

人工智慧

Github 使用教學

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Github 說明

GitHub是透過Git進行版本控制的軟體原始碼代管服務平台，由GitHub公司（曾稱Logical Awesome）的開發者Chris Wanstrath、PJ Hyett和Tom Preston-Werner使用Ruby on Rails編寫而成。

GitHub同時提供付費帳戶和免費帳戶。這兩種帳戶都可以建立公開或私有的程式碼倉庫，但付費用戶支援更多功能。根據在2009年的Git用戶調查，GitHub是最流行的Git存取站點。^[3]除了允許個人和組織建立和存取保管中的程式碼以外，它也提供了一些方便社會化共同軟體開發的功能，即一般人口中的社群功能，包括允許用戶追蹤其他用戶、組織、軟體庫的動態，對軟體程式碼的改動和bug提出評論等。GitHub也提供了圖表功能，用於概觀顯示開發者們怎樣在程式碼庫上工作以及軟體的開發活躍程度。

截止到2015年，GitHub已經有超過兩千八百萬註冊用戶^[4]和5700萬程式碼庫。^[5]事實上已經成為了世界上最大的程式碼存放網站和開源社群。^[6]

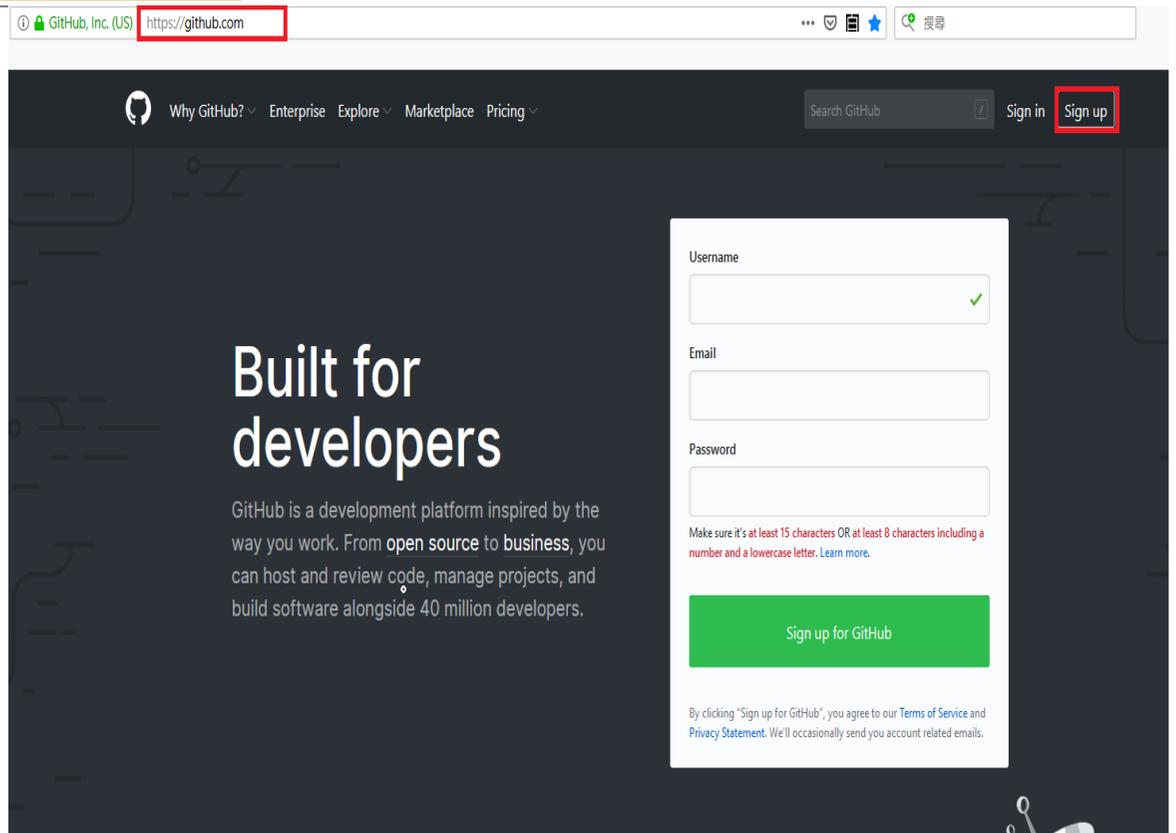
2018年6月4日晚上，美國科技公司微軟宣布以75億美元的股票收購GitHub^{[7][8][9]}。

註冊Github(remote)帳號

<https://github.com/>

Step1:輸入網址<https://github.com/>

Step2:點選 **Sign up**



The screenshot shows the GitHub website's sign-up page. The browser's address bar at the top contains the URL <https://github.com/>, which is highlighted with a red box. In the top right corner of the page, the "Sign up" button is also highlighted with a red box. The main content area features the heading "Built for developers" and a sign-up form with the following fields:

- Username:** A text input field with a green checkmark icon to its right, indicating it is valid.
- Email:** A text input field.
- Password:** A text input field.

Below the password field, there is a note: "Make sure it's at least 15 characters OR at least 8 characters including a number and a lowercase letter. [Learn more.](#)"

A large green button labeled "Sign up for GitHub" is positioned below the form fields. At the bottom of the form, there is a small disclaimer: "By clicking 'Sign up for GitHub', you agree to our [Terms of Service](#) and [Privacy Statement](#). We'll occasionally send you account related emails."

帳號密碼設定

Step1:設定帳號(必須是唯一)

Step2:設定email(已註冊email不能使用)

Step3:設定密碼

Step4:點選

Sign up for GitHub

Username

kfc399399



Email

kfc399@yahoo.com.tw



Password

●●●●●●●●●●

Make sure it's at least 15 characters OR at least 8 characters including a number and a lowercase letter. [Learn more.](#)

Sign up for GitHub

By clicking "Sign up for GitHub", you agree to our [Terms of Service](#) and [Privacy Statement](#). We'll occasionally send you account related emails.

