

網站系統開發

Introduction to web development

PHP 動態網站系統開發

01

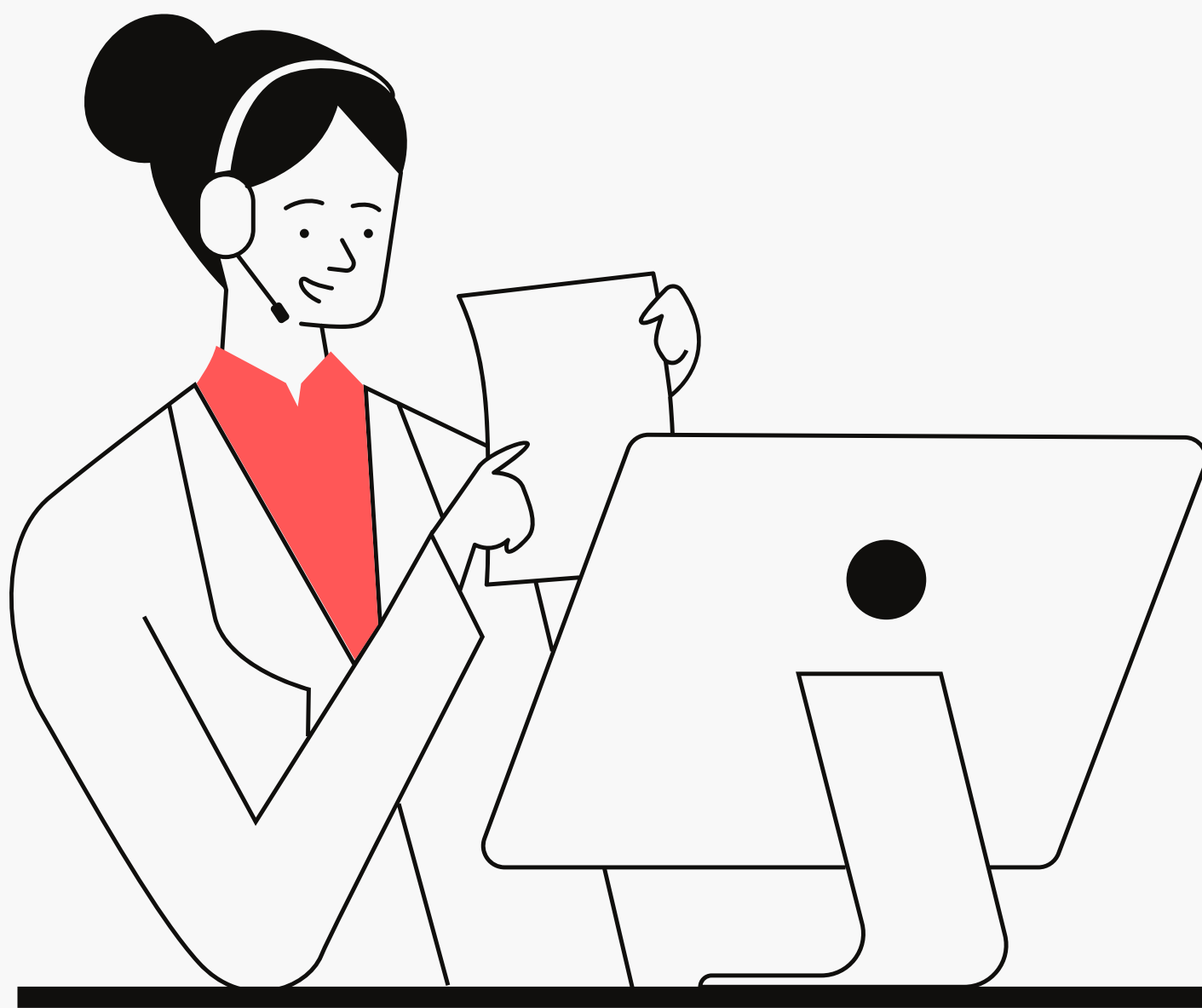


講師

Speaker

葉宗義

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- 曾擔任彰化高中資訊研習之講師



線上問答

Live Q & A

Joining as a
participant?

No account needed.

Enter event code

Join an existing event

1. 瀏覽器搜尋 Slido

2. 輸入 750180 event code

- **製作簡易個人網頁**

A website using github page

- **自己架網站！**

Introduction to XAMPP

- **世界上最好的語言**

Backend web language - PHP

- **資料庫**

What is SQL?

課程大綱

Outline

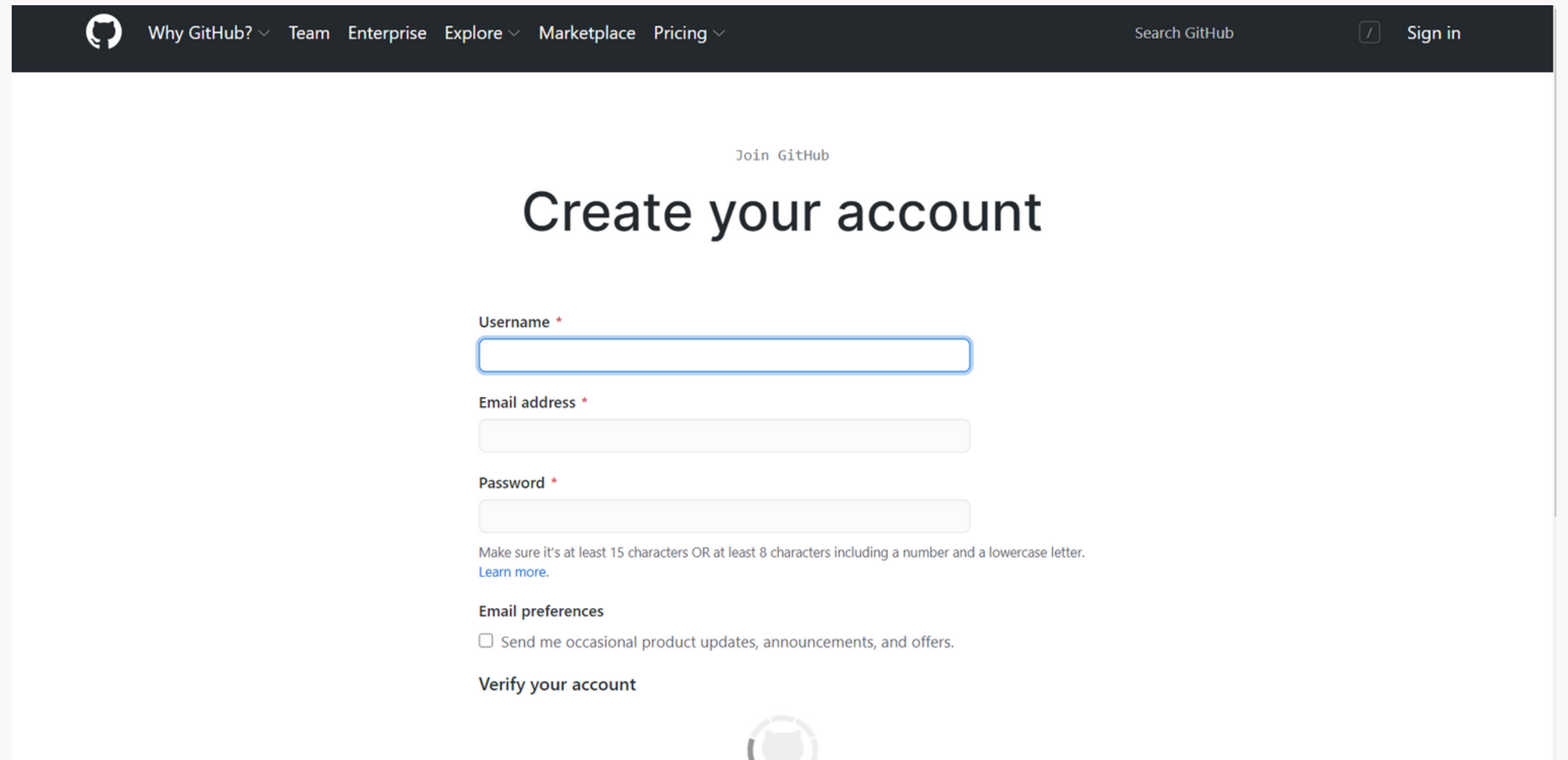


Github Page

- git 版本控制軟體
- github 託管程式碼之平台
- github page 可免費架設個人網頁



註冊 Github 帳號



The screenshot shows the GitHub registration page. At the top is a dark navigation bar with the GitHub logo, links for 'Why GitHub?', 'Team', 'Enterprise', 'Explore', 'Marketplace', and 'Pricing', a search bar, and a 'Sign in' link. The main content area is white and features the heading 'Join GitHub' followed by 'Create your account'. Below this are three input fields: 'Username', 'Email address', and 'Password', each with a red asterisk indicating a required field. The 'Password' field has a note below it: 'Make sure it's at least 15 characters OR at least 8 characters including a number and a lowercase letter. [Learn more.](#)'. Below the input fields is an 'Email preferences' section with a checkbox and the text 'Send me occasional product updates, announcements, and offers.' At the bottom of the form is a 'Verify your account' link. The GitHub logo is also visible in the bottom right corner of the page.

Why GitHub? ▾ Team Enterprise Explore ▾ Marketplace Pricing ▾ Search GitHub / Sign in

Join GitHub

Create your account

Username *

Email address *

Password *

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

Email preferences

☐ Send me occasional product updates, announcements, and offers.

