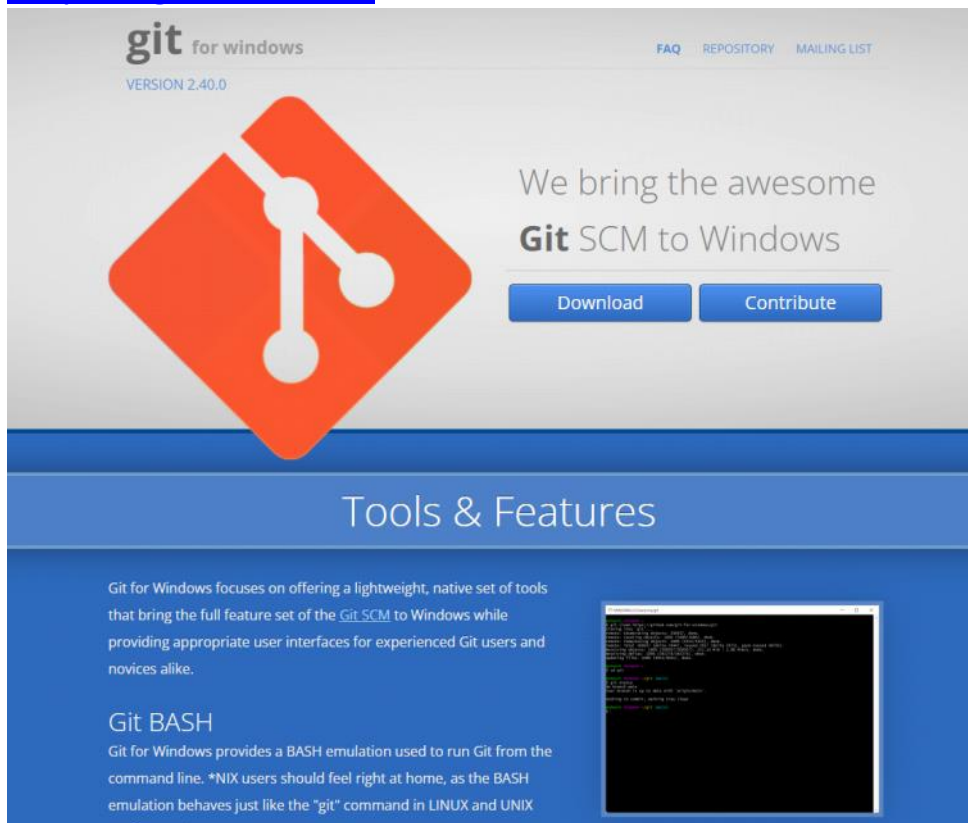


Git 是一種分散式版本控制系統。

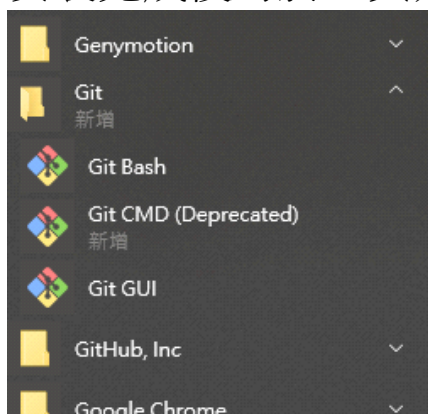
1. 安裝git與申請github帳號

<https://gitforwindows.org/>

<https://github.com/>



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

```
MINGW64/c/git/mytest
Richie@DESKTOP-4IDC14U MINGW64 /c/git/mytest ((886a3fe...))
$ git version
git version 2.20.1.windows.1
Richie@DESKTOP-4IDC14U MINGW64 /c/git/mytest ((886a3fe...))
$ |
```

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 . 加入倒git 數據庫

```

index1.html

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

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

