INTRODUCTION TO DATA SCIENCE

TA class I

TA: Lee Chi-Hsuan

∖ Git & GitHub



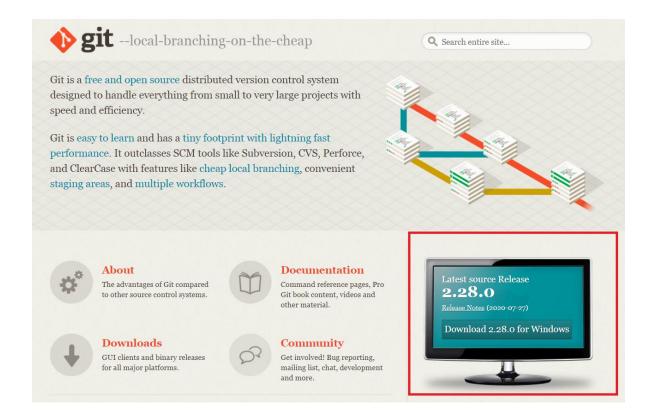


VCS

Version Control System

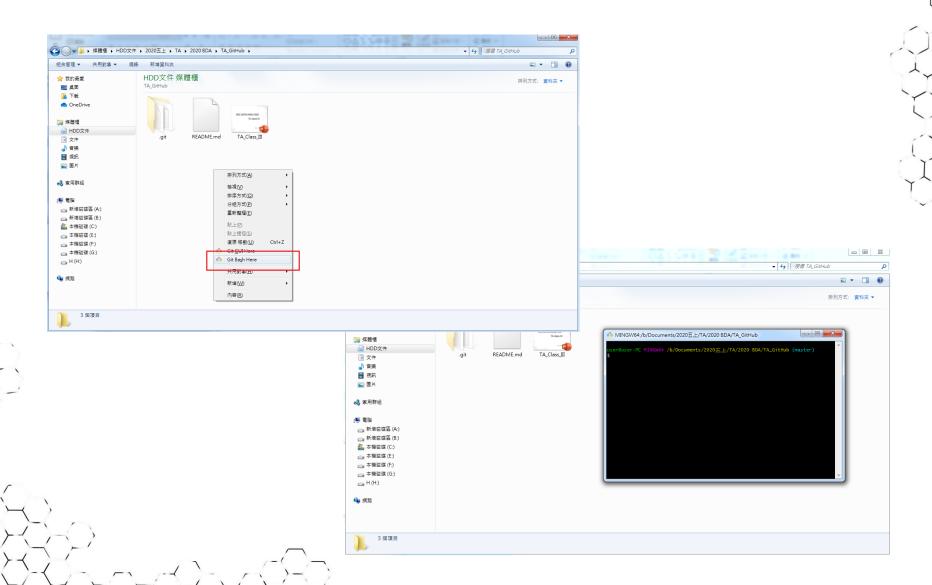
A system that records changes to files over time so that you can recall specific versions later.

