book

#### xelatex

#### windows

1. xelatex

xelatex latex

2. xelatex

xelatex

4. xelatex

xelatex tikz

**5.** 

github

# Contents

# Part I xelatex

#### 1.1 TeX

## 1.2 Knuth

Knuth TEX Knuth http://zh.wikipedia.org/wiki/

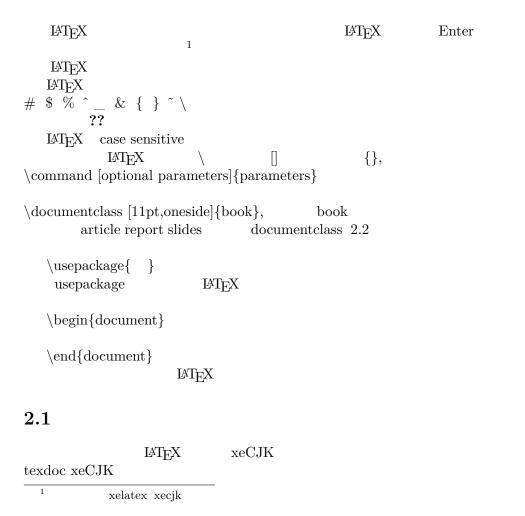
## 1.3 LaTeX

LaTeX , LaTeX Leslie Lamport , T<sub>E</sub>X [?]

## 1.4 XeLaTeX

XeLaTeX UTF-8 LaTeX pdf xelatex tex

# beginning



IAT<sub>E</sub>X

texmaker

#### 2.2 documentclass

```
begin{document}
                                              end{document}
      preamble
                                                                       document
   documentclass
                     article report book slides beamer
\part {partname}
\chapter {chaptername}
\section {sectionname}
\subsection {subsectionname}
\subsubsection {subsubsectionname}
\paragraph {paragraphname}
\subparagraph {subparagraphname}
                                          subsubsection
    paragraph subparagraph
                                                              section subsection
                                                                                         pa
                                 subparagraph
      book article
                                                          paragraph
                                                                                 section
```

#### 2.2.1

```
a4paper letterpaper...
a5paper b5paper executivepaper legalpaper
fleqn
leqno
titlepage, notitlepage article report book
onecolumn, twocolumn LaTeX
twoside, oneside LaTeX article report book
openright, openany chapter book openright report openany article chapter
```

#### 2.3

maketitle maketitle

listoftables listoffigures tableofcontents,

appendix

## 2.4

 $\begin{array}{ccc} & frontmatter & begin \ document \\ main matter & \\ appendix & , \\ backmatter & & \\ & &$ 

 $<sup>^2 \</sup>rm backmatter~appendix~http://tex.stackexchange.com/questions/20538/what-is-the-right-order-when-using-frontmatter-table$ of contents-main matter

geometry

## 3.1 geometry

geometry geometry 3.1 geometry-option-one geometry 1geometry a0paper a6paper b1paper b6paper paperwidth paperheight paperwidth textwidth marginparsep marginparwidth right includemp=true : width = textwidth + margin parsep + margin parwidthpaperwidth = left + width + righttrue headsep bot paperheight textheight topbottom top headheight geometry-option-two geometry 2 height includehead=true height includefoot=true, geometry

#### 3.2

	multicol beamer	columns	beamer frame		
	linewidth	columnbreak	columnbreak	$T_EX$	columnb
	??				
2	documentclass	s twocolumn	Se	etlength	columnseprule (
	columnsep setler	ngth			

<sup>1</sup> http://texblog.org/tag/columnseprule/

CHAPTER 3. 7

3.2.1

beamer columns minipage texmaker

[0.9]ju-li-shi-jian-qu-xian-tu

xelatex ubuntu 4.1 ATEX, encoding, family, series, shape and size 4.1.1 OT1(Old TEX text encoding),  $T_EX$ OT14.1.2 roman or serif rm sans serif sf http://wiki.ubuntu-tw.org/index.php?title=HowtoCustomFontswithFontconfigmonospace tt serif Serif Windows Linux Sans-Serif Serif Sans Times New Roman DejaVu Serif Serif sans-serif Sans-Serif Mac Sans-SerifDejaVu Sans Helvetica Verdana monospace Mono space m iMonospace Andale Mono DejaVu Sans Mono Courier AR PL New Sung Mono

CHAPTER 4. 9

4.1.3

medium  $\mathbf{m}$  bold  $\mathbf{b}$  Bold extended  $\mathbf{b}\mathbf{x}$  Semi-bold  $\mathbf{s}\mathbf{b}$  Condensed  $\mathbf{c}$ 

