



中国海洋大学

---

# 实验报告

计算机科学与技术

23020007034-郭长挺

<https://github.com/luoshenzjtywxw/-/.git>

## 1 LaTeX

### 1.1 练习

添加文章标题代码示例：

```
\title{My First Document}
\author{My Name}
\date{\today}
\maketitle
```

字体：

<code>\textit{内容}</code>	斜体字
<code>\textbf{内容}</code>	粗体字
<code>\underline{内容}</code>	加下划线
<code>\large{内容}</code>	字体放大
<code>\tiny{内容}</code>	字体缩小

添加图片：

```
\includegraphics[图片参数]{图片位置}
```

两道表格题：

Item	Quantity	Price(\$)
Nails	500	0.34
Wooden boards	100	4.00
Bricks	240	11.50

```
\begin{tabular}{l|c|c}
Item & Quantity & Price(\$) \\
\cline{1-3}
Nails & 500 & 0.34\\
Wooden boards & 100 & 4.00\\
Bricks & 240 & 11.50\\
\end{tabular}
```

---

---

City	Year		
	2006	2007	2008
London	45789	46551	51298
Berlin	34549	325437	29870
Paris	49835	51009	51970

```
\begin{tabular}{l|ccc}
&Year &&\\
\cline{2-4} City &2006 &&2007&2008 \\
\hline London& 45789&& 46551& 51298\\
Berlin& 34549 &&325437& 29870\\
Paris& 49835&& 51009& 51970\\
\end{tabular}
```

六道数学符号题:

$$e = mc^2$$

$$\pi = \frac{c}{d}$$

$$\frac{d}{dx}e^x = e^x$$

$$\frac{d}{dx} \int_a^\infty f(s)ds = f(x)$$

$$f(x) = \sum_i 0^\infty \frac{f^{(i)}(0)}{i!} x^i$$

$$x = \sqrt{\frac{x_i}{z}} y$$

```
\[e=mc^2\]
\[\pi=\frac{c}{d}\]
\[\frac{d}{dx}e^x=e^x\]
\[\frac{d}{dx}\int_a^\infty f(s)ds=f(x)\]
\[f(x)=\sum_i 0^\infty \frac{f^{(i)}(0)}{i!}x^i\]
\[x=\sqrt{\frac{x_i}{z}}y\]
```

无序列表

```
\begin{itemize} %这些列表可以嵌套
  \item[第一] one %item后面可以加参数,来控制显示的是什么
  \item two
  \item three
\end{itemize}
```

有序列表

```
\begin{enumerate}
  \item df
  \item df
  \item df
  \footnote{脚注}
\end{enumerate}
```

---

---

## 1.2 心得

LaTeX 是一个非常好用的工具, 它可以使创作者专注于文章内容本身, 而不是格式. LaTeX 同时也是一个易学难精的工具, 它有丰富的内容, 可以满足我们多种的需求, 但是学习的过程也是辛苦的.

## 2 git

### 2.1 常见命令

#### 本地仓库操作

git status 查看仓库状态  
git add 文件名将文件的修改加入暂存区, 后面可以同时添加两个文件  
git add . 表示全部都添加到暂存区  
git reset 将暂存区的文件取消暂存或者是切换到指定版本  
git commit 将暂存区的文件修改提交到版本库  
git log 查看日志 (每提交一次就会产生一次版本号)  
git reset --head 版本号 (可以回到某一个版本, 工作区的文件也会回到那个时期)

#### 远程仓库操作

git remote 查看远程仓库  
git remote add origin 地址添加远程仓库  
git clone 从远程仓库克隆  
git pull 从远程仓库拉取

#### 分支操作

git branch 查看分支  
git branch [name] 创建分支  
git checkout [name] 切换分支  
git push [shortName] 推送至远程仓库分支  
git merge [name] 合并分支, 将指定分支合并到当前操作的分支  
git branch -d [name] 删除分支

#### 标签操作

git tag 列出已有的标签  
git tag [name] 创建标签  
git push [shortName][name] 将标签推送至远程仓库  
git checkout -b [branch][name] 检出标签, 会自动创建一个新的分支

