

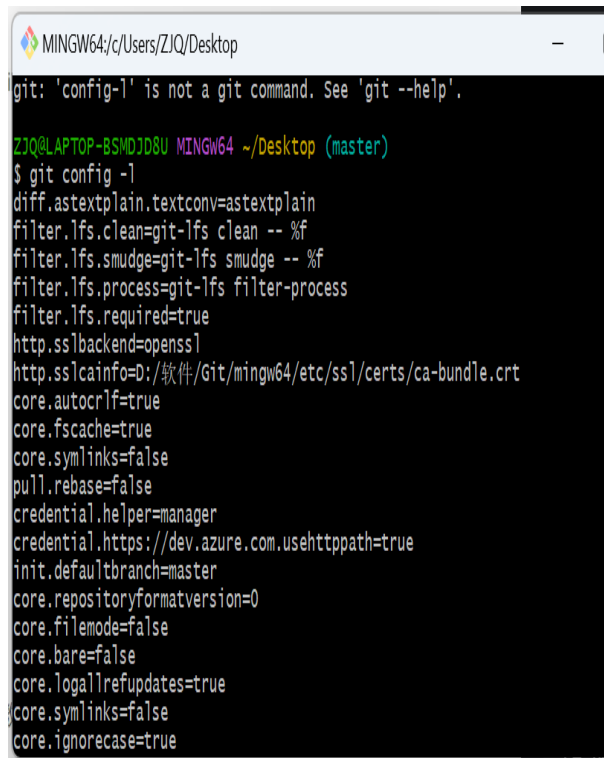
# 第一周实验报告

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2024 年 8 月 25 日

## 1 练习内容及结果

### 1.1 git 查看配置



```
git: 'config-l' is not a git command. See 'git --help'.

ZTQ@LAPTOP-B8MDJDSU MINGW64 ~/Desktop (master)
$ git config -l
diff.astextplain.textconv=astextplain
filter.lfs.clean=git-lfs clean -- %f
filter.lfs.smudge=git-lfs smudge -- %f
filter.lfs.process=git-lfs filter-process
filter.lfs.required=true
http.sslbackend=openssl
http.sslcainfo=D:/软件/Git/mingw64/etc/ssl/certs/ca-bundle.crt
core.autocrlf=true
core.fscache=true
core.symlinks=false
pull.rebase=false
credential.helper=manager
credential.https://dev.azure.com.usehttppath=true
init.defaultbranch=master
core.repositoryformatversion=0
core.filemode=false
core.bare=false
core.logallrefupdates=true
core.symlinks=false
core.ignorecase=true
```

图 1: git config -l

# 1.2 git 设置用户信息



图 2: git config --global user.name/email

# 1.3 git 为常用指令配置别名

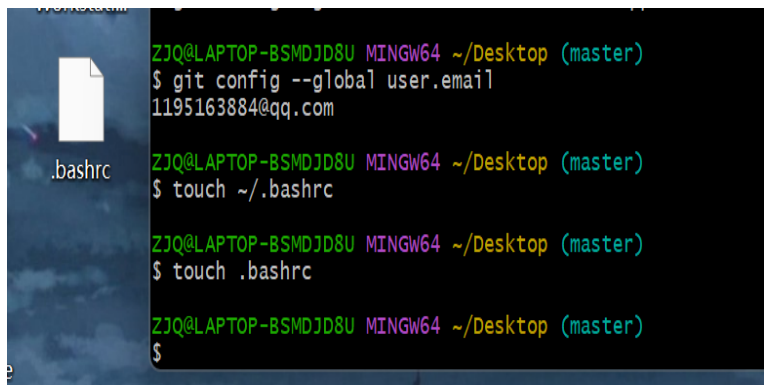
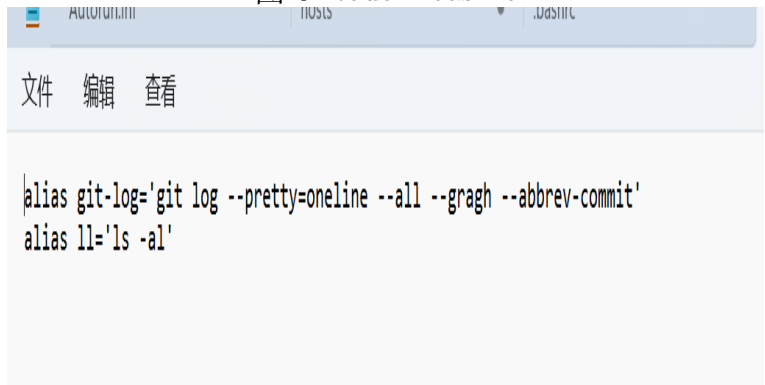