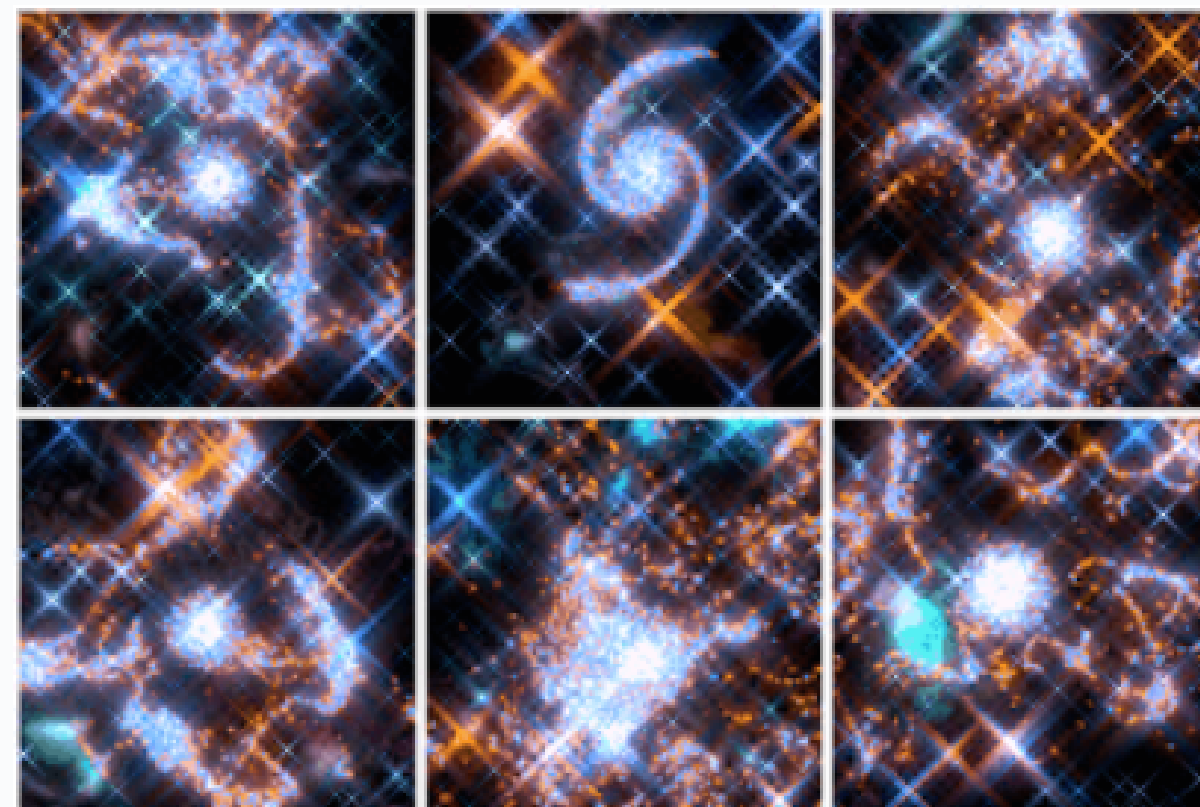
Verify your account

驗證帳號

高中地科忘光光啦...

Verify your account

選擇呈螺旋狀的星系



製作簡易個人網站

A website using github page

填寫資料

Welcome to GitHub

Woohoo! You've joined millions of developers who are doing their best work on GitHub. Tell us what you're interested in. We'll help you get there.

What kind of work do you do, mainly?

Software Engineer

I write code

Student

I go to school

Product Manager

I write specs

UX & Design

I draw interfaces

Data & Analytics

I write queries

Marketing & Sales

I look at charts

Teacher

I educate people

Other

I do my own thing

驗證信箱



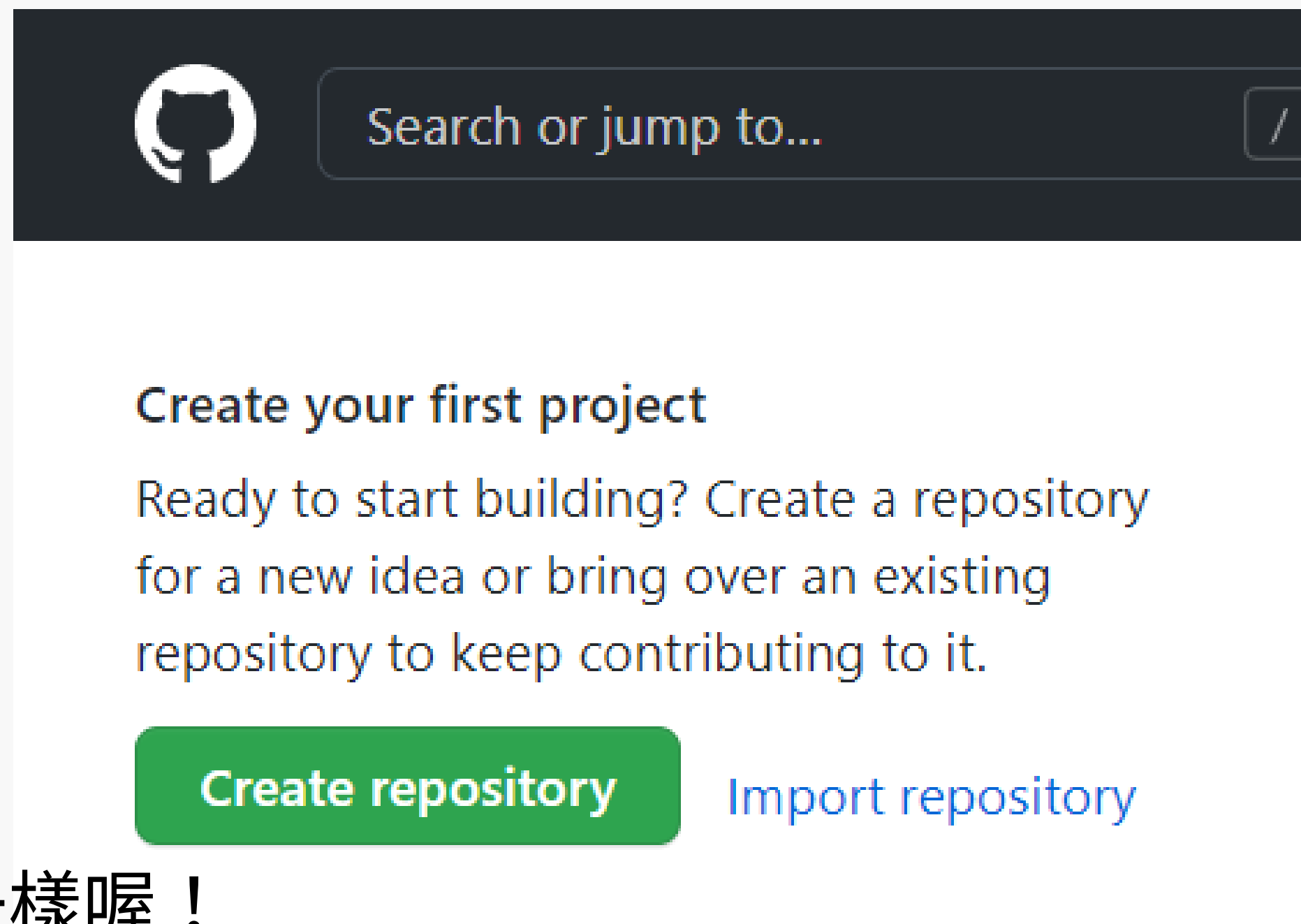
Please verify your email address

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

An email containing verification instructions was sent to `cpp1092020@gmail.com`.

[Resend verification email](#)[Change your email settings](#)

建立資料庫



這裡的資料庫與下堂課的不太一樣喔！

設定資料庫

填上 username.github.io

記得打勾

最後按下創建資料庫！

Create a new repository

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

Owner *

cpp1092020

Repository name *

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

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.](#)

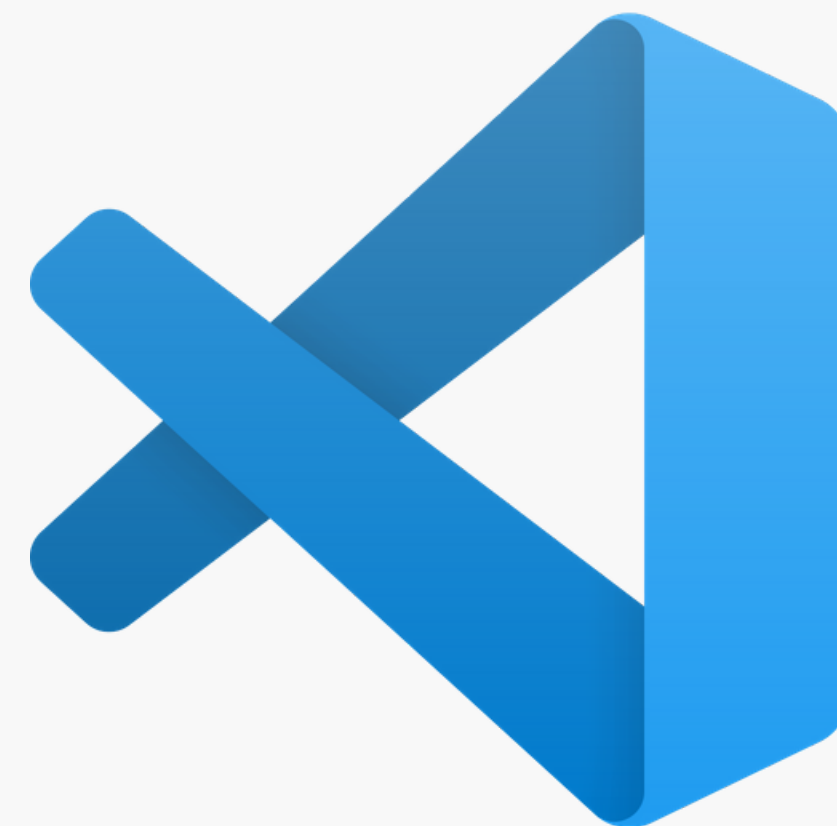


Choose a license

A license tells others what they can and can't do with your code. [Learn more.](#)