### 2.2 练习

克隆本课程网站的仓库

1. 将版本历史可视化并进行探索
  2. 是谁最后修改了 README.md 文件? (提示: 使用 git log 命令并添加合适的参数)
  3. 最后一次修改 config.yml 文件中 collections: 行时的提交信息是什么? (提示: 使用 git blame 和 git show)
-

```
MINGW64:/c/Users/ccc/Desktop/asd/missing-semester-cn.github.io
穹灵@Atlantis MINGW64 ~/Desktop/asd/missing-semester-cn.github.io (master)
$ git log --all --graph --decorate
*   commit af054fa1aea2f2599e4474d96b63f73dd9bd145f (HEAD -> master, origin/master, origin/HEAD)
| \ Merge: dd3f3dd 9baa48c
|  Author: Lingfeng_Ai <hanxiaomax@gmail.com>
|  Date:   Fri Aug 16 06:54:16 2024 +0800
|
|      Merge pull request #172 from pspdada/master
|
|      Thank you so much
|
| *   commit 9baa48c778012164179e4e60725418941f41743b
| |  Author: psp_dada <1824427006@qq.com>
| |  Date:   Thu Aug 15 02:07:36 2024 +0800
| |
| |      remove irrelevant text
| |
| *   commit f5df7de89dc7712483665cc6fe8a787aafbef9bf
| |  Author: psp_dada <1824427006@qq.com>
| |  Date:   Thu Aug 15 01:46:12 2024 +0800
| |
| |      fix wrong index
| |
| *   commit ef9a2f75409ff7746c03f6233066e3d2c634cd12
|
穹灵@Atlantis MINGW64 ~/Desktop/asd/missing-semester-cn.github.io (master)
$ git log -1 README.md
commit de98852ef0604cf918bab7f39c63a53932c845d8
Author: yuzq <yuzq@sunwayworld.com>
Date:   Thu Jun 6 14:43:07 2024 +0800

    将readme文件中的url的绝对路径改为相对路径，不用重复访问github，利于分享传播

穹灵@Atlantis MINGW64 ~/Desktop/asd/missing-semester-cn.github.io (master)
$ git blame _config.yml | grep collections
a88b4eac (Anish Athalye 2020-01-17 15:26:30 -0500 18) collections:
```

```
穹灵@Atlantis MINGW64 ~/Desktop/asd/missing-semester-cn.github.io (master)
$ git show a88b4eac
commit a88b4eac326483e29bdac5ee0a39b180948ae7fc
Author: Anish Athalye <me@anishathalye.com>
Date:   Fri Jan 17 15:26:30 2020 -0500
```

Redo lectures as a collection

```
diff --git a/2020/index.html b/2020/index.html
deleted file mode 100644
index 153ddc8..0000000
--- a/2020/index.html
+++ /dev/null
@@ -1,5 +0,0 @@
-----
-layout: redirect
-redirect: /
-title: Missing Semester 2020
-----
diff --git a/2019/automation.md b/_2019/automation.md
similarity index 100%
rename from 2019/automation.md
rename to _2019/automation.md
diff --git a/2019/backups.md b/_2019/backups.md
similarity index 100%
rename from 2019/backups.md
rename to _2019/backups.md
diff --git a/2019/command-line.md b/_2019/command-line.md
similarity index 100%
rename from 2019/command-line.md
rename to _2019/command-line.md
diff --git a/2019/course-overview.md b/_2019/course-overview.md
similarity index 100%
rename from 2019/course-overview.md
rename to _2019/course-overview.md
diff --git a/2019/data-wrangling.md b/_2019/data-wrangling.md
similarity index 100%
rename from 2019/data-wrangling.md
rename to _2019/data-wrangling.md
diff --git a/2019/dotfiles.md b/_2019/dotfiles.md
...skipping...
```

```
穹灵@Atlantis MINGW64 /e/git-demo/git01 (master)
$ git log head
commit 30e20be99fb2f5b4f85b4b17d9e815da380becca (HEAD -> master)
Author: luoshen <2021820292@qq.com>
Date:   Sun Aug 25 19:45:31 2024 +0800
```

add password123 to file

```
commit 135475b7c36a2b94f0a19505a13358dc377ea7f4 (origin/b1, b1)
Author: luoshen <2021820292@qq.com>
Date:   Sun Aug 25 14:53:47 2024 +0800
```