```

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

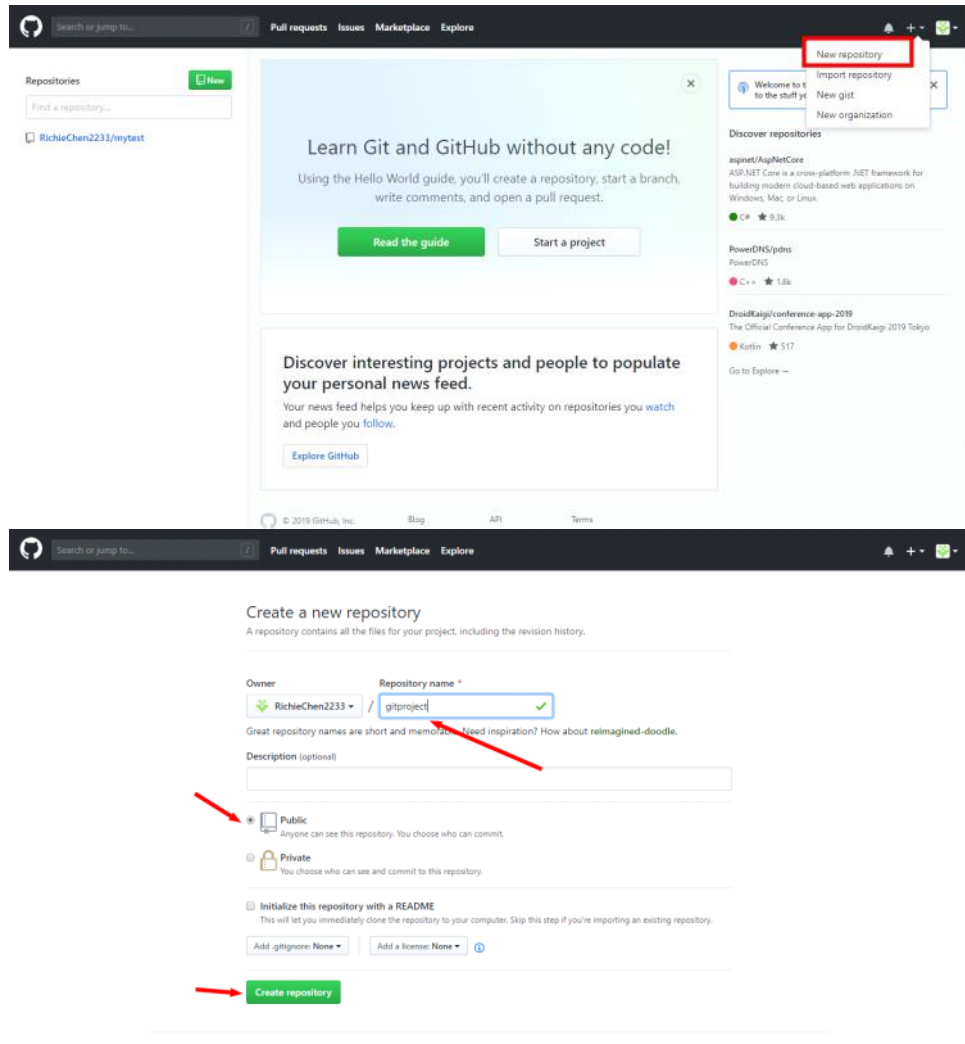
    uodate index1.html

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

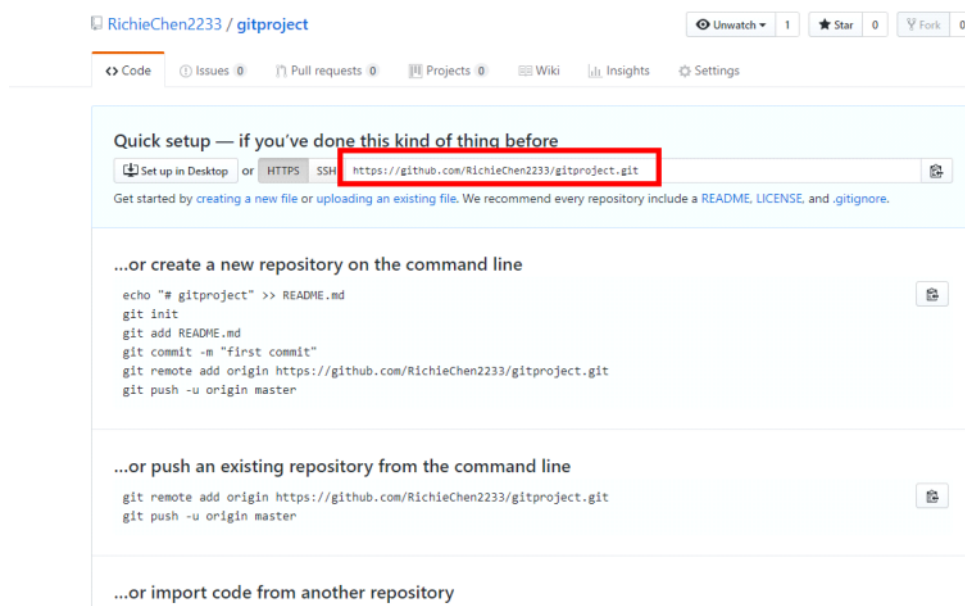
```

4. 上傳至 github.com

新增一個數據庫



複製數據庫至本地端



```
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

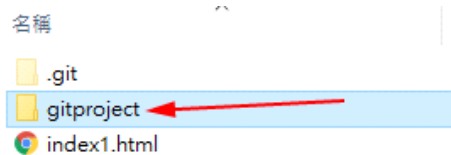
Richie@DESKTOP-4IDC14U MINGW64 /c/gitproject (master)
$ git log
commit 78ec00db141af0e85cc6c02b3ee194bf533f4cf2 (HEAD -> master)
Author: minghong <minghong2233@gmail.com>
Date: Fri Feb 1 11:01:52 2019 +0800