開始寫網頁！

1. 打開 VS Code
2. 創建檔案名為 `index.html`
3. 設計個人網頁



製作簡易個人網站

A website using github page

上傳檔案

cpp1092020 / cpp1092020.github.io

<> Code ! Issues 🔗 Pull requests 🔄 Actions 📁 Projects 📖 Wiki 🛡 Security 📊 Insights ⚙ Settings

main 1 branch 0 tags

Go to file Add file Code

cpp1092020 Initial commit 1 commit

README.md Initial commit 5 minutes ago

README.md

cpp1092020.github.io

14

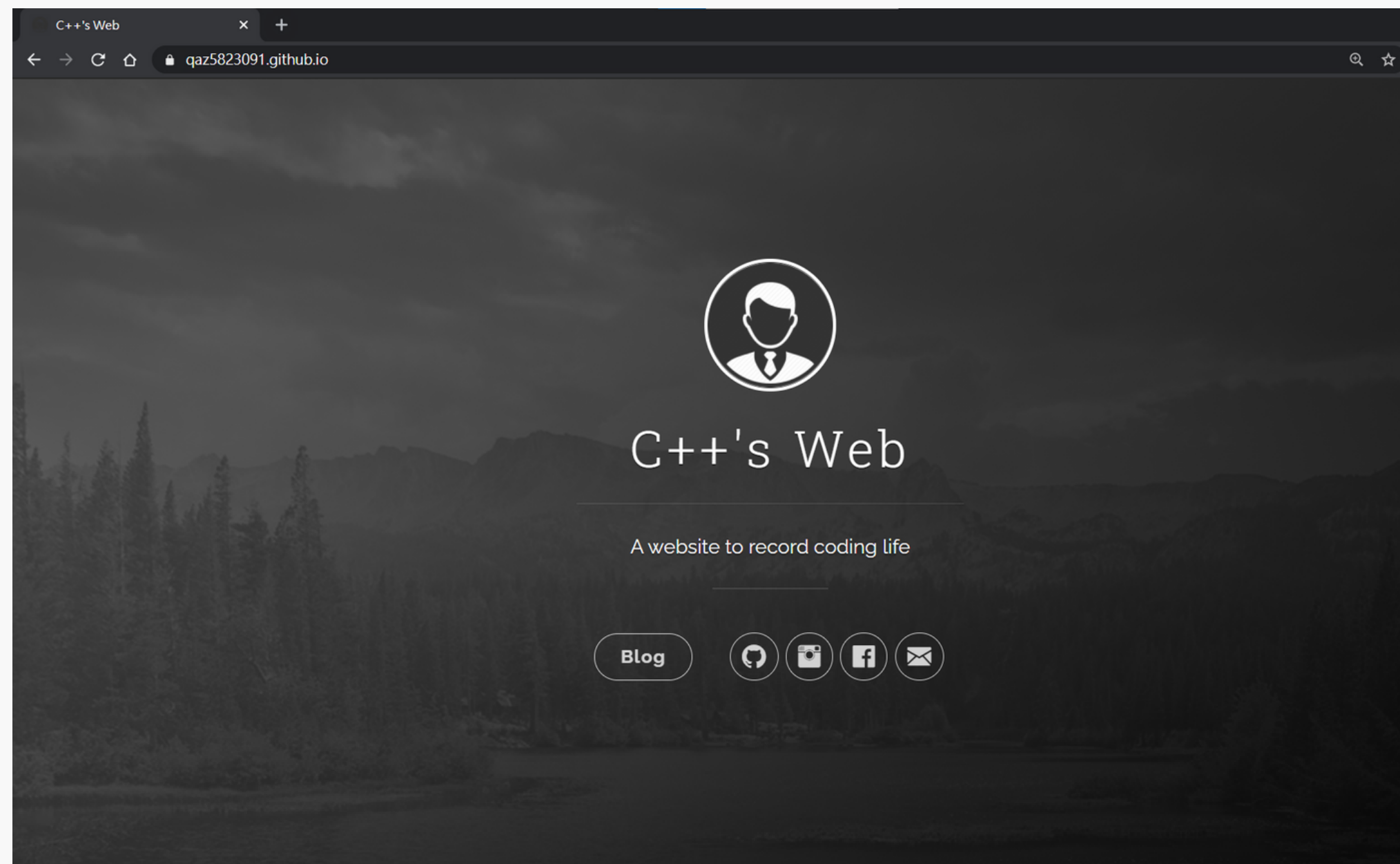


製作簡易個人網站

A website using github page

查看成果

請耐心等待～

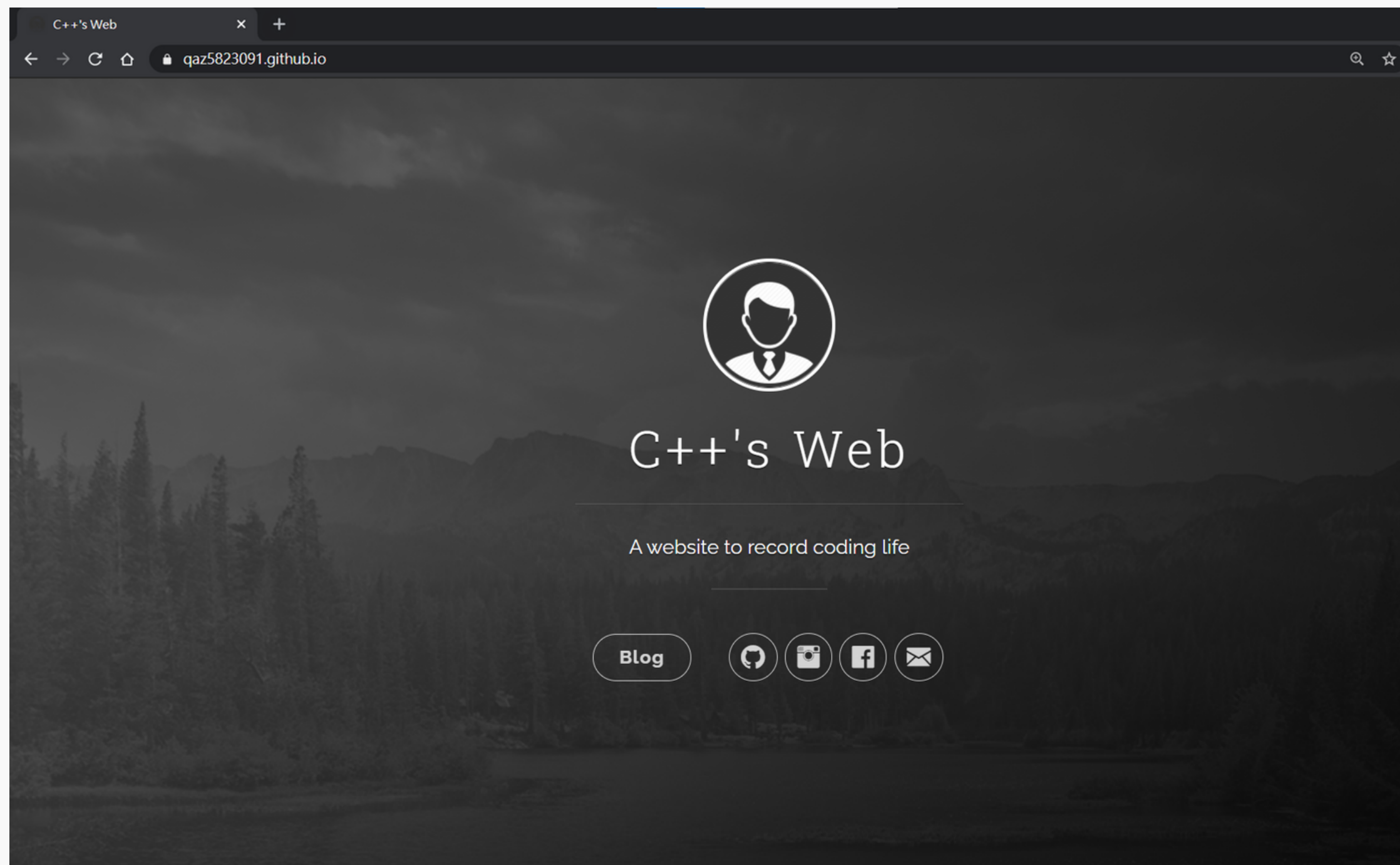


製作簡易個人網站

A website using github page

觀察

- 請觀察 URL（網址）



XAMPP

- Cross Platform
- Apache
- MySQL / MariaDB
- PHP
- Perl



XAMPP

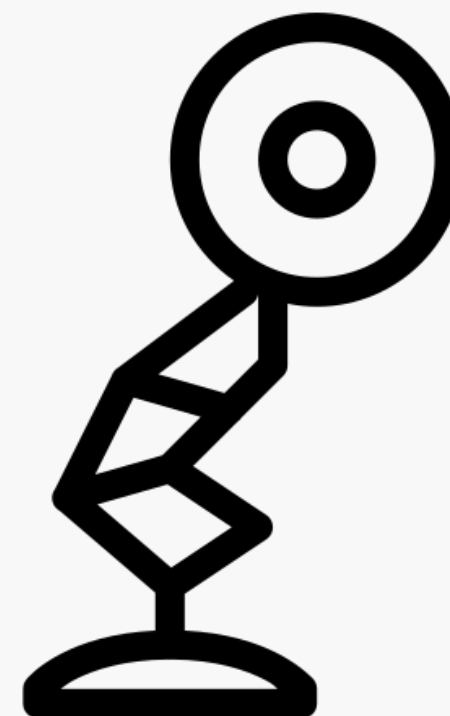
其他常見架構

LAMP

- Linux
- Apache
- MySQL / MariaDB
- PHP

WAMP

- Windows
- Apache
- MySQL / MariaDB
- PHP



自己架網站！

Introduction to XAMPP

XAMPP

- Cross Platform
- 指跨平台，可支援各種作業系統
- Linux、Windows、Mac OS

自己架網站！

Introduction to XAMPP

XAMPP

- Apache
- 一種網頁伺服器
- 預設為 http server



自己架網站！

Introduction to XAMPP

XAMPP

- MySQL / MariaDB
- DataBase 資料庫
- Structured Query Language
- 結構化查詢語言
- MySQL 為 SQL 其中之一管理系統