Git





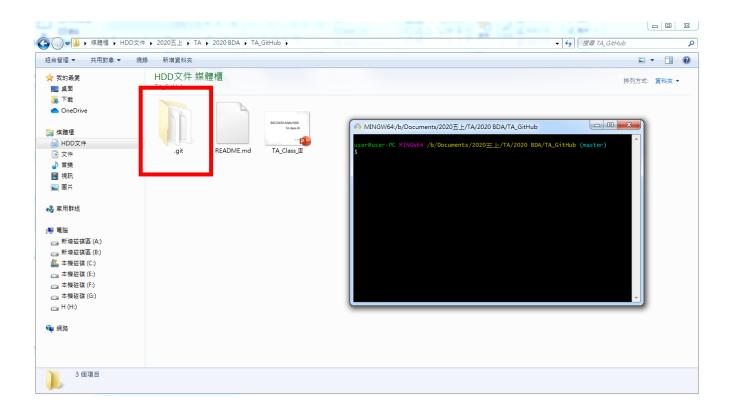
First Steps with Git



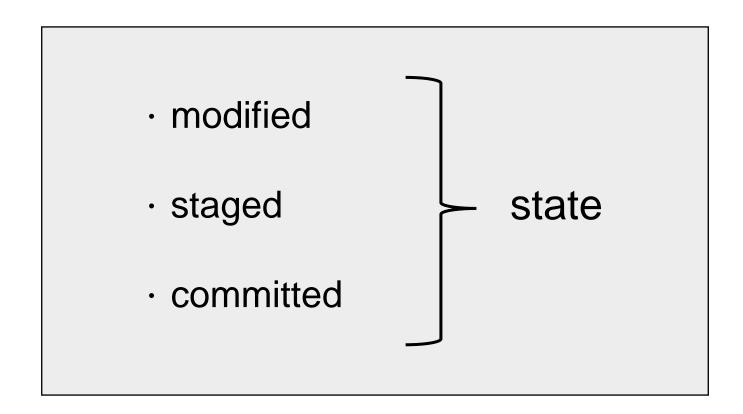
Your Identity

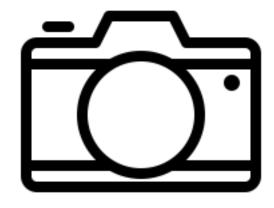
- · git config --global user.email "your_email_account.gmail.com"
- · git config --global user.name "your name"

· git init



Three state of tracking files:





· Snapshotting your repository

· git status

```
♦ MINGW64:/b/Documents/2020五上/TA/2020 BDA/TA_GitHub
user@user-PC MINGW64 /b/Documents/2020五上/TA/2020 BDA/TA_GitHub (master)
$ 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 restore <file>..." to discard changes in working directory)
no changes added to commit (use "git add" and/or "git commit -a")
user@user-PC MINGW64 /b/Documents/2020五上/TA/2020 BDA/TA_GitHub (master)
```

git add

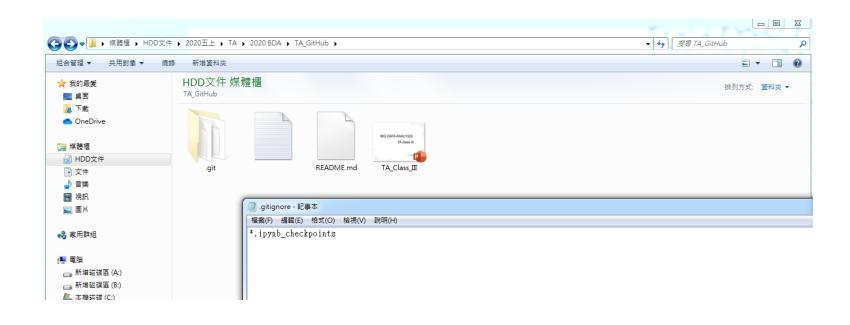
```
MINGW64:/b/Documents/2020五上/TA/2020 BDA/TA_GitHub
user@user-PC MINGW64 /b/Documents/2020五上/TA/2020 BDA/TA_GitHub (master)
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no changes added to commit (use "git add" and/or "git commit -a")
user@user-PC MINGW64 /b/Documents/2020五上/TA/2020 BDA/TA_GitHub (master)
$ git add TA_Class_III.pptx
user@user-PC MINGW64 /b/Documents/2020五上/TA/2020 BDA/TA_GitHub (master)
```

· git commit –m '...'

