



# HTML, CSS, JavaScript

講師：陳琨  
2016 計算機概論



古有隆中對、今有德田談

# 三足鼎立



計算機概論

# 上古時期

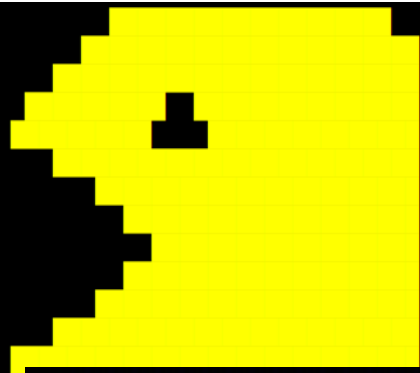


想上網？請先準備一條電話線、數據機



# 那些年，我們一起玩的BBS

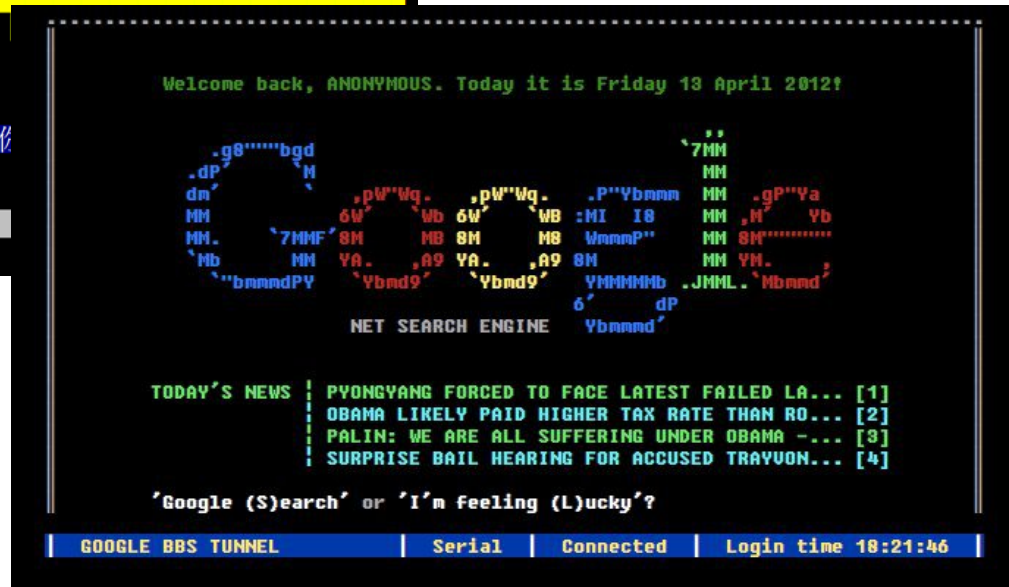
# Hello, World!



歷史悠久的批踢踢  
另類台灣之光

活動：臺大資訊之夜--Hello,World 你好,世界  
時間&地點：5/24 18:00 @臺大活大禮堂  
粉專：<http://ppt.cc/MjLLt>  
網站：<https://night2016.csie.org/>  
歡迎來到批踢踢實業坊，現在有【53001】人跟從

請輸入代號，或以 guest 參觀，或以 new 註冊：



上古時期的上網情境模擬

<http://www.masswerk.at/googleBBS/images/>



## 計算機概論



# 中原霸主 HTML

Hyper Text Markup Language

是一種**標記語言**  
(markup language)

