

# 計算機概論A班 實習課

W1



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# 課程規劃

<b>9/12</b>	1.介紹課程 2.準備課程環境
<b>9/26</b>	1.Linux背景知識 2.Linux基本指令實作
<b>10/10</b>	(雙十節停課一次)
<b>10/24</b>	1.Linux背景知識 2.Linux基本指令實作

<b>11/7</b>	1.Regex 2.Linux-grep 3.Linux文字處理工具
<b>11/21</b>	1.Linux-awk 2.Linux-sed 3.Virtual Machine
<b>12/5</b>	1.Git版本控制(個人)
<b>12/19</b>	1.Git團隊協作 2.Github功能補充

# 配分

正 課 80%

實習課20%



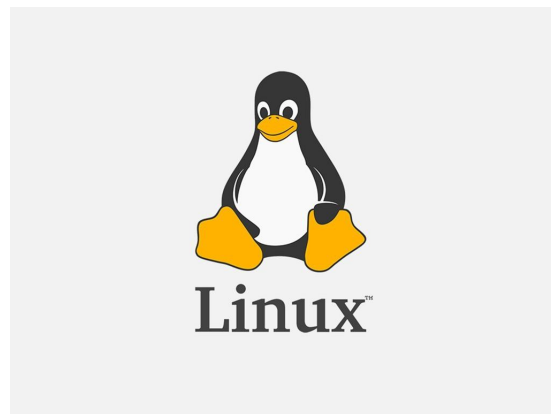
點 名 10%

作 業 90%(五次作業)

課堂加分

# 討論

為什麼要學 Git & Linux ?