自己架網站！

Introduction to XAMPP

XAMPP

- PHP
- 一種網頁後端的語言
- 被官方稱為世界上最好的語言



自己架網站！

Introduction to XAMPP

XAMPP

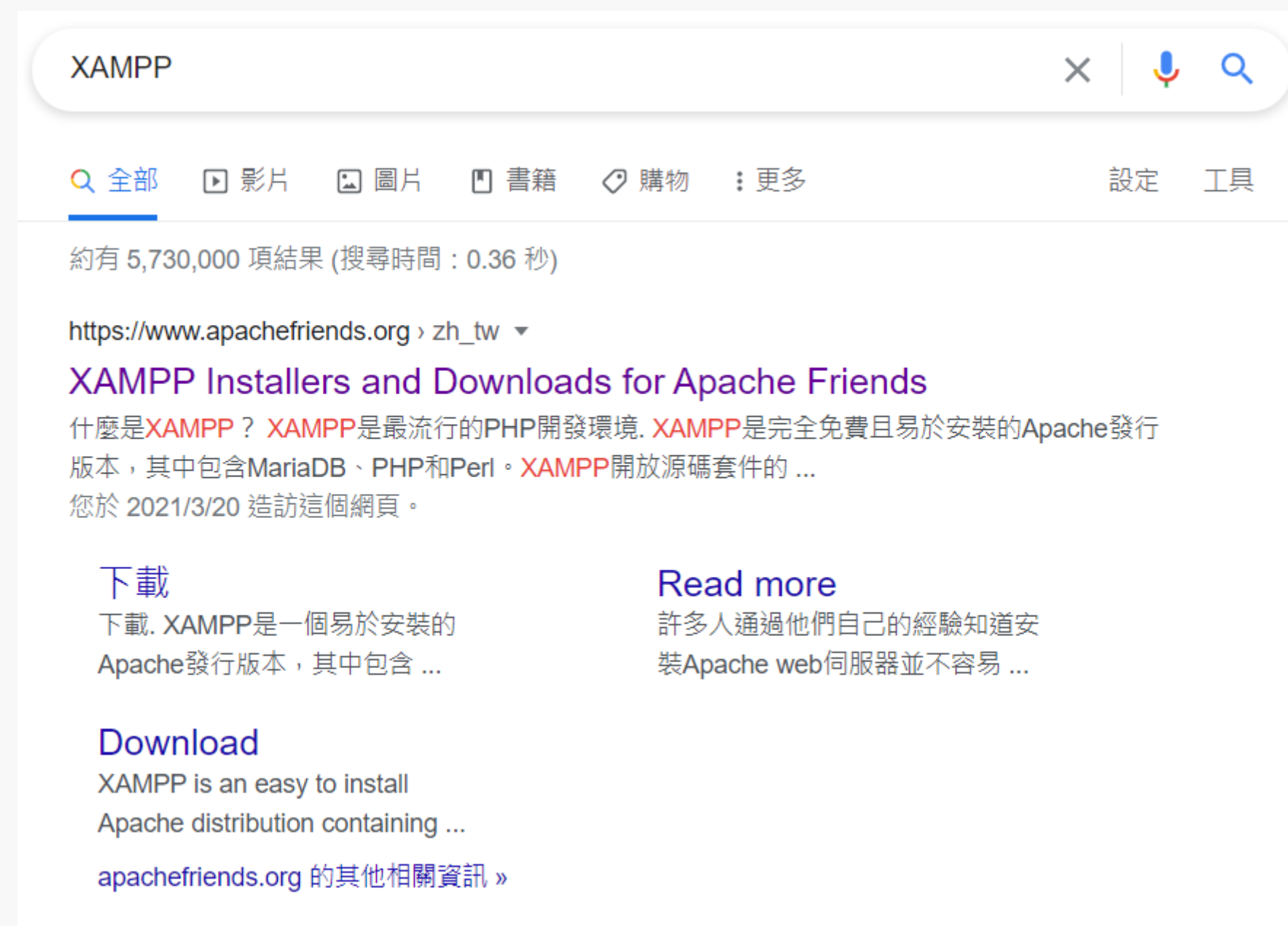
- Perl
- 這個用不到，就不介紹ㄌ



安裝 XAMPP

1. 搜尋 XAMPP

2. 點選第一個結果



A screenshot of a Google search results page for the query "XAMPP". The search bar at the top shows "XAMPP" with a clear button (X) and a microphone icon. Below the search bar, there are tabs for "全部" (All), "影片" (Videos), "圖片" (Images), "書籍" (Books), "購物" (Shopping), and "更多" (More). To the right of these tabs are links for "設定" (Settings) and "工具" (Tools). The search results show approximately 5,730,000 results found in 0.36 seconds. The first result is from "https://www.apachefriends.org › zh_tw" and is titled "XAMPP Installers and Downloads for Apache Friends". The description below the title reads: "什麼是XAMPP？XAMPP是最流行的PHP開發環境。XAMPP是完全免費且易於安裝的Apache發行版本，其中包含MariaDB、PHP和Perl。XAMPP開放源碼套件的 ... 您於 2021/3/20 造訪這個網頁。". Below the description, there are two columns of links. The left column has a link "下載" (Download) with the text "下載. XAMPP是一個易於安裝的Apache發行版本，其中包含 ...". The right column has a link "Read more" with the text "許多人通過他們自己的經驗知道安裝Apache web伺服器並不容易 ...". At the bottom of the left column, there is a link "Download" with the text "XAMPP is an easy to install Apache distribution containing ..." and a link "apachefriends.org 的其他相關資訊 »".

XAMPP

全部 影片 圖片 書籍 購物 更多 設定 工具

約有 5,730,000 項結果 (搜尋時間：0.36 秒)

https://www.apachefriends.org › zh_tw ▾

XAMPP Installers and Downloads for Apache Friends

什麼是XAMPP？XAMPP是最流行的PHP開發環境。XAMPP是完全免費且易於安裝的Apache發行版本，其中包含MariaDB、PHP和Perl。XAMPP開放源碼套件的 ... 您於 2021/3/20 造訪這個網頁。

下載
下載. XAMPP是一個易於安裝的Apache發行版本，其中包含 ...

Read more
許多人通過他們自己的經驗知道安裝Apache web伺服器並不容易 ...

Download
XAMPP is an easy to install Apache distribution containing ...
apachefriends.org 的其他相關資訊 »

安裝 XAMPP

1. 點選綠色下載按鈕



The screenshot shows the XAMPP website homepage. At the top is a dark blue navigation bar with the text "Apache Friends" on the left and links for "下載", "擴展", "Hosting", "社區", and "關於" in the center. On the right of the bar is a search bar with the placeholder text "搜尋.." and a green "搜尋" button, followed by a language selector showing "ZH TW". Below the navigation bar, the main heading reads "XAMPP Apache + MariaDB + PHP + Perl" with the XAMPP logo to the left. Underneath, a section titled "什麼是XAMPP?" explains that XAMPP is the most popular PHP development environment, a completely free and easy-to-install Apache distribution that includes MariaDB, PHP, and Perl. To the right of this text is a video player titled "Introduction to XAMPP" showing the XAMPP logo and a play button. At the bottom, there is a large green "下載" button with the text "按一下這裡獲得其他版本". To its right are three buttons for different operating systems: "XAMPP for Windows 8.0.3 (PHP 8.0.3)", "XAMPP for Linux 8.0.3 (PHP 8.0.3)", and "XAMPP for OS X 8.0.3 (PHP 8.0.3)".

