Latex 常用方法

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1 插入图片

1.1 方法一

```
导包:
\usepackage{graphicx}
\usepackage{subfigure}
\usepackage{float}
代码:
\begin{figure}[H]
  \centering
  \includegraphics[scale = 0.2]{1.png}
  \caption{你好}
\end{figure}
```

图 1:

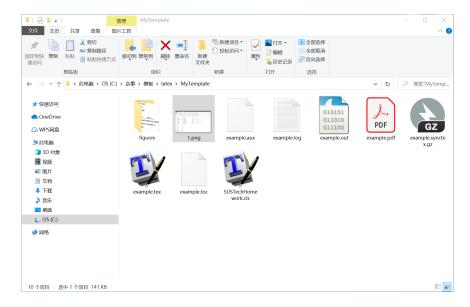


Figure 1: 你好

1.2 方法二

\centering \includegraphics[width=7cm, height=4cm]{figures/1.png} \caption{你好}

图 2:

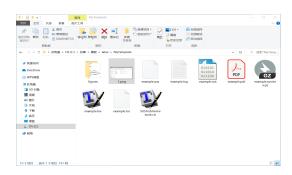


Figure 2: 你好

2 代码块

Figure 3: 代码块

Example:

hello.py

```
import datetime

if __name__ == '__main__':
    random.seed(datetime.datetime.now())
    print(random.random())
```

3 排版

3.1 段落

Four score and seven years ago our fathers brought forth on this continent, a new nation, conceived in Liberty, and dedicated to the proposition that all men are created equal.

Now we are engaged in a great civil war, testing whether that nation, or any nation so conceived and so dedicated, can long endure. We are met on a great battle-field of that war. We have come to dedicate a portion of that field, as a final resting place for those who here gave their lives that that nation might live. It is altogether fitting and proper that we should do this.

3.2 空行

. . .

```
\thispagestyle {empty}
```

3.4 页码

```
\setcounter{page}{1} 从此页开始1 2 3
\thispagestyle{empty} 此页无页码
```

3.5 目录

\tableofcontents

3.6 列表

3.6.1 参考链接:

https://www.cnblogs.com/ahhylau/p/4586167.html

3.6.2 案例

```
\begin { enumerate }
  \item This is the first item
  \begin{enumerate}
    \item sub1
    \item sub2
  \end{enumerate}
  \item This is the second item
  \item This is the third item
\end{enumerate}
\begin{itemize}
  \item This is the first item
  \begin{itemize}
    \item sub1
    \item sub2
    \item sub3
  \end{itemize}
  \item This is the second item
  \item This is the third item
\end{itemize}
```

- 1. This is the first item
 - (a) sub1
 - (b) sub2
- 2. This is the second item
- 3. This is the third item
- This is the first item
 - sub1
 - sub2
 - sub3
- This is the second item
- This is the third item

4 公式

4.1 行内公式

```
$公式$
```

我们知道: $\theta = 2\pi$, \therefore proof is right.

4.2 行间公式

```
$$
公式
$$
```

狗屁不通的定理:

$$\theta * \gamma = \gamma * \alpha$$

5 表格

在线生成表格

知乎讲解

```
\begin{table}[H]
\begin{tabular}{|1|1|1|1|}
\hline
    A&1 &2 &3 &4 \\ hline
    B&5 &6 &7 &8 \\ hline
    C&9 &10 &11 &12 \\ hline
    D&13 &14 &15 &16 \\ hline
\end{tabular}
\end{table}
```

A	1	2	3	4
В	5	6	7	8
С	9	10	11	12
D	13	14	15	16

6 文本框

```
\begin{center}
\fcolorbox{black}{gray!5}{
\parbox{1\linewidth}{
  The first Line.\\
  The second Line.\\
  $\theta=A*B$
}
\end{center}
```

```
The first Line. The second Line. \theta = A * B
```

7 Algorithm

Algorithm Design

```
\begin{algorithm}
  \colon \{Calculate \$y = x^n\$\}
  \label{alg1}
  \begin{algorithmic}
  \REQUIRE n \neq 0 \le x \neq 0
  \ENSURE y = x^n
  \STATE $y \leftarrow 1$
  IF \{ n < 0 \} 
  \STATE $X \setminus leftarrow 1 / x$
  \STATE $N \leftarrow -n$
  \ELSE
  \STATE $X \leftarrow x$
  \STATE $N \leftarrow n$
  \ENDIF
  \WHILE{N \neq 0}
  IF{$N$ is even}
  \STATE $X \leftarrow X \times X$
  \STATE $N \leftarrow N / 2$
  \ELSE[$N$ is odd]
  \STATE $y \leftarrow y \times X$
  \STATE $N \setminus Interval N - 1$
  \ENDIF
  \ENDWHILE
  \end{algorithmic}
\end{algorithm}
```

Algorithm 1 Calculate $y = x^n$

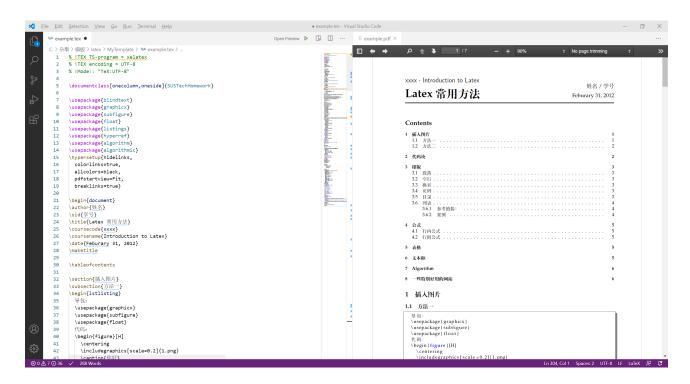
```
Require: n \ge 0 \lor x \ne 0
Ensure: y = x^n
   y \leftarrow 1
   if n < 0 then
      X \leftarrow 1/x
      N \leftarrow -n
   else
      X \leftarrow x
      N \leftarrow n
   end if
   while N \neq 0 do
      if N is even then
         X \leftarrow X \times X
         N \leftarrow N/2
      else \{N \text{ is odd}\}
         y \leftarrow y \times X
         N \leftarrow N - 1
      end if
   end while
```

8 一些特别好用的网站

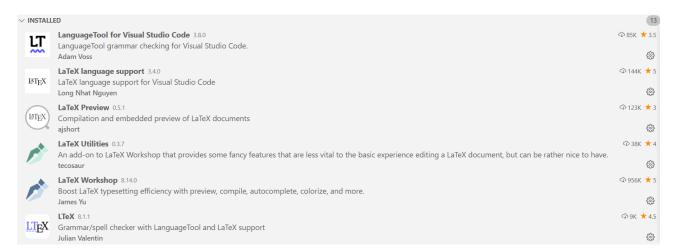
• 模板:

- http://www.latextemplates.com/
- https://www.overleaf.com/latex/templates/
- Latex 常用公式总结:
 - https://blog.csdn.net/GarfieldEr007/article/details/51646604
 - https://www.moonpapers.com/manual/latex/

9 IDE 的选择



- 不得不说, vscode 十分好用。(代码提示 + 代码补全 + 英语语法纠错)
- 需要的插件:



10 致谢

本文采用了学长提供的通用模板并略作修改,在此表示衷心的感谢。