图 3: touch .bashrc



## 1.4 git 获取本地仓库

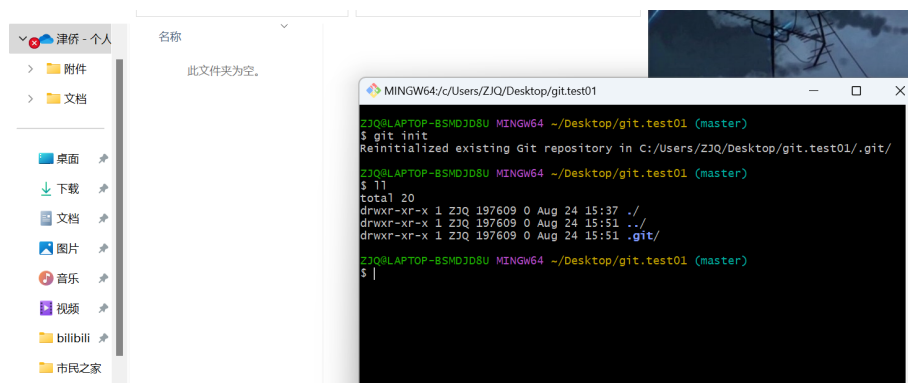


图 4: git init

## 1.5 git 工作区-> 暂存区-> 本地仓库

```
ZJQ@LAPTOP-BSMDJD8U MINGW64 ~/Desktop/git.test01 (master)
$ git init
Reinitialized existing Git repository in C:/Users/ZJQ/Desktop/git.test01/.git/

ZJQ@LAPTOP-BSMDJD8U MINGW64 ~/Desktop/git.test01 (master)
$ ll
total 20
drwxr-xr-x 1 ZJQ 197609 0 Aug 24 15:37 ./
drwxr-xr-x 1 ZJQ 197609 0 Aug 24 15:51 ../
drwxr-xr-x 1 ZJQ 197609 0 Aug 24 15:51 .git/

ZJQ@LAPTOP-BSMDJD8U MINGW64 ~/Desktop/git.test01 (master)
$ touch file01.txt

ZJQ@LAPTOP-BSMDJD8U MINGW64 ~/Desktop/git.test01 (master)
$ git status
On branch master

No commits yet

Untracked files:
  (use "git add <file>..." to include in what will be committed)
        file01.txt

nothing added to commit but untracked files present (use "git add" to track)

ZJQ@LAPTOP-BSMDJD8U MINGW64 ~/Desktop/git.test01 (master)
$ git add .

ZJQ@LAPTOP-BSMDJD8U MINGW64 ~/Desktop/git.test01 (master)
$ git status
On branch master

No commits yet

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
        new file:   file01.txt

ZJQ@LAPTOP-BSMDJD8U MINGW64 ~/Desktop/git.test01 (master)
$ git commit -m "add file01"
[master (root-commit) 35e23cd] add file01
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 file01.txt

ZJQ@LAPTOP-BSMDJD8U MINGW64 ~/Desktop/git.test01 (master)
$ git status
On branch master
nothing to commit, working tree clean

ZJQ@LAPTOP-BSMDJD8U MINGW64 ~/Desktop/git.test01 (master)
$ git log
commit 35e23cd1617192d1ca57da6aad9b2dca036c078f (HEAD -> master)
Author: Cecilia <1195163884@qq.com>
Date:   Sat Aug 24 16:01:29 2024 +0800

    add file01

ZJQ@LAPTOP-BSMDJD8U MINGW64 ~/Desktop/git.test01 (master)
$ |
```

