

this is a title

pl and 0x00-pl

the date is today

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1 section 0 哈哈 L^AT_EX

L^AT_EX

2 compile

2.1 MakeFile

```
latex hello-latex.text
dvi2pdf hello-latex.dvi
```

2.2 sections

```
\section
\subsection
\subsubsection
\paragraph
\subparagraph
```

2.2.1 set section counter

```
\setcounter{section}{3}
```

3 contents 你好 L^AT_EX

first contents 你好 L^AT_EX

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

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

$A[3]$ is A_3

6 left and right

`\raggedright{text on left}`

`\begin{flushleft}`
flushleft
`\end{flushleft}`

`\raggedleft{text on right}`

`\begin{flushright}`
flushright
`\end{flushright}`

`\centering{centering}`

`\begin{center}`
center
`\end{center}`

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 notation and referance

10.1 structure

```
\lable{marker}  
...  
\ref{marker}  
...  
\pageref{marker}
```

we can ref the (figure:2img): 9

10.2 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.

10.3 footnote

this is the footnote ¹

¹the footnote text is here

10.4 hyper link

use the package 'hyperref'

`\url{http://the.url.is.here}`

`\href{http://there.is.another.url} {the link title or some discription}`

11 size and fount

11.1 size

tiny

footnotesize

small

normalsize

large

Large

LARGE

huge

11.2 fount

testnormal normalfont

testtt ttfamily

textbf bfseries

testit itshape

12 lists

- item 1
- item 2

13 turn and rotate

see the difference:

prev line

turn \nearrow deg
and rotate \nearrow deg

nextline

14 tables

14.1 tabular

this is a tabular:

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

15 vector image: gnuplot

15.1 set format

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

15.2 plot sin

plot sin(x)

15.3 save file

set term x11 set output

15.3.1 import

use graphicx package and includegraphics command

16 common errors – part 4 of the lecture

16.1 errors and warings

{ } miss match: Too many }'s

letter wrong like `\dtae{Mar.2014}`: Undefined 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

16.4 boxes

add box on the text or `\boxed{something}`
use `\framebox`

16.5 rules and struts

make some area black or something like that

17 mathematics and computers – part 5 of the lecture