4.1.4

 ${\rm normal}\; {\bf n} \qquad {\rm Italic}\; {\bf it} \quad {\rm Slanted}\; {\bf sl}\;\; {\rm Small}\; {\rm Caps}\; {\bf sc}$ 

4.1.5

11pt

4.2

4.2.1

UTF-8 inputenc fontenc

4.2.2

roman font family

4.2.3

medium bold

4.2.4

upright shape

4.2.5

IATEX

12pt huge Huge moresize

fontsize \selectfont fontencoding fontfamily fontseries fonts

CHAPTER 4. 10

\textrm{text}	{\rmfamily	text}	roman
\textsf{text}	${\sffamily}$	text}	sans-serif
\texttt{text}	${ t tfamily}$	text}	monospace

Table 4.1:

\textmd{text}	{\mdseries	text}	
\textbf{text}	{\bfseries	text}	bold

Table 4.2:

\textup{text}	{\upshape	text}	
<pre>\textit{text}</pre>	{\itshape	text}	
\textsl{text}	{\slshape	text}	
\textsc{text}	{\scshape	text}	small caps

Table 4.3:

{\tiny test line}	test line
{\scriptsize test line}	test line
{\footnotesize test line}	test line
{\small test line}	test line
{\normalsize test line}	test line
{\large test line}	test line
{\Large test line}	test line
{\LARGE test line}	test line
{\huge test line}	test line
{\Huge test line}	test line

Table 4.4:

CHAPTER 4. 11

size	10pt (default)	11pt option	12pt option
\tiny	$5\mathrm{pt}$	$6\mathrm{pt}$	6pt
\scriptsize	$7\mathrm{pt}$	8pt	8pt
$\footnotesize$	8pt	9pt	10pt
\small	9pt	10pt	11pt
$\normalsize$	10pt	11pt	12pt
\large	12pt	12pt	14pt
\Large	14pt	14pt	17pt
$\backslash LARGE$	17pt	$17 \mathrm{pt}$	20pt
\huge	20pt	20pt	25pt
\Huge	25pt	25pt	25pt

Table 4.5:

system-fonts

xltxtra fontspec xunicode fontspec xunicode xunicod xelatex xltxtra 5.1 fontspec fontspec fontspec xeCJK $opentype\ truetype$ 5.1.1 setromanfont <sup>1</sup>setsansfonts setmainfont roman setmainfont sanssetmonofont monospace Mapping=tex-text fontspec fontspec fontspec fonts [Scale=4,Color=magenta]Ubuntu this is a test. newfontfamily fontspec \sffamily \newfontfamily{\ubuntu}[Scale=3]{Ubuntu} \ubuntu{ : [font features] font name [font features] font name [font features font name font features font name cmd font features font name font name fc-list ,SimSun:style=RegularSimSun fontmanager Comic Sans MS Regular Comic Sans Ms font features xeCJK fo 5.1.2 font features mainfont boldfont italicfont [BoldFont=Adobe Std, ItalicFont=Adobe Std] Adobe

<sup>1</sup>http://tex.stackexchange.com/questions/70413/problem-with-xetex-latex-and-

CHAPTER 5.

BoldFont = font name ItalicFont = font name BoldItalicFont = font name SlantedFont = font name BoldSlantedFont = font name SmallCapsFont = font name

#### 5.1.3 Color

Color xcolor xdvipdfm xcolor ??

5.1.4

Scale MatchLowercase MatchUppercase

5.1.5 ——WordSpace

5.1.6 ——PunctuationSpace

5.1.7 ——HyphenChar

 ${\rm HyphenChar} + + \qquad \backslash \text{-}$ 

5.1.8 ——LetterSpace

feature

5.1.9

 ${\it default font features \ add features \ ad$ 

5.2

amssymb amsmath \everymath{\displaystyle} siuintx

CHAPTER 5. 14

amssymb, amsmath fontspec siunitx math-micro = , text-micro =

#### 5.3 xeCJK

xeCJK CJK fontspec

#### 5.3.1 xeCJK

fontspec xeCJK CJK fontfeatures

**setCJKmainfont** setmainfont

setCJKsansfont setsansfont

setCJKmonofont setmonofont

CJKfontspec fontspec

newCJKfontfamily newfontfamily

**defaultCJKfontfeatures** defaultfontfeatures

addCJKfontfeatures addfontfeatures

setCJKmathfont setmathrm

#### 5.3.2 CJK

Scale=1.2 CJK CJK 1.2 documentclass 10pt CJK 12pt

#### 5.4 UTF-8

texmaker utf-8

%!Mode:: "TeX:UTF-8"

UTF-8