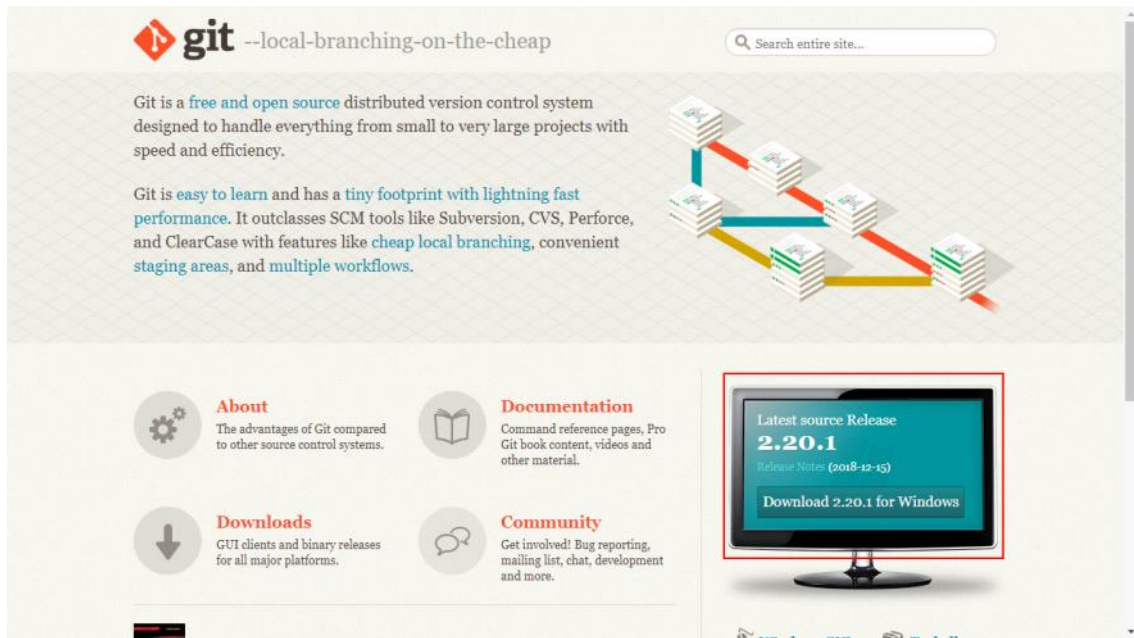


git

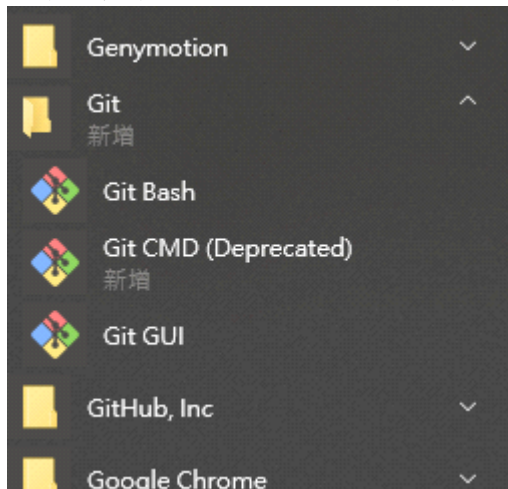
2020年5月8日 上午 10:43

Git 是一種分散式版本控制系統。

1. 安裝git



安裝完成後可於工具列發現程式列表



2. 使用Git Bash

指令與linux 雷同

git version 查詢版本已確認是否安裝成功



3. 開啟一個新專案

```
MINGW64/c/gitproject
Richie@DESKTOP-4IDC14U MINGW64 /c/git/mytest ((886a3fe...))
$ mkdir c:/gitproject

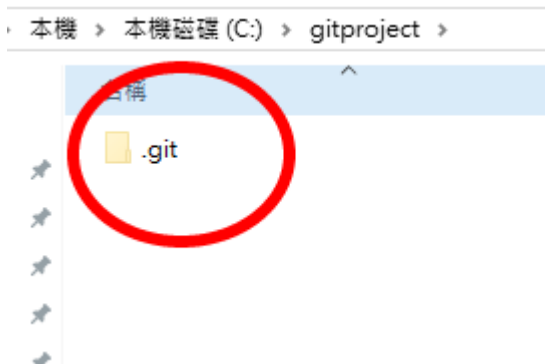
Richie@DESKTOP-4IDC14U MINGW64 /c/git/mytest ((886a3fe...))
$ cd c:/gitproject

Richie@DESKTOP-4IDC14U MINGW64 /c/gitproject
$ ls

Richie@DESKTOP-4IDC14U MINGW64 /c/gitproject
$ git init
Initialized empty Git repository in C:/gitproject/.git/

Richie@DESKTOP-4IDC14U MINGW64 /c/gitproject (master)
$ |
```

對照資料匣可以發現多一個檔案(隱藏檔)



新增一個檔案 以git status 指令發現並沒有加入數據庫

```
Richie@DESKTOP-4IDC14U MINGW64 /c/gitproject (master)
$ touch index1.html

Richie@DESKTOP-4IDC14U MINGW64 /c/gitproject (master)
$ git status
On branch master

No commits yet

Untracked files:
  (use "git add <file>..." to include in what will be committed)

        index1.html

nothing added to commit but untracked files present (use "git add" to track)

Richie@DESKTOP-4IDC14U MINGW64 /c/gitproject (master)
$ |
```

利用 git add . 加入到git 數據庫

```
MINGW64:/c/gitproject

index1.html

nothing added to commit but untracked files present (use "git add" to track)

Richie@DESKTOP-4IDC14U MINGW64 /c/gitproject (master)
$ git add .

Richie@DESKTOP-4IDC14U MINGW64 /c/gitproject (master)
$ git status
On branch master

No commits yet

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)

        new file:   index1.html

Richie@DESKTOP-4IDC14U MINGW64 /c/gitproject (master)
$
```

使用 `git commit -m 'update index1.html'` 增加註解說明

```
MINGW64:/c/gitproject

Richie@DESKTOP-4IDC14U MINGW64 /c/gitproject (master)
$ git add .

Richie@DESKTOP-4IDC14U MINGW64 /c/gitproject (master)
$ git status
On branch master

No commits yet

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)

        new file:   index1.html

Richie@DESKTOP-4IDC14U MINGW64 /c/gitproject (master)
$ git commit -m 'uodate index1.html'
[master (root-commit) 78ec00d] uodate index1.html
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 index1.html

Richie@DESKTOP-4IDC14U MINGW64 /c/gitproject (master)
$
```