驗證帳號

Verify account

請解開這謎題，
好讓我們知道你是真人

驗證



選擇方案

Step1:選擇free方案

Step2:選擇 

Choose your subscription

With tools developers love and the world's largest open source community, there's no wrong choice.



Free

The basics of GitHub for every developer

\$0

per month

Includes:

- ∞ Unlimited public and private repositories
- ✓ 3 collaborators for private repositories
- ✓ Issues and bug tracking
- ✓ Project management



Pro

Pro tools for developers with advanced requirements

\$7

per month
[\(view in TWD\)](#)

Includes:

- ∞ Unlimited public and private repositories
- ∞ Unlimited collaborators
- ✓ Issues and bug tracking
- ✓ Project management
- ✓ [Advanced tools and insights](#)

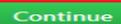
Are you a [student](#)? Get access to the best developer tools for free with the [GitHub Student Developer Pack](#).

Help me set up an organization next

Organizations are separate from personal accounts and are best suited for businesses who need to manage permissions for many employees. [Learn more about organizations](#)

Send me updates on GitHub news, offers, and events

Unsubscribe anytime in your email preferences. [Learn more](#)



驗證email

Step1:選擇 [skip this step](#)

Step2:到email中點選驗證

What do you plan to use GitHub for? (Select up to 3)

- Learning to code
- Learning Git and GitHub
- Host a project (repository)
- Creating a website with GitHub Pages
- Collaborating with my team
- Finding a project to contribute to
- School work / School-related project
- The GitHub API
- I don't know yet
- Other (please specify)

What are you interested in?

What languages, frameworks, industries, or disciplines are you interested in?
e.g. game-off, nette, material-design

[Submit](#)

[skip this step](#)



Please verify your email address

Before you can contribute on GitHub, we need you to verify your email address.

An email containing verification instructions was sent to kfc399@yahoo.com.tw.

Didn't get the email? [Resend verification email](#) or [change your email settings](#).

GitHub

Subscribe to our newsletter

Get product updates, company news, and more.

[Subscribe](#)

Product	Platform	Support	Company
Features	Developer API	Help	About
Security	Partners	Community Forum	Blog
Enterprise	Atom	Professional Services	Careers
Customer stories	Electron	Learning Lab	Press
Pricing	GitHub Desktop	Status	Shop
Resources	Contact GitHub		

Almost done, @kfc399399! To complete your GitHub sign up, we just need to verify your email address: kfc399@yahoo.com.tw.

[Verify email address](#)

Once verified, you can start using all of GitHub's features to explore, build, and share projects.

Button not working? Paste the following link into your browser: https://github.com/users/kfc399399/emails/84588984/confirm_verification/03e4630d3dba08cc70fe4413fce4e82d4a6f69d8

You're receiving this email because you recently created a new GitHub account or added a new email address. If this wasn't you, please ignore this email.

[Email preferences](#) · [Terms](#) · [Privacy](#) · [Sign into GitHub](#)

建立新專案/程式庫/目錄

Step1:點選Repository name,輸入AI

Step2:點選Public

Step3:點選Initialize this repository with a README

Step4:點選create 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

kfc399399

Repository name *

AI

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

Description (optional)

Public

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

Private

You choose who can see and commit to this repository.

Skip this step if you're importing an existing repository.

Initialize this repository with a README

This will let you immediately clone the repository to your computer.

Add .gitignore: **None**

Add a license: **None**



Create repository

功能簡介

The screenshot shows a GitHub repository page for 'kfc399399 / AI'. The repository name is highlighted with a red box and labeled '帳號名稱/專案名稱'. The 'Code' button is also highlighted with a red box and labeled '程式碼主頁'. The commit history shows one commit by 'kfc399399' with the message 'Initial commit', highlighted with a red box and labeled '更新與提交紀錄'. The 'Clone or download' button is highlighted with a red box and labeled '複製專案到本機'. The file 'README.md' is listed, and its content is shown as 'AI', which is highlighted with a red box and labeled '編輯頁面'.

kfc399399 / AI 帳號名稱/專案名稱

Unwatch 1 Star 0 Fork 0

<> Code 程式碼主頁 requests 0 Projects 0 Wiki Security Insights Settings

No description, website, or topics provided. Edit

Manage topics

1 commit 更新與提交紀錄 0 releases 複製專案到本機 1 contributor

Branch: master New pull request Create new file Upload files Find File Clone or download

kfc399399 Initial commit Latest commit 66736bc 2 minutes ago

README.md Initial commit 2 minutes ago

README.md

AI 編輯頁面

Desktop Github(本機端)