图 5: git add/commit+ 文件名/通配符

## 1.6 git 查看修改的状态并查看提交日志

```
ZJQ@LAPTOP-BSMDJD8U MINGW64 ~/Desktop/git.test01 (master)
$ git init
Reinitialized existing Git repository in C:/Users/ZJQ/Desktop/git.test01/.git/

ZJQ@LAPTOP-BSMDJD8U MINGW64 ~/Desktop/git.test01 (master)
$ ll
total 20
drwxr-xr-x 1 ZJQ 197609 0 Aug 24 15:37 ./
drwxr-xr-x 1 ZJQ 197609 0 Aug 24 15:51 ../
drwxr-xr-x 1 ZJQ 197609 0 Aug 24 15:51 .git/

ZJQ@LAPTOP-BSMDJD8U MINGW64 ~/Desktop/git.test01 (master)
$ touch file01.txt

ZJQ@LAPTOP-BSMDJD8U MINGW64 ~/Desktop/git.test01 (master)
$ git status
On branch master

No commits yet

Untracked files:
  (use "git add <file>..." to include in what will be committed)
        file01.txt

nothing added to commit but untracked files present (use "git add" to track)

ZJQ@LAPTOP-BSMDJD8U MINGW64 ~/Desktop/git.test01 (master)
$ git add .

ZJQ@LAPTOP-BSMDJD8U MINGW64 ~/Desktop/git.test01 (master)
$ git status
On branch master

No commits yet

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
        new file:   file01.txt

ZJQ@LAPTOP-BSMDJD8U MINGW64 ~/Desktop/git.test01 (master)
$ git commit -m "add file01"
[master (root-commit) 35e23cd] add file01
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 file01.txt

ZJQ@LAPTOP-BSMDJD8U MINGW64 ~/Desktop/git.test01 (master)
$ git status
On branch master
nothing to commit, working tree clean

ZJQ@LAPTOP-BSMDJD8U MINGW64 ~/Desktop/git.test01 (master)
$ git log
commit 35e23cd1617192d1ca57da6aad9b2dca036c078f (HEAD -> master)
Author: Cecilia <1195163884@qq.com>
Date:   Sat Aug 24 16:01:29 2024 +0800

    add file01

ZJQ@LAPTOP-BSMDJD8U MINGW64 ~/Desktop/git.test01 (master)
$ |
```

图 6: git status/log

## 1.7 git 修改文件

```
ZJQ@LAPTOP-BSMDJD8U MINGW64 ~/Desktop/git.test01 (master)
$ vi file01.txt

ZJQ@LAPTOP-BSMDJD8U MINGW64 ~/Desktop/git.test01 (master)
$ git status
On branch master
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
        modified:   file01.txt

no changes added to commit (use "git add" and/or "git commit -a")

ZJQ@LAPTOP-BSMDJD8U MINGW64 ~/Desktop/git.test01 (master)
$ git add .
warning: in the working copy of 'file01.txt', LF will be replaced by CRLF the next time Git touches it

ZJQ@LAPTOP-BSMDJD8U MINGW64 ~/Desktop/git.test01 (master)
$ git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        modified:   file01.txt

ZJQ@LAPTOP-BSMDJD8U MINGW64 ~/Desktop/git.test01 (master)
$ git commit -m"update file01"
[master dfcd84a] update file01
1 file changed, 1 insertion(+)

ZJQ@LAPTOP-BSMDJD8U MINGW64 ~/Desktop/git.test01 (master)
$ git log
commit dfcd84a217e7f44cd38401765509827cbcc9528c (HEAD -> master)
Author: Cecilia <1195163884@qq.com>
Date:   Sat Aug 24 17:53:08 2024 +0800

    update file01

commit 35e23cd1617192d1ca57da6aad9b2dca036c078f
Author: Cecilia <1195163884@qq.com>
Date:   Sat Aug 24 16:01:29 2024 +0800

    add file01

ZJQ@LAPTOP-BSMDJD8U MINGW64 ~/Desktop/git.test01 (master)
$ |
```

