Install Anaconda or Miniconda

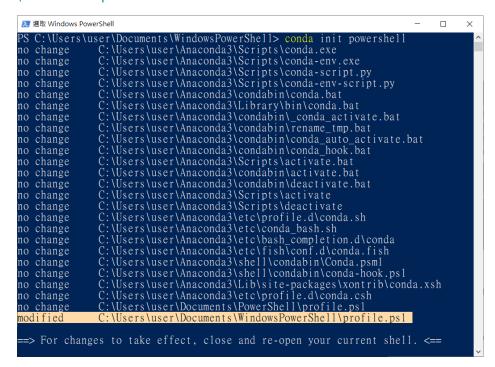
先要把 Anaconda 或 Miniconda 安裝好。

Set PowerShell to work properly

PowerShell 是微軟新一代的命令列工具,把它設定好, Vscode 會用到它。

Enable to use conda command in Powershell

\$>conda init powershell



Modify profile.ps1

The profile of Windows PowerShell is located in your Documents directory. The profile name is "profile.ps1"

"C:/Users/user/Documents/WindowsPowerShell/profile.ps1" 這個檔案自動產生, 位於你的文件夾中,我們要進一步修改它。

"user" is the user name in my PC.



Note:

If you install PowerShell 7, the profile of PowerShell 7 is located in your Documents directory:

"C:/Users/user/Documents/PowerShell/profile.ps1" 如果你安裝 PowerShell 7,設 定檔自動產生於此,卷夾名稱有一些不一樣。

The following commands will be automatically inserted into the profile. 打開此設定檔,你會看到以下內容:

#region conda initialize

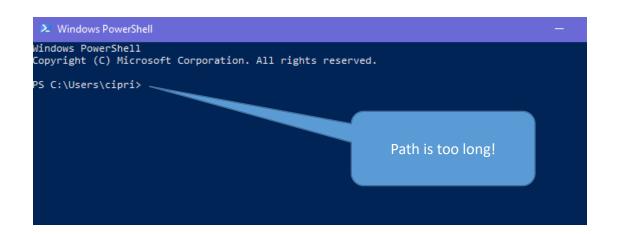
#!! Contents within this block are managed by 'conda init'!!

(& "C:\Users\user\Anaconda3\Scripts\conda.exe" "shell.powershell" "hook") | Out
String | Invoke-Expression

#endregion

2

Shorten Path in PowerShell 縮短顯示路徑



Modify profile.ps1

The profile of Windows PowerShell is in your documents directory. The full path is as follows:

"C:/Users/user_name/Documents/WindowsPowerShell/profile.ps1"

If the file doesn't exist, then create it. Then place the following function in front of the profile script.

新增這一段命令文字

```
function prompt {
    Write-Host $ExecutionContext.SessionState.Path.CurrentLocation -
ForegroundColor Cyan
    "$('>' * ($nestedPromptLevel + 1)) "
}
```

Your profile.ps1 will look like:

```
Now in the profile you will have the following scripts:
完整的內容如下:
這一段文字要寫在最前面才可以!
function prompt {
    Write-Host $ExecutionContext.SessionState.Path.CurrentLocation -
ForegroundColor Cyan
    "$('>'* ($nestedPromptLevel + 1)) "
}

#region conda initialize
#!! Contents within this plock are managed by 'conda init'!!
```

(& "C:\Users\user\Anaconda3\Scripts\conda.exe" "shell.powershell" "hook") | Out-

Notice: the "function prompt" script should be placed before the "region conda initialize."

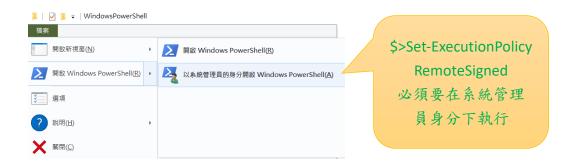
function prompt 必須要放在 conda initialize 之前,否則視窗畫面無法顯示虛擬環境的名稱,雖可運作,但有小瑕疵。

Set execution policy to "RemoteSigned"

Do you get the following message when opening PowerShell?

Update the PowerShell execution policy on the system to allow the script to run. In the PowerShell window, enter set-executionpolicy RemoteSigned. The system will prompt to confirm the change. Enter the letter Y or press the enter key to change the execution policy setting.

\$>Set-ExecutionPolicy RemoteSigned



「執行原則」有下列 4 種:

Restricted : 關閉腳本檔的執行功能,這是預設的設定值。

AllSigned : 只允許執行受信任發行者簽署過的腳本檔。

RemoteSigned : 在本機電腦所撰寫的腳本檔,不需要簽署就可執行;但是從網際網路(例如:email、MSN Messenger)下載的腳本檔就必須經過受信任發行

者的簽署才能執行。

Unrestricted : 任何腳本檔皆可被執行,但是於執行網際網路下載的腳本檔時, 會先出現警告的提示視窗。

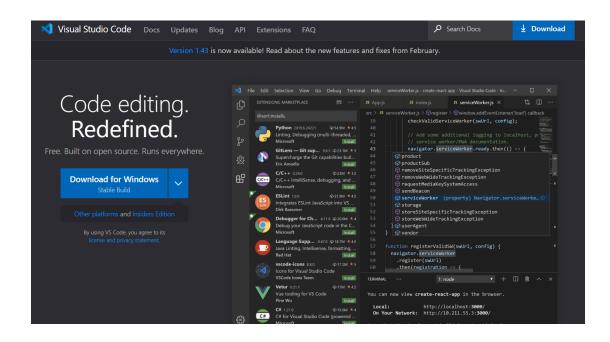
我們可以先利用 Get-ExecutionPolicy 來確認系統目前的指令檔執行限制為何: Get-ExecutionPolicy

Check up the PowerShell execution policy on the system:

\$>Get-ExecutionPolicy

VS Code Installation

VS Code is one of the best Editor in the world.