    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 track)

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 track)

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

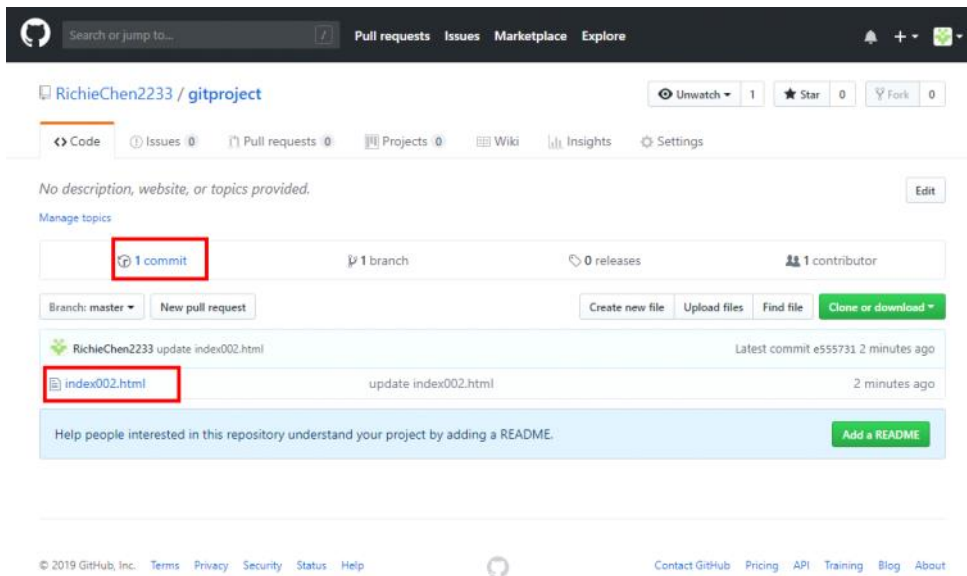
Richie@DESKTOP-4IDC14U MINGW64 /c/gitproject/gitproject (master)
$ git commit -m 'update index002.html'
[master (root-commit) e555731] update index002.html
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 index002.html

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

```
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)
$ |
```