簡單說

就是一個記錄**圖片**或**文字**要怎麼顯示的語言

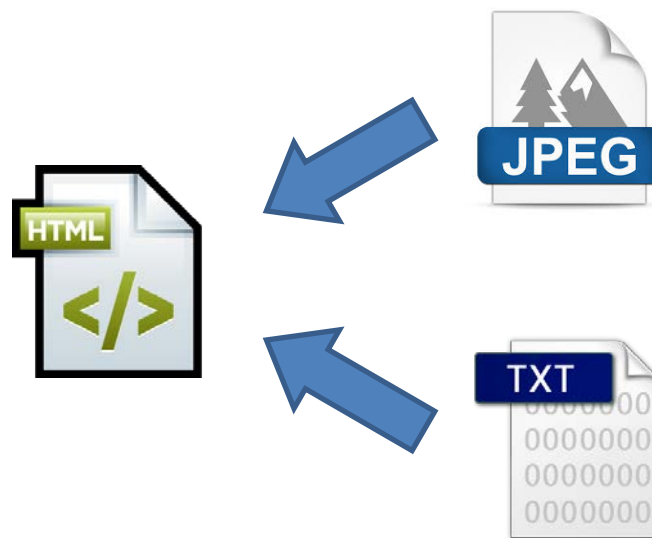
2014 → HTML 5.0

1997/12 → HTML 4.0

1997/1 → HTML 3.2

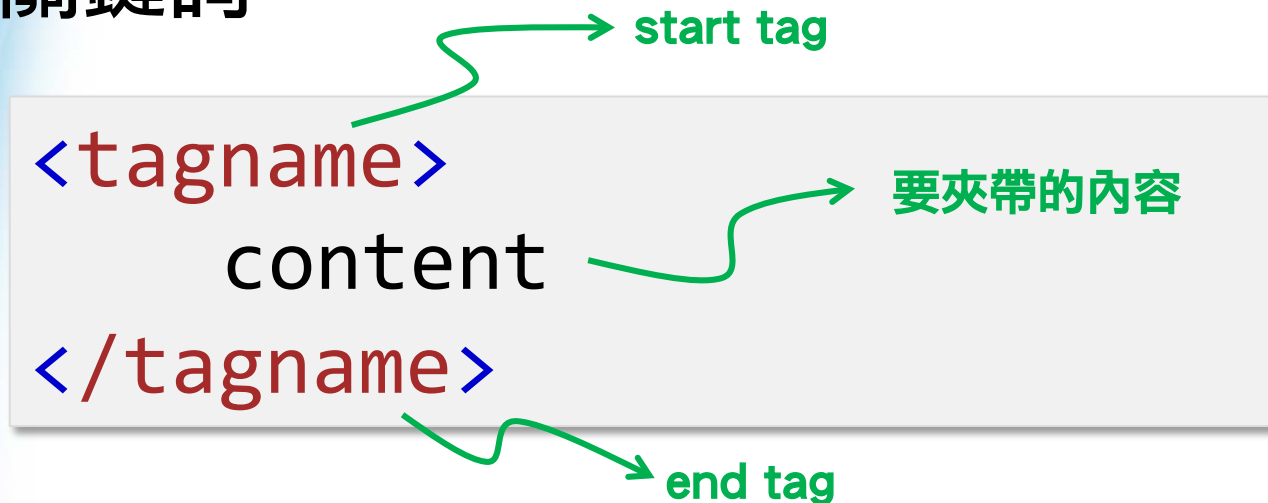
1995 → HTML 2.0

1989 → HTML 誕生



# HTML tag

- 標籤 tag 是由**尖括號** (angle bracket) 包圍的**關鍵詞**

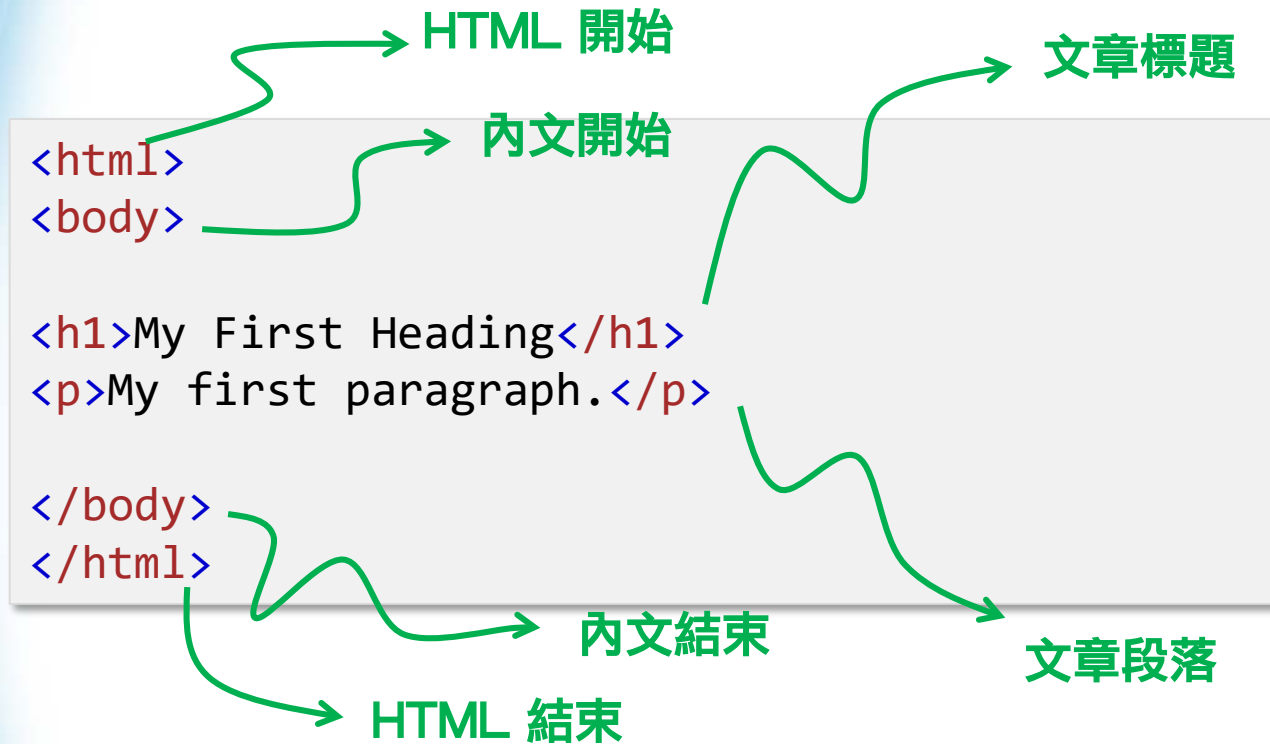


- 每個 tag 都它代表的**意思**



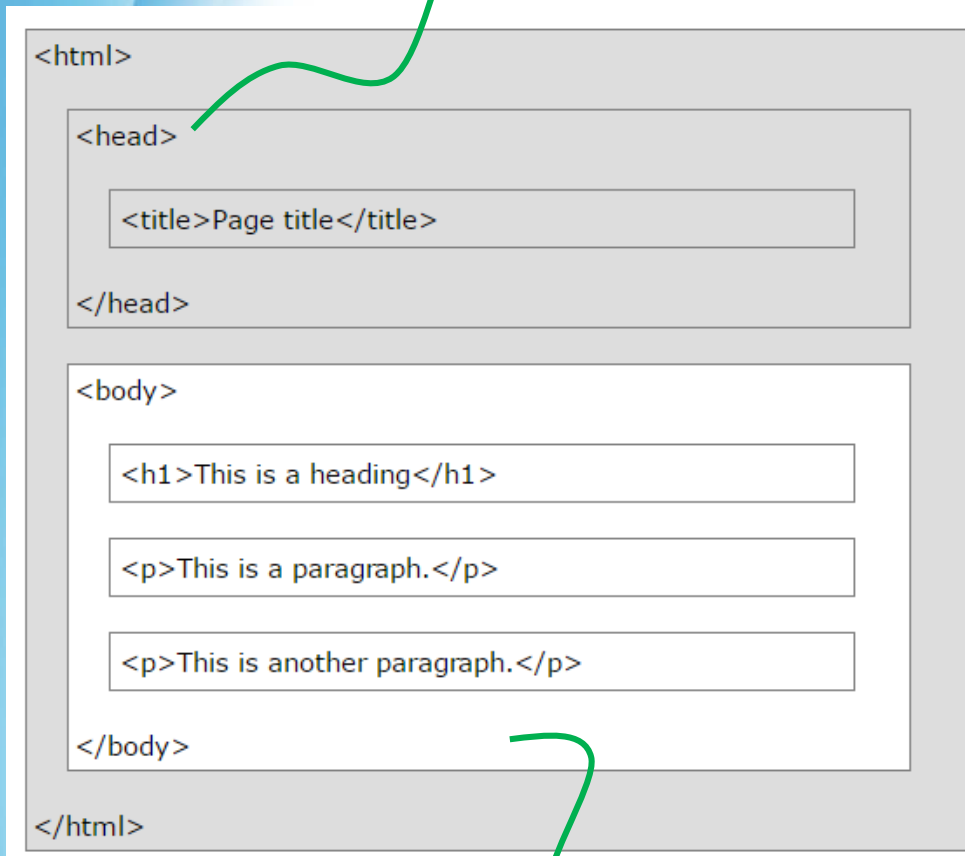
# HTML Elements

- HTML 元件 (Elements)，是由**開始標籤**到**結束標籤**之間的內容



# HTML Page Structure

head 標籤是放入要與瀏覽器構通的訊息，不會顯示



```
...<!DOCTYPE html> == $0
<html lang="zh-Hant-TW">
  <head>
    <meta charset="UTF-8">
    <title>標題</title>
  </head>
  <body>
    內文
  </body>
</html>
```