`git log` 觀察更新紀錄

```

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)

        new file:   index1.html

Richie@DESKTOP-4IDC14U MINGW64 /c/gitproject (master)
$ git commit -m 'uodate index1.html'
[master (root-commit) 78ec00d] uodate index1.html
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 index1.html

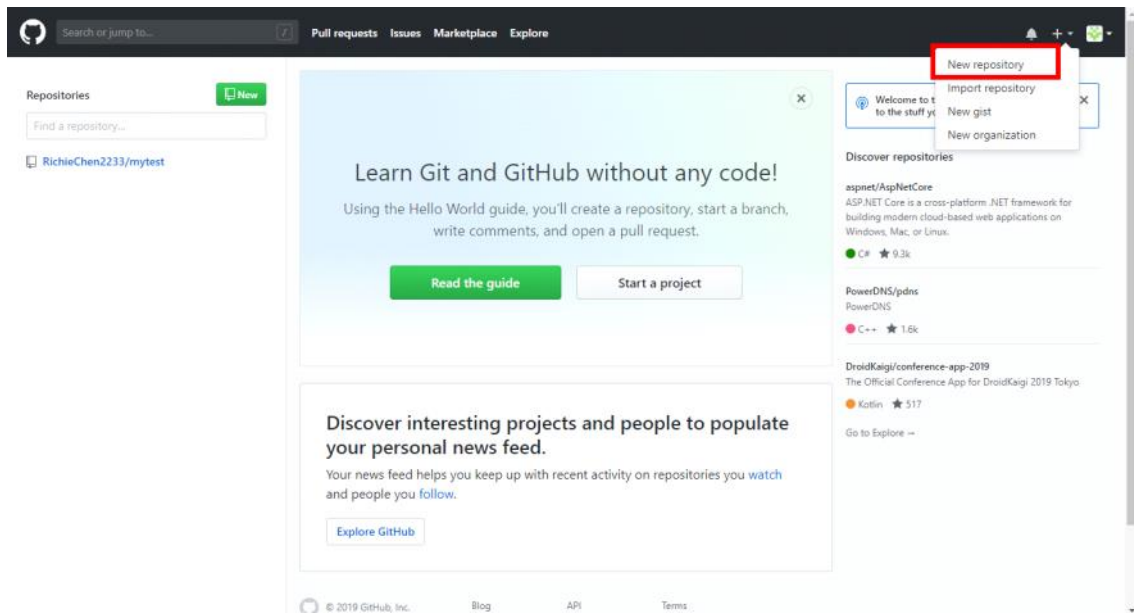
Richie@DESKTOP-4IDC14U MINGW64 /c/gitproject (master)
$ git log
commit 78ec00db141af0e85cc6c02b3ee194bf533f4cf2 (HEAD -> master)
Author: minghong <minghong2233@gmail.com>
Date:   Fri Feb 1 11:01:52 2019 +0800

    uodate index1.html

Richie@DESKTOP-4IDC14U MINGW64 /c/gitproject (master)
$ |

```

4. 上傳至 github.com 新增一個數據庫



Search or jump to... Pull requests Issues Marketplace Explore

Create a new repository

A repository contains all the files for your project, including the revision history.

Owner: RichieChen2233 / Repository name: gitproject

Great repository names are short and memorable. Need inspiration? How about reimagined-doodle.

Description (optional)

☒ Public
Anyone can see this repository. You choose who can commit.

☐ Private
You choose who can see and commit to this repository.

☒ Initialize this repository with a README
This will let you immediately clone the repository to your computer. Skip this step if you're importing an existing repository.

Add .gitignore: None Add a license: None

Create repository

複製數據庫至本地端

RichieChen2233 / gitproject

Unwatch 1 Star 0 Fork 0

Code Issues 0 Pull requests 0 Projects 0 Wiki Insights Settings

Quick setup — if you've done this kind of thing before

Set up in Desktop or HTTPS SSH `https://github.com/RichieChen2233/gitproject.git`

Get started by [creating a new file](#) or [uploading an existing file](#). We recommend every repository include a [README](#), [LICENSE](#), and [.gitignore](#).

...or create a new repository on the command line

```
echo "# gitproject" >> README.md
git init
git add README.md
git commit -m "first commit"
git remote add origin https://github.com/RichieChen2233/gitproject.git
git push -u origin master
```

...or push an existing repository from the command line

```
git remote add origin https://github.com/RichieChen2233/gitproject.git
git push -u origin master
```

...or import code from another repository

```
MINGW64/c/gitproject

Richie@DESKTOP-4IDC14U MINGW64 /c/gitproject (master)
$ git commit -m 'uodate index1.html'
[master (root-commit) 78ec00d] uodate index1.html
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 index1.html

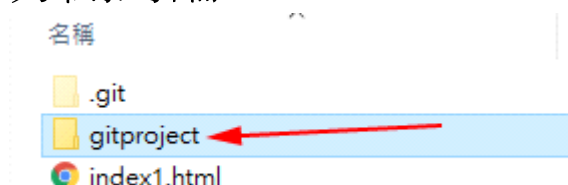
Richie@DESKTOP-4IDC14U MINGW64 /c/gitproject (master)
$ git log
commit 78ec00db141af0e85cc6c02b3ee194bf533f4cf2 (HEAD -> master)
Author: minghong <minghong2233@gmail.com>
Date:   Fri Feb 1 11:01:52 2019 +0800

    uodate index1.html

Richie@DESKTOP-4IDC14U MINGW64 /c/gitproject (master)
$ git clone https://github.com/RichieChen2233/gitproject.git
Cloning into 'gitproject'...
warning: You appear to have cloned an empty repository.

Richie@DESKTOP-4IDC14U MINGW64 /c/gitproject (master)
$
```

