Git Tutorial

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\$ whois author

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#「喵,借貓手摳頂,bug會變少哦。」



\$ whatis git



\$ whatis git

Git

一種好用的版本控制工具

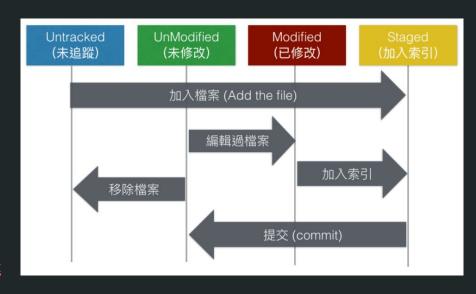
```
y2mk1ng@ubuntu:~$ whatis git
git (1) - the stupid content tracker
Git (3pm) - Perl interface to the Git version control system
```

\$ whatis git

Git:

Tracking the files and when they update

Ref: https://w3c.hexschool.com/git/3236f0ec



\$ sudo apt install git

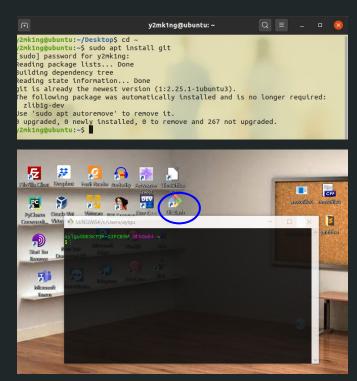
Ubuntu 和 Debian 系列: 度的 94這一行 ↑

Windows: 先安裝 Git Bash

https://git-scm.com/downloads

或 Cmder

https://cmder.net/

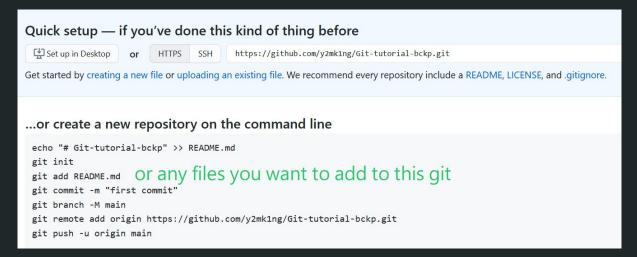


\$ git --help

Git 的使用方法

- 1. 建立一個資料夾
- 2. 如果你想要在網路上備份的話,建立一個跟 1. 同名的 GitHub repo

3.



\$ git status

\$ git status [<options>...] [--] [<pathspec>...]

可以看到在一個資料夾中 git 的狀態

```
aylgu@DESKTOP-DJPCB9M MINGW64 ~/Documents
$ cd git-tutorial

aylgu@DESKTOP-DJPCB9M MINGW64 ~/Documents/git-tutorial (main)
$ git status
On branch main
Your branch is up to date with 'y2mklng/main'.

nothing to commit, working tree clean
```

```
avlgu@DESKTOP-DJPCB9M MINGW64 ~/Documents/git-tutorial (main)
$ git status
On branch main
Your branch is up to date with 'y2mk1ng/main'.
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)
no changes added to commit (use "git add" and/or "git commit -a")
aylgu@DESKTOP-DJPCB9M MINGW64 ~/Documents/git-tutorial (main)
$ git add README.md
warning: LF will be replaced by CRLF in README.md.
The file will have its original line endings in your working directory
avlgu@DESKTOP-DJPCB9M MINGW64 ~/Documents/git-tutorial (main)
$ git status
On branch main
Your branch is up to date with 'y2mk1ng/main'.
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        modified: README.md
aylqu@DESKTOP-DJPCB9M MINGW64 ~/Documents/git-tutorial (main)
$ git commit -m "add content"
[main b3c2fe6] add content
 1 file changed, 2 insertions(+)
```

\$ git fetch && git merge

\$ git fetch: 把遠端的 git 和本地的 git 比較後, 把本地沒有的下載下來

\$ git merge: 把兩個 branch 融合

\$ git pull && git push

如果

\$ git push -u XXX XXXX

跳出了錯誤訊息

! [rejected] main -> main (fetch first)

怎麼辦呢?

\$ git pull == \$ git fetch + \$ git merge \$ git pull -- rebase: 把 git 資料庫更新程目前狀態

\$ git remote || git clone

有了 GitHub repo 後可以做的事!

Git remote: 用在跟 GitHub repo 連結時

\$ git remote add y2mk1ng
https://github.com/CCLoLab/git-tutorial.git

Git clone: 用在下載 GitHub 上的 repo 時

\$ git clone https://github.com/CCLoLab/git-tutorial.git

\$./practice.out

練習:請用 git command 在實驗室的 git-tutorial repo 上

(1) 新增一個文字檔 && (2) 在 README.md 的亂聊區寫一句話

Repo 網址: https://github.com/CCLoLab/git-tutorial.git

Hint: 第一步:

\$ git clone https://github.com/CCLoLab/git-tutorial.git