body 標籤是要顯示在網頁的內容





# 其它常見 tag

<br>：文字斷行

<h1></h1>~<h6></h6>：標題1~標題6

<p></p>：段落

<blockquote></blockquote>：引文

<strong></strong>：重點（加粗）

<em></em>：強調（斜線）

<hr>：水平分隔線

<ol></ol>：有序號的列表

<ul></ul>：沒有序號的列表

<li></li>：列表的項目



# HTML Links - Hyperlinks

- 標籤 a 表示連結，或超連結，可以連到另一個網頁

```
<a href="url">Link text</a>
```

要顯示的文字

要連結的網址

Tag a 的屬性，每個HTML元件都會有自己的屬性值



# HTML Images

- 試試看放入一張照片

```

```

要顯示的圖檔

設定要顯示圖檔長寬  
單位預設是 px

當影像無法顯示時要顯示的文字



- 試試看放入100張照片





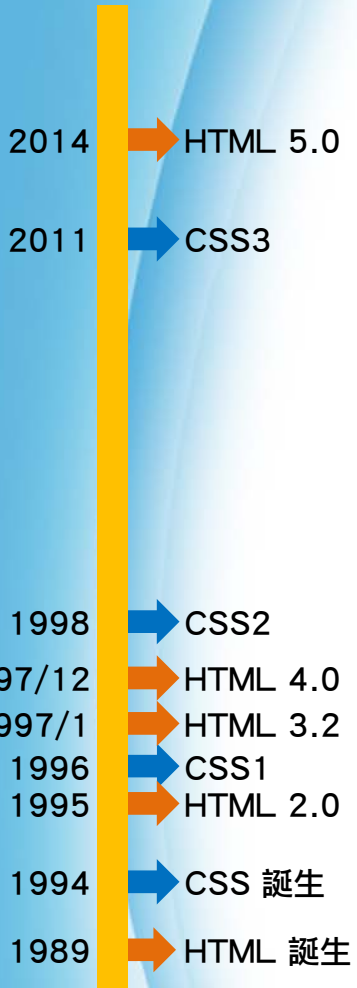
# 新勢力崛起 CSS

## Cascading Style Sheets

一種用來為結構化文件添加樣式  
電腦語言

### 簡單說

就是一種用來為HTML添加樣式的語法



# 簡單修改樣式

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<style>
```

```
img {  
    width:128px;  
}
```

```
</style>
```

```
</head>
```

```
<body>
```

```

```

```

```

```
...
```

```

```

```
</body>
```

```
</html>
```

CSS style tag

宣告之後所有 img tag，都有 style="width:128px;" 的屬性

還是要打100行啊



# 第三勢立 JavaScript



原名為 LiveScript，為了與昇陽合作，搭上 Java 的順風車，改名為 JavaScript

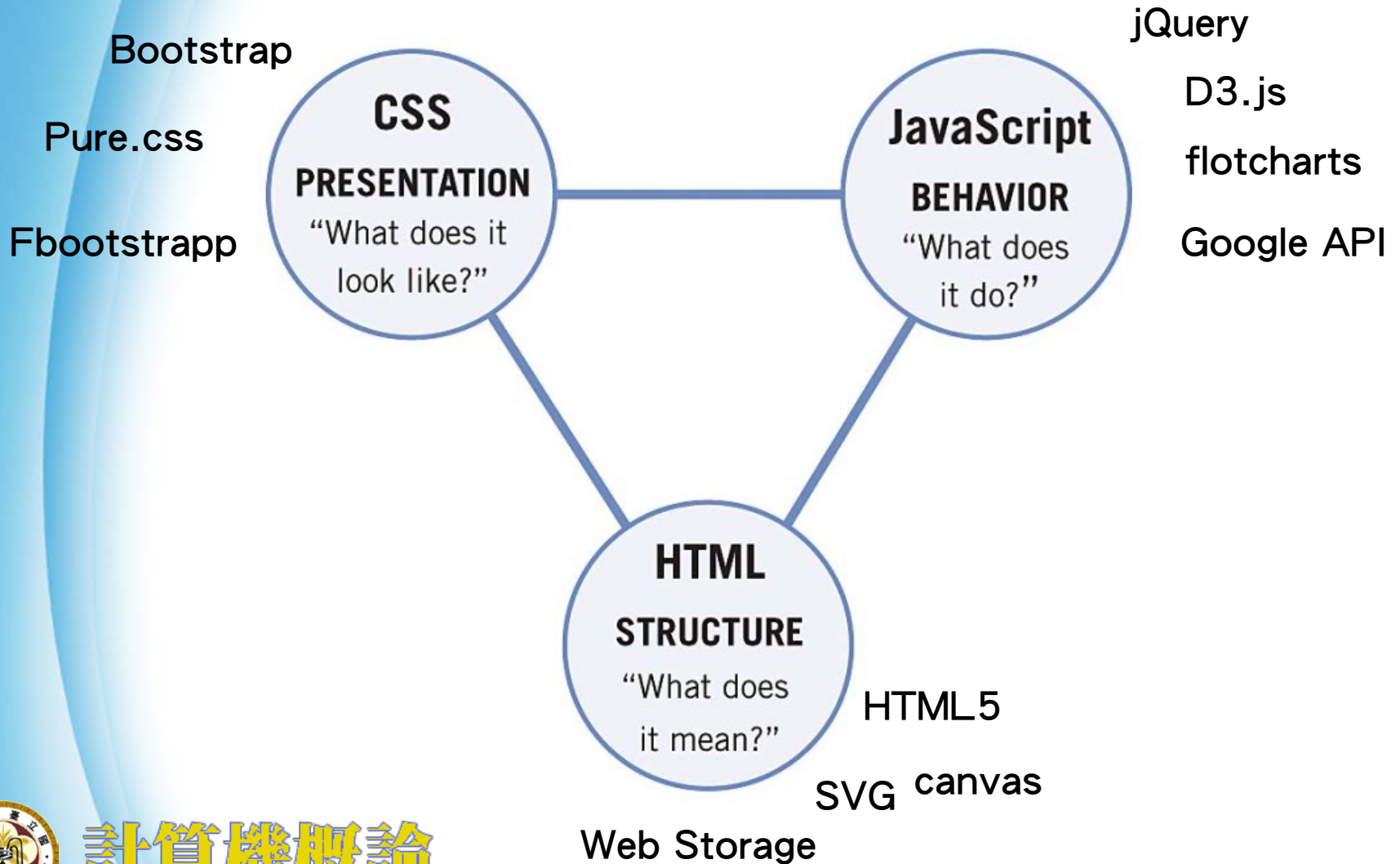
## 簡單說

就是一種用來為控制HTML與CSS的程式語言

- 2014 → HTML 5.0
- 2011 → CSS3
- 1998 → CSS2
- 1997/12 → HTML 4.0
- 1997/1 → HTML 3.2
- 1996 → CSS1
- 1995 → HTML 2.0
- 1995 → JavaScript
- 1994 → CSS 誕生
- 1989 → HTML 誕生



# 三足鼎立



# 更多的語法

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w3schools.com

<http://www.w3schools.com>

**Bootstrap**

<http://getbootstrap.com/>



<https://jquery.com/>





教學範例或小功能隨時試一下

# 幾個免費的線上編輯器



計算機概論

# CodePen

<http://codepen.io/>

**THREE Image Transition**  
A PEN BY Szenia Zadvornykh

Fork Settings Change View Log In Sign Up

**HTML** Tidy ×

```
1 <div id="three-container"></div>
2
3 <div id="instructions">
4   click and drag to control the
   animation
```

**CSS** Tidy ×