安裝 XAMPP

1. 選擇 PHP 7.4.16 版本的下載

XAMPP for Windows 7.3.27, 7.4.16 & 8.0.3

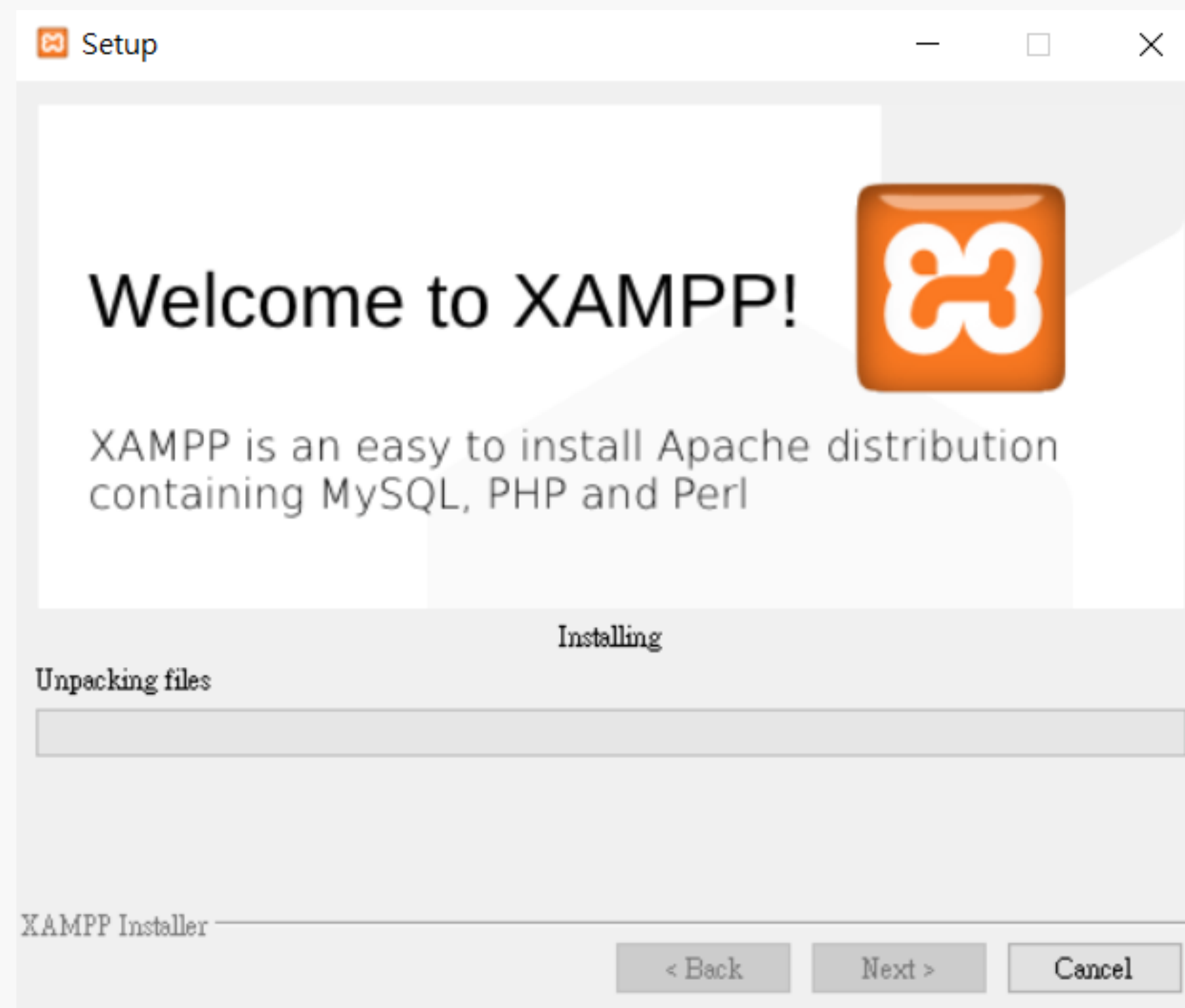
Version		Checksum			Size
7.3.27 / PHP 7.3.27	What's Included?	md5	sha1	Download (64 bit)	154 Mb
7.4.16 / PHP 7.4.16	What's Included?	md5	sha1	Download (64 bit)	156 Mb
8.0.3 / PHP 8.0.3	What's Included?	md5	sha1	Download (64 bit)	156 Mb

[Requirements](#) [Add-ons](#) [More Downloads](#) »

Windows XP or 2003 are not supported. You can download a compatible version of XAMPP for these platforms [here](#).