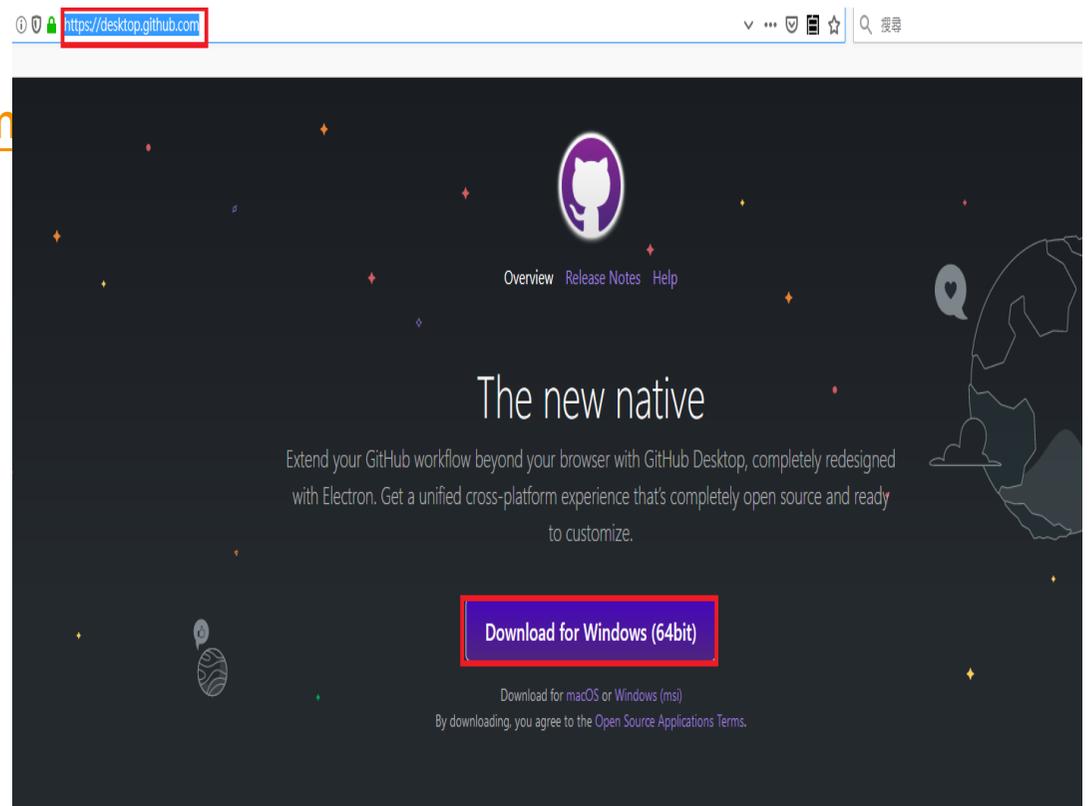
<https://desktop.github.com/>

Step1:另開網頁,

連結<https://desktop.github.com/>

Step2:下載適合自己桌機的版本,

下載完執行



點選sign into Github.com

沒github帳號
的話先去註冊

有github帳號
的話就點這邊

Welcome to
GitHub Desktop

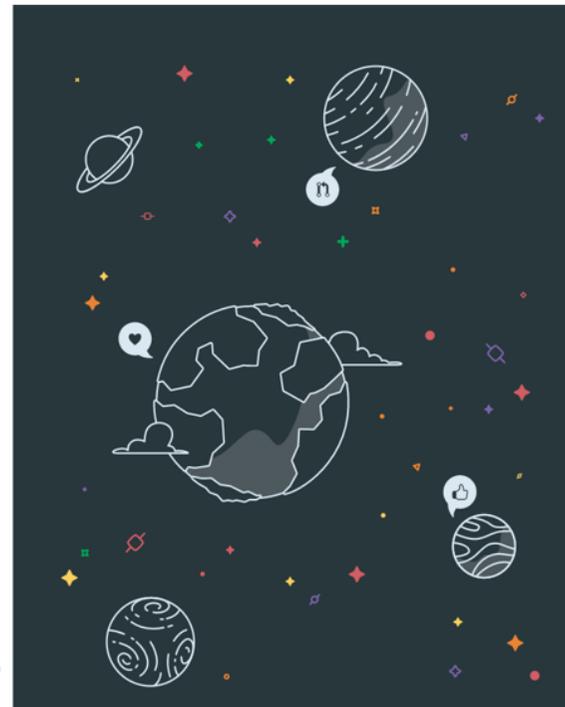
GitHub Desktop is a seamless way to contribute to projects on
GitHub and GitHub Enterprise. Sign in below to get started with
your existing projects.

New to GitHub? [Create your free account.](#)

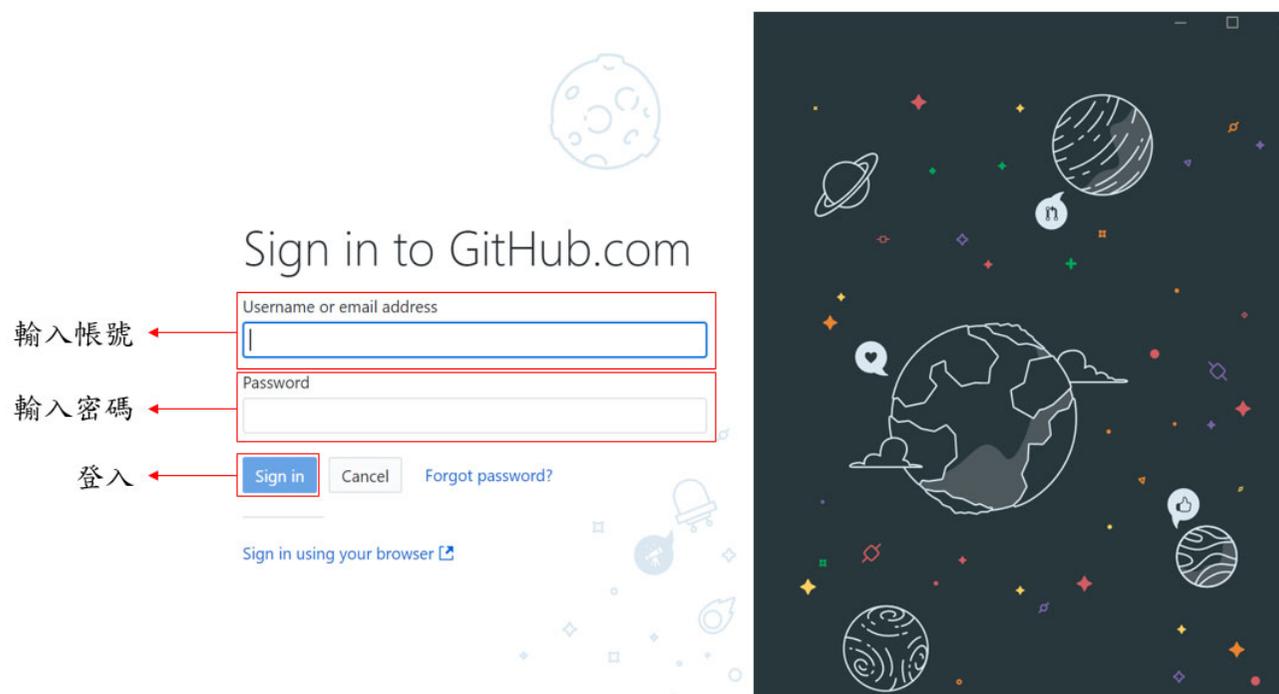
[Sign into GitHub.com](#)