```
1 body {
2   margin: 0;
3   overflow: hidden;
4 }
5
```

**JS** Tidy ×

```
1 window.onload = init;
2 console.warn = function() {}; //
  what warnings?
3
4 function init() {
```

click and drag to control the animation

Console Assets Embed Comments Shortcuts Share Export



計算機概論

<http://codepen.io/zadvorsky/pen/PNXbGo>

# JSFiddle

<https://jsfiddle.net/>

The screenshot displays the JSFiddle interface with several red annotations. On the left, the 'External libraries' section is circled in red. The top-left pane shows HTML code with a red circle around the `div id="chart_div"` attribute. The top-right pane shows CSS code with a red circle around the text. The bottom-left pane shows JavaScript code with a red circle around the `google.load("visualization", "1", { packages: ["annotatedtimeline"]});` line. The bottom-right pane shows a line chart with a red circle around it, labeled 'Output!'. The chart displays a blue line representing sentiment data over time, with several points labeled A through H. The x-axis shows years from 2000 to 2002, and the y-axis shows sentiment values from -0.10 to 0.75.



# JS Bin

<http://jsbin.com/>

The screenshot shows the JS Bin website interface. The browser address bar displays `jsbin.com/lavivo/edit?html,css,js,output`. The page is divided into three main sections: HTML, CSS, and JavaScript. The HTML section contains a Bootstrap 3.3.4 template with a title "2015 計算機概論". The CSS section defines a two-column layout with padding and a light blue background. The JavaScript section defines a `showImg` function that toggles the visibility of an image based on the index of a button click. The Output section shows the rendered web page with four buttons labeled "按鈕一" through "按鈕四". The "按鈕一" and "按鈕二" buttons are blue, while "按鈕三" is green and "按鈕四" is red. A small photo of a group of people is visible at the bottom of the preview, with the text "kchen-tw 3 Jun 2015" overlaid.

計算機概論



<http://jsbin.com/lavivo/>

GitHub Pages

# 網頁空間



計算機概論

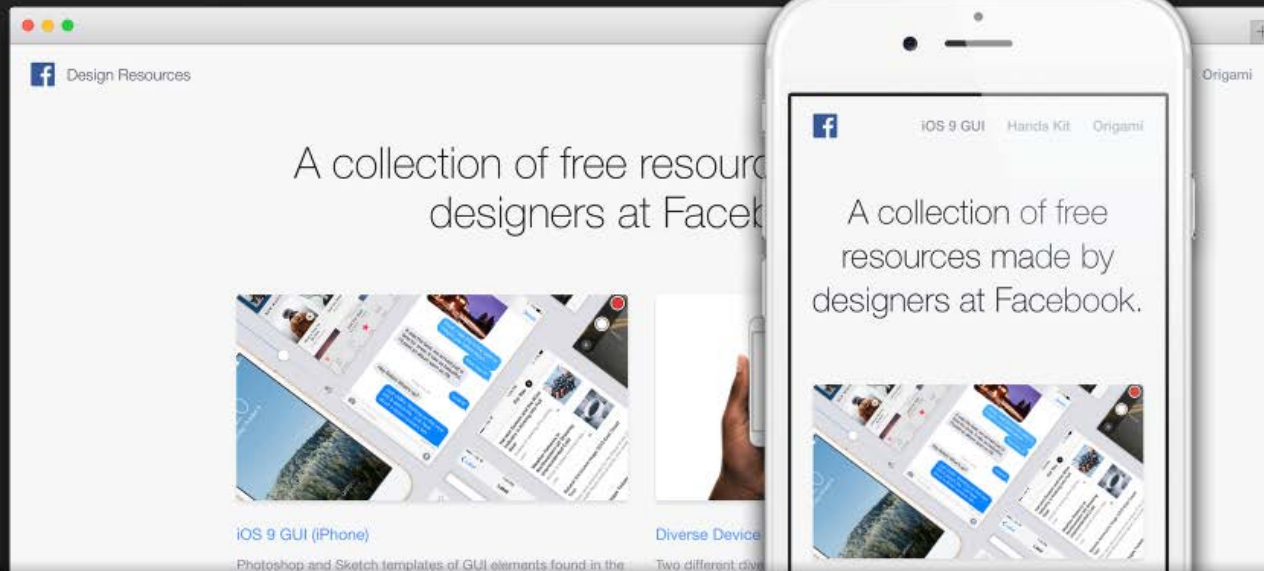
# GitHub Pages

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

GitHub Pages

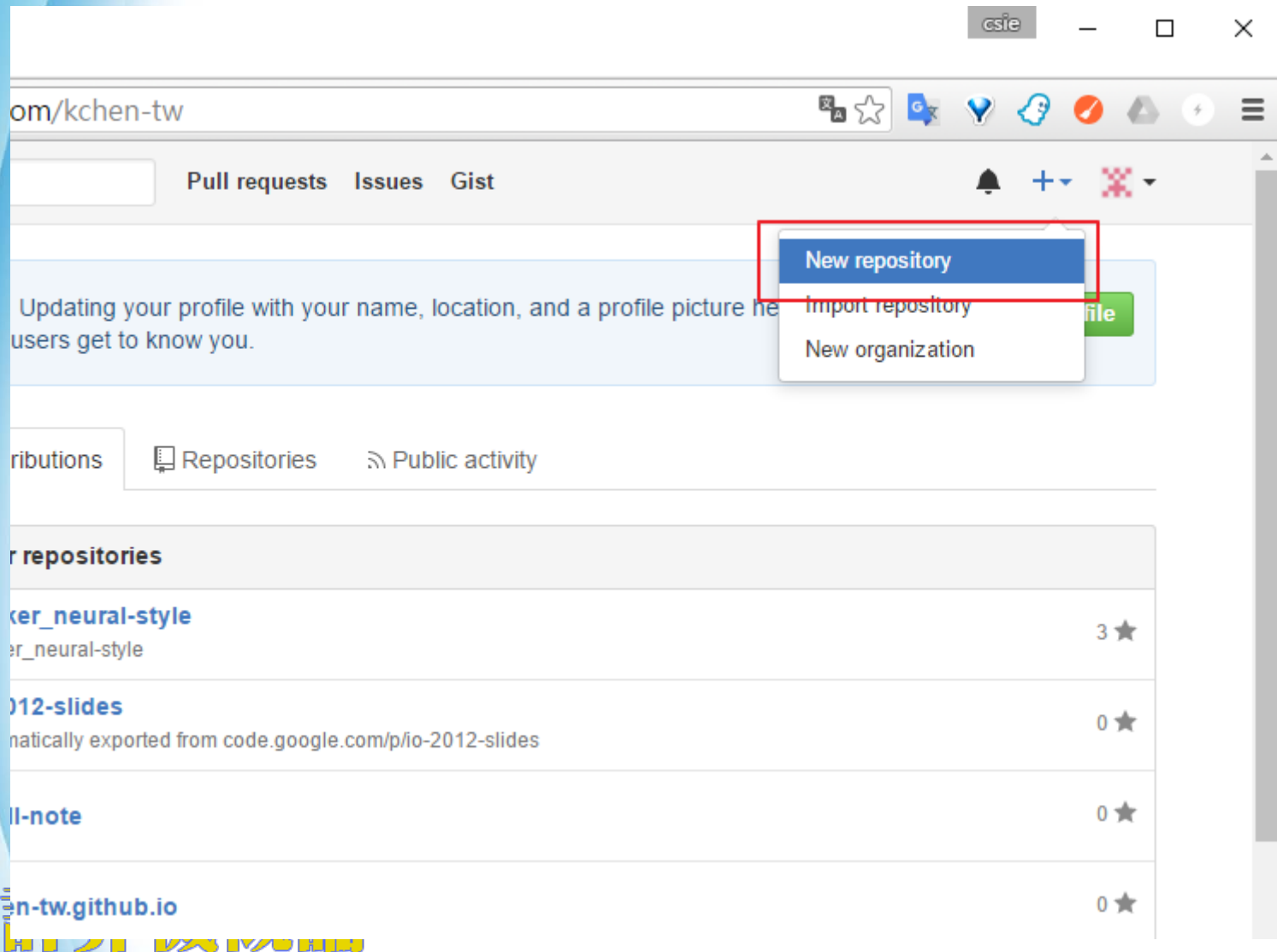
## Websites for you and your projects.

Hosted directly from your [GitHub repository](#). Just edit, push, and your changes are live.





