

\$ Intro to git and gitlab_

What is Git?

『git是用於Linux核心開發的版本控制工具。它採用了分散式版本庫的作法,不需要伺服器端軟體,就可以運作版本控制,使得原始碼的釋出和交流極其方便。』

一維基百科



What is Git?



版本管理?



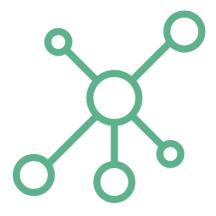
檔案庫?



What is Git?



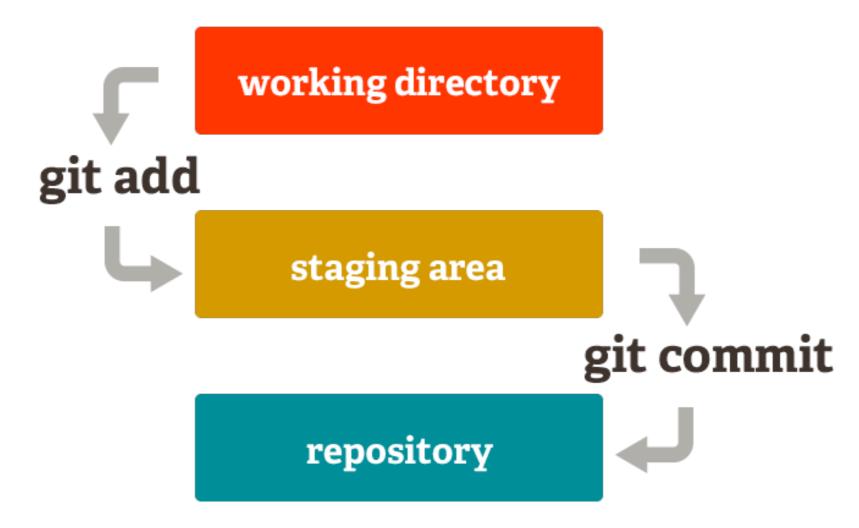
散分式?



集中式?

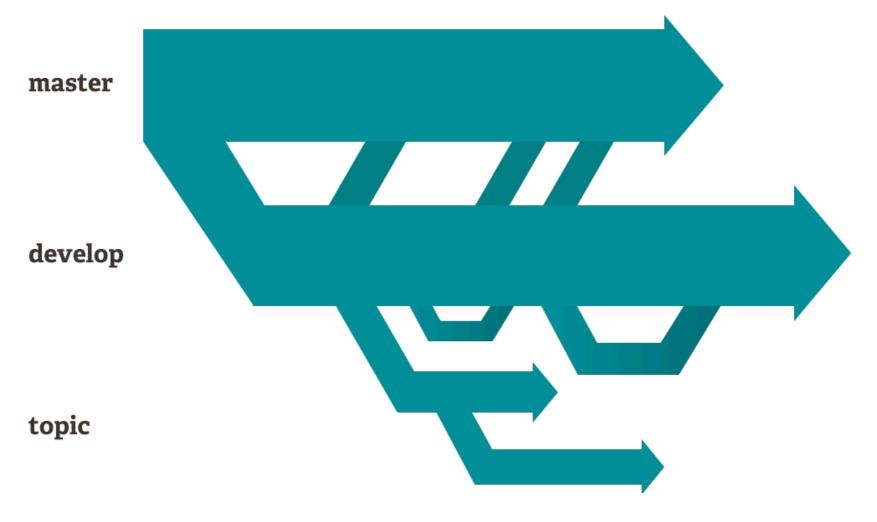


Staging Area



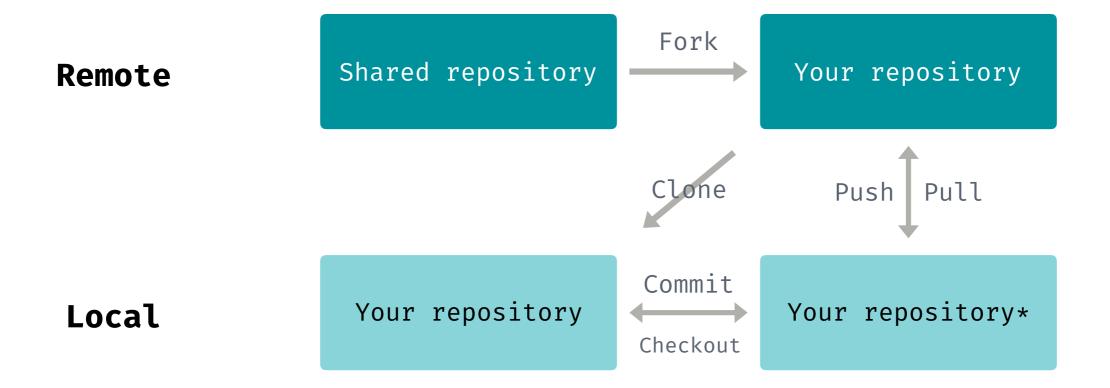


Branch and Merge





Distributed





Gitlab!