[Sign into GitHub Enterprise](#)

[Skip this step](#)



輸入剛剛註冊的帳號密碼



點選continue

點這個，
上面不用動



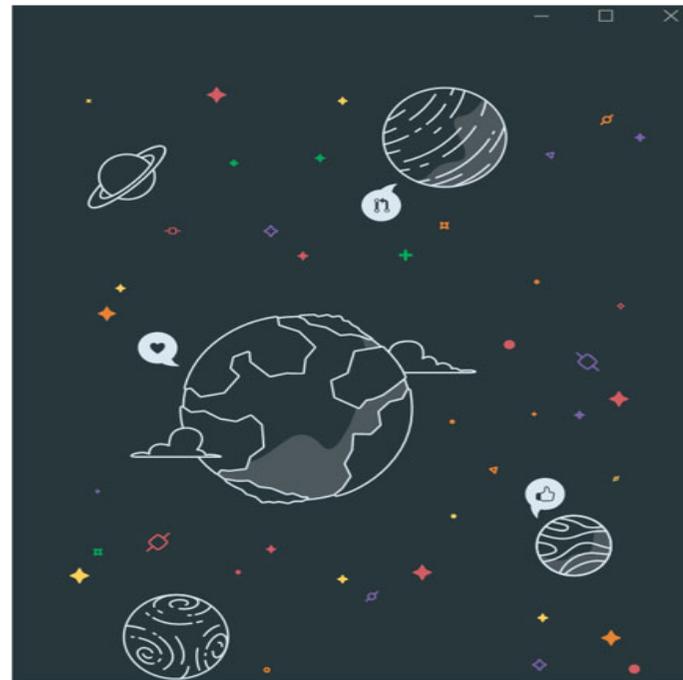
Configure Git

This is used to identify the commits you create. Anyone will be able to see this information if you publish commits.

Name

Email

Example commit
Fix all the things
 committed 30 minutes ago



這裡不要選擇核取方塊,選擇Finish

打勾的話，

github desktop會定期傳一些使用時的訊息，
給他們官方協助他們開發

Make GitHub
Desktop better!

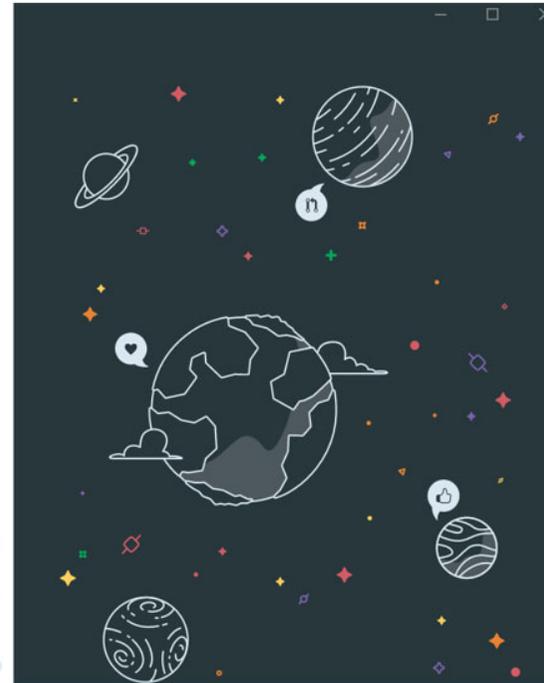
Would you like to help us improve GitHub Desktop by
periodically submitting [anonymous usage data](#)?

Yes, submit anonymized usage data

Finish

Cancel

點這個



使用遠端(remote)的Github

Step1:點選 **Clone or download**

Step2:將網址複製

The screenshot shows the GitHub interface for a repository named 'AI' by user 'kfc399399'. The repository has 1 issue, 0 pull requests, 0 projects, 0 wiki pages, 0 security alerts, 0 insights, and 0 settings. It has 2 commits, 1 branch, 0 releases, and 2 contributors. The 'Clone or download' button is highlighted in green, and a dropdown menu is open, showing the 'Clone with HTTPS' option selected. The URL 'https://github.com/kfc399399/AI.git' is highlighted in red in the dropdown menu. Other options in the dropdown include 'Use SSH' and 'Download ZIP'. The repository files listed are 'AI.ipynb' (Create Al.ipynb) and 'README.md' (Initial commit).

返回本機端的Github desktop



-  Clone a repository from the Internet...
-  Create a New Repository on your hard drive...
-  Add an Existing Repository from your hard drive...