添加5.txt

```
commit cc28ed1b3ff3a4eedbcc4fc212965d8824958225 (tag: v1.0, origin/b2)
Author: luoshen <2021820292@qq.com>
Date:   Sun Aug 25 13:48:45 2024 +0800
```

添加4.txt

```
commit 83da40ca0f27b7067db191f730998636a67cfe3a
Author: luoshen <2021820292@qq.com>
Date:   Sun Aug 25 13:46:46 2024 +0800
```

添加3.txt

```
MINGW64:/c:/Users/ccc/Desktop/asd/missing-semester-cn.github.io
穹灵@Atlantis MINGW64 ~/Desktop/asd/missing-semester-cn.github.io (master)
$ git status
On branch master
Your branch is up to date with 'origin/master'.

nothing to commit, working tree clean

穹灵@Atlantis MINGW64 ~/Desktop/asd/missing-semester-cn.github.io (master)
$ git log --all --oneline
af054fa (HEAD -> master, origin/master, origin/HEAD) Merge pull request #172 from mpspdada/master
9baa48c remove irrelevant text
f5df7de fix wrong index
ef9a2f7 fix typo
dd3f3dd Merge pull request #171 from HowieChih/for-better-understanding
8e26b4a 更新#课程概览与 shell##一个功能全面又强大的工具关于修改亮度文件报错的翻译
4e2ff43 更新#课程概览与 shell##一个功能全面又强大的工具关于修改亮度文件报错的翻译
d284d3e Merge pull request #170 from crosscap/typo-fix
6e27b4f fix some typo in version-control.md
f3773ac Merge pull request #169 from xjzh123/patch-1
ede827e Merge pull request #168 from DXShelley/master
45897e1 修复multiple错译为“乘积”
6221bbc Merge branch 'master' of https://pi-gitserver.kooldns.cn/dxshelley/missing-semester-cn 合并
de98852 将readme文件中的url的绝对路径改为相对路径，不用重复访问github，利于分享传播
3417047 'test'
d78268f Merge pull request #162 from moralok/master
ca4f66d Fix typo for shell-tools.md
56feed9 Fix typo for version-control.md

穹灵@Atlantis MINGW64 ~/Desktop/asd/missing-semester-cn.github.io (master)
$

穹灵@Atlantis MINGW64 ~/Desktop/asd/missing-semester-cn.github.io (master)
$ echo '123' >> 1.txt

穹灵@Atlantis MINGW64 ~/Desktop/asd/missing-semester-cn.github.io (master)
$ git stash
No local changes to save

穹灵@Atlantis MINGW64 ~/Desktop/asd/missing-semester-cn.github.io (master)
$ git add .
warning: in the working copy of '1.txt', LF will be replaced by CRLF the next time Git touches it

穹灵@Atlantis MINGW64 ~/Desktop/asd/missing-semester-cn.github.io (master)
$ git stash
Saved working directory and index state WIP on master: af054fa Merge pull request #172 from mpspdada/master
```

---

```
穹灵@Atlantis MINGW64 ~/Desktop/asd/missing-semester-cn.github.io (master)
$ git stash pop
On branch master
Your branch is up to date with 'origin/master'.

Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    new file:   1.txt

Dropped refs/stash@{0} (5f2a97ec5c4322b1ff56a692e10480e30e5a5564)

穹灵@Atlantis MINGW64 ~/Desktop/asd/missing-semester-cn.github.io (master)
$ git status
On branch master
Your branch is up to date with 'origin/master'.

Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    new file:   1.txt
```

## 2.3 心得

git 是一个非常有用的工具, 他可以为团队的共同开发提供极大的便利, 而且它还有回溯功能, 防止开发时发生意外, 误删开发信息. 它与 LaTeX 一样也是易学难精, 但完全掌握它后会给我们带来极大便利