# 建立一個新的 repository



The image shows a screenshot of a web browser window displaying a GitHub profile page. The browser's address bar shows the URL "om/kchen-tw". The page header includes navigation links for "Pull requests", "Issues", and "Gist". A dropdown menu is open, showing three options: "New repository" (highlighted in blue), "Import repository", and "New organization". The main content area shows a profile update notification and a list of repositories. The repository list includes:

Repository Name	Stars
ker_neural-style	3 ★
012-slides	0 ★
ll-note	0 ★
n-tw.github.io	0 ★



# 新增 [username].github.io

- 這裡的 [username] 是你登入 github 的帳號名稱
  - Ex: kchen-tw.github.io

Create a new repository

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

Owner: kchen-tw / Repository name: kchen-tw.github.io ✓

Great repository names are short and memorable. Need inspiration? How about `symmetrical-octo-bassoon`.

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: MIT License ⓘ

Create repository

可以選擇授權



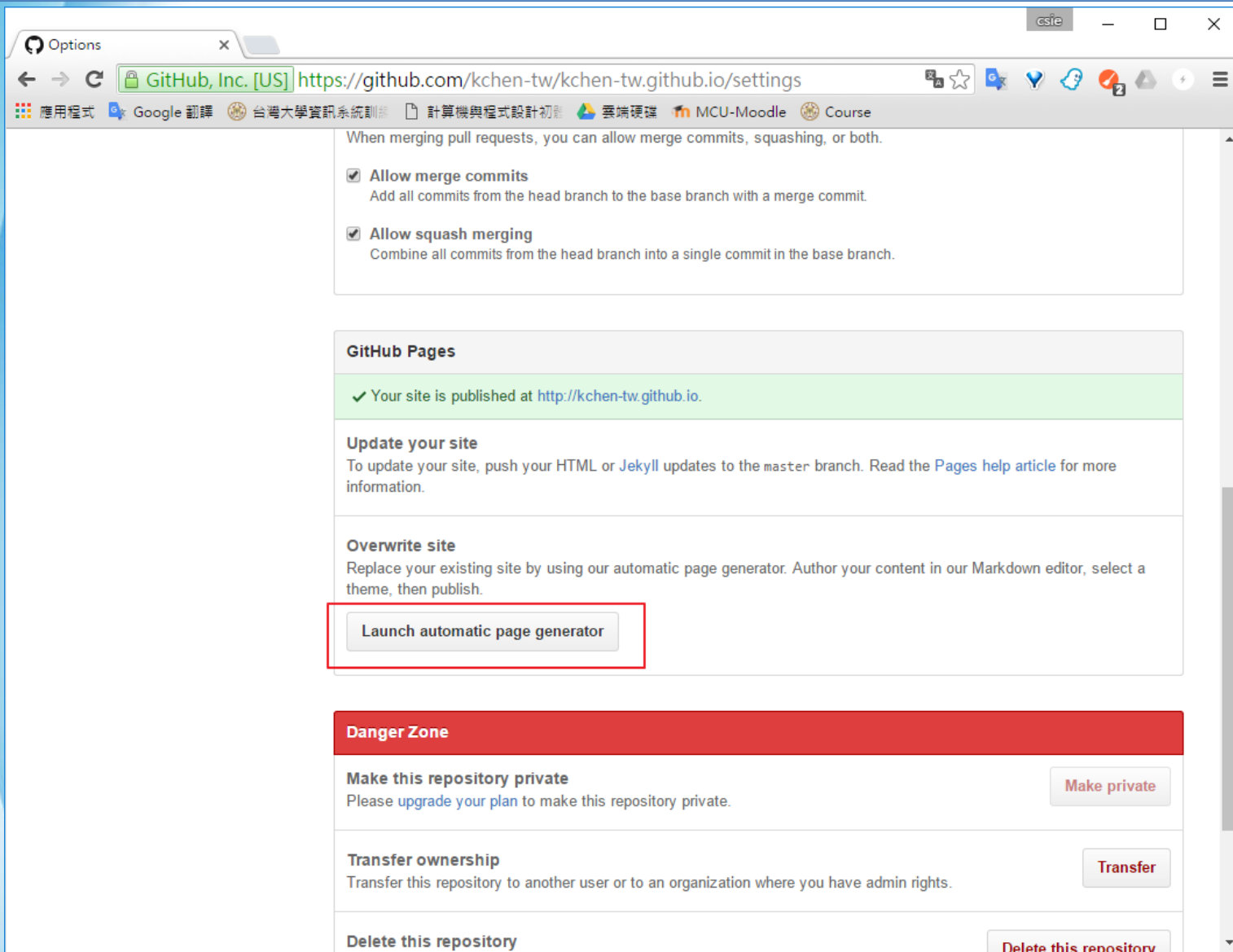


# 進入設定

The screenshot shows a web browser window displaying the GitHub repository page for 'kchen-tw/kchen-tw.github.io'. The browser's address bar shows the URL 'https://github.com/kchen-tw/kchen-tw.github.io'. The repository page includes navigation links for 'Pull requests', 'Issues', and 'Gist'. The repository name 'kchen-tw / kchen-tw.github.io' is displayed, along with statistics for 'Unwatch' (1), 'Star' (0), and 'Fork' (0). A navigation bar contains links for 'Code', 'Issues' (0), 'Pull requests' (0), 'Wiki', 'Pulse', 'Graphs', and 'Settings', with the 'Settings' link highlighted by a red circle. Below the navigation bar, there is a message 'No description or website provided. — Edit'. A summary bar shows '1 commit', '1 branch', '0 releases', and '1 contributor'. A toolbar includes options for 'Branch: master', 'New pull request', 'New file', 'Upload files', 'Find file', 'HTTPS', and 'Download ZIP'. A commit history section shows 'kchen-tw Initial commit' with the latest commit 'dd6852a a minute ago'. A 'LICENSE' file is also listed. A blue box at the bottom of the repository content area contains the text 'Help people interested in this repository understand your project by adding a README.' and a green 'Add a README' button. The footer of the page includes copyright information for GitHub, Inc. and various links like 'Terms', 'Privacy', 'Security', 'Contact', 'Help', 'Status', 'API', 'Training', 'Shop', 'Blog', and 'About'.