在本地端資料匣會發現相對應的檔案
此專案跟原本的上述練習是不一樣的數據庫必須
分開討論



新增檔案並將檔案同步到github

```
MINGW64/c/gitproject/gitproject

warning: You appear to have cloned an empty repository.

Richie@DESKTOP-4IDC14U MINGW64 /c/gitproject (master)
$ ls
gitproject/  index1.html

Richie@DESKTOP-4IDC14U MINGW64 /c/gitproject (master)
$ cd gitproject/

Richie@DESKTOP-4IDC14U MINGW64 /c/gitproject/gitproject (master)
$ touch index002.html

Richie@DESKTOP-4IDC14U MINGW64 /c/gitproject/gitproject (master)
$ git status
On branch master

No commits yet

Untracked files:
  (use "git add <file>..." to include in what will be committed)

    index002.html

nothing added to commit but untracked files present (use "git add" to t
rack)

Richie@DESKTOP-4IDC14U MINGW64 /c/gitproject/gitproject (master)
$
```



```

Richie@DESKTOP-4IDC14U MINGW64 /c/gitproject/gitproject (master)
$ touch index002.html

Richie@DESKTOP-4IDC14U MINGW64 /c/gitproject/gitproject (master)
$ git status
On branch master

No commits yet

Untracked files:
  (use "git add <file>..." to include in what will be committed)

        index002.html

nothing added to commit but untracked files present (use "git add" to t
rack)

Richie@DESKTOP-4IDC14U MINGW64 /c/gitproject/gitproject (master)
$ git add .

Richie@DESKTOP-4IDC14U MINGW64 /c/gitproject/gitproject (master)
$ git commit -m 'update index002.html'
[master (root-commit) e555731] update index002.html
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 index002.html

Richie@DESKTOP-4IDC14U MINGW64 /c/gitproject/gitproject (master)
$

```

```

MINGW64/c/gitproject/gitproject
Untracked files:
  (use "git add <file>..." to include in what will be committed)

        index002.html

nothing added to commit but untracked files present (use "git add" to t
rack)

Richie@DESKTOP-4IDC14U MINGW64 /c/gitproject/gitproject (master)
$ git add .

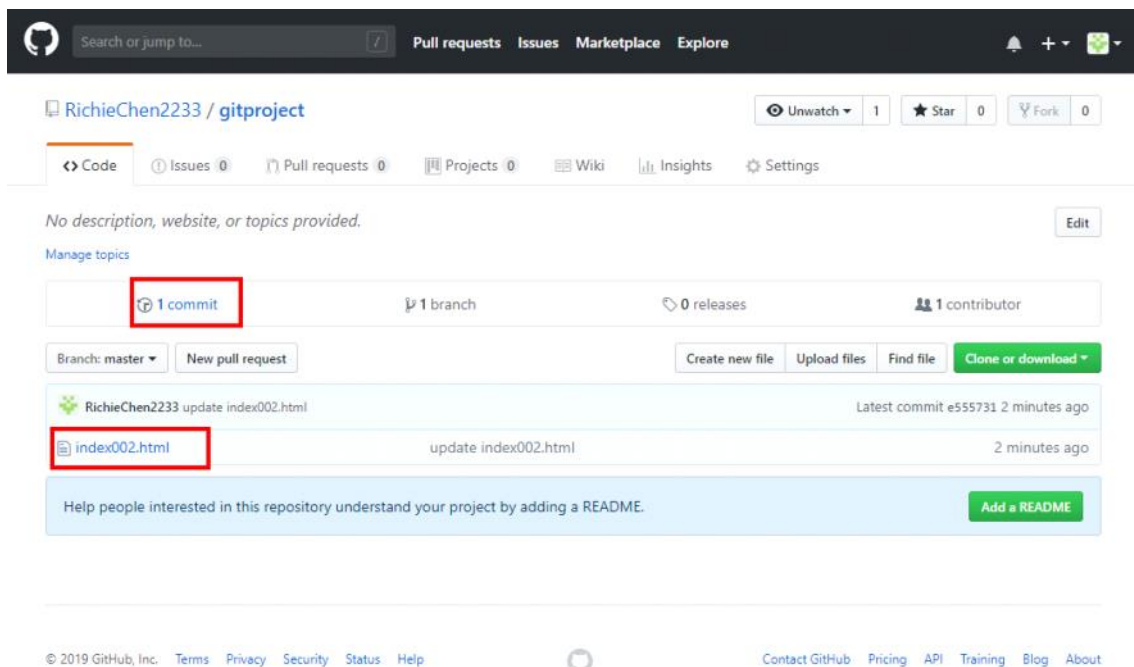
Richie@DESKTOP-4IDC14U MINGW64 /c/gitproject/gitproject (master)
$ git commit -m 'update index002.html'
[master (root-commit) e555731] update index002.html
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 index002.html

Richie@DESKTOP-4IDC14U MINGW64 /c/gitproject/gitproject (master)
$ git push
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Writing objects: 100% (3/3), 220 bytes | 73.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0)
To https://github.com/RichieChen2233/gitproject.git
 * [new branch]      master -> master

Richie@DESKTOP-4IDC14U MINGW64 /c/gitproject/gitproject (master)
$