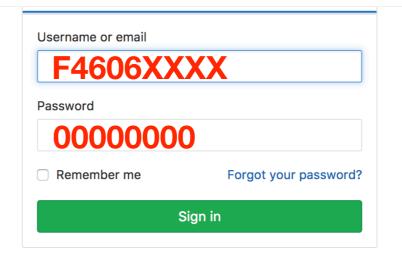
• http://os.csie.ncku.edu.tw:59487/users/sign_in

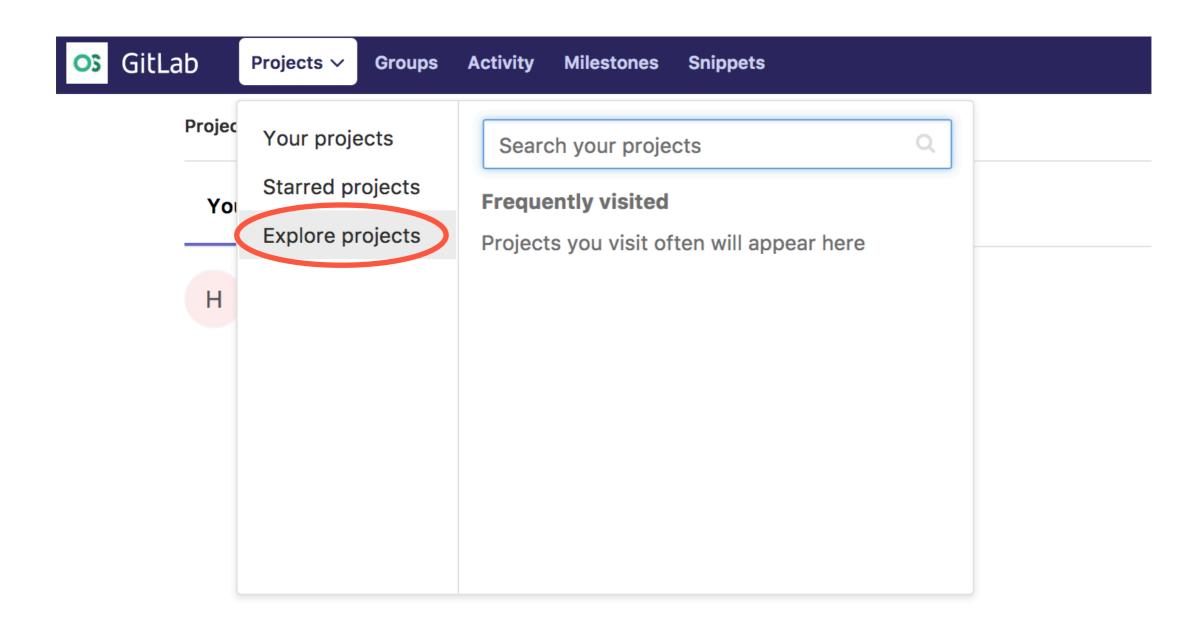
OS

帳號:學號

• 密碼:00000000







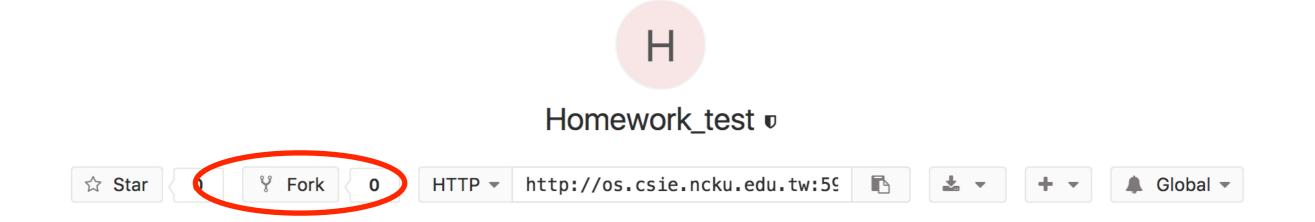
Projects

Your projects Starred projects Explore projects

Trending Most stars All

H OSLab / Homework_test

OSLab > Homework_test > Details



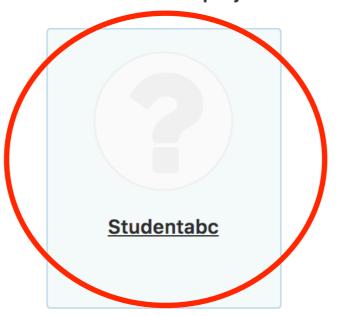
OSLab > Homework_test > Fork project

Fork project

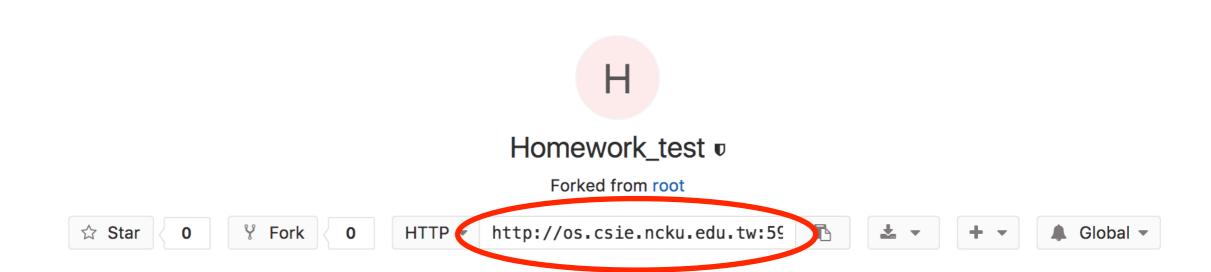
project.

A fork is a copy of a project.
Forking a repository allows you to make changes without affecting the original

Click to fork the project to a user or group



The project was successfully forked.



Clone remote repository

```
$ git clone http://os.ncku.csie.edu.tw:59487/anc/
Homework_test.git
$ cd Homework_test
```

```
pohaosu@oslab-pohaosu:~$ git clone http://os.csie.ncku.edu.tw:59487/anc/Homework_test.git
Cloning into 'Homework_test'...
Username for 'http://os.csie.ncku.edu.tw:59487': anc
Password for 'http://anc@os.csie.ncku.edu.tw:59487':
remote: Counting objects: 3, done.
remote: Total 3 (delta 0), reused 0 (delta 0)
Unpacking objects: 100% (3/3), done.