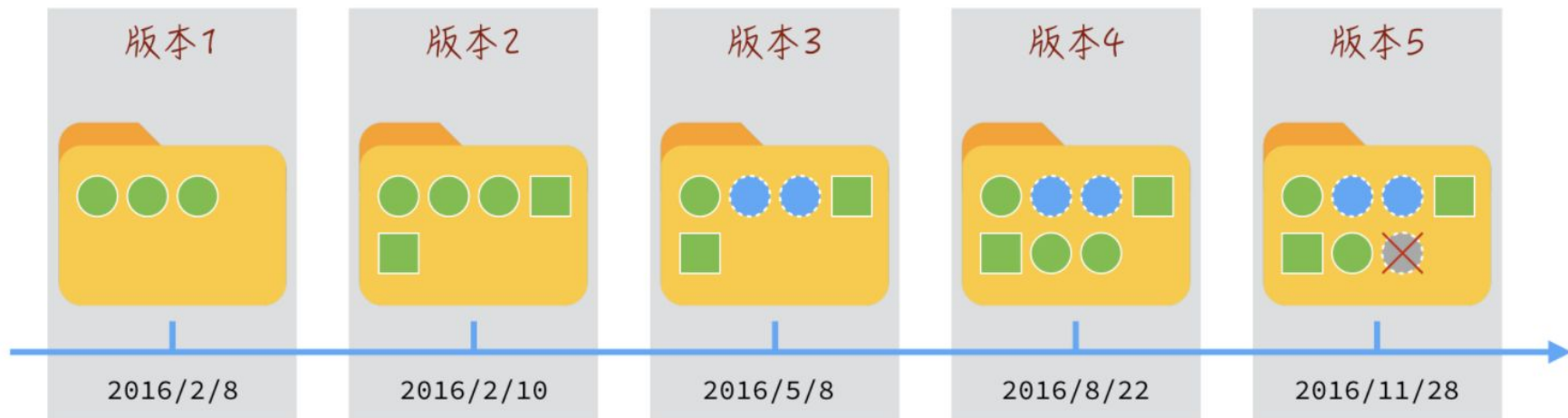


# 什麼是 Git？(1/2)

1. 免費、開源專案管理工具
2. 記錄版本更動情形
3. 分散式系統

# 什麼是 Git ? (2/2)

## 版本控制



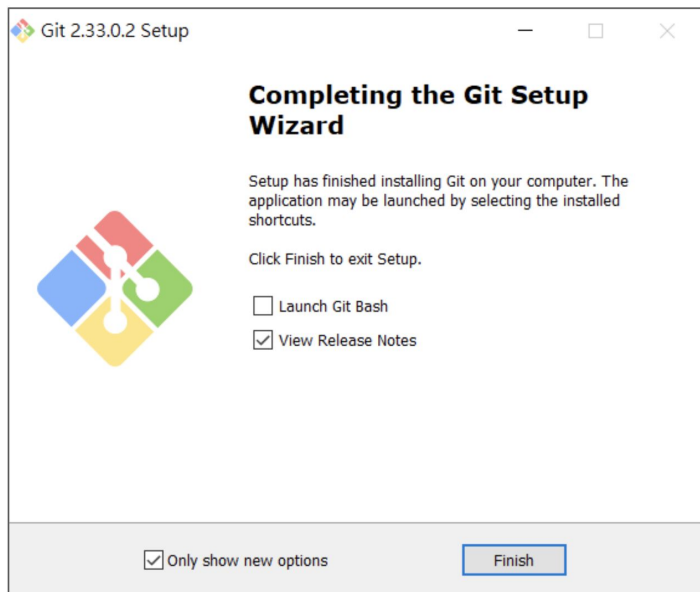
# 什麼是 Linux

1. 免費、開源的作業系統
2. 提供所有最基本的功能，像是鍵盤輸入、螢幕輸出、硬體管理等
3. 相對輕量的系統，常用來處理巨量資料
4. 雲端部署時常使用



# Windows 安裝 Git (1/2)

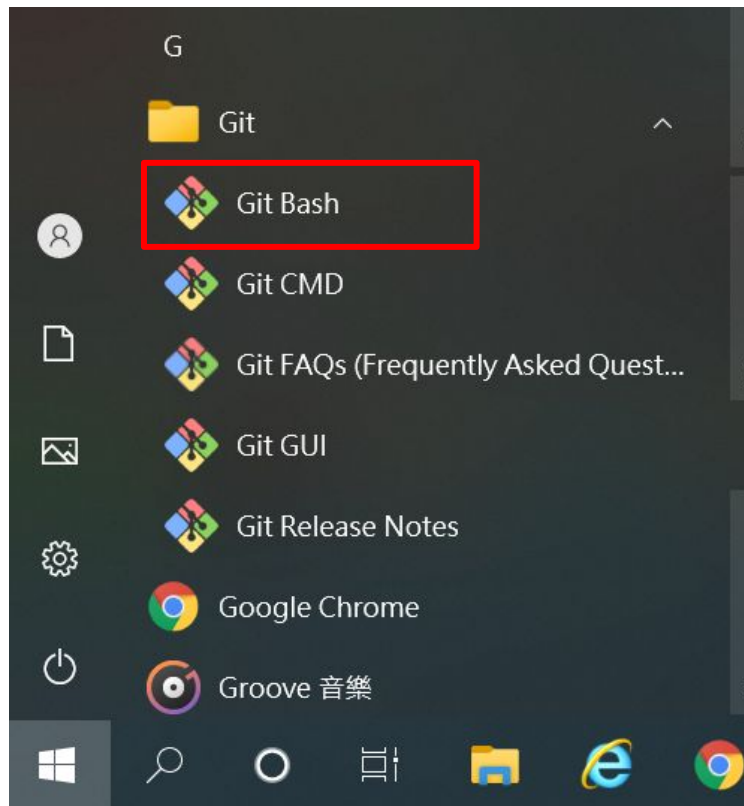
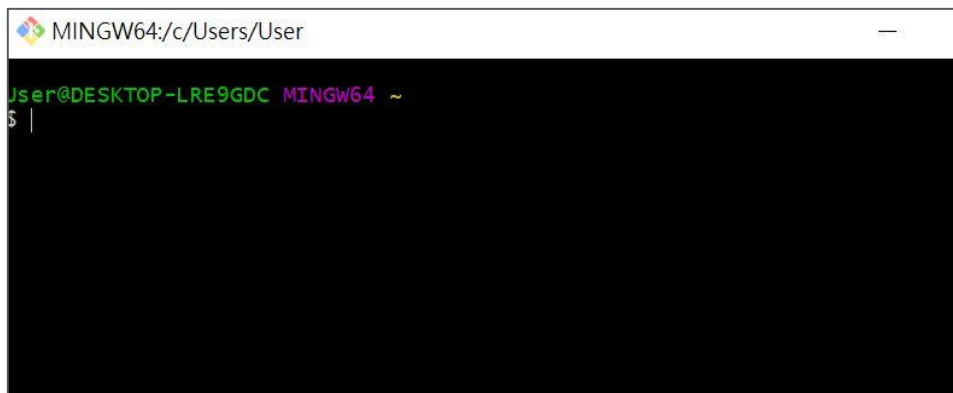
1. 官網: <https://git-scm.com/downloads>
2. 選擇好版本後, 一路按下一部到底