```

從github可以發現同步成功



在測試更新另一個檔案(修改index002.html)
從status 可發現檔案被修改但沒未加入commit

```
github.com/RichieChen2233/gitproject/commits/master

MINGW64/c/gitproject/gitproject
Richie@DESKTOP-4IDC14U MINGW64 /c/gitproject/gitproject (master)
$ git push
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Writing objects: 100% (3/3), 220 bytes | 73.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0)
To https://github.com/RichieChen2233/gitproject.git
 * [new branch]      master -> master

Richie@DESKTOP-4IDC14U MINGW64 /c/gitproject/gitproject (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 checkout -- <file>..." to discard changes in working directory)

        modified:   index002.html

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

Richie@DESKTOP-4IDC14U MINGW64 /c/gitproject/gitproject (master)
$ git add .

Richie@DESKTOP-4IDC14U MINGW64 /c/gitproject/gitproject (master)
$
```

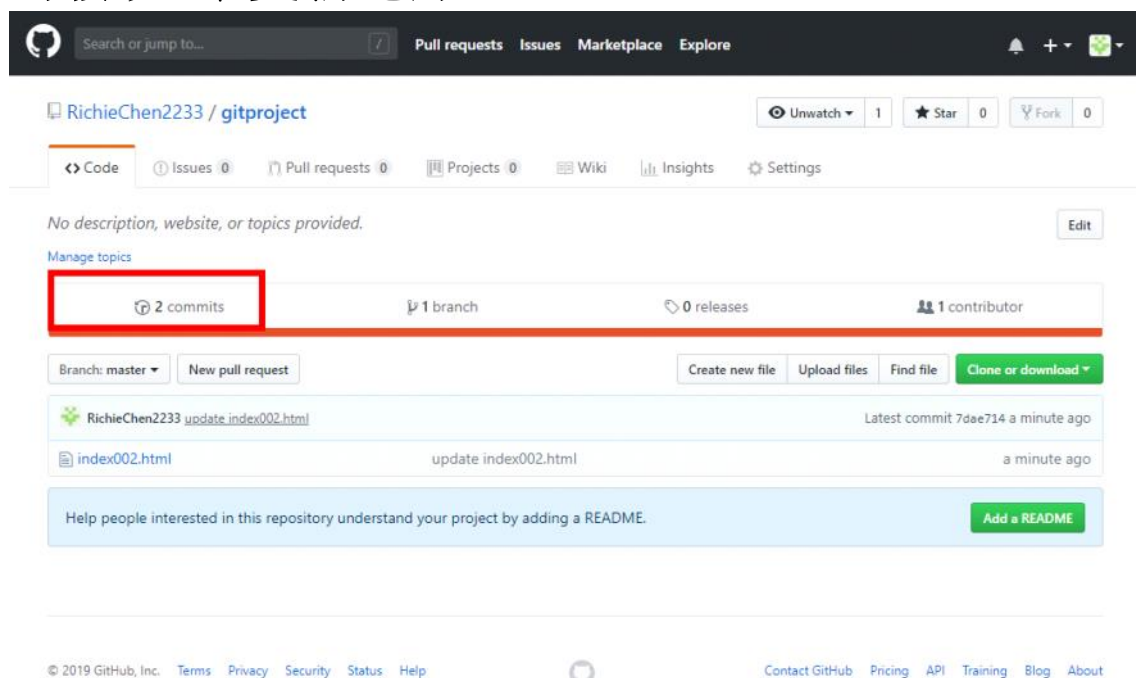
加入 commit 並發布到github


```
MINGW64/c/gitproject/gitproject
(use "git checkout -- <file>..." to discard changes in working directory)

        modified:   index002.html

no changes added to commit (use "git add" and/or "git commit -a")
Richie@DESKTOP-4IDC14U MINGW64 /c/gitproject/gitproject (master)
$ git add .
Richie@DESKTOP-4IDC14U MINGW64 /c/gitproject/gitproject (master)
$ git commit -m 'update index002.html'
[master 7dae714] update index002.html
1 file changed, 10 insertions(+)
Richie@DESKTOP-4IDC14U MINGW64 /c/gitproject/gitproject (master)
$ git push
