

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

9.1 notation and reference

9.1.1 structure

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

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

9.1.2 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.

9.1.3 footnote

this is the footnote ¹

¹the footnote text is here

9.1.4 hyper link

use the package 'hyperref'

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

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

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 common errors – part 4 of the lecture

14.1 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

14.2 lengths

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

14.3 counters

not normally used

14.4 boxes

add box on the text or `\s`omething

use `\framebox`

14.5 rules and struts

make some area black or something like that

15 mathematics and computers – part 5 of the lecture