this is a title

pl and 0x00-pl

the date is today

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1 section 0 哈哈 LATEX

IAT_EX

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

 $\operatorname{section}{3}$

3 contents 你好 卧TEX

first contents 你好 译正X 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

 $\rdet{text on left}$

\begin{flushleft}
flushleft

\raggedleft{text on right}

7 something verbatim

some thing verbatim, which without escape \\ /23454234\$&%^&^(*^\z0\0#\$\% of the content of the

8 colors



Figure 1: title of image

9 images





Figure 2: 2 images

10 size and fount

10.1 size

footnotesize small normalsize large Large LARGE huge

10.2 fount

testnormal normalfont texttt ttfamily textbf bfseries testit itshape

11 lists

- \bullet item 1
- \bullet item 2

12 turn and rotate

see the difference: prev line turn 30 deg and rotate deg nextline

13 tables

13.1 tabular

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 reference

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: 4
```

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 \delta e\{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

16.4 boxes

```
add box on the text or something use \framebox
```

¹the footnote text is here

16.5 rules and struts

make some area black or something like that using \rule command

17 mathematics and computers – part 5 of the lecture

17.1 methmatics packages and useage

```
\label{eq:continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous_continuous
```

Proof. proof of something. proof detail.

17.2 computers heigh light

```
\label{listings} $$ \sup_{color} \end{myred}_{color} $$ \end{myred}_{color}_{myred}_{color}_{myreen}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{color}_{c
```

```
public class Factorial
{
    public static void main(String[] args)
    { ... }
    public static int factorial(int n)
    { ... }
}
```

18 chem and language – part 6

18.1 chem

```
\uspackage[version=3]{mhchem}
\uspackage{chemfig}
\chemfig{
   *6(=([:270]-\ce {NO2})-=([:45]-\ce {NO2})-(-)=([:135]-\ce {NO2})-)
}
```

18.2 language

```
\usepackage{qtree}
\Tree [.S
    [.NP Kurisu]
    [.VP [.V is]
        [.NP beauty]]
]
```

gb4e package for translation. tipa package for sound notation.

19 special pages & documents – part 7

19.1 index term and reference

```
usepackage {makeidx}
example index
use \makeindex before \begin{document}
use \printindex at document end.
reference file use Bib file format.
```

19.2 letter ppt homework and pr

19.2.1 letter

change \docmentclass { ... } to {letter}. and it will give some special command as usable.

19.2.2 ppt

```
use documentclass {beamer} for ppt \begin{frame} ... \end{frame} for each page.
```



19.2.3 homework

homework use document class {exam} with \begin{questions} \question Is this a question. \begin{solution} Yes \end{solution} \end{questions}

19.2.4 pr

pr using LATEXus usful.

20 creating graphics

20.1 picture

picture tools

20.2 gnuplot

set term post eps set output 'xxx.eps' ... set term x11 set output