图 7: vi

## 1.8 git 版本回退

```
ZJQ@LAPTOP-BSMDJD8U MINGW64 ~/Desktop/git.test01 (master)
$ git reset --hard 35e23cd1617192d1ca57da6aad9b2dca036c078f
HEAD is now at 35e23cd add file01

ZJQ@LAPTOP-BSMDJD8U MINGW64 ~/Desktop/git.test01 (master)
$ git log
commit 35e23cd1617192d1ca57da6aad9b2dca036c078f (HEAD -> master)
Author: Cecilia <1195163884@qq.com>
Date: Sat Aug 24 16:01:29 2024 +0800

    add file01

ZJQ@LAPTOP-BSMDJD8U MINGW64 ~/Desktop/git.test01 (master)
$ git reset --hard dfcd84a217e7f44cd38401765509827cbcc9528c
HEAD is now at dfcd84a update file01

ZJQ@LAPTOP-BSMDJD8U MINGW64 ~/Desktop/git.test01 (master)
$ git log
commit dfcd84a217e7f44cd38401765509827cbcc9528c (HEAD -> master)
Author: Cecilia <1195163884@qq.com>
Date: Sat Aug 24 17:53:08 2024 +0800

    update file01

commit 35e23cd1617192d1ca57da6aad9b2dca036c078f
Author: Cecilia <1195163884@qq.com>
Date: Sat Aug 24 16:01:29 2024 +0800

    add file01
```

图 8: git reset --hard+commit ID

## 1.9 git 分支

```
ZJQ@LAPTOP-BSMDJD8U MINGW64 ~/Desktop/git.test01 (master)
$ git branch
* master

ZJQ@LAPTOP-BSMDJD8U MINGW64 ~/Desktop/git.test01 (master)
$ git branch dev01

ZJQ@LAPTOP-BSMDJD8U MINGW64 ~/Desktop/git.test01 (master)
$ git branch
dev01
* master
```

图 9: git branch

## 1.10 创建 ssh 公钥秘钥

```
ZJQ@LAPTOP-BSMDJD8U MINGW64 ~/Desktop (master)
$ ssh-keygen
Generating public/private ed25519 key pair.
Enter file in which to save the key (/c/Users/ZJQ/.ssh/id_ed25519):
Created directory '/c/Users/ZJQ/.ssh'.
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /c/Users/ZJQ/.ssh/id_ed25519
Your public key has been saved in /c/Users/ZJQ/.ssh/id_ed25519.pub
The key fingerprint is:
SHA256:jihoBbnzD1U//FyIT8qS1vHoc6ui9ZDb3xzj3TFDIY8 ZJQ@LAPTOP-BSMDJD8U
The key's randomart image is:
--[ED25519 256]--+
  o .
  o o . o So . E o
  = . =o@ .
  . o . B . = o . +
  . o . B . + + . +
  o . . =o . + . . +
  ---[SHA256]-----

ZJQ@LAPTOP-BSMDJD8U MINGW64 ~/Desktop (master)
$ ssh -T git@github.com
Hi Cecilia-hub! You've successfully authenticated, but GitHub does not provide s
hell access.
```

图 10: ssh-keygen,ssh -T git@github.com



## 1.11 git 添加, 查看, 推送到远程仓库

```
ZJQ@LAPTOP-BSMDJD8U MINGW64 ~/Desktop/git.test01 (master)
$ git remote add origin git@github.com:Cecilia-hub/class.git

ZJQ@LAPTOP-BSMDJD8U MINGW64 ~/Desktop/git.test01 (master)
$ git remote
origin

ZJQ@LAPTOP-BSMDJD8U MINGW64 ~/Desktop/git.test01 (master)
$ git push origin master
Enumerating objects: 6, done.
Counting objects: 100% (6/6), done.
Delta compression using up to 16 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (6/6), 425 bytes | 425.00 KiB/s, done.
Total 6 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
remote:
remote: Create a pull request for 'master' on GitHub by visiting:
remote:   https://github.com/Cecilia-hub/class/pull/new/master
remote:
To github.com:Cecilia-hub/class.git
 * [new branch]      master -> master
```