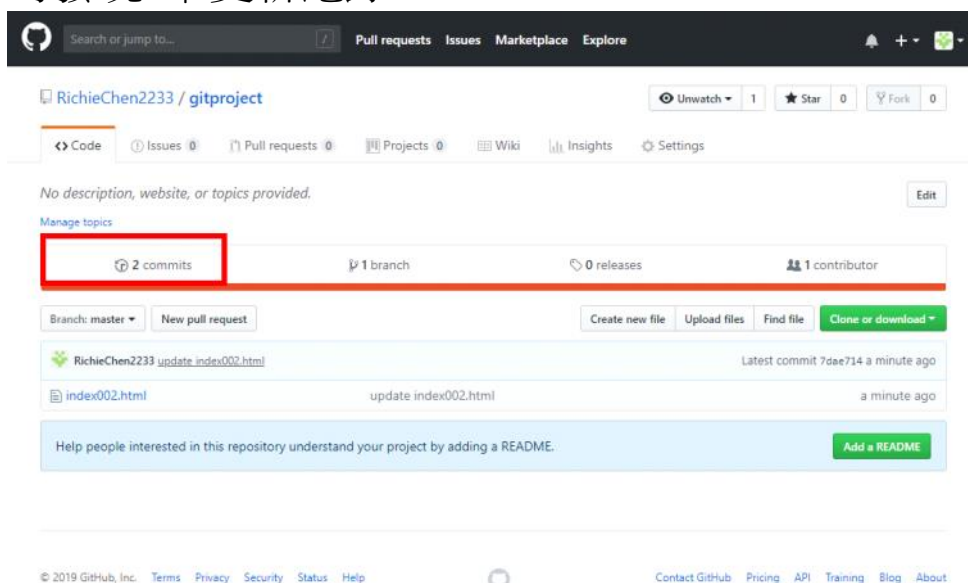
加入 commit 並發布到github

```
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. GitHub Pages

Changing project visibility

1. Navigate to your project.
2. In the top-right, click to open the menu.
3. In the menu, click Settings to access the project settings.
4. Next to Visibility in the "Danger zone", select Private or Public.

來自 <https://www.google.com/search?q=github+private+to+public&rlz=1C1CHZN_zh-twTW1038TW1038&oq=github+pr&aqs=chrome.1.69i57j69i59j0i512l4j69i60l2.8501j0j7>

[&sourceid=chrome&ie=UTF-8>](#)

Danger Zone

Change repository visibility
This repository is currently public.

Change visibility

Change to private

Transfer ownership
Transfer this repository to another user or to an organization where you have the ability to create repositories.

Transfer

Archive this repository
Mark this repository as archived and read-only.

Archive this repository

Delete this repository
Once you delete a repository, there is no going back. Please be certain.

Delete this repository

<> Code

Issues

Pull requests

Actions

Projects

Wiki

Security

Insights

Settings

General

Access

Collaborators

Moderation options

Code and automation

Branches

Tags

Actions

Webhooks

Environments

Codespaces

Pages

Security

Code security and analysis

Deploy keys

Secrets and variables

General

Repository name
maskMap

Rename

☐ **Template repository**
Template repositories let users generate new repositories with the same directory structure and files. [Learn more.](#)

☐ **Require contributors to sign off on web-based commits**
Enabling this setting will require contributors to sign off on commits made through GitHub's web interface. Signing off is a way for contributors to affirm that their commit complies with the repository's terms, commonly the [Developer Certificate of Origin \(DCO\)](#). [Learn more about signing off on commits.](#)

Social Preview

Upload an image to customize your repository's social media preview.
Images should be at least 640×320px (1280×640px for best display).
[Download template](#)

<> Code

Issues

Pull requests

Actions

Projects

Wiki

Security

Insights

Settings

General

Access

Collaborators

Moderation options

Code and automation

Branches

Tags

Actions

Webhooks

Environments

Codespaces

Pages

Security

Code security and analysis

Deploy keys

Secrets and variables

Integrations

GitHub apps

GitHub Pages

GitHub Pages is designed to host your personal, organization, or project pages from a GitHub repository.

Your site is live at <https://richiechen222333.github.io/maskMap/>
Last deployed by [RichieChen222333](#) 6 minutes ago

Visit site

...

Build and deployment

Source

Deploy from a branch

Branch
Your GitHub Pages site is currently being built from the main branch. [Learn more.](#)

main

/ (root)

Save

[Learn how to add a Jekyll theme to your site.](#)

Custom domain

Custom domain

Custom domains allow you to serve your site from a domain other than richiechen222333.github.io. [Learn more.](#)

Save

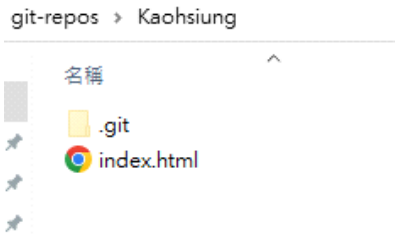
Remove

<https://richiechen222333.github.io/maskMap/>

git 第 9 頁

6. 專案例子

創建資料夾



- (1) `git init` (初始化)
- (2) `code .` (呼叫vscode開啟專案)
- (3) 撰寫專案程式
- (4) `git add .` (將程式加入git資料庫)
- (5) `git commit -m "註解... 修改背景圖"`
- (6) `git status`
- (7) github創新一樣名稱的專案並參考上傳的指令

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

```
echo "# XXXXXX" >> README.md
git init
git add README.md
git commit -m "first commit"
git branch -M main
git remote add origin https://github.com/RichieChen222333/XXXXXX.git
git push -u origin main
```

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

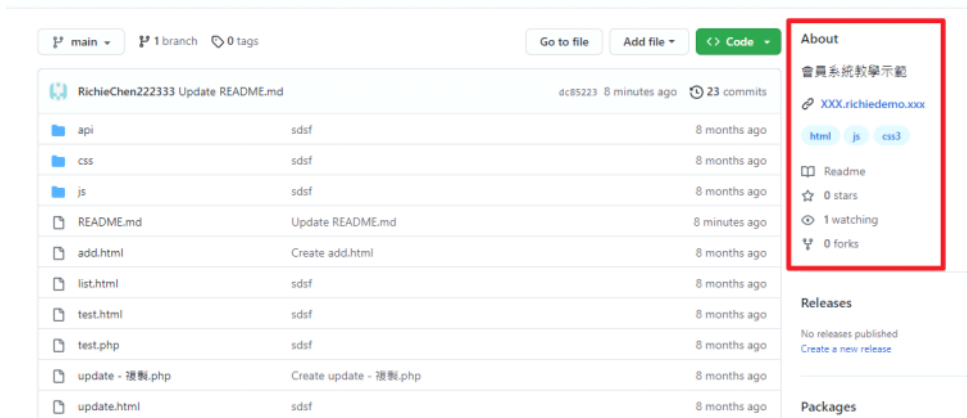
```
git remote add origin https://github.com/RichieChen222333/XXXXXX.git
git branch -M main
git push -u origin main
```

- (8) 將repository設定GitHub Pages
- (9) <https://richiechen222333.github.io/Kaohsiung/>

7. README.md撰寫

附檔名的.md其實就是markdown的縮寫

<https://zh.wikipedia.org/zh-tw/Markdown>



8. 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