安裝 XAMPP

1. 打開執行檔
2. 一直按下一步

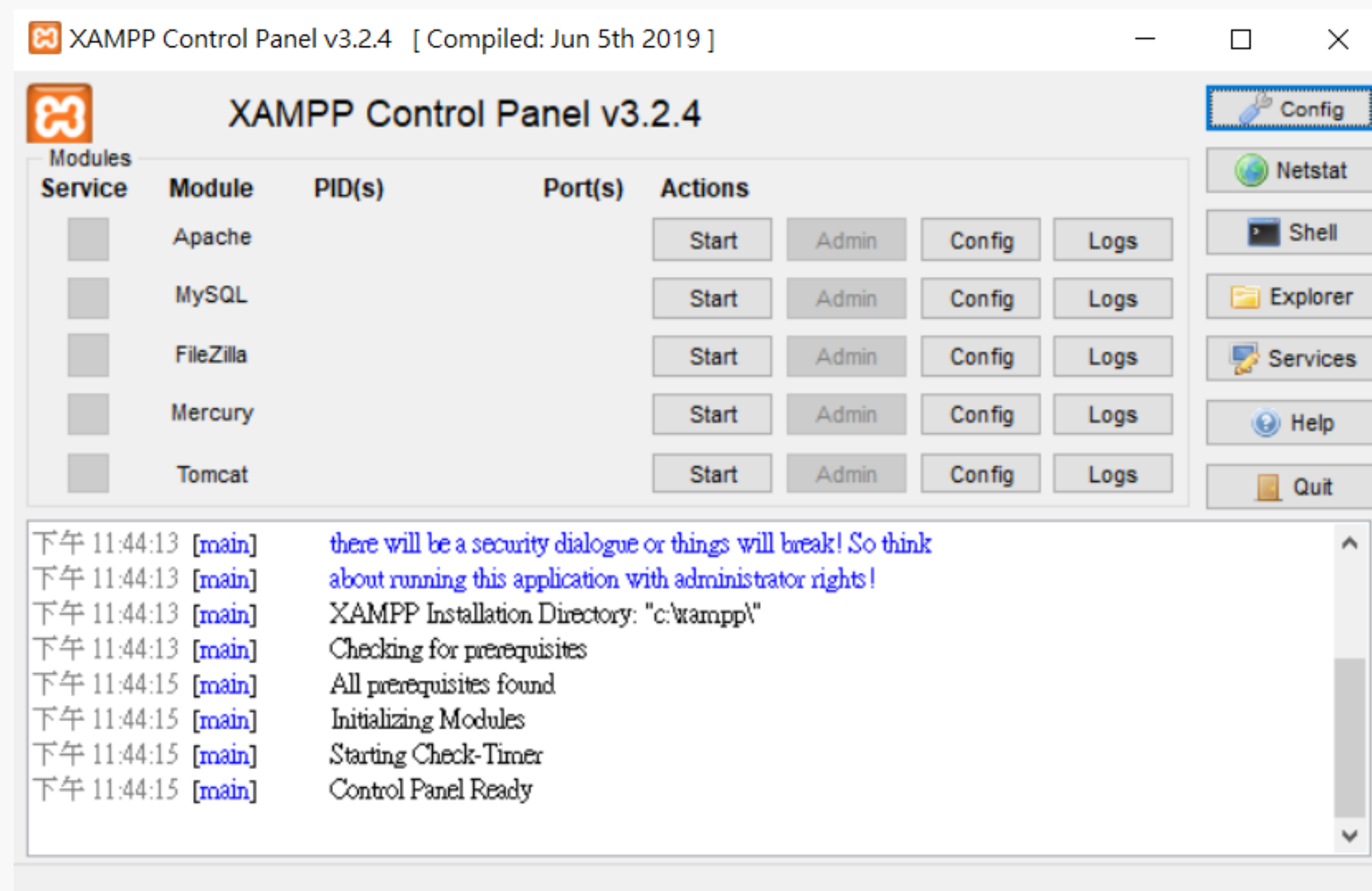


自己架網站！

Introduction to XAMPP

安裝成功？

1. 按下 Apache 旁的 start
2. 等待開啟後
3. 再按下旁邊的 Admin

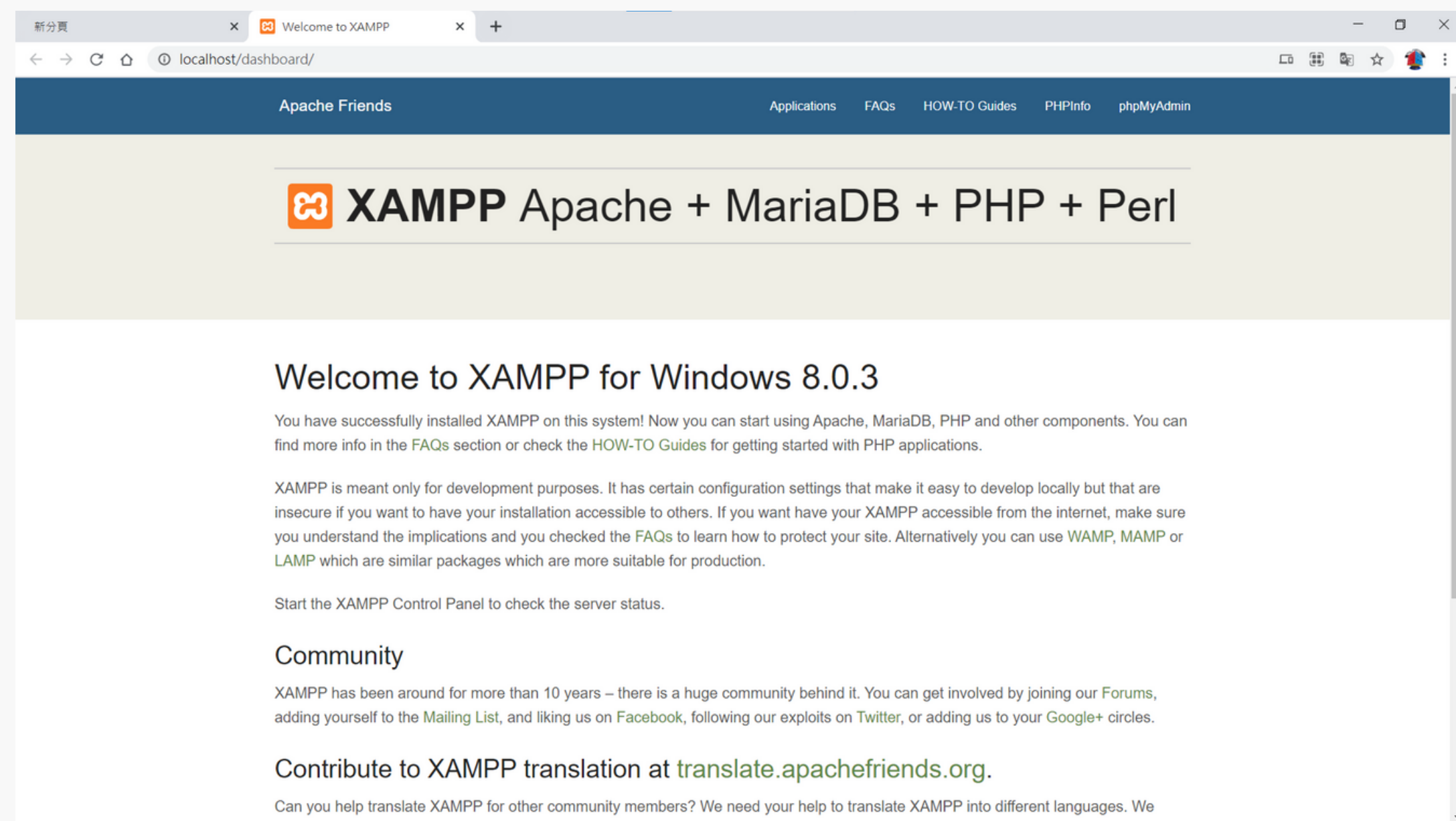


自己架網站！

Introduction to XAMPP

安裝成功！

出現此畫面代表安裝成功！

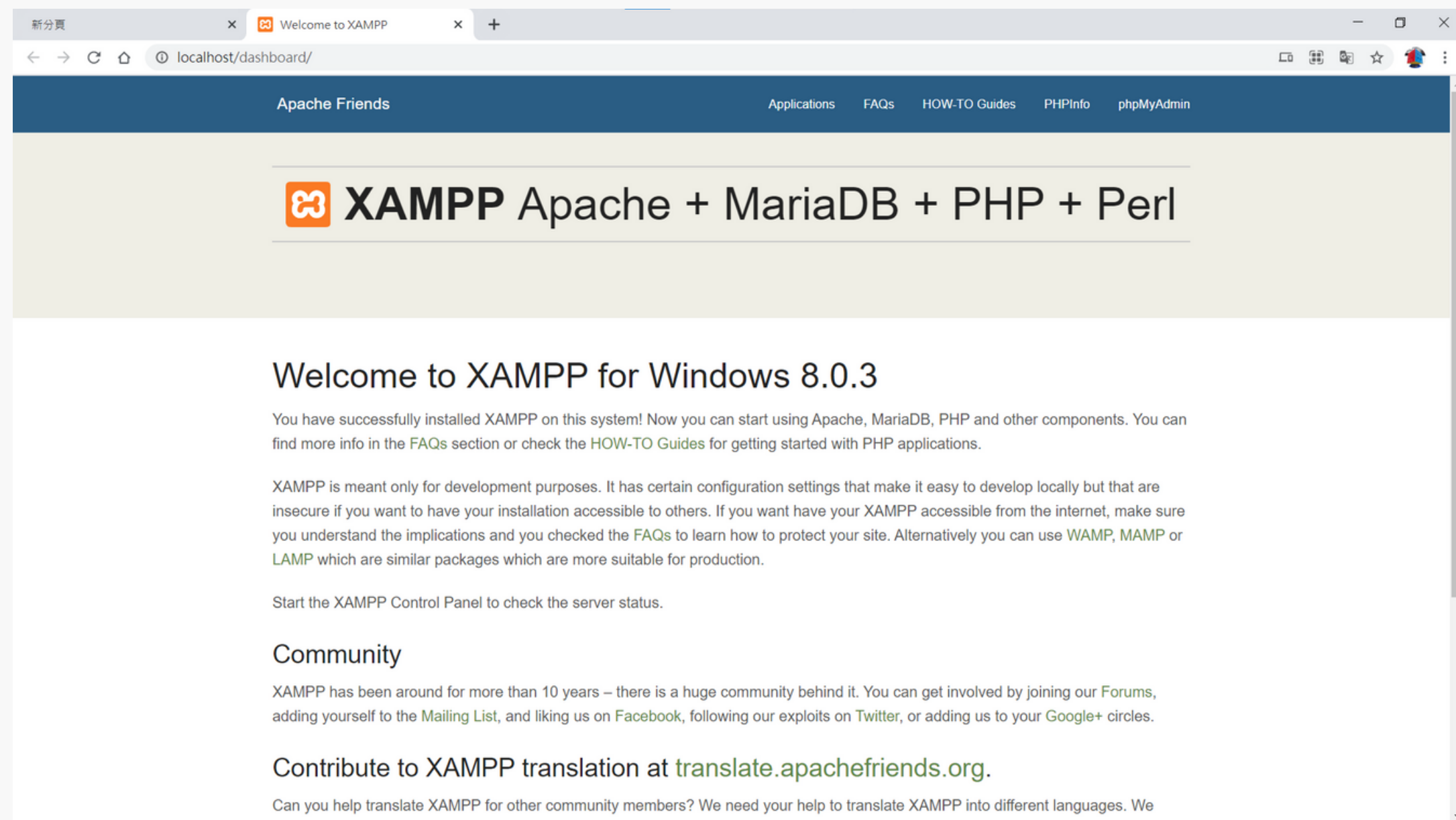


自己架網站！

Introduction to XAMPP

畚箕？本機？

- localhost
- 127.0.0.1



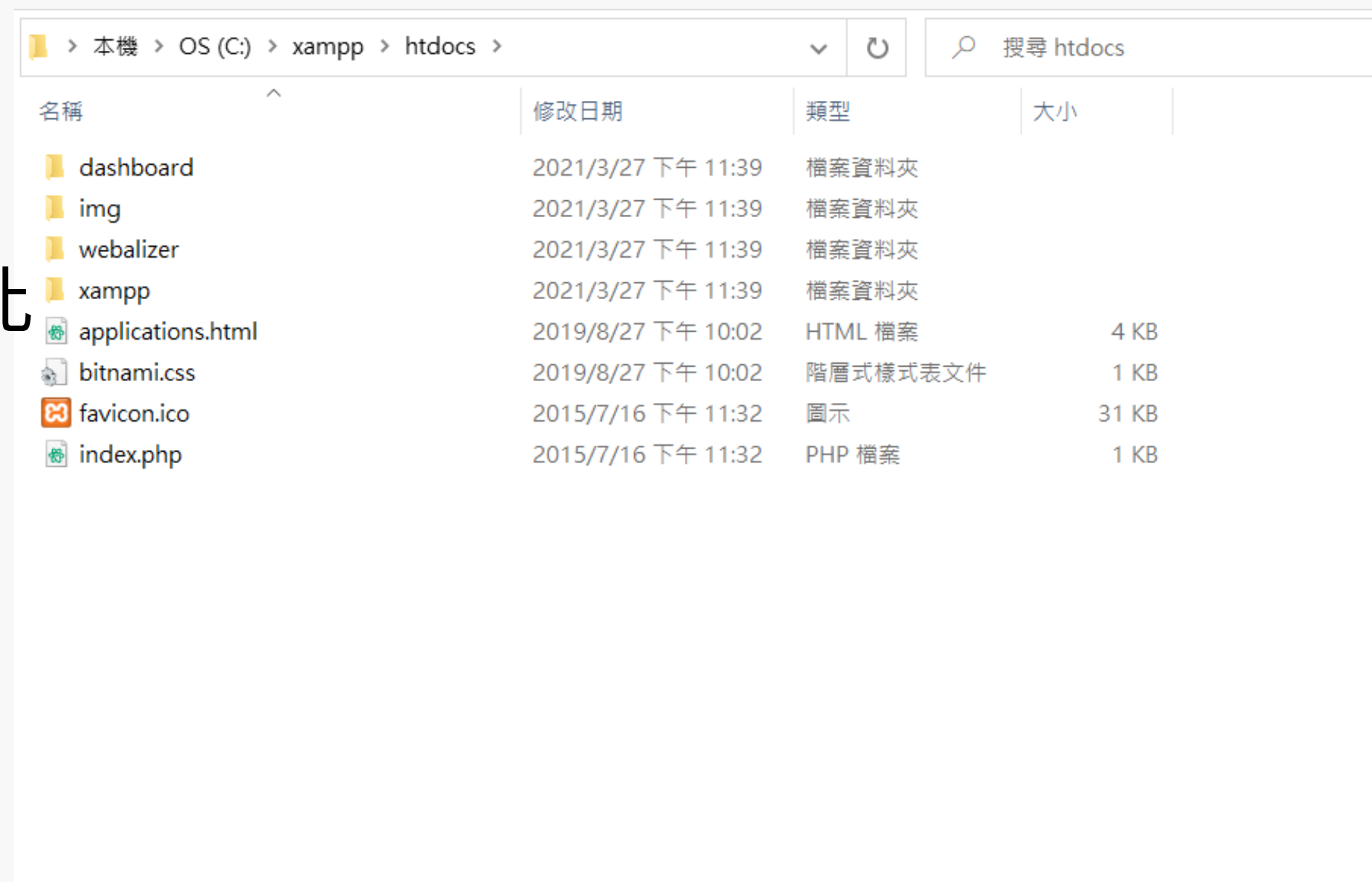
放上自己的作品

1. 進到剛剛的安裝位置
2. 點選 `htdocs`

> 本機 > OS (C:) > xampp >					搜尋 xampp
名稱	修改日期	類型	大小		
anonymous	2021/3/27 下午 11:39	檔案資料夾			
apache	2021/3/27 下午 11:39	檔案資料夾			
cgi-bin	2021/3/27 下午 11:42	檔案資料夾			
contrib	2021/3/27 下午 11:39	檔案資料夾			
FileZillaFTP	2021/3/27 下午 11:42	檔案資料夾			
htdocs	2021/3/27 下午 11:39	檔案資料夾			
img	2021/3/27 下午 11:39	檔案資料夾			
install	2021/3/27 下午 11:42	檔案資料夾			
licenses	2021/3/27 下午 11:39	檔案資料夾			
locale	2021/3/27 下午 11:39	檔案資料夾			
mailoutput	2021/3/27 下午 11:39	檔案資料夾			
mailtodisk	2021/3/27 下午 11:39	檔案資料夾			
MercuryMail	2021/3/27 下午 11:42	檔案資料夾			
mysql	2021/3/27 下午 11:39	檔案資料夾			
perl	2021/3/27 下午 11:40	檔案資料夾			
php	2021/3/27 下午 11:42	檔案資料夾			
phpMyAdmin	2021/3/27 下午 11:53	檔案資料夾			

放上自己的作品

1. 將剛剛的 index.html 拖曳至此
2. 並重整網頁觀看結果



世界上最好的語言

Backend web language - PHP

簡介

Q : How mush is PHP ?



世界上最好的語言

Backend web language - PHP

簡介



簡介

- PHP : Hypertext Preprocessor 超文字預處理器
- OO : Object Oriented 物件導向
- Interpreted : 直譯



Hello World!

1. 再次打開 VS Code