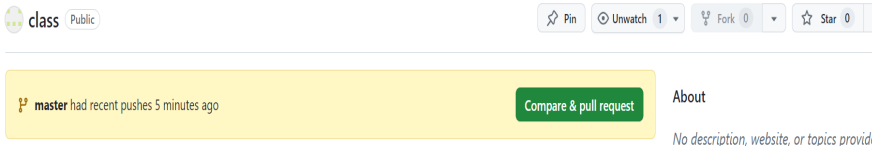
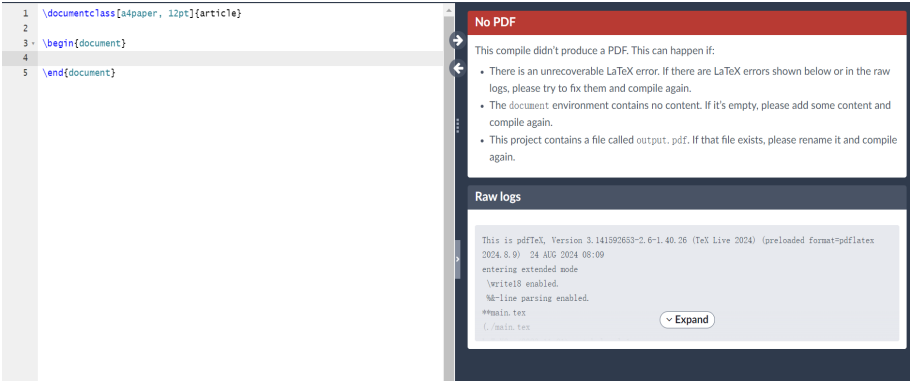


图 11: git remote add origin+ 远程仓库地址,git remote,git push origin master

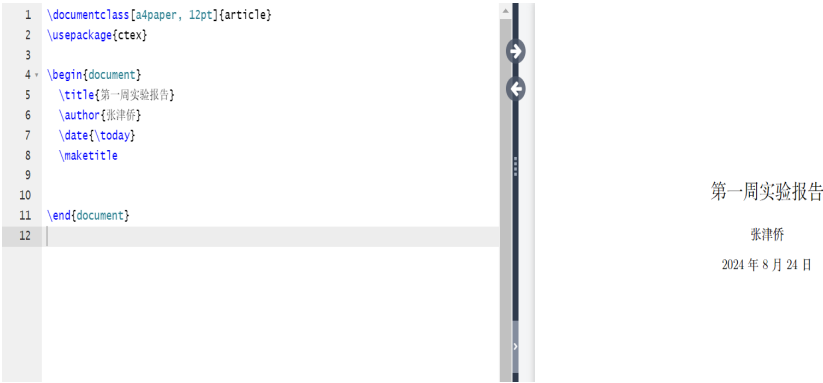
# 1.12 Latex 创建新文档基本要素



# 1.13 Latex 添加宏包以编译中文

`\usepackage{ctex}`

# 1.14 Latex 添加标题，作者以及写作时间



# 1.15 Latex 添加图片，修改图片位置及图片大小

```
13
14 \subsection{git查看配置}
15 \begin{figure}[H]
16 \centering
17 \includegraphics[width=8cm,height=10cm]{1.png}
18 \caption{git config -l}
19 \end{figure}
20
21 \subsection{git设置用户信息}
22 \begin{figure}[H]
23 \centering
24 \includegraphics[width=12cm,height=5cm]{2.png}
25 \caption{git config --global user.name/email}
26 \end{figure}
27
28 \subsection{git为常用指令配置别名}
29 \begin{figure}[H]
30 \centering
31 \includegraphics[width=10cm,height=5cm]{3.png}
32 \caption{touch .bashrc}
33 \includegraphics[width=10cm,height=5cm]{4.png}
34 \end{figure}
```