pohaosu@oslab-pohaosu:~$ ls
Desktop Documents Downloads examples.desktop HelloWorld Homework_test TODD linux M
```

Check status

```
$ vim README.md
$ git status
```

```
pohaosu@oslab-pohaosu:~$ cd Homework_test/
pohaosu@oslab-pohaosu:~/Homework_test$ ls

README.md
pohaosu@oslab-pohaosu:~/Homework_test$ vim README.md
pohaosu@oslab-pohaosu:~/Homework_test$ git status

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 checkout -- <file>..." to discard changes in working directory)

modified: README.md

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

How to Commit

```
$ git add README.md //modified to staged
$ git commit -m "Modify README.md" //staged to unmodified
```

```
pohaosu@oslab-pohaosu:~/Homework_test$ git add README.md
pohaosu@oslab-pohaosu:~/Homework_test$ git commit -m 'Modify README.md'
[master f2de884] Modify README.md
1 file changed, 2 insertions(+), 1 deletion(-)
```

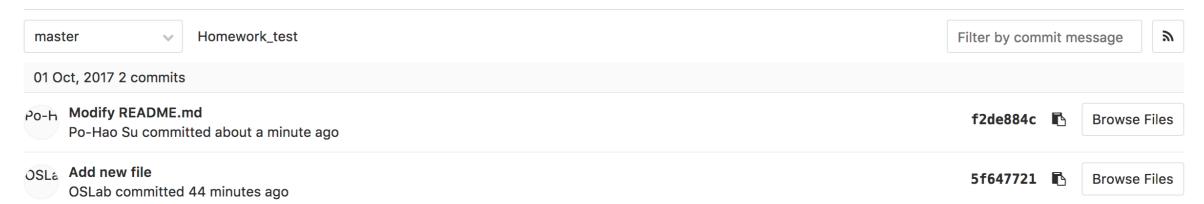
Push

```
$ git push //From Local to Remote
```

Log

\$ git log //Show commit log

Studentabc > Homework_test > Commits



Reference

- Git達人教你搞懂GitHub基礎觀念
- 連猴子都能懂的Git入門指南
- Pro Git