2. 並創建檔案名為 index.php
3. 把檔案拖曳至 htdocs
4. 再次重整網頁觀看結果

```
index.php
1  <?php
2      echo "Hello, world!";
3  ?>
4
```

語法介紹

- 變數前加一個 \$
- echo
- if - elseif - else
- for

Saner string to number comparisons

[RFC](#)

PHP 7

```
0 == 'foobar' // true
```



PHP 8

```
0 == 'foobar' // false
```

語法介紹

- 註解
 - #
 - //
 - /* */

```
1  <?php
2      echo "Hello, world!";
3      # this is a comment
4      // it is a comment, too
5      /*
6          many comments
7      */
8  ?>
```

世界上最好的語言

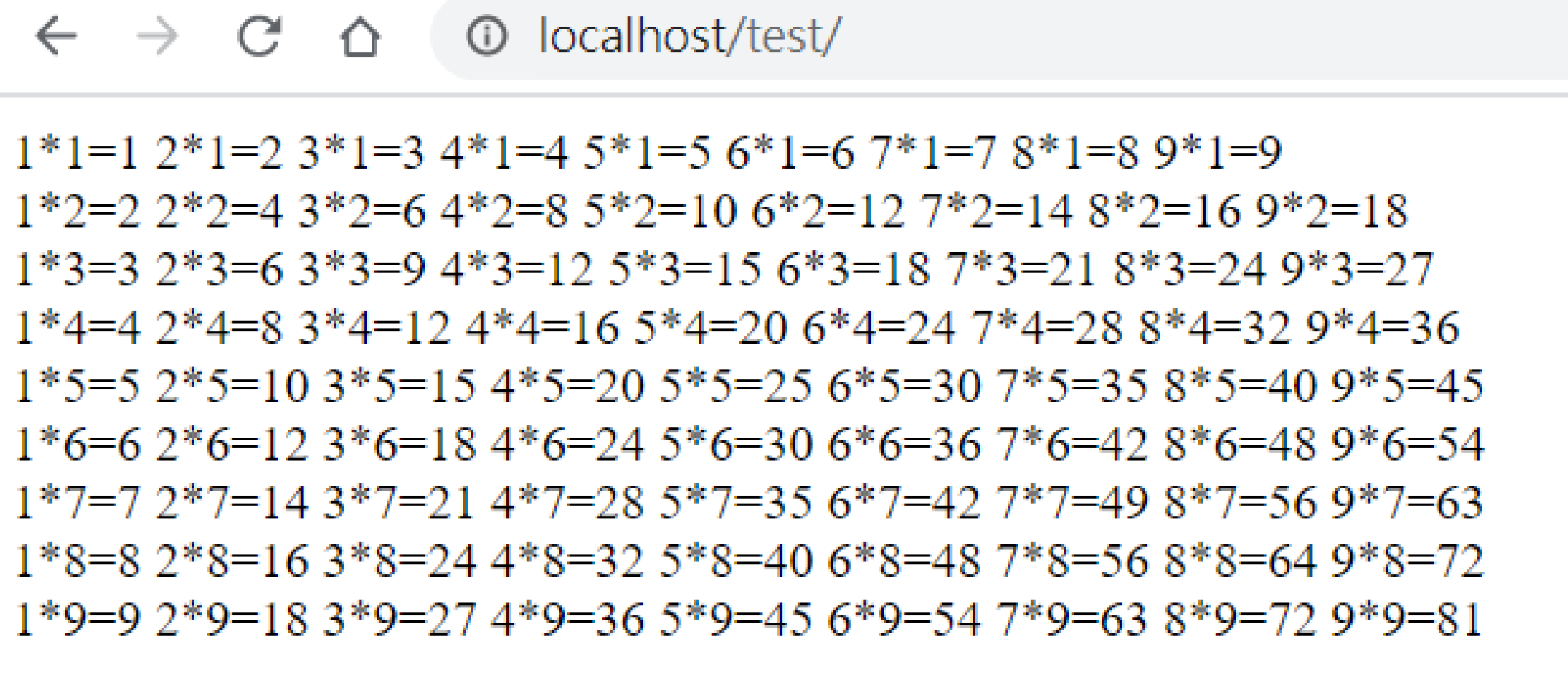
Backend web language - PHP

語法介紹

- 迴圈
 - for
 - while

```
1  <?php
2      for ($i=0;$i<10;$i++) {
3          echo "hi";
4      }
5      echo "<br>";
6
7      $i = 0;
8      while ($i < 10) {
9          echo "hi";
10         $i++;
11     }
12  ?>
```

小練習



```
← → ↻ 🏠 ⓘ localhost/test/  
1*1=1 2*1=2 3*1=3 4*1=4 5*1=5 6*1=6 7*1=7 8*1=8 9*1=9  
1*2=2 2*2=4 3*2=6 4*2=8 5*2=10 6*2=12 7*2=14 8*2=16 9*2=18  
1*3=3 2*3=6 3*3=9 4*3=12 5*3=15 6*3=18 7*3=21 8*3=24 9*3=27  
1*4=4 2*4=8 3*4=12 4*4=16 5*4=20 6*4=24 7*4=28 8*4=32 9*4=36  
1*5=5 2*5=10 3*5=15 4*5=20 5*5=25 6*5=30 7*5=35 8*5=40 9*5=45  
1*6=6 2*6=12 3*6=18 4*6=24 5*6=30 6*6=36 7*6=42 8*6=48 9*6=54  
1*7=7 2*7=14 3*7=21 4*7=28 5*7=35 6*7=42 7*7=49 8*7=56 9*7=63  
1*8=8 2*8=16 3*8=24 4*8=32 5*8=40 6*8=48 7*8=56 8*8=64 9*8=72  
1*9=9 2*9=18 3*9=27 4*9=36 5*9=45 6*9=54 7*9=63 8*9=72 9*9=81
```