# 自動產生預設網頁



The screenshot shows the GitHub repository settings page for the repository `kchen-tw/kchen-tw.github.io`. The page is titled "Options" and displays various settings for the repository. The "Merge pull requests" section is expanded, showing options for "Allow merge commits" and "Allow squash merging", both of which are checked. The "GitHub Pages" section is also expanded, showing that the site is published at `http://kchen-tw.github.io`. The "Update your site" section provides instructions on how to update the site by pushing HTML or Jekyll updates to the master branch. The "Overwrite site" section is highlighted with a red box, and the "Launch automatic page generator" button is also highlighted with a red box. The "Danger Zone" section is visible at the bottom, containing options to "Make this repository private", "Transfer ownership", and "Delete this repository".

Options

GitHub, Inc. [US] <https://github.com/kchen-tw/kchen-tw.github.io/settings>

應用程式 Google 翻譯 台灣大學資訊系統訓練 計算機與程式設計初階 雲端硬體 MCU-Moodle Course

When merging pull requests, you can allow merge commits, squashing, or both.

- Allow merge commits**  
Add all commits from the head branch to the base branch with a merge commit.
- Allow squash merging**  
Combine all commits from the head branch into a single commit in the base branch.

### GitHub Pages

✓ Your site is published at <http://kchen-tw.github.io>.

#### Update your site

To update your site, push your HTML or [Jekyll](#) updates to the master branch. Read the [Pages help article](#) for more information.

#### Overwrite site

Replace your existing site by using our automatic page generator. Author your content in our Markdown editor, select a theme, then publish.

**Launch automatic page generator**

### Danger Zone

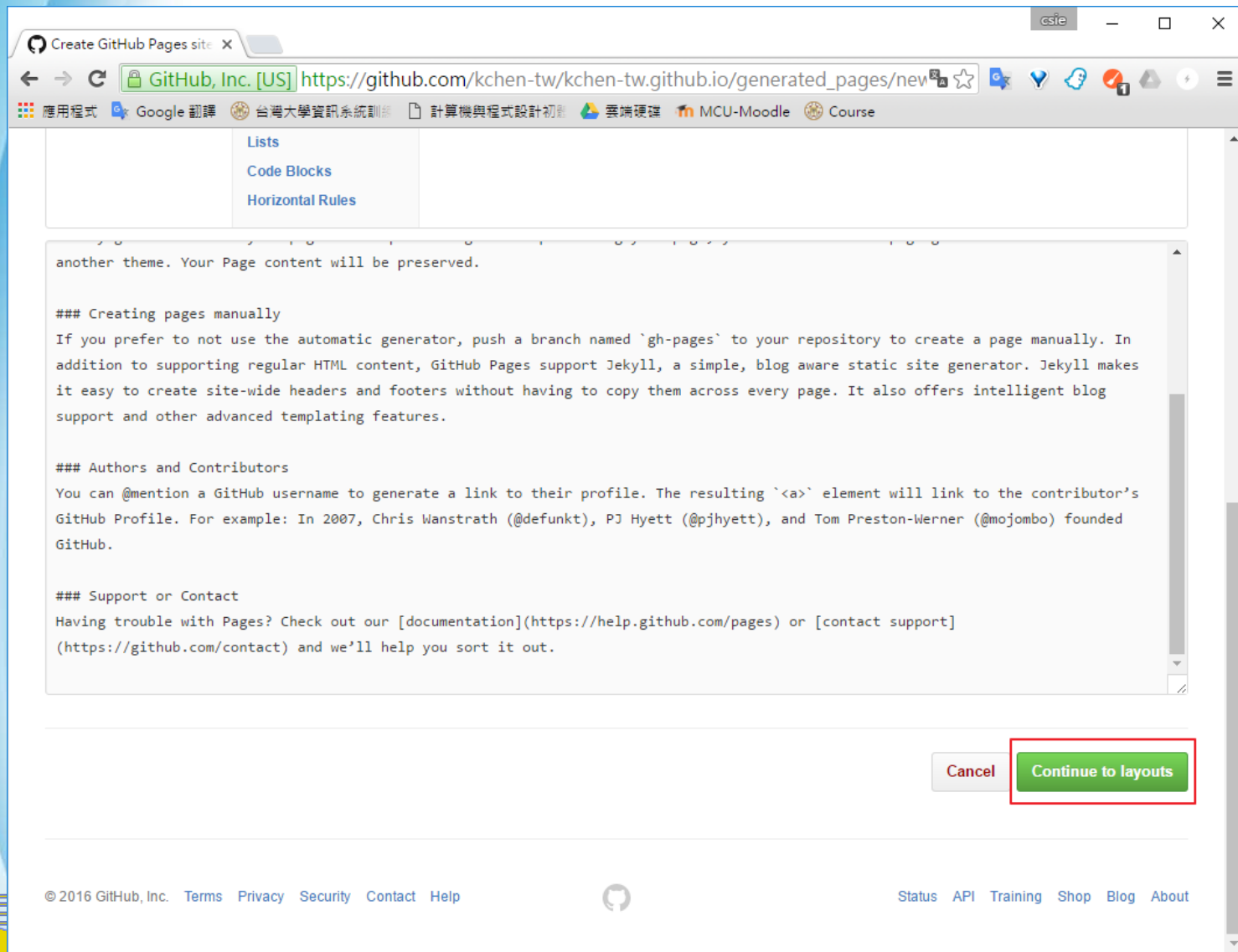
**Make this repository private**  
Please [upgrade your plan](#) to make this repository private. [Make private](#)

**Transfer ownership**  
Transfer this repository to another user or to an organization where you have admin rights. [Transfer](#)