▲ Git Bash安裝完成畫面

# Windows 安裝 Git (2/2)

## 3. 開啟git bash



# 準備Linux & Git 環境

1. Mac 請打開 **terminal**

Windows 請打開 **Git Bash**

2. 查看git安裝位置: `which git`

3. 查看git版本: `git --version`

A screenshot of a Mac terminal window. The title bar shows 'czw - zsh - 80x24'. The terminal text shows the user logging in on Sep 12, then running 'which git' which returns '/usr/bin/git', and 'git --version' which returns 'git version 2.30.1 (Apple Git-130)'.

```
czw — zsh — 80x24
Last login: Mon Sep 12 15:49:47 on ttys000
(base) czw@czwangs-mbp ~ % which git
/usr/bin/git
(base) czw@czwangs-mbp ~ % git --version
git version 2.30.1 (Apple Git-130)
(base) czw@czwangs-mbp ~ %
```

▲ mac 確認git位置及版本

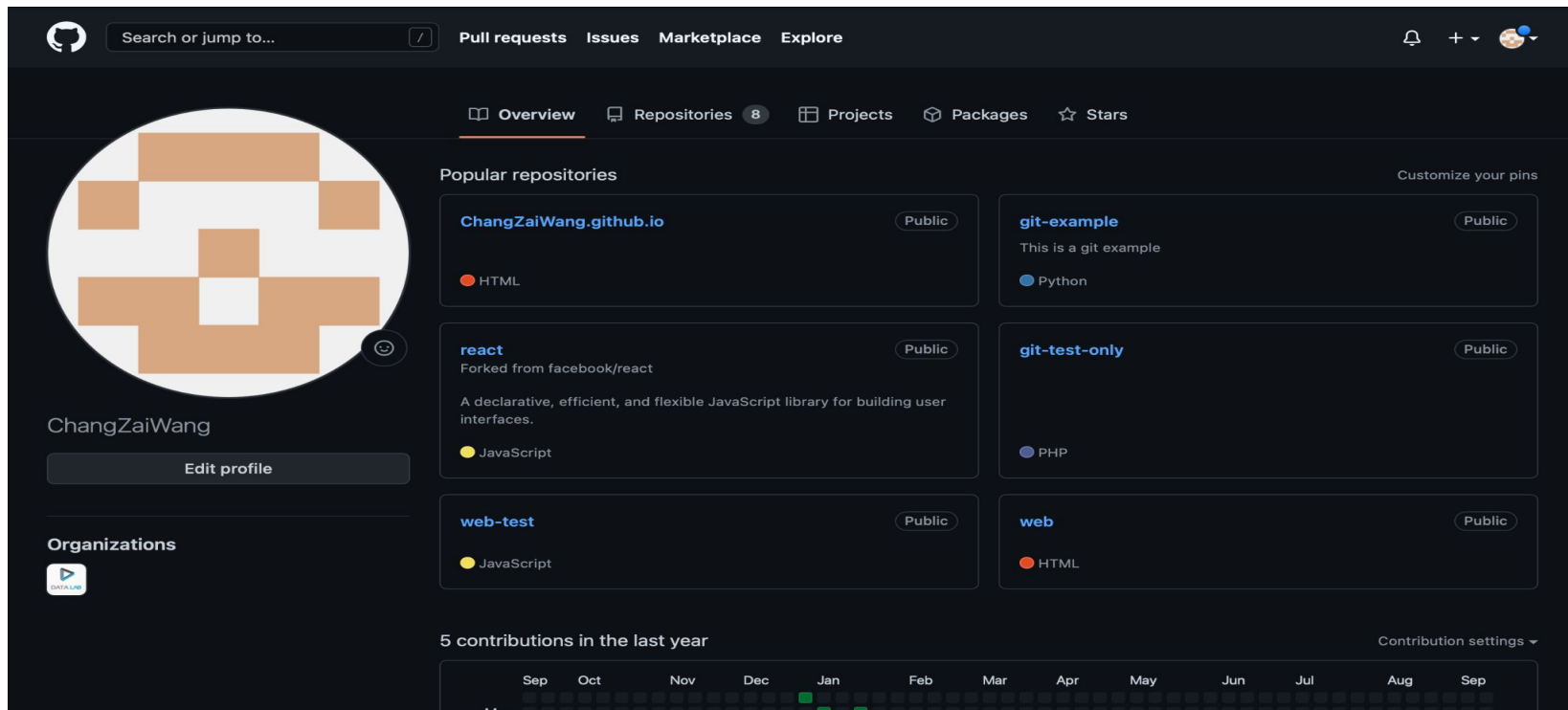
A screenshot of a Windows Git Bash terminal window. The title bar shows 'MINGW64:/c/Users/User'. The terminal text shows the user running 'which git' which returns '/mingw64/bin/git', and 'git --version' which returns 'git version 2.28.0.windows.1'.

```
MINGW64:/c/Users/User
User@DESKTOP-LRE9GDC MINGW64 ~
$ which git
/mingw64/bin/git
User@DESKTOP-LRE9GDC MINGW64 ~
$ git --version
git version 2.28.0.windows.1
```

