series font made by IRMUG (Iranian Mac Users Group) which are perfect and you are advised to use these fonts. To obtain them, you can explore [IRMUG](#).

In addition to selecting the main text font, we also need to choose the fonts for Roman texts and digits in maths formuals. We select the font for Roman texts by the following command:

```
\setromantextfont[Scale=<integer>]{<fontname>}
```

And we select the font for digits in maths formuals by the command:

```
\setdigitfont[Scale=<integer>]{<fontname>}
```

You also can define as many extra Persian and Roman fonts as you wish and use them in your document. This is done in the following syntax:

```
\defpersianfont\fontname[Scale=<integer>]{<fontname>}
```

```
\defromanfont\fontname[Scale=<integer>]{<fontname>}
```

For example, the command:

```
1 \defpersianfont\nastaligh[Scale=1.5]{IranNastaliq}
```

Defines the **Nastaligh** font for the text and you can use it in the following ways:

- If your intention is to write a short text with this font, you can use:

```
\nastaligh{<text>}
```

- If you are going to write a long piece of text with this font you can either use **RTL** environment as follow:

```
\begin{RTL} \nastaligh <text> \end{RTL}
```

or even better define a new environment as follow:

```
1 \newenvironment{Nastaligh}{\begin{RTL}\nastaligh}
2 {\end{RTL}}
```

and then use this environment to typeset the text whenever you wish.

I am not going to explain this for Roman fonts because I would just repeat myself but it can be done quite similar to what I have been demonstrating above for Persian fonts.

2.2 The Bilingual Bibliography Environment

The commands `\Persian` and `\Roman` are defined so that you can switch between Persian and Roman texts easily in the bibliography environment.

2.3 The Options Of The Package

2.3.1 The Footnotes

You can use the commands `\footnote` and `\Footnote` to insert Persian and English footnotes respectively. The package puts the numbers of all footnotes in Persian and automatically places the footnote-rule on the appropriate side of the page based on the first footnote on the page automatically by default².

If you wish all Roman footnote numbers appear in Roman instead Persian, then you can load `XYPersian` with the appropriate option as follow:

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

In addition to this, two commands: `\PersianFootNum` and `\RomanFootNum` are provided, as you might have guessed from the name of the commands `\PersianFootNum` puts the number of all Roman footnote in Persian and `\RomanFootNum` puts the number of all Roman footnotes in Roman.

2.3.2 The bibitem Numbers

`XYPersian` will put the numbers of all Roman `\bibitem` in Roman by default, but if you wish that all Roman `\bibitem` numbers appear in Persian, you can load `XYPersian` with the appropriate option as follow:

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

In addition to this, two commands: `\RomanBibNum` and `\PersianBibNum` are provided, the command `\RomanBibNum` puts the number of all Roman `\bibitem` in Roman and `\PersianBibNum` puts the number of all Roman `\bibitem` in Persian.

If you wish to have Roman `\bibitem` numbers in Persian and the Roman footnote numbers in Roman, you can load `XYPersian` with the appropriate options as follow:

```
\usepackage[PersianBibNum,RomanFootNum]{xepersian}
```

²This means if your first footnote in a page is a Roman footnote, then the footnote-rule will appear on the left bottom side of the page and if your first footnote in a page is a Persian footnote, then the footnote rule will appear on the right bottom side of the page.

OPTION!

OPTION!

Summary

3 The Counters

The following counters are defined in the package:

arabic

The main **arabic** counter of L^AT_EX has been redefined for compatibility with the package.

persian

Has the effect of the main **arabic** counter of L^AT_EX.

adadi

Changes the counting to the Persian Numbers.

harfi

Changes the counting to the Persian alphabets.

tartibi

Changes the counting to the Persian ordering numbers.

4 Typesetting Persian Poems

To typeset a poem, you will need to load `persianpoem` package as this package is not loaded by default and then use `oldpoem` or its starred version (`oldpoem*`). The `oldpoem` has the following syntax:

```
1 \begin{oldpoem}  
2 <verse1>&<verse2>\\  
3 <verse3>&<verse4>\\  
4 \end{oldpoem}
```

5 Multicolumns Typesetting

To typeset a text in multicolumns, you need to load `fmultico` package and use the `multicols` environment which has the following syntax:

```
\begin{multicols}{<number of columns>} <text> \end{multicols}
```

6 The Persian Case

The Persian case is also defined which has the following syntax:

```
1 $$\rcases{\mbox{<branch1>}\cr\mbox{<branch2>}\cr ...}  
2 \mbox{<main>}$$
```

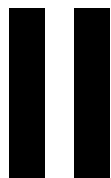
7 Index Generation

To generate index, you will need to place `persian.xdy` file in the current directory and then open a command prompt and do the following:

```
1 tex2xindy < filename.idx > filename.raw
2 xindy -I xindy -M persian.xdy filename.raw
```

Driver notes: To generate index, the page counter should be `persian`³.