2024年8月24日

1 练习内容及结果

1.1 git 查看配置



# 1.16 Latex 数学公式

```
4
3 $\alpha+\beta$
4 \begin{equation}
5 \alpha^2+\beta^2=\gamma^2
6 \end{equation}
7
8
```

$$\alpha + \beta$$
$$\alpha^2 + \beta^2 = \gamma^2$$

# 1.17 Latex 改变字体颜色

```
\usepackage{xcolor}

\begin{document}
\title{第一周实验报告}
\author{张津桥}
\date{\today}
\maketitle

\section{\textcolor{blue!70}{练习内容及结果}}
```

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1 练习内容及结果

1.1 git 查看配置



# 1.18 Latex 一些特殊符号的输入

```
1 \documentclass[a4paper, 12pt]{article}
2
3 \usepackage{wasysym}
4
5 \begin{document}
6   \permil
7   \checked
8   \hexstar
9   \male
10  \female
11 \end{document}
```

# 1.19 Latex 随机生成文字并改变文字大小与行间距

```
\usepackage{lipsum}
\begin{document}
\lipsum[1]
\fontsize{12pt}{15pt}\selectfont{\lipsum[1]}
```

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris. Nam arcu libero, nonummy eget, consectetur id, vulputate a, magna. Donec vehicula augue eu neque. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Mauris ut leo. Cras viverra metus rhoncus sem. Nulla et lectus vestibulum urna fringilla ultrices. Phasellus eu tellus sit amet tortor gravida placerat. Integer sapien est, iaculis in, pretium quis, viverra ac, nunc. Praesent eget sem vel leo ultrices bibendum. Aenean faucibus. Morbi dolor nulla, malesuada eu, pulvinar at, mollis ac, nulla. Curabitur auctor semper nulla. Donec varius orci eget risus. Duis nibh mi, congue eu, accumsan eleifend, sagittis quis, diam. Duis eget orci sit amet orci dignissim rutrum.

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris. Nam arcu libero, nonummy eget, consectetur id, vulputate a, magna. Donec vehicula augue eu neque. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Mauris ut leo. Cras viverra metus rhoncus sem. Nulla et lectus vestibulum urna fringilla ultrices. Phasellus eu tellus sit amet tortor gravida placerat. Integer sapien est, iaculis in, pretium quis, viverra ac, nunc. Praesent eget sem vel leo ultrices bibendum. Aenean faucibus. Morbi dolor nulla, malesuada eu, pulvinar at, mollis ac, nulla. Curabitur auctor semper nulla. Donec varius orci eget risus. Duis nibh mi, congue eu, accumsan eleifend, sagittis quis, diam. Duis eget orci sit amet orci dignissim rutrum.

# 1.20 Latex 制作表格

```
\begin{table}[!ht]
\Large
\centering
\caption{table description}
\begin{tabular}{|c|c|c|}
\hline
\textbf{} & \textbf{height} & \textbf{width} \\
\hline
\textbf{A} & 1 & 3 \\
\hline
\textbf{B} & 2 & 4 \\
\hline
\textbf{C} & 5 & 6 \\
\hline
\end{tabular}
\label{tab:tab_name}
\end{table}
```

表1: table description

	height	width
A	1	3
B	2	4
C	5	6

# 2 解题感悟

夏季学期的第一周，我对于 Git 与 LaTeX 进行了简单应用，初步了解了这两个工具。

Git 的版本控制功能让我意识到在任何项目中，尤其是代码和文档的管理中，记录每一次修改是多么的重要。这样可以轻松回溯到之前的状态，避免丢失重要数据。创建分支也能使得多功能开发和团队协作变得更加容易。同时，我对于命令行的使用也更加熟练了。

通过使用 LaTeX，我学会了如何将文档排版得更加专业，尤其是科学和数学类的文档。这样的文档在视觉上更具赏析性，且易于阅读。LaTeX 的文档结构使得写作过程更加系统化，帮助我更清楚地组织思路，这对于日后撰写学术论文或长篇报告是极其重要的。

虽然对于这两个工具我只是进行了初步学习，但是我的视野得到了拓展，此后有对于相关工具的使用需要时也能更快地上手操作。

### **3 gitbit 账号链接:<https://github.com/Cecilia-hub>**