貼上網址

Step1:將剛剛複製的網址貼上

Step2:local path會跟著改變

Step3:點選clone

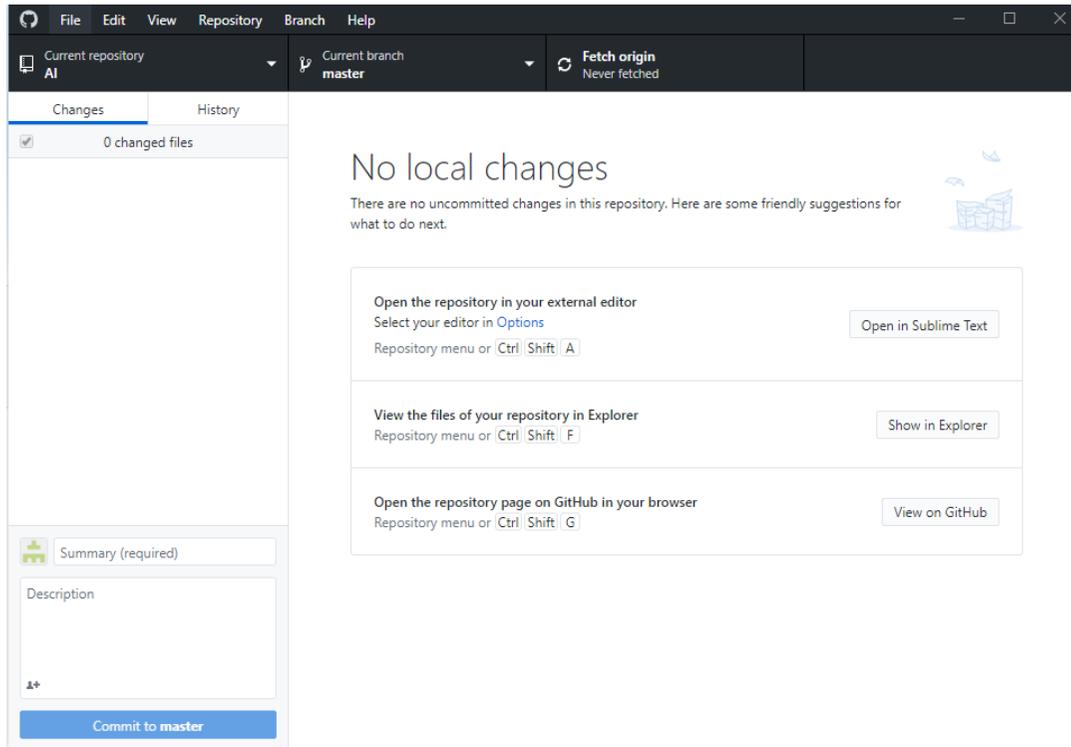
Clone a repository ✕

GitHub.com GitHub Enterprise Server **URL**

Repository URL or GitHub username and repository
(hubot/cool-repo)

