

2023-09-22

要將檔案上傳到 GitHub 上進行版本控制必須先將檔案 **add** 進索引中，再由索引一次將檔案 **commit** 給本地的數據庫，接下來就可以將檔案從本地數據庫 **push** 到 GitHub 上。

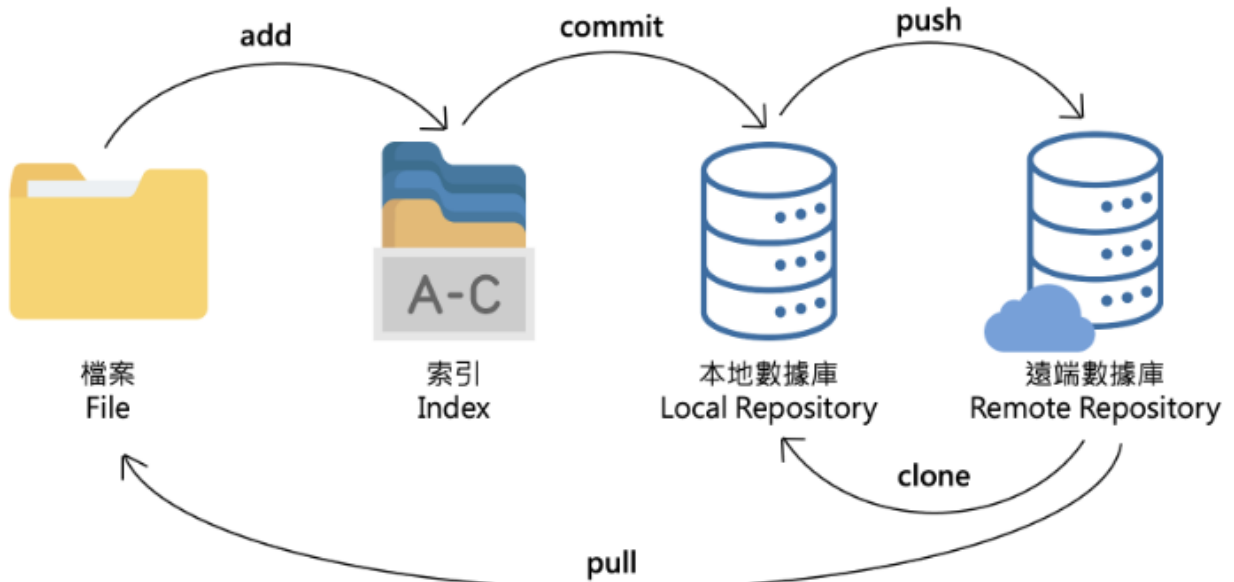




圖 1 本地數據庫的工作。


下載git，點選左下角下載


**git** --fast-version-control


Git is a **free and open source** distributed version control system designed to handle everything from small to very large projects with speed and efficiency.


Git is **easy to learn** and has a **tiny footprint with lightning fast performance**. It outclasses SCM tools like Subversion, CVS, Perforce, and ClearCase with features like **cheap local branching**, convenient **staging areas**, and **multiple workflows**.