**Delete this repository** [Delete this repository](#)



# 確定預設顯示內容後繼續設定



The screenshot shows a web browser window titled "Create GitHub Pages site". The address bar displays the URL: [https://github.com/kchen-tw/kchen-tw.github.io/generated\\_pages/new](https://github.com/kchen-tw/kchen-tw.github.io/generated_pages/new). The page content includes a sidebar with "Lists", "Code Blocks", and "Horizontal Rules" options. The main content area shows a preview of the site's default content, including a heading "another theme. Your Page content will be preserved.", a section "### Creating pages manually" with explanatory text, a section "### Authors and Contributors" with a list of names, and a section "### Support or Contact" with links to documentation and support. At the bottom right, there are two buttons: "Cancel" and "Continue to layouts", with the latter highlighted by a red rectangular box. The footer contains copyright information for GitHub, Inc. and various links like Terms, Privacy, Security, Contact, Help, Status, API, Training, Shop, Blog, and About.



# 選擇預設的樣板

Choose a theme

GitHub, Inc. [US] [https://github.com/kchen-tw/kchen-tw.github.io/generated\\_pages/the](https://github.com/kchen-tw/kchen-tw.github.io/generated_pages/the)

應用程式 Google 翻譯 台灣大學資訊系統訓練 計算機與程式設計初階 雲端硬體 MCU-Moodle Course

MODERNIST  
A Theme for Code  
8546g@Philly\_World?  
Designed with a modern touch.

hack

Midnight

Architect

Tactile  
It just feels right.

Dinky  
A red hot theme.

Hide thumbnails

Edit Publish page

Kchen-  
tw.GitHub.io

Follow me on  
GitHub

/// Welcome to GitHub Pages.

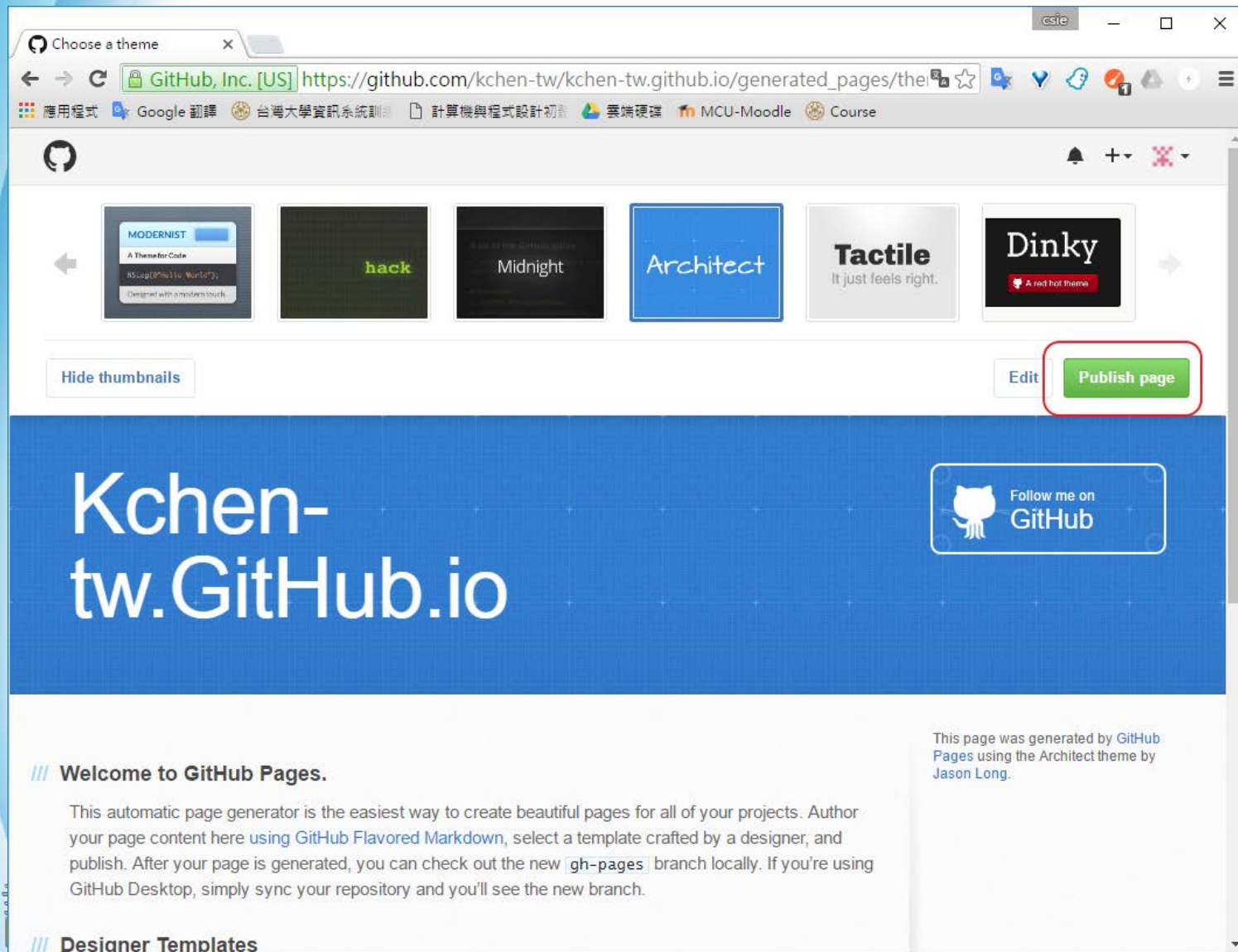
This automatic page generator is the easiest way to create beautiful pages for all of your projects. Author your page content here using [GitHub Flavored Markdown](#), select a template crafted by a designer, and publish. After your page is generated, you can check out the new `gh-pages` branch locally. If you're using GitHub Desktop, simply sync your repository and you'll see the new branch.

/// Designer Templates

This page was generated by GitHub Pages using the Architect theme by Jason Long.