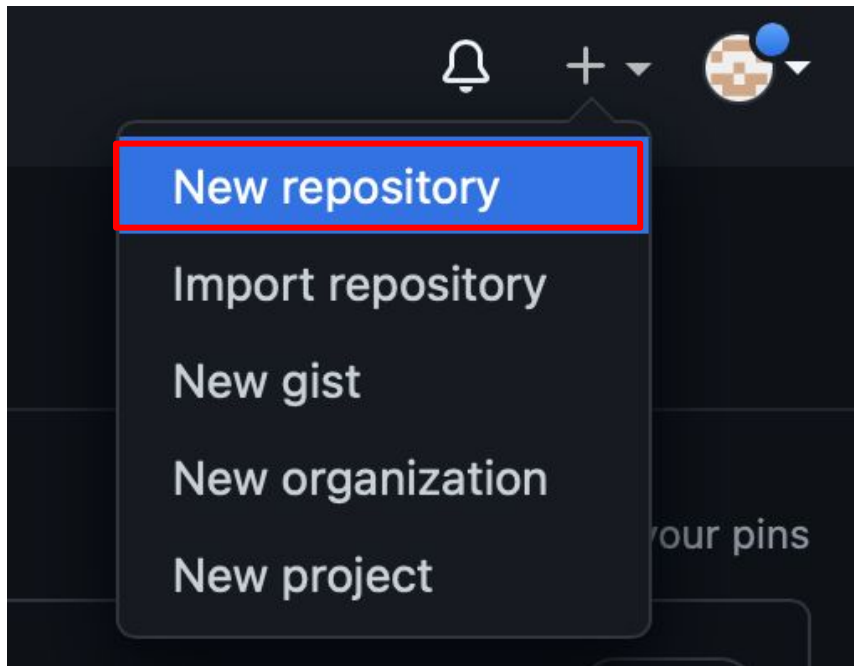
▲ git bash 確認git位置及版本

# 註冊 Github 帳號

1. 網址: <https://github.com/>



# 建立 Repository



## Create a new repository

A repository contains all project files, including the revision history. Already have a project repository elsewhere? [Import a repository.](#)

---

**Owner \*** ChangZaiWang / **Repository name \*** 111\_1\_CS ✓

Great repository names are short and memorable. Need inspiration? How about [turbo-parakeet?](#)

**Description (optional)**

---

☐ **Public**  
Anyone on the internet can see this repository. You choose who can commit.