**About**
The advantages of Git compared to other source control systems.

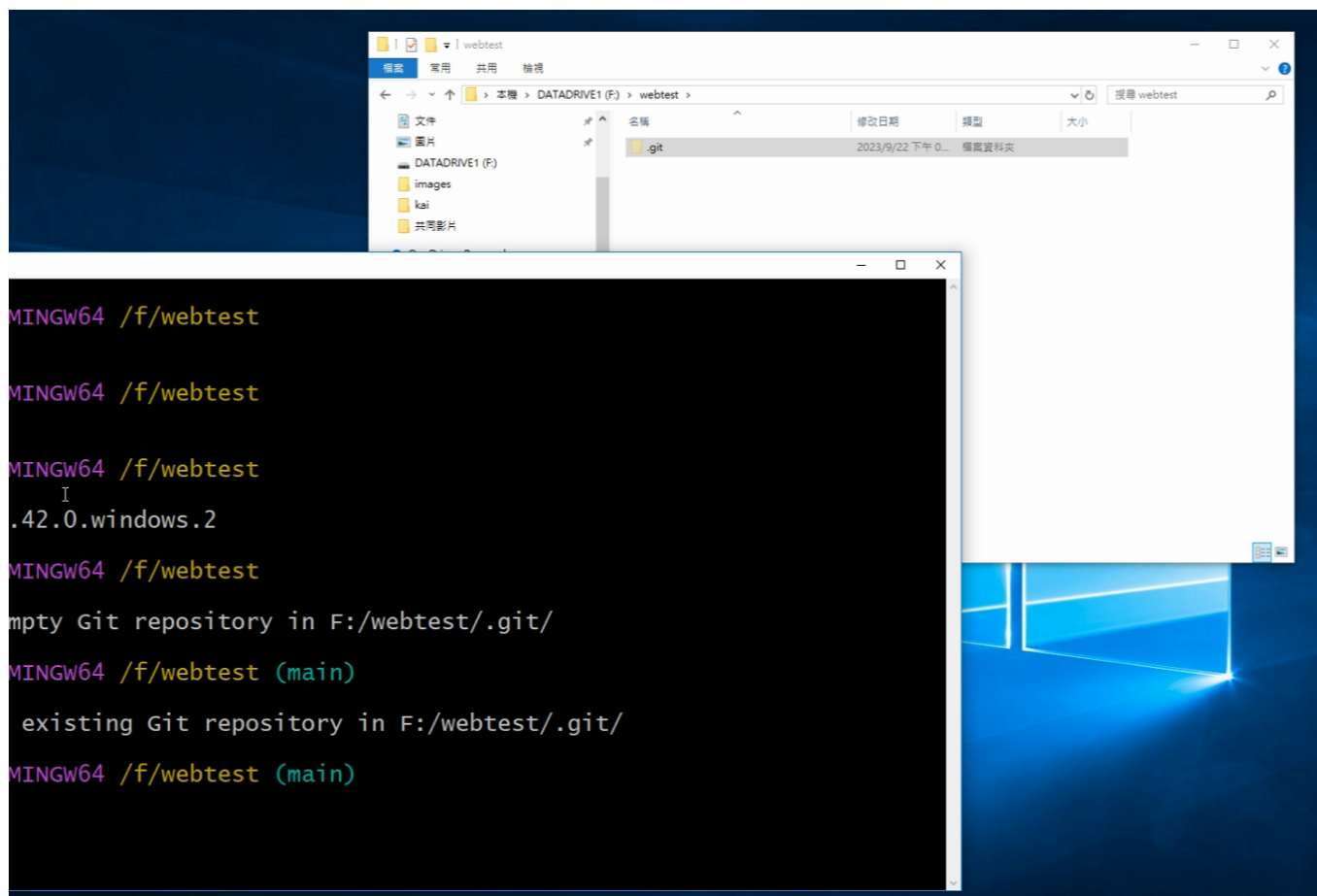
**Documentation**
Command reference pages, Pro Git book content, videos and other material.

**Downloads**
GUI clients and binary releases for all major platforms.

**Community**
Get involved! Bug reporting, mailing list, chat, development and more.



檔案總管理建立web資料夾，資料夾終點右鍵



點選 open git bash here



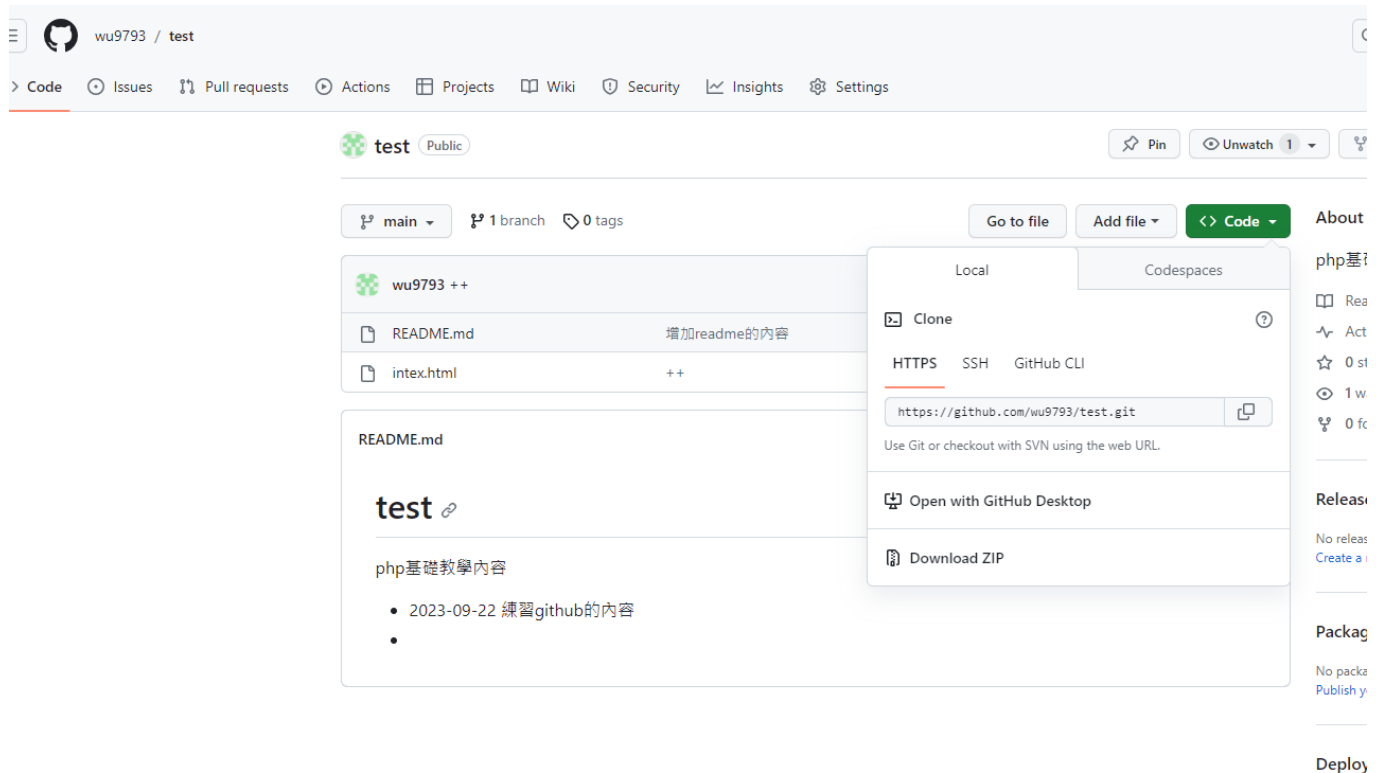
```

user@Teacher MINGW64 /f/webtest
$ git -v
git version 2.42.0.windows.2

user@Teacher MINGW64 /f/webtest
$ git init
Initialized empty Git repository in F:/webtest/.git/