³This is the default counter.



Magazine Typesetting

8 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 customizable. Commands to add different titles, headings and footers are also provided.

9 Usage

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

```
\documentclass[<class-options>]{xepersian-magazine}
```

at the beginning of your source file. The class options are described in section 11.

From this point it is possible to include packages and renew class commands described in section 10.

9.1 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.



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

⁴You also need to load XqPersian after loading the document class and choose fonts for the main text, Roman text and digits in maths formuals. For more detail see section 2 of the manual.

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.



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.



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.

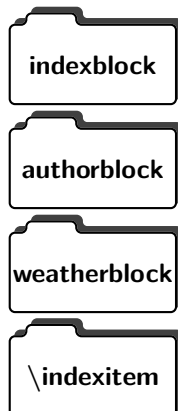
The front page includes three information blocks besides the news: **indexblock** which contains the index, **authorblock** which includes information about the author and a **weatherblock** containing a weather forecast. All these three environments are mostly a frame in the front page therefore they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

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 subsection 9.2. 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.

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 ...

9.2 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 section 9.2.1, the **editorial** environment 9.2.2 for opinion articles and the **shortarticle** environment explained in 9.2.3.

9.2.1 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.



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.

To include images within the text of an article, xepersian-magazine provides an **\image** command. Since fmultico 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>}



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's why there are five different types of titles which correspond mainly with fancybox ones: shadowbox, doublebox, ovalbox, Ovalbox and lines.

9.2.2 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 9.2.1).

9.2.3 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:

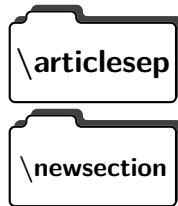

```

\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.

9.2.4 Commands between articles



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>}
```

10 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.

10.1 Front Page



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>}
\custommagazinenam{<text>}

```

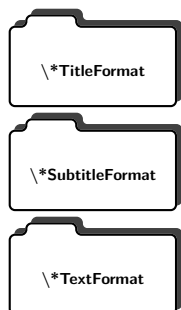


The edition text has to be declared in the preamble of the document. One important thing to know is that `\author`, `\date` and `\title` have no effect inside xepersian-magazine since the magazine date is taken from `\today` command and the other two are only for the title page (if using `\maketitle`).

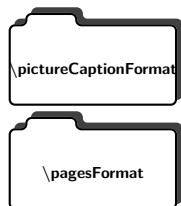


When defining the index in the front page, there are several commands to customize the final index style. **\indexFormat** sets the format of the title; **\indexEntryFormat**, the format of each index entry; **\indexEntryPageTxt** and **\indexEntryPageFormat** lets you define which is the text that goes 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.

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.

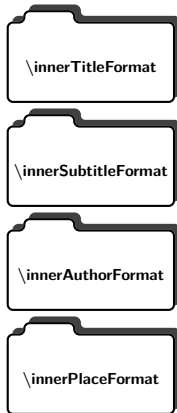


The main article that appear in the front page can change their formats. To obtain that there are three standard commands to modify the title, subtitle and text style. You just have to replace the star (*) with first, second or third depending on which article you are editing. Note that first piece of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

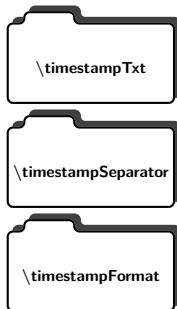


Two other elements to configure are the picture captions and the pages or section format in the entire document. To proceed just redefine the macros **\pictureCaptionFormat** and **\pagesFormat**.

10.2 Inside The Magazine



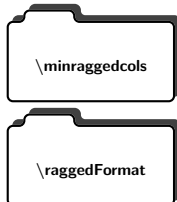
The articles inside xepersian-magazine may have a different format from the ones in the front page. To change their title or subtitle format redefine `\innerTitleFormat` and `\innerSubtitleFormat`. The article text format matches the document general definition. When using the `\authorand-place` command,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



The `\timestamp` command described in section 9.2.1 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.



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.



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`.



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.

Driver notes: 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.

11 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

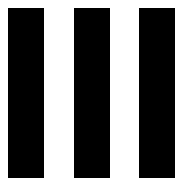
(false) Allows the 9pt font size that article class does not include (default is 10pt).

columnlines

(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.



Thesis Typesetting

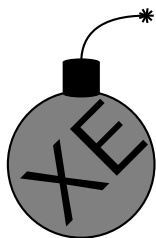
We typeset thesis by a class called xepersian-thesis which is the modified version of report class, therefore it contains all the commands and options that report class has. I just give an input example since the commands are easy to understand and this manual is already too long and boring enough!

