this is a title

pl and 0x00-pl

the date is today

Contents

1   section 0 哈哈 LaTeX

LaTeX

2   compile

2.1   MakeFile

latex hello-latex.text

dvipdfm hello-latex.dvi

2.2   sections

\section

\subsection

\subsubsection

\paragraph

\subparagraph

2.2.1   set section counter

\setcounter{section}{3}

3   contents 你好 LaTeX

first contents   你好 LaTeX

You can mix latin letters and chinese.

4 strings

this is some text of content of "this" subsection.
this is another line of content.

5 formulas

$$B^2 = \mathbf{B} \times B$$

$$A[3] \text{ is } A_3$$

6 left and right

\raggedright{text on left}

\begin{flushleft}
flushleft
\end{flushleft}

<div align="right">

\raggedleft{text on right}

\begin{flushright}
flushright
\end{flushright}

</div>

<div align="center">

\centering{centering}

\begin{center}
center
\end{center}

</div>

7 something verbatim

```
some thing verbatim, which without escape \\ /23454234$&%^&^(*^\z@%@#$%
```

8 colors

Figure 1: title of image

9 images

Figure 2: 2 images

10 size and fount

10.1 size

tiny

footnotesize

small

normalsize

large

Large

LARGE

huge

10.2 fount

testnormal normalfont

`texttt ttfamily`

textbf bfseries

testit itshape

11 lists

- item 1

- item 2

12 turn and rotate

see the difference:

prev line

turn ³⁰ deg

and rotate 30 deg
nextline

13 tables

13.1 tabular

this is a tabular:

3×3 matrix			ex		
11	12	13			
21	22	23	1111	1111	1111
31	32	33	34	35	36

14 vector image: gnuplot

14.1 set format

set term postscript eps enhanced color font 'Times. 24' set output 'sin.eps'

14.2 plot sin

plot sin(x)

14.3 save file

set term x11 set output

14.3.1 import

use graphicx package and includegraphics command

15 notation and referance

15.1 structure

```
\lable{marker}  % define marker
...
\ref{marker}  % ref marker
...
\pageref{marker}  % page of marker
```

we can ref the (figure:2img): 9
at page: 5

15.2   more on figure

on

`\begin{figure}[!t]`

the [*!t*] notation means force the image shows on the top of the page.
ps:
[*!h*] means put it here.
[*!t*] means put it on top.
[*!b*] means put it on bottom.
[*!p*] means put it into another page.

15.3   footnote

this is the footnote [1]

15.4   hyper link

use the package 'hyperref'
$\url\{http://the.url.is.here\}$
$\href\{http://there.is.another.url\}$ {the link title or some discription}

16   common errors – part 4 of the lecture

16.1   errors and warings

{} miss match: Too many }'s
letter wrong like $\dtae\{Mar.2014\}$: Undifined control sequence
not in math mode: Not in Mathematics Mode.
image or box are too large: Bad Boxes!
missing packages: Missing Packages

16.2   lengths

normally don't override textlength setting or something like that.

16.3   counters

not normally used

---

[1]the footnote text is here

16.4 boxes

add box on the text or $\boxed{\text{s}}$omething
use \framebox

16.5 rules and struts

make some area black or something like that

17 mathematics and computers – part 5 of the lecture