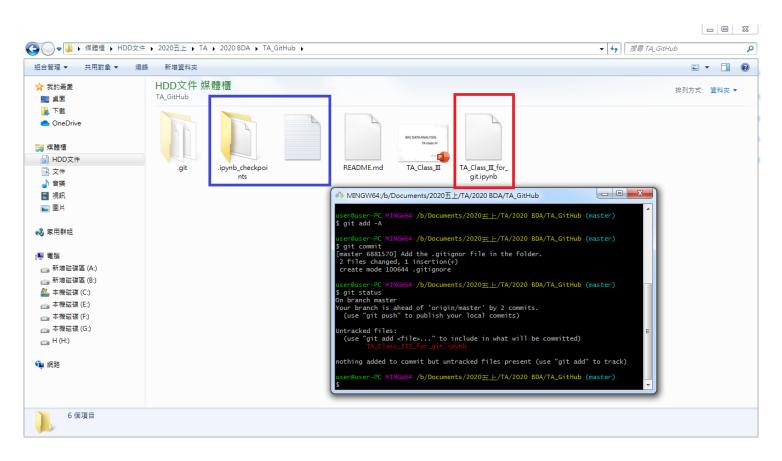
```
MINGW64:/b/Documents/2020五上/TA/2020 BDA/TA_GitHub

user@user-PC MINGW64 /b/Documents/2020开 ト/TA/2020 BDA/TA_GitHub (master)
$ git status
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Changes not staged for commit:
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no changes added to commit (use "git add" and/or "git commit -a")
user@user-PC MINGW64 /b/Documents/2020五上/TA/2020 BDA/TA_GitHub (master)
$ git add TA_Class_III.pptx
user@user-PC MINGW64 /b/Documents/2020五上/TA/2020 BDA/TA_GitHub (master)
$ git commit -m 'Modify the PPT'
[master 283eeeb] Modify the PPT
1 file changed, 0 insertions(+), 0 deletions(-)
user@user-PC MINGW64 /b/Documents/2020五上/TA/2020 BDA/TA_GitHub (master)
```

.gitignor



...after adding an ipynb file(the ipynb_checkpoints is ignored)



· git add -A

```
MINGW64:/b/Documents/2020五上/TA/2020 BDA/TA_GitHub
$ git commit
[master 6881570] Add the .gitignor file in the folder.
2 files changed, 1 insertion(+)
 create mode 100644 .gitignore
user@user-PC MINGW64 /b/Documents/2020<u>五上</u>/TA/2020 BDA/TA_GitHub (master)
$ git status
On branch master
Your branch is ahead of 'origin/master' by 2 commits.
  (use "git push" to publish your local commits)
Untracked files:
  (use "git add <file>..." to include in what will be committed)
nothing added to commit but untracked files present (use "git add" to track)
user@user-PC MINGW64 /b/Documents/2020五上/TA/2020 BDA/TA_GitHub (master)
$ git add -A
warning: LF will be replaced by CRLF in TA_Class_III_for_git.ipynb.
The file will have its original line endings in your working directory
 user@user-PC MINGW64 /b/Documents/2020五上/TA/2020 BDA/TA_GitHub (master)
```

· git commit

```
MINGW64:/b/Documents/2020五上/TA/2020 BDA/TA_GitHub
$ git commit
[master 6881570] Add the .gitignor file in the folder.
2 files changed, 1 insertion(+)
 create mode 100644 .gitignore
user@user-PC MINGW64 /b/Documents/2020五上/TA/2020 BDA/TA_GitHub (master)
$ git status
On branch master
Your branch is ahead of 'origin/master' by 2 commits.
  (use "git push" to publish your local commits)
Untracked files:
  (use "git add <file>..." to include in what will be committed)
nothing added to commit but untracked files present (use "git add" to track)
user@user-PC MINGW64 /b/Documents/2020五上/TA/2020 BDA/TA_GitHub (master)
$ git add -A
warning: LF will be replaced by CRLF in TA_Class_III_for_git.ipynb.
The file will have its original line endings in your working directory
user@user-PC MINGW64 /b/Documents/2020五上/TA/2020 BDA/TA_GitHub (master)
  git commit
```

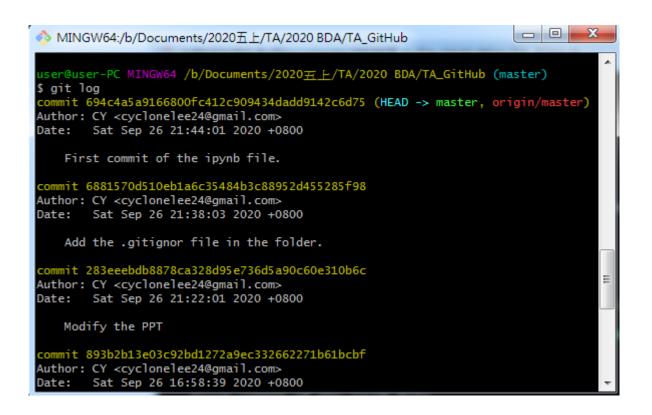
· vim

- · press 'i'
- · write your commit message
- · press 'Esc'
- type ':wq'