```
1 \documentclass[a4paper,11pt]{xepersian-thesis}
2 \usepackage{xepersian}
3 \settextfont[Scale=1]{XB Zar}
4 \setromantextfont[Scale=1]{Linux Libertine}
5 \setdigitfont[Scale=1]{XB Zar}
6 \begin{document}
7 \title{<title name in Persian>}
8 \author{<author name in Persian>}
9 \degree{<degree name in Persian>}
10 \supervisor{<supervisor name in Persian>}
11 \department{<department name in Persian>}
12 \university{<university name in Persian>}
13 \city{<city name in Persian>}
14 \thesisdate{\today}
15 \maketitle
16 \begin{acknowledgementpage}
17 ... <text> ...
18 \end{acknowledgementpage}
19 \begin{abstractpage}
20 ... <text> ...
21 \keywords{<text>}
22 \end{abstractpage}
23 \tableofcontents
24 \listoftables
25 \chapter{<chapter name>}
26 ... <text> ...
27 \Roman
28 \romantitle{<title name in English>}
29 \romanauthor{<author name in English>}
30 \romandegree{<degree name in English>}
31 \romanthesisdate{\romantoday}
32 \romansupervisor{<supervisor name in English>}
33 \romandepartment{<department name in English>}
34 \romanuniversity{<university name in English>}
35 \romancity{<city name in English>}
36 \begin{romanabstract}
37 ... <text> ...
```

```

38 \romankeywords{<text>}
39 \end{romanabstract}
40 \makeromantitle
41 \end{document}

```



Warning:

- You should rename the image of your university logo to logo and put it in the current directory so Xe_{La}T_EX Persian can compile your document correctly.
- The argument of `\romanuniversity` does not contain the word **University** so this means you have to type it yourself, i.e. If you want to produce University of Tehran, then you have to type University of Tehran for `<university name in English>`.

IV

Producing Presentations

At the moment, there are two classes that you can prepare your presentations with. These classes are:

12 xepersian-presentations class

xepersian-presentation is a simple class for presentations to be shown on screen or beamer. It is derived from L^AT_EX's article class. The “virtual paper size” of documents produced by this class: width=128mm, height=96mm. xepersian-presentation requires that the fancyhdr and geometry packages are available on the system. Enhancements to the xepersian-presentation class are easily made available by other packages, these include slides with a background from a bitmap (eso-pic package).

12.1 Usage

The class is used with

`\documentclass[<options>]{xepersian-presentation}`

OPTION!

Options of the article class are also available to xepersian-presentation, e. g. 10pt, 11pt, 12pt for selection of font size. However, not all options of the article class will be appropriate for a presentation class, e. g. twocolumn.

EXAMPLE

A simple example document:

```
1 \documentclass[12pt]{xepersian-presentation}
2 \usepackage{eso-pic}
3 \usepackage{xepersian}
4 \settextfont[Scale=1]{XB Zar}
5 \setromantextfont[Scale=1]{Linux Libertine}
6 \setdigitfont[Scale=1]{XB Zar}
7 \pagestyle{pres}
8 \AddToShipoutPicture{
9 \includegraphics{gradient2.png}
10 }
11 \begin{document}
12 \begin{titlepage}
13 \centering
```