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 8 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 345 bytes | 345.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0)
To https://github.com/RichieChen2233/gitproject.git
e555731..7dae714  master -> master
Richie@DESKTOP-4IDC14U MINGW64 /c/gitproject/gitproject (master)
$
```

可發現2筆更新紀錄



5. 常用指令 基礎設定

查詢版本
git version

查詢設定列表
git config --list

輸入姓名

```
git config --global user.name "你的名字"
```

輸入email

```
git config --global user.email "你的email"
```

新增本地/遠端數據庫

在本地資料夾新增數據庫

```
git init
```

複製遠端數據庫

```
git clone 遠端數據庫網址
```

增加/刪除檔案

增加檔案進入索引

```
git add 檔案名稱
```

增加全部檔案進入索引

```
git add .
```

查詢狀態

```
git status
```

顯示歷史紀錄

```
git log
```

將索引提交到數據庫

```
git commit -m '更新訊息'
```

還原指令

還原工作目錄與索引，會跟最後一次 commit 保持一樣

```
git reset --hard
```

全部檔案取消索引

```
git reset HEAD
```

單一檔案取消索引

```
git reset HEAD 檔案名稱
```

恢復單一檔案到最新 commit 狀態

```
git checkout 檔案名稱
```

刪除最近一次 commit

```
git reset --hard "HEAD^"
```

上面語法如果刪除錯了可以再用此語法還原

```
git reset --hard ORIG_HEAD
```

刪除最近一次 commit，但保留異動內容

git reset --soft "HEAD^"

commit 後發現有幾個檔案忘了加入進去，想要補內容進去時
git commit --amend

分支

顯示所有本地分支

git branch

新增分支

git branch 分支名稱

切換分支

git checkout 分支名稱

合併指定分支到目前的分支

git merge 分支名稱

刪除分支

git branch -d 分支名稱

遠端數據庫操作

複製遠端數據庫

git clone 遠端數據庫網址

查詢遠端數據庫

git remote

將本地分支推送到遠端分支

git push 遠端數據庫名稱 遠端分支名稱

將遠端分支拉下來與本地分支進行合併

git pull

標籤

查詢標籤

git tag

查詢詳細標籤

git tag -n

刪除標籤

git tag -d 標籤名稱

新增輕量標籤

git tag 標籤名稱

新增標示標籤

git tag -am "備註內容" 標籤名稱

暫存

暫時儲存當前目錄

git stash

瀏覽 stash 列表

git stash list

還原暫存

git stash pop

清除最新暫存

git stash drop

清除全部暫存

git stash clear