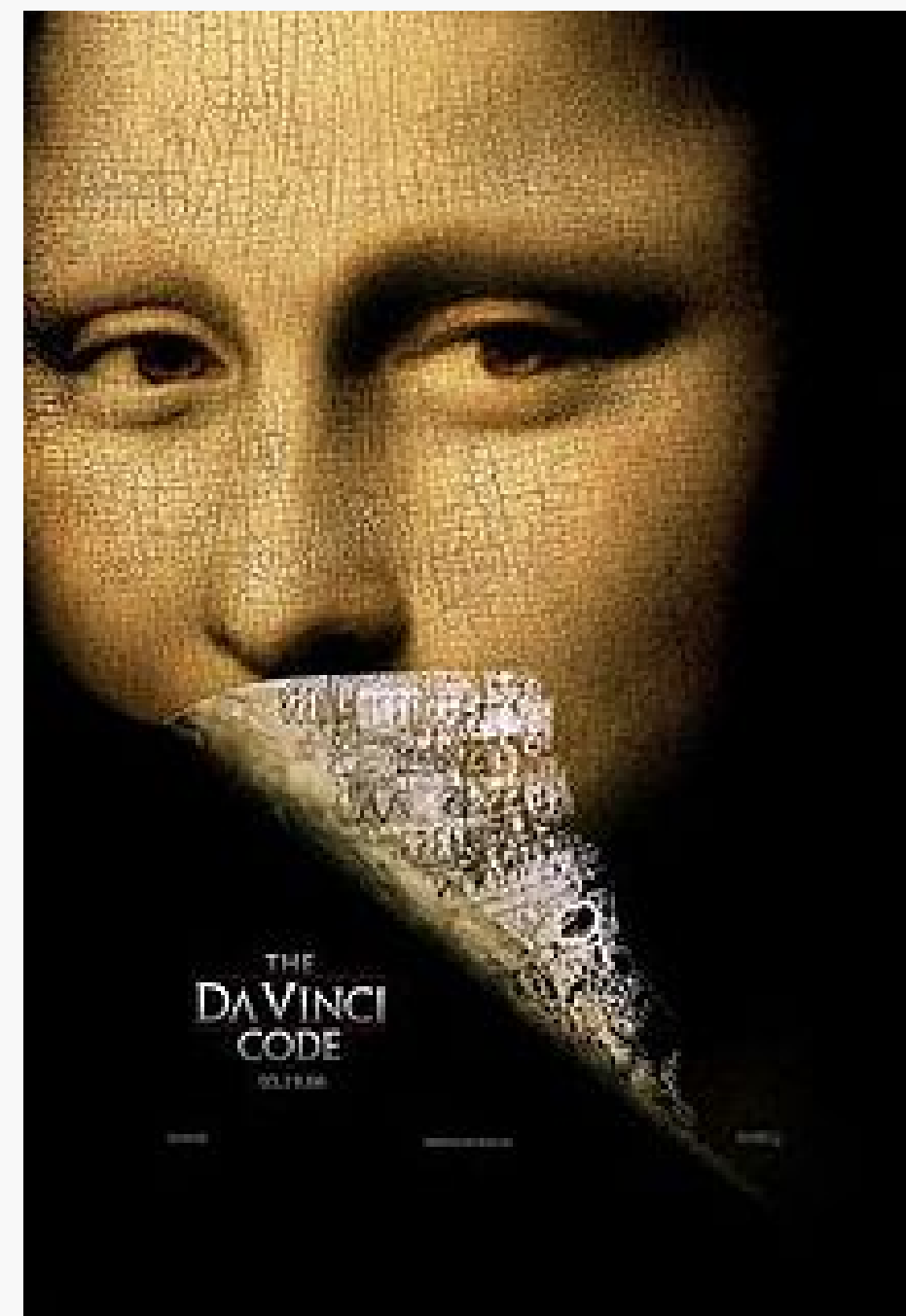
試寫一個九九乘法表並顯示在網頁

登入系統

Q：達文西密碼的上面是什麼？

世界上最好的語言

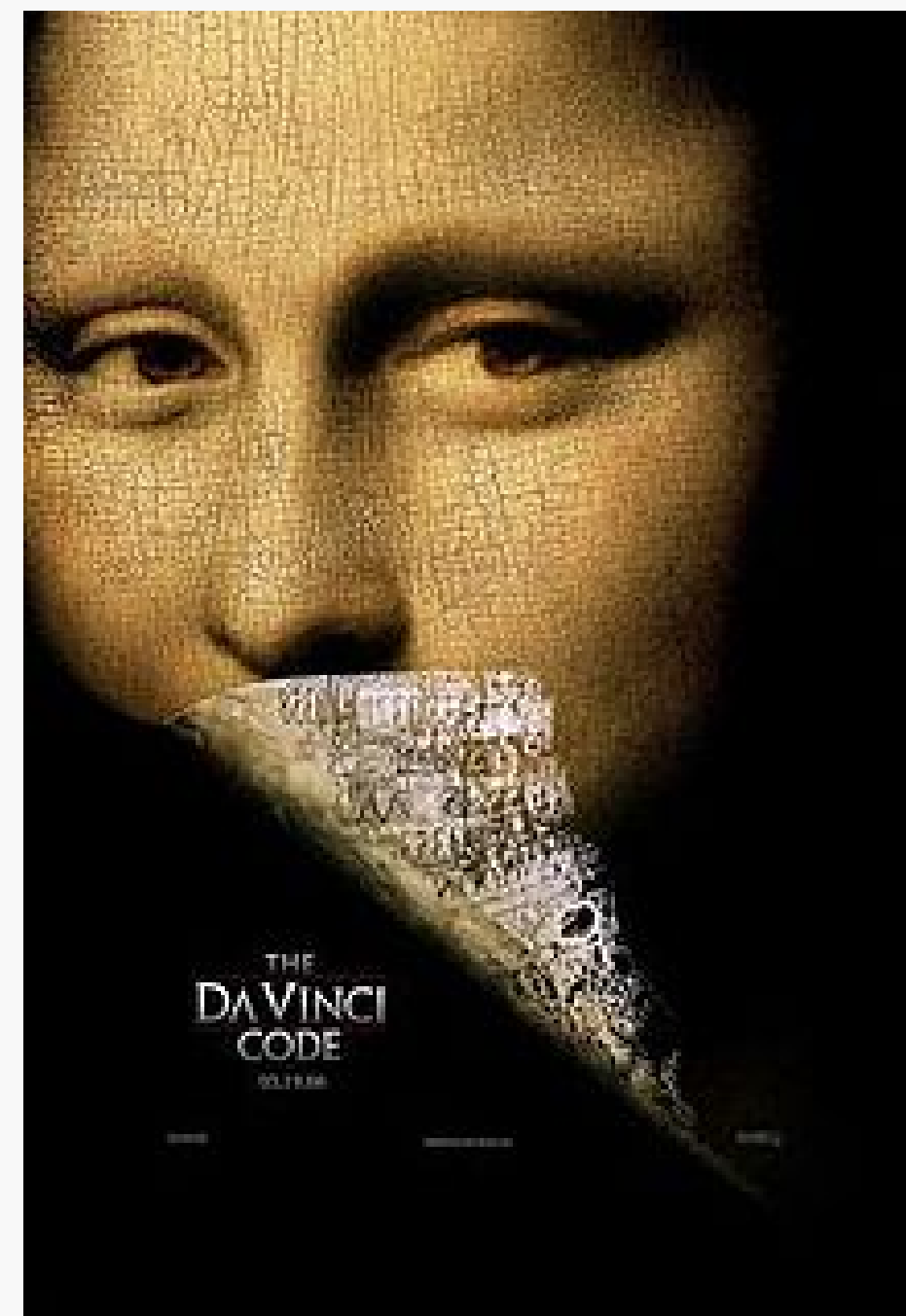
Backend web language - PHP



登入系統

A：達文西帳號！

Q：那達文西密碼下面呢？



登入系統

A：送出 / 登入

你 / 妳答對了嗎？

帳號：

密碼：

送出

GET V.S. POST

- HTTP request method : HTTP 請求方法
- 其實還有很多種，但暫不介紹
- html 傳輸資料可用 `<form></form>` 標籤

```
7      <form action="check.php" method="get">
8          帳號：<input type="text" name="username"><br>
9          密碼：<input type="password" name="password"><br>
10         <button type="submit" name="submit">送出</button>
11     </form>
```

GET

- 通常用來傳輸較不重要的資料
- 因為資料可在前端被看到

← → ↻ 🏠 ⓘ localhost/test/check.php?username=87&password=yourpasswordisseen&submit=

GET 實際例子

- 還記得嗎？

3月14日(日)

<line://app/1654206673-P3MaRNpN?type=text&text=%E9%82%84%E9%9C%80%E8%A6%81%E9%81%B8%E5%97%8E%E5%98%9B%EF%BC%8C%E7%95%B6%E7%84%B6%E6%98%AF%E6%88%91%E5%95%8A%EF%BC%81>

上午 10:25

POST

- 通常用來傳輸較重要的資料
- 例如帳號、密碼

← → ↻ 🏠 ⓘ localhost/test/check.php

87

youcantseemypassword

驗證帳號密碼

- 帳號要對
- 密碼要對
- 帳號和密碼不能是空白的

```
1  <?php
2  if ( 帳號不能空 && 密碼不能空 ) {
3      if ( 帳號是 abc && 密碼是123 ) {
4          echo "歡迎回來！";
5      }
6      else {
7          echo "帳號或密碼錯誤...";
8      }
9  }
10 else {
11     echo "帳號或密碼不能為空！";
12 }
13 ?>
```

問題來了！

Q：今天義加加要登入，北極熊也要登入，但是程式碼只有一組帳密，那該怎麼辦？

問題來了！

- 龍哥：暴力解？

```
1 <?php
2     $username = $_POST['username'];
3     $password = $_POST['password'];
4     if ( !empty($username) && !empty($password) ) {
5         if ( $username == "abc" && $password == "123" ) {
6             echo "歡迎回來！義加加";
7         }
8         elseif ( $username == "polar" && $password == "bear" ) {
9             echo "歡迎回來！北極熊";
10        }
11    else {
12        echo "帳號或密碼錯誤...";
13    }
14 }
15 else {
16     echo "帳號或密碼不能為空！";
17 }
18 ?>
```

問題又來了！

Q：那嘉義大學資訊工程學系的學生要登入這個系統呢？

妥善使用工具

A：不要再使用暴力解了，來學資料庫吧！

哪裡看的到我？

Where to find me ?



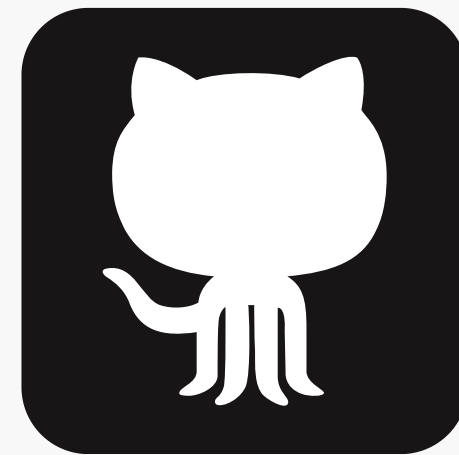
Facebook

葉宗義



Instagram

@1010.0110.0110



Github

@qaz5823091