Local path

完成畫面

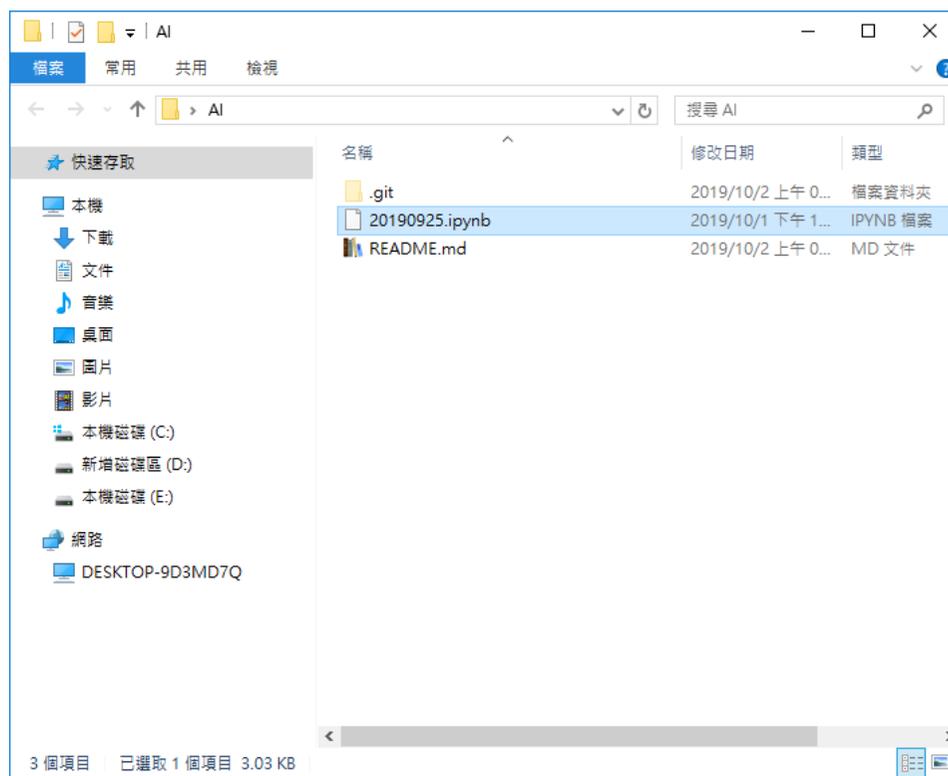


將作業複製到該資料夾

Step1:將作業改名為20190925

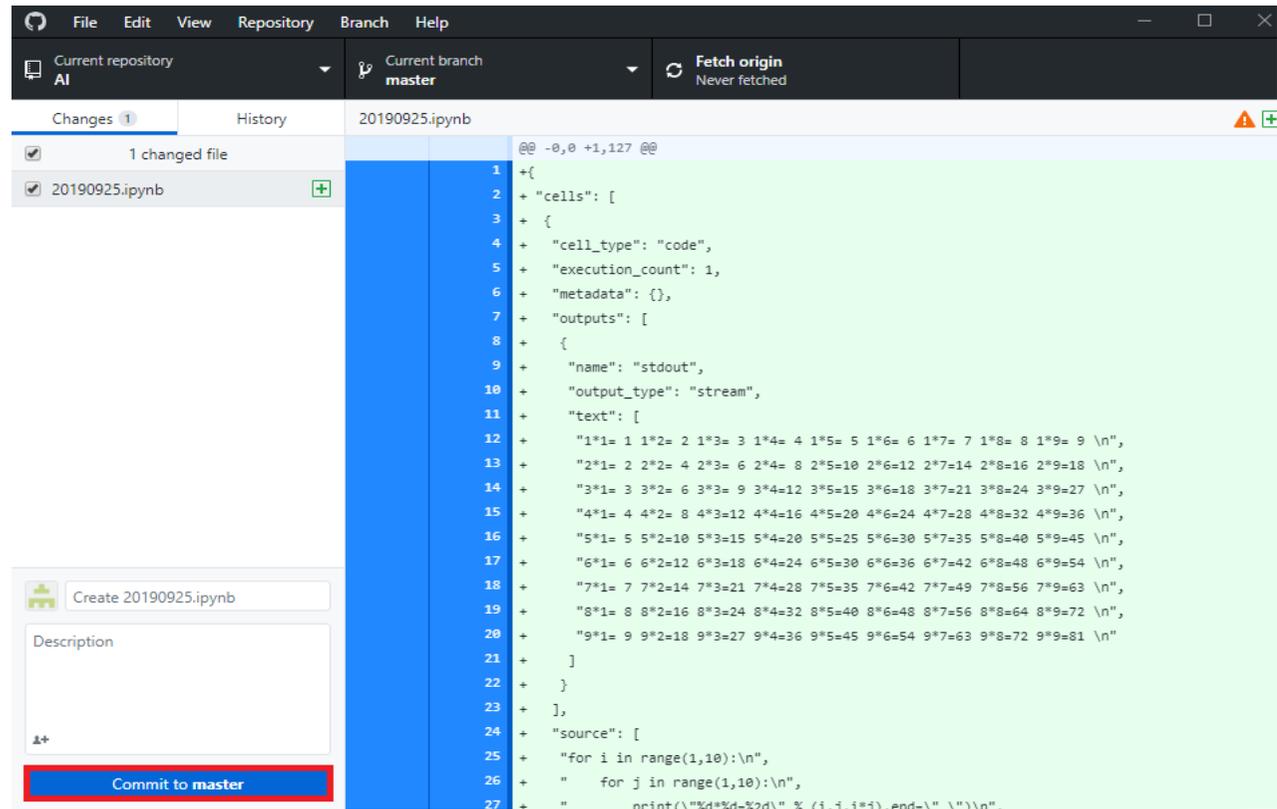
Step2:將作業複製到local path的資料夾

Step3:資料夾內共有三個檔案



Github desktop(本機端)

Step:點選commit to master



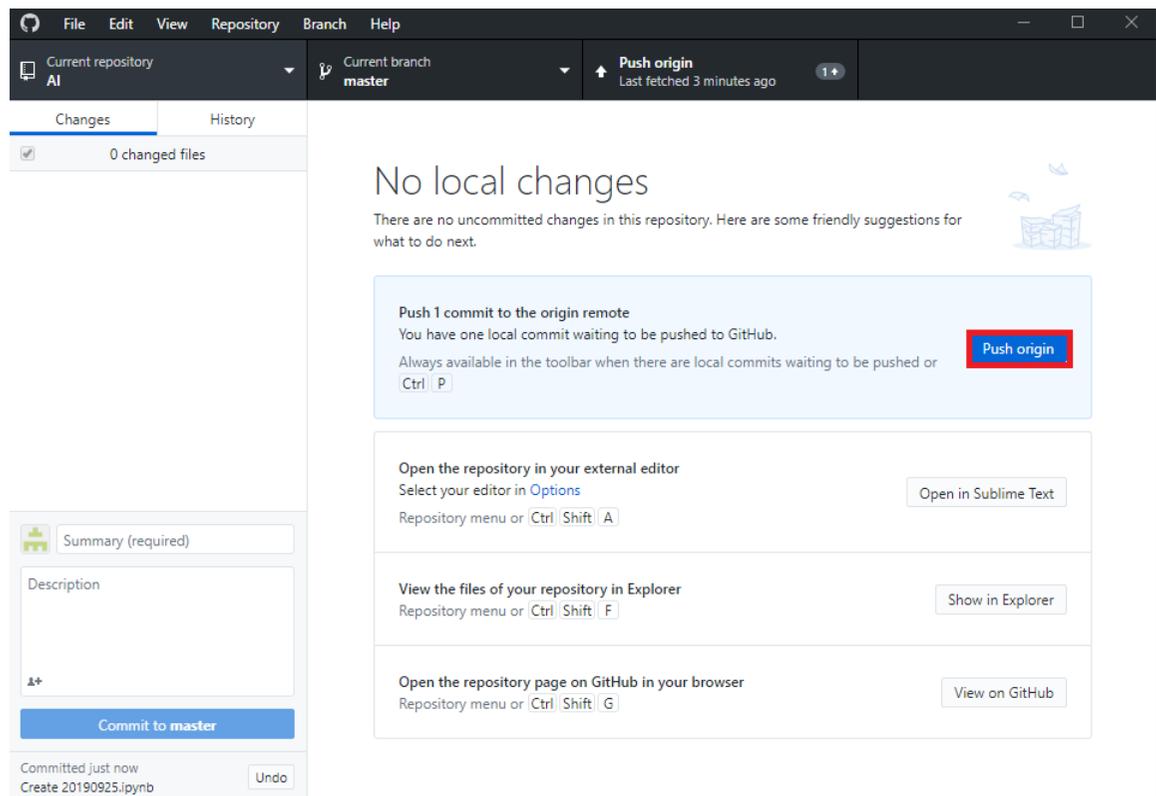
The screenshot shows the GitHub Desktop application interface. The top menu bar includes File, Edit, View, Repository, Branch, and Help. The current repository is 'AI' and the current branch is 'master'. The 'Fetch origin' button is visible, indicating that the local branch is out of sync with the remote. The main area displays a diff for the file '20190925.ipynb', showing a single change with a diff of @@ -0,0 +1,127 @@. The diff content is as follows:

```
@@ -0,0 +1,127 @@
1 +{
2 + "cells": [
3 + {
4 +   "cell_type": "code",
5 +   "execution_count": 1,
6 +   "metadata": {},
7 +   "outputs": [
8 +     {
9 +       "name": "stdout",
10 +      "output_type": "stream",
11 +      "text": [
12 +        "1*1= 1 1*2= 2 1*3= 3 1*4= 4 1*5= 5 1*6= 6 1*7= 7 1*8= 8 1*9= 9 \n",
13 +        "2*1= 2 2*2= 4 2*3= 6 2*4= 8 2*5=10 2*6=12 2*7=14 2*8=16 2*9=18 \n",
14 +        "3*1= 3 3*2= 6 3*3= 9 3*4=12 3*5=15 3*6=18 3*7=21 3*8=24 3*9=27 \n",
15 +        "4*1= 4 4*2= 8 4*3=12 4*4=16 4*5=20 4*6=24 4*7=28 4*8=32 4*9=36 \n",
16 +        "5*1= 5 5*2=10 5*3=15 5*4=20 5*5=25 5*6=30 5*7=35 5*8=40 5*9=45 \n",
17 +        "6*1= 6 6*2=12 6*3=18 6*4=24 6*5=30 6*6=36 6*7=42 6*8=48 6*9=54 \n",
18 +        "7*1= 7 7*2=14 7*3=21 7*4=28 7*5=35 7*6=42 7*7=49 7*8=56 7*9=63 \n",
19 +        "8*1= 8 8*2=16 8*3=24 8*4=32 8*5=40 8*6=48 8*7=56 8*8=64 8*9=72 \n",
20 +        "9*1= 9 9*2=18 9*3=27 9*4=36 9*5=45 9*6=54 9*7=63 9*8=72 9*9=81 \n"
21 +      ]
22 +    }
23 +  ],
24 +   "source": [
25 +     "for i in range(1,10):\n",
26 +     "    for j in range(1,10):\n",
27 +     "        print(\"%d*%d=%2d\" % (i,i*i).end=\" \\n\\n\".
```