```

拷貝github網址



增加節點

```

user@113-23 MINGW64 /d/web_test
$ git init
Initialized empty Git repository in D:/web_test/.git/

```

```

user@113-23 MINGW64 /d/web_test (main)
$ git remote add test https://github.com/wu9793/test.git

```

連結本地端檔案

```

user@113-23 MINGW64 /d/web_test (main)
$ git pull test main
From https://github.com/wu9793/test
* branch          main          -> FETCH_HEAD

```

設定姓名和信箱，確認身分

```
PS D:\web_test> git config --global user.name "wu"  
PS D:\web_test> git config --global user.email "timmy61501@gmail.com"
```

git add + 空格 + . 本地端變更內容添加到git管控

git status 當檔案還在檔案 (File) 與**索引 (Index) ，查看git指令

```
PS D:\web_test> git add.  
git: 'add.' is not a git command. See 'git --help'.  
  
The most similar command is  
    add  
PS D:\web_test> git status  
On branch main  
Changes to be committed:  
  (use "git restore --staged <file>..." to unstage)  
    modified:   intex.html
```

git commit + 空格 -m"xxxxx" 把變更的內容添加進列表

```
PS D:\web_test> git commit -m "增加了css的美化"  
[main 366923e] 增加了css的美化  
1 file changed, 18 insertions(+), 1 deletion(-)
```

git log 當檔案已經加入本地數據庫，查看git指令

```
PS D:\web_test> git log
commit 366923ea39a7c379c4279a0f4962ea9d004edda8 (HEAD -> main)
Author: wu <timmy61501@gmail.com>
Date:   Fri Sep 22 14:41:48 2023 +0800
```

增加了css的美化

```
commit 548108e8e89dbfd90212422b9c82a0753bef8257 (test/main)
Author: wu0903 <145732080+wu9793@users.noreply.github.com>
Date:   Fri Sep 22 11:59:10 2023 +0800
```

++

```
commit d7013e7545df4f43808a2cc55a5c26146535b68e
Author: wu0903 <145732080+wu9793@users.noreply.github.com>
Date:   Fri Sep 22 10:57:42 2023 +0800
```

修改內容

```
commit dc2c6600afd3fcb2d659227a04b660a7ad14e19b
Author: wu0903 <145732080+wu9793@users.noreply.github.com>
Date:   Fri Sep 22 10:53:19 2023 +0800
```

```
commit 366923ea39a7c379c4279a0f4962ea9d004edda8 (HEAD -> main)
Author: wu <timmy61501@gmail.com>
Date:   Fri Sep 22 14:41:48 2023 +0800
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Author: wu0903 <145732080+wu9793@users.noreply.github.com>
Date:   Fri Sep 22 10:53:19 2023 +0800
```

新增intex.html內容

git push(檔案名稱) main 將檔案從本地數據庫 push 到 GitHub 上

```
PS D:\web_test> git push test main  
Everything up-to-date
```