```

14 \distance{1}
15 {
16 \Huge \bfseries Title of the presentation \par
17 }
18 \vspace{1.3ex} \large
19 Author\[\[2ex]Institution
20 \distance{2}
21 \end{titlepage}
22 \begin{plainslide}[Title of Page]
23 The first page
24 \end{plainslide}
25 \begin{rawslide}
26 The second page
27 \end{rawslide}
28 \end{document}

```

The title page can be created within the titlepage environment, the `\maketitle` command is not available. Slides may be created with the plainslide environment, you may add the title of the slide with the optional parameter. The contents of the slide are centered vertically. Another environment generating a slide is rawslide: slides are written without title, contents are not vertically centered.

The `\distance{number}` command allows to introduce vertical space into slides constructed with the rawslide and titlepage environments. You should use pairs of `\distance{}` commands with numbers indicating the relative height of empty space, see the titlepage in the example above.

Pictures can be included with the includegraphics-command of the graphicx-package. Please be aware that the dimensions of the pages are 128mm × 96mm and therefore included graphics are scaled appropriately.

12.2 Enhancements to xepersian-presentation

12.2.1 Fill background of a presentation with bitmaps

eso-pic package allows you to paint the background with a picture:

```

\usepackage{eso-pic}
...
\AddToShipoutPicture{
\includegraphics{gradient2.png}
}

```

`\AddToShipoutPicture{}` puts the picture on every page, `\AddToShipoutPicture*{}` puts it on to the current page, `\ClearShipoutPicture` clears the background beginning with the current page. Details of eso-pic's commands can be found in its own documentation.

13 beamer Class



X_EL_AT_E Persian currently works with beamer class quite well and all should go well with default, Warsaw, Goettingen, Hannover, Malmoe, Marburg, Montpellier, PaloAlto, Pittsburgh, Singapore, Szeged and xepersian-JLTree⁵ themes but other themes are not yet supported.

Warning: I have defined some new environments for beamer and you should use these new environments instead beamer's original environments. These new environments are:

`\begin{قضيه} ... <text> ... \end{قضيه}`

You should use **قضيه** environment instead **theorem** environment.

`\begin{نتيجه} ... <text> ... \end{نتيجه}`

You should use **نتيجه** environment instead **corollary** environment.

`\begin{حقيقت} ... <text> ... \end{حقيقت}`

You should use **حقيقت** environment instead **fact** environment.

`\begin{لما} ... <text> ... \end{لما}`

You should use **لما** environment instead **lemma** environment.

`\begin{مسئله} ... <text> ... \end{مسئله}`

You should use **مسئله** environment instead **problem** environment.

`\begin{پاسخ} ... <text> ... \end{پاسخ}`

You should use **پاسخ** environment instead **solution** environment.

`\begin{تعريف} ... <text> ... \end{تعريف}`

You should use **تعريف** environment instead **definition** environment.

`\begin{تعريفها} ... <text> ... \end{تعريفها}`

You should use **تعريفها** environment instead **definitions** environment.

`\begin{مثال} ... <text> ... \end{مثال}`

You should use **مثال** environment instead **example** environment.

⁵xepersian-JLTree theme is the modified version of JLTree theme.

`\begin{مثالها} ... <text> ... \end{مثالها}`

You should use **مثالها** environment instead **examples** environment.

`\begin{اثبات} ... <text> ... \end{اثبات}`

You should use **اثبات** environment instead **proof** environment.

`\begin{بلوک}{<title>} ... <text> ... \end{بلوک}`

You should use **بلوک** environment instead **block** environment.

`\begin{بلوکمثال}{<title>} ... <text> ... \end{بلوکمثال}`

You should use **بلوکمثال** environment instead **exampleblock** environment.

`\begin{بلوکهشدار}{<title>} ... <text> ... \end{بلوکهشدار}`

You should use **بلوکهشدار** environment instead **alertblock** environment.

13.1 An Example

Example

```
1 \documentclass{beamer}
2 \usetheme{Warsaw}
3 \usepackage{xepersian}
4 \settextfont[Scale=1]{XB Zar}
5 \setromantextfont[Scale=1]{Linux Libertine}
6 \AtBeginDocument{\setdigitfont[Scale=1]{XB Zar}}
7 \title{<title>}
8 \subtitle{<subtitle>}
9 \author{<author>}
10 \institute{<institute>}
11 \begin{document}
12 \begin{frame}
13 \titlepage
14 \end{frame}
15 \begin{frame}{<frame-title>}
16 \framesubtitle{<frame-subtitle>}
17 ... <text> ...
18 \end{frame}
19 ...
20 \end{document}
```