# 最後發佈出去



The screenshot shows a web browser window displaying the GitHub Pages theme selection interface. The browser's address bar shows the URL `https://github.com/kchen-tw/kchen-tw.github.io/generated_pages/the`. The page title is "Choose a theme". The interface displays a row of theme thumbnails: "MODERNIST", "hack", "Midnight", "Architect" (highlighted in blue), "Tactile", and "Dinky". Below the thumbnails are buttons for "Hide thumbnails", "Edit", and "Publish page" (highlighted with a red box). The main content area features a blue background with the text "Kchen-tw.GitHub.io" and a "Follow me on GitHub" button. A footer section contains the text "Welcome to GitHub Pages." and "Designer Templates".

Choose a theme

GitHub, Inc. [US] `https://github.com/kchen-tw/kchen-tw.github.io/generated_pages/the`

MODERNIST  
A Theme for Code  
RSlog(Philo. World?)  
Designed with a modern touch.

hack

Midnight

Architect

Tactile  
It just feels right.

Dinky  
A red hot theme

Hide thumbnails

Edit

Publish page

# Kchen-tw.GitHub.io

Follow me on GitHub

### /// Welcome to GitHub Pages.

This automatic page generator is the easiest way to create beautiful pages for all of your projects. Author your page content here using [GitHub Flavored Markdown](#), select a template crafted by a designer, and publish. After your page is generated, you can check out the new `gh-pages` branch locally. If you're using GitHub Desktop, simply sync your repository and you'll see the new branch.

### /// Designer Templates

This page was generated by GitHub Pages using the Architect theme by Jason Long.





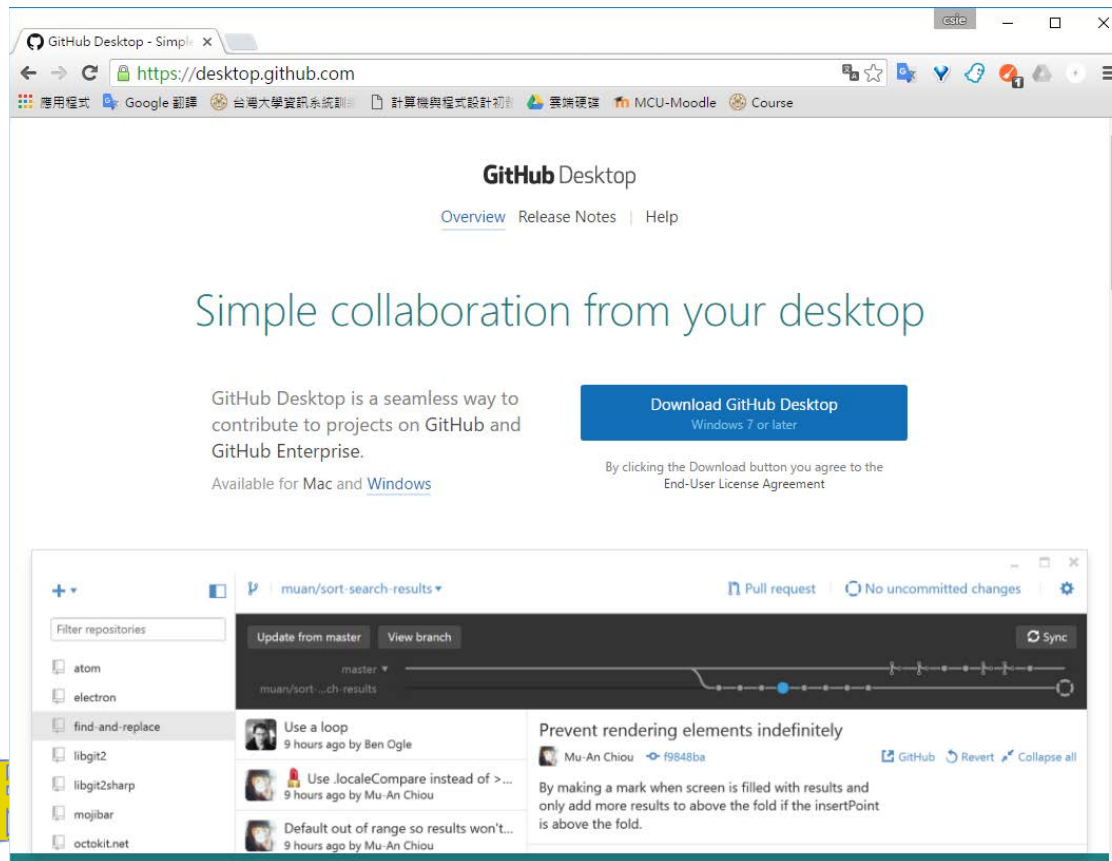
# 查查看自己的網址



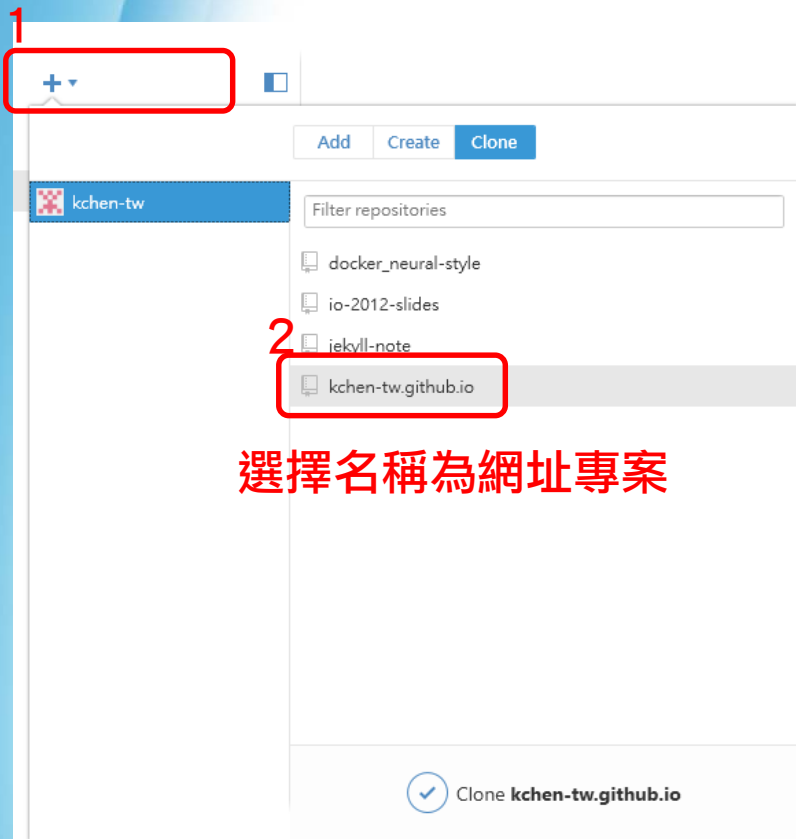
# 如何上傳?

借用 GitHub 的版本控制軟體，將新寫的網頁上傳到 GitHub 空間

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



# 安裝完，開啟GitHub



選擇名稱為網址專案



Can't find "Tutorial"

...a\Local\GitHub\TutorialRepository\_a66c3719071da6d865a984bb8d66fb5bcd775ec8\new-repo



Locate

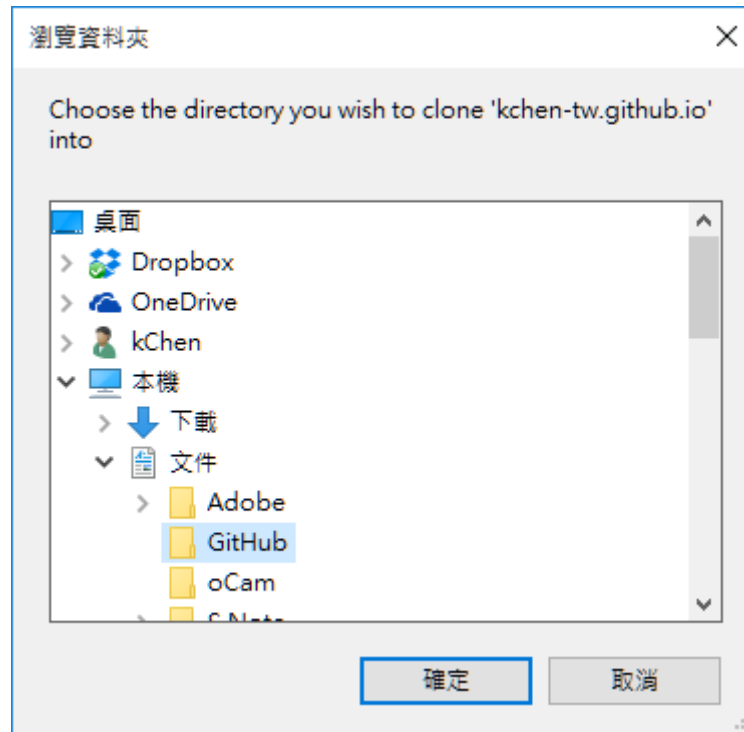


Remove





# 選擇要儲存的資料夾



# 試著新增一個文字檔

- 新增一個 Hello 的網頁，檔名為 Hello.html

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title>Document</title>
</head>
<body>
  Hello!!
</body>
</html>
```



# 將本機檔案和雲端檔案同步並上傳

The screenshot shows a Git client interface with the following elements:

- 1**: A red box highlights the **Sync** button in the top right corner of the window.
- 2**: A red box highlights the commit message input field, which contains the text "Hello example" and "this is commit test".
- 3**: A red box highlights the **Commit to master** button at the bottom of the interface.



# 測試一下



看到 Hello ，恭喜已經有個免費的網頁空間