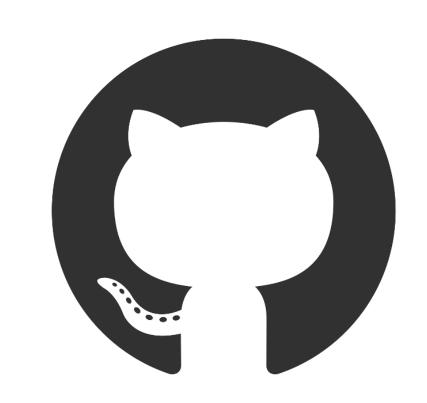
```
- - X

♦ MINGW64:/b/Documents/2020五上/TA/2020 BDA/TA_GitHub
Finish the 'status' part of the PPT.
# Please enter the commit message for your changes. Lines starting
# with '#' will be ignored, and an empty message aborts the commit.
# On branch master
# Your branch is up to date with 'origin/master'.
# Changes to be committed:
       modified: TA_Class_III.pptx
<TA/2020 BDA/TA_GitHub/.git/COMMIT_EDITMSG[+] [unix] (22:05 26/09/2020)1,36 全部</p>
```

· git log



GitHub



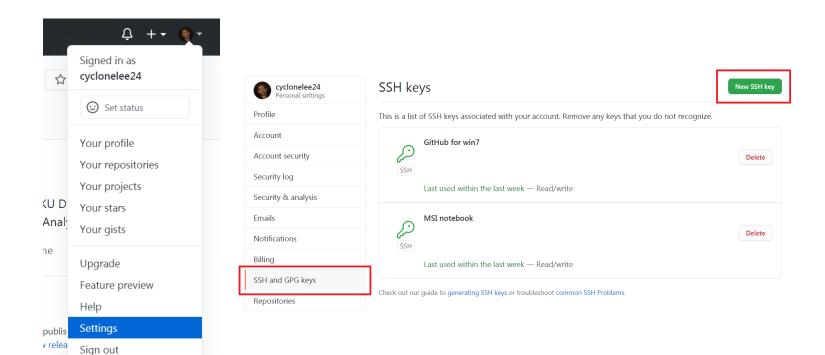
 A web-based Git repository hosting service.

On top of Git's functions,
 it includes extra features.



- ssh-key: let GitHub know your identity
- · \$ ssh-keygen
- you can skip entering the passphrase
- \$ cat /directory of your key/id_rsa.pub

copy from ssh-rsa... to ...@gmail.com(or to ...@pc-name)



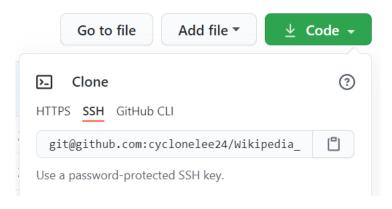
Identify yourself with id_rsa.pub to GitHub

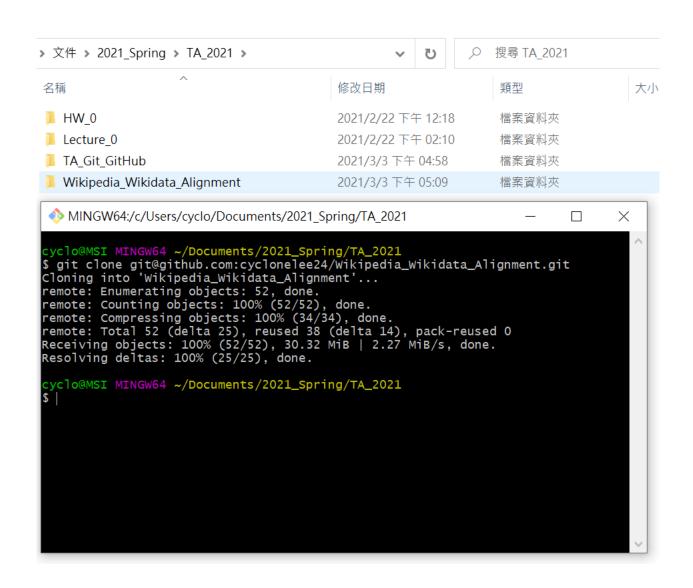
SSH keys / Add new
Title
Key
Begins with 'ssh-rsa', 'ssh-ed25519', 'ecdsa-sha2-nistp256', 'ecdsa-sha2-nistp384', or 'ecdsa-sha2-nistp521'