At the bottom of the interface, there is a 'Commit to master' button, which is highlighted with a red border. The button is located below a 'Description' field and a 'Create 20190925.ipynb' button.

Github desktop(本機端)

Step:點選push origin



remote端的Github

Step1:到遠端的github,發現多了一個檔案

2step2:點選它,可以在下方看到內容

```
sum = 0
n = int(input("請輸入一個數字: "))
for i in range(1, n+1):
    sum += i

print("1到 {} 的整數和是 {}".format(n, sum))
```

The screenshot shows a GitHub repository page for 'kfc399399 / AI'. The repository has 1 star and 0 forks. The main content area shows a commit history table with the following entries:

Commit Hash	Message	Time
7ea4f0f9	Create 20190925.ipynb	4 minutes ago
Initial commit	Initial commit	4 hours ago

The commit '7ea4f0f9' is highlighted with a red box. Below the commit history, the content of the selected commit is shown, which is the text 'AI'.

編輯程式(本機端)

Step:打開jupyter,並開啟local path資料夾的程式檔案
20190925.ipynb,輸入新的程式,存檔

```
1 sum = 0
2 n = int(input("請輸入一個數字: "))
3 for i in range(1, n+1):
4     sum += i
5
6 print("1到 {} 的整數和是 {}".format(n, sum))
7 print("台中教育大學")
8 print("數位內容科技系")
```

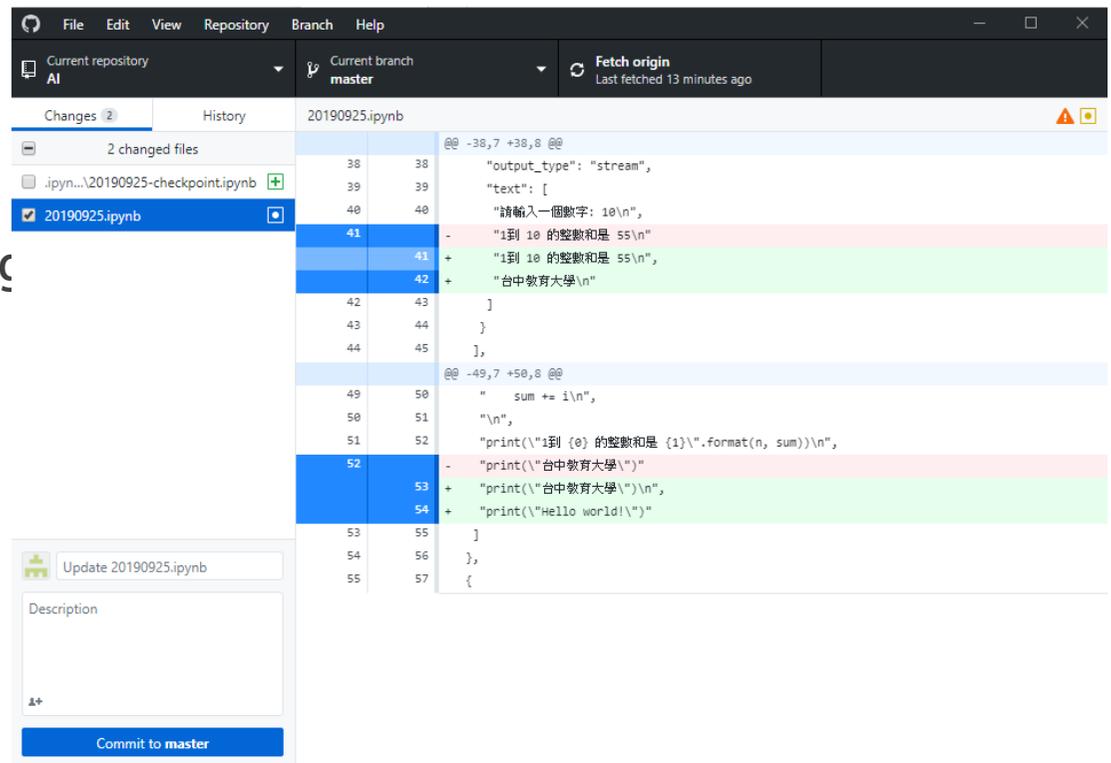
Github desktop

Step1:觀察github desktop,發現

出現增加(+)的程式

step2:如上述依序點選

commit to master--Push origin



Remote端Github

可以觀察到遠端的Github程式已經改變

```
sum = 0
n = int(input("請輸入一個數字: "))
for i in range(1, n+1):
    sum += i

print("1到 {0} 的整數和是 {1}".format(n, sum))
print("台中教育大學")
print("數位內容科技系")
```

```
請輸入一個數字: 10
1到 10 的整數和是 55
台中教育大學
```

