

# 第一次实验报告

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## Exercise 1 克隆本网站的仓库

git clone Cloning into https://github.com/missing-semester-cn/missing-semester-cn.github.io

```
Administrator@Yangtain MINGW32 /d/UserData/Desktop/draft (master)
$ git clone https://github.com/missing-semester-cn/missing-semester-cn.github.io
Cloning into 'missing-semester-cn.github.io'...
remote: Enumerating objects: 3194, done.
remote: Counting objects: 100% (3194/3194), done.
remote: Compressing objects: 100% (1126/1126), done.
Receiving objects: 34% (1086/3194), 308.00 KiB | 17.00 KiB/s
```

1. 将版本历史可视化并进行探索

git log --all --graph --decorate

```
Administrator@Yangtain MINGW32 /d/UserData/Desktop/draft/missing-semester-cn.github.io (master)
$ git log --all --graph --decorate
* commit af054fala2f2599e4474d96b63f73dd9bd145f (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 pspdata/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
```

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)

git log -1 README.md

```
Administrator@Yangtain MINGW32 /d/UserData/Desktop/draft/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
```

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）

git blame \_config.yml | grep collections

git show...

```
Administrator@Yangtain MINGW32 /d/UserData/Desktop/draft/missing-semester-cn.git
hub.io (master)
$ git blame _config.yml | grep collections
a88b4eac (Anish Athalye 2020-01-17 15:26:30 -0500 18) collections:

Administrator@Yangtain MINGW32 /d/UserData/Desktop/draft/missing-semester-cn.git
hub.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: /
```

**Exercise 2** 使用 Git 时的一个常见错误是提交本不应该由 Git 管理的大文件，或是将含有敏感信息的文件提交给 Git。尝试向仓库中添加一个文件并添加提交信息，然后将其从历史中删除

git add test.txt

git commit -m "添加测试文件"

git filter-branch --force --index-filter 'git rm --cached --ignore-unmatch test.txt' --prune-empty --tag-name-filter cat --all

```
Administrator@Yangtain MINGW32 /d/UserData/Desktop/draft (master)
$ echo "测试" > test.txt

Administrator@Yangtain MINGW32 /d/UserData/Desktop/draft (master)
$ git add test.txt
warning: in the working copy of 'test.txt', LF will be replaced by CRLF the next
time Git touches it

Administrator@Yangtain MINGW32 /d/UserData/Desktop/draft (master)
$ git commit -m "添加测试文件"
[master (root-commit) 85264df] 添加测试文件
1 file changed, 1 insertion(+)
create mode 100644 test.txt

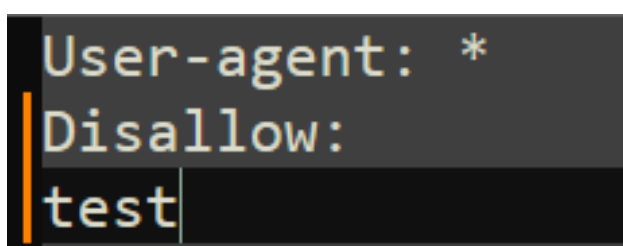
Administrator@Yangtain MINGW32 /d/UserData/Desktop/draft (master)
$ git filter-branch --force --index-filter 'git rm --cached --ignore-unmatch tes
t.txt' --prune-empty --tag-name-filter cat --all
WARNING: git-filter-branch has a glut of gotchas generating mangled history
rewrites. Hit Ctrl-C before proceeding to abort, then use an
alternative filtering tool such as 'git filter-repo'
(https://github.com/newren/git-filter-repo/) instead. See the
filter-branch manual page for more details; to squelch this warning,
set FILTER_BRANCH_SQUELCH_WARNING=1.
Proceeding with filter-branch...

Rewrite 85264df35adad9ab0f6f774cdda05c10cf821c6c (1/1) (0 seconds passed, remain
ing 0 predicted)    rm 'test.txt'
Ref 'refs/heads/master' was deleted
```

**Exercise 3** 从 GitHub 上克隆某个仓库，修改一些文件。当您使用 `git stash` 会发生什么？当您执行 `git log --all --oneline` 时会显示什么？通过 `git stash pop` 命令来撤销 `git stash` 操作，什么时候会用到这一技巧？

克隆课程网站的仓库

修改 `robot.txt` 文件



`git stash`

HEAD commit 之上多了两条 commit

```
Administrator@Yangtain MINGW32 /d/UserData/Desktop/draft/missing-semester-cn.git
hub.io (master)
$ git stash
Saved working directory and index state WIP on master: af054fa Merge pull request #172 from pspada/master
```

`git stash pop`

```
Administrator@Yangtain MINGW32 /d/UserData/Desktop/draft/missing-semester-cn.git
hub.io (master)
$ git stash pop
On branch master
Your branch is up to date with 'origin/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:   robots.txt

no changes added to commit (use "git add" and/or "git commit -a")
Dropped refs/stash@{0} (23ce31dab63943b4820f2f6d0ab142ef409a476f)
```

`git stash` 可以用在修改文件时想查看保留之前的内容。

Exercise 4 与其他的命令行工具一样，Git 也提供了一个名为 `/.gitconfig` 配置文件 (或 dotfile)。请在 `/.gitconfig` 中创建一个别名，使您在运行 `git graph` 时，您可以得到 `git log --all --graph --decorate --oneline` 的输出结果

```
GNU nano 5.8 /c/Users/Administrator/.gitconfig Modified
[user]
  name = takuto
  email = blct017@outlook.com
[pull]
  rebase = false
[http]
  sslverify = false
[alias]
  graph = log --all --graph --decorate --oneline

AG Help      AO Write Out AW Where Is AK Cut      AT Execute  AC Location
AX Exit      AR Read File AL Replace  AU Paste    AJ Justify  A/ Go To Line
```

`git graph`

```
Administrator@Yangtain MINGW32 /d/UserData/Desktop/draft/missing-semester-cn.git
hub.io (master)
$ git graph
* 2e303ae (refs/stash) WIP on master: af054fa Merge pull request #172 from psp
dada/master
* eac1d40 index on master: af054fa Merge pull request #172 from pspdada/master
* af054fa (HEAD -> master, origin/master, origin/HEAD) Merge pull request #172
from pspdada/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
```

Exercise 5 您可以通过执行 `git config --global core.excludesfile ~/.gitignore_global /.`

```
Administrator@Yangtain MINGW32 /d/UserData/Desktop/draft/missing-semester-cn.git
hub.io (master)
$ git config --global core.excludesfile ~/.gitignore .DS_Store
```

Exercise 6 克隆本课程网站的仓库，找找有没有错别字或其他可以改进的地方，在 GitHub 上发起拉取请求 (Pull Request)；首先 fork 本网站仓库，然后克隆 fork 后的仓库