Add SSH key

· Adding SSH key steps reference

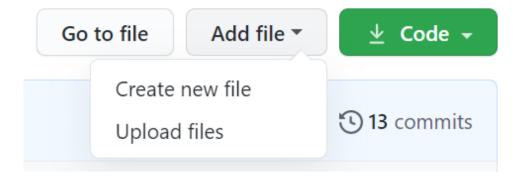
· git clone





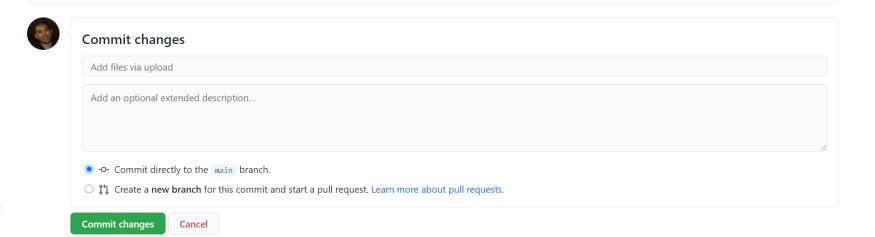
2021 > Wikipedia_Wikidata_Alignment >	▼ ひ		
名稱 ^	修改日期	類型	大小
.git	2021/3/3 下午 05:10	檔案資料夾	
📙 data	2021/3/3 下午 05:10	檔案資料夾	
gitignore	2021/3/3 下午 05:09	文字文件	1 KB
README.md	2021/3/3 下午 05:09	MD 檔案	1 KB
Wikidata_Coattention_NSMN.ipynb	2021/3/3 下午 05:09	IPYNB 檔案	46 KB
Wikidata_pretrained_BERT.ipynb	2021/3/3 下午 05:09	IPYNB 檔案	51 KB
Wikidata_pretrained_BERT_unlabel.ipynb	2021/3/3 下午 05:09	IPYNB 檔案	42 KB

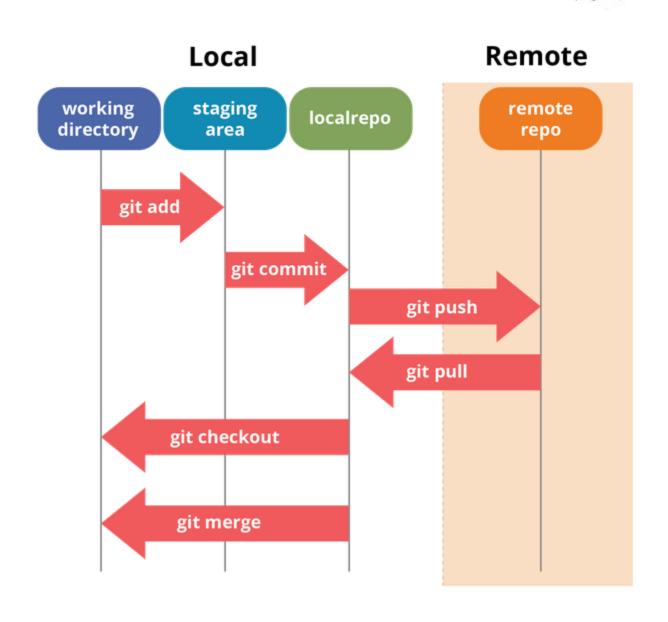
· other method to upload your homework



Drag files here to add them to your repository

Or choose your files





More questions?