Remote端Github

The screenshot shows the GitHub interface for a repository named 'kfc399399 / AI'. At the top, there are navigation tabs for 'Code', 'Issues', 'Pull requests', 'Projects', 'Wiki', 'Security', 'Insights', and 'Settings'. Below these, a message states 'No description, website, or topics provided.' with an 'Edit' button. A summary bar indicates '7 commits', '1 branch', '0 releases', and '2 contributors'. The main content area shows a file list with columns for file names and commit messages. A dropdown menu is open over the 'Clone or download' button, showing the option to 'Clone with HTTPS' and a 'Download ZIP' button. The URL 'https://github.com/kfc399399/AI.git' is displayed in the dropdown. Red boxes highlight the 'Clone or download' button, the 'Clone with HTTPS' dropdown, and the 'Open in Desktop' and 'Download ZIP' buttons.

kfc399399 / AI

Unwatch 1 Star 0 Fork 0

Code Issues 0 Pull requests 0 Projects 0 Wiki Security Insights Settings

No description, website, or topics provided. Edit

Manage topics

7 commits 1 branch 0 releases 2 contributors

Branch: master New pull request Create new file Upload files Find File Clone or download

kfc399 Update 20190925.ipynb

20190925.ipynb	Update 20190925.ipynb
AI.ipynb	Create AI.ipynb
README.md	Initial commit

Clone with HTTPS Use SSH

Use Git or checkout with SVN using the web URL.

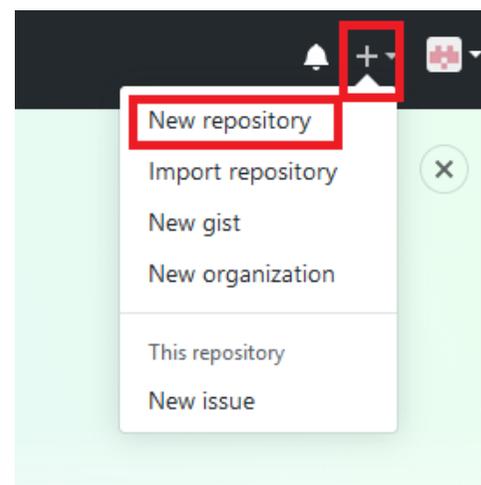
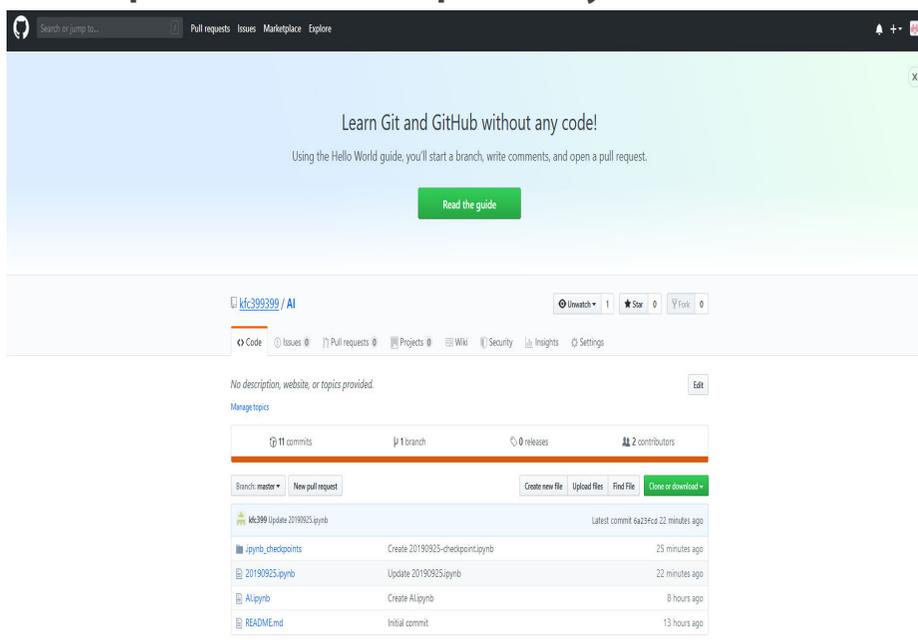
https://github.com/kfc399399/AI.git

Open in Desktop Download ZIP

新增專案/程式庫/目錄

Step1: 在remote端github 右上方點選” + ” 的符號

Step2:點選New repository



新增專案/程式庫/目錄

Create a new repository

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

Owner: kfc399399 / Repository name: AI3 ✓

Great repository names are short and memorable. Need inspiration? How about [super-duper-succotash](#)?

Description (optional)

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

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

Skip this step if you're importing an existing repository.

Initialize this repository with a README
This will let you immediately clone the repository to your computer.

Add .gitignore: None Add a license: None ⓘ

[Create repository](#)

kfc399399 AI3

Unwatch 1 Star 0 Fork 0

Code Issues 0 Pull requests 0 Projects 0 Wiki 0 Security 0 Insights 0 Settings

No description, website, or topics provided. [Edit](#)

Manage topics

1 commit 1 branch 0 releases 1 contributor

Branch master New pull request

Create new file Upload files Find File Clone or download

kfc399399 Initial commit Latest commit 7869289 14 seconds ago

README.md Initial commit 14 seconds ago

README.md

Overview Repositories 5 Projects 0 Packages 0 Stars 0 Followers 0 Following 0

Popular repositories

Customize your pins

AI 20190925
Jupyter Notebook Jupyter Notebook

test AI2
Jupyter Notebook Jupyter Notebook

AI3