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

---

**Initialize this repository with:**  
Skip this step if you're importing an existing repository.

☒ **Add a README file**  
This is where you can write a long description for your project. [Learn more.](#)

**Add .gitignore**  
Choose which files not to track from a list of templates. [Learn more.](#)  
**.gitignore template:** None

**Choose a license**  
A license tells others what they can and can't do with your code. [Learn more.](#)  
**License:** None

This will set `main` as the default branch. Change the default name in your [settings](#).

ⓘ You are creating a private repository in your personal account.

[Create repository](#)

# 複製 Repository 網址

ChangZaiWang / 111\_1\_CS Private

Unwatch 1 Fork 0 Star 0

Code Issues Pull requests Actions Projects Security Insights Settings

main 1 branch 0 tags

Go to file Add file Code

ChangZaiWang Initial commit

README.md Initial commit

README.md

111\_1\_CS

Clone

HTTPS SSH GitHub CLI

git@github.com:ChangZaiWang/111\_1\_CS.

Use a password-protected SSH key.

Open with GitHub Desktop

Download ZIP

About

No description, website, or topics provided.

Readme

0 stars

1 watching

0 forks

Releases

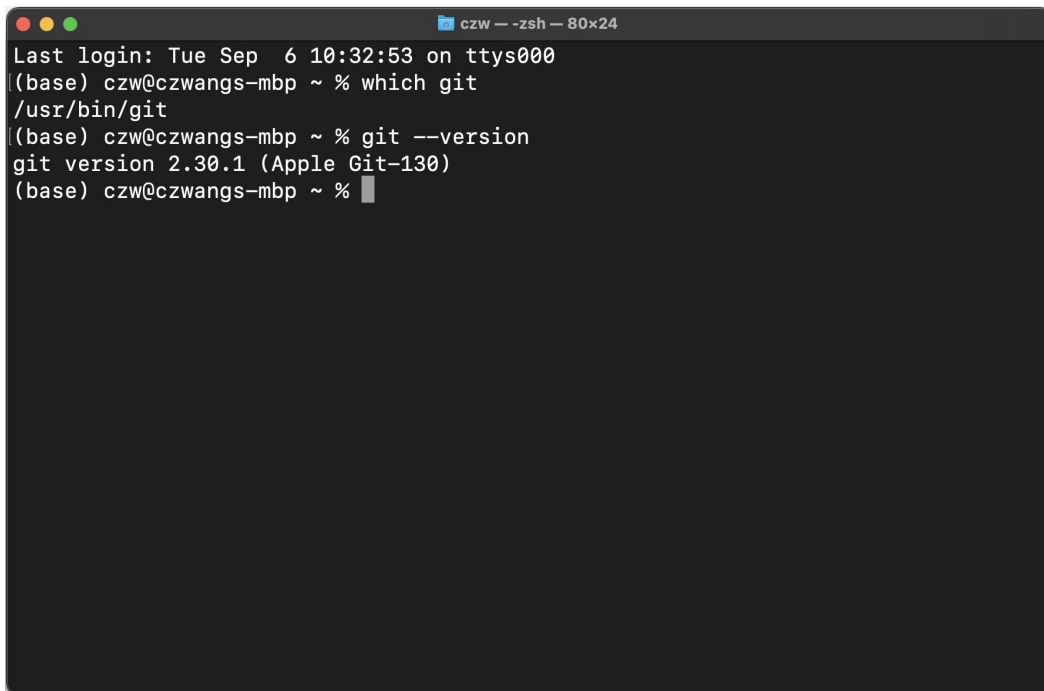
No releases published

Create a new release

# 作業範例

1. `git@github.com:ChangZaiWang/111_1_CS.git`

2.

A terminal window titled 'cZW - zsh - 80x24' with standard macOS window controls (red, yellow, green buttons). The terminal shows the following text:

```
Last login: Tue Sep  6 10:32:53 on ttys000
(base) cZW@czwangs-mbp ~ % which git
/usr/bin/git
(base) cZW@czwangs-mbp ~ % git --version
git version 2.30.1 (Apple Git-130)
(base) cZW@czwangs-mbp ~ %
```