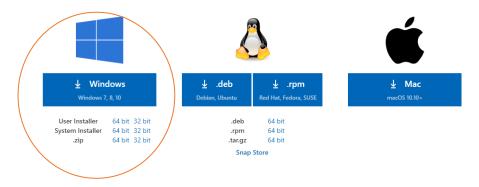


到官網下載軟體 https://code.visualstudio.com/



Download Visual Studio Code

Free and built on open source. Integrated Git, debugging and extensions.



有兩個版本可以選擇,其安裝路徑與步驟稍有不同,功能完全相同。

You can download the "System installer" or "User installer." Their installation folders are not the same.

User versus system setup

VS Code provides both Windows user and system level setups. Installing the user setup does not require Administrator privileges as the location will be under your user Local AppData (LOCALAPPDATA) folder. User setup also provides a smoother

background update experience.

The system setup requires elevation to Administrator privileges and will place the installation under Program Files.

兩個版本安裝路徑不同。

我們使用"User installer"比較方便!

會詢問你安裝路徑,預設即可!



安裝路徑如下:

By default, VS Code is installed under

C:\users\{username}\AppData\Local\Programs\Microsoft VS Code.

使用"System installer",其安裝路徑在 Program Files 底下,其餘步驟都相同

ズ Microsoft Visual Studio Code (User) 安装程式	_		×
選擇「開始」功能表的資料夾 選擇安裝程式建立程式的捷徑的位置。			X
安裝程式將會把程式的捷徑建立在下面的「開始」功能表資料夾。			
按 [下一步] 繼續,如果您想選擇另一個資料夾,請按 [瀏覽]。			
Visual Studio Code	注	覽(R)	
□ 不要在「開始」功能表中建立資料夾(D)			
〈上一步(B) 下一步	(N) >	取消	肖

※ 安裝程式 - Microsoft Visual Studio Code

※ 選取其他工作

還須執行哪些其他工作?

請選取安裝程式在安裝 Visual Studio Code 時,須額外執行的其他工作,然
後接一下 [下一步]。

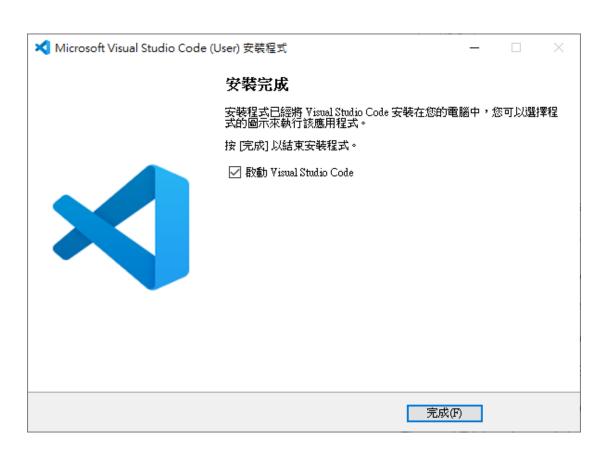
其他捷徑:

□建立桌面捷徑(D)

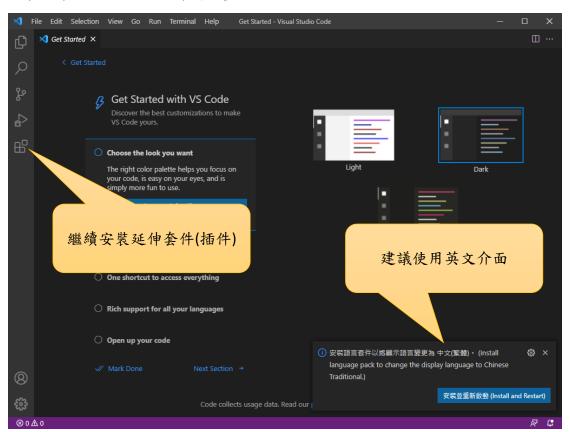
其他:

□ 將 [以 Code 開啟] 動作加入 Windows 檔案總管檔案的操作功能表中
□ 針對支援的檔案類型將 Code 註冊為編輯器
□ 加入 PATH中(重新啟動後生效)

▼ 上一步(B) 下一步(N) > 取消



安裝完畢,進入 vscode 看到的畫面:



The extensions you have to install 繼續安裝延伸套件

(Plugin)

- Python—by Microsoft (three extensions will be installed)
 -Pylance: A performant, feature-rich language server for Python in VS
 Code
 - -Jupyter
- 2. Live Server (local server for dynamic pages)
- 3. Django by "Baptiste Darthenay"
- 4. Prettier Code formatter (or Beautify)

 Beautify javascript, JSON, CSS, Sass, and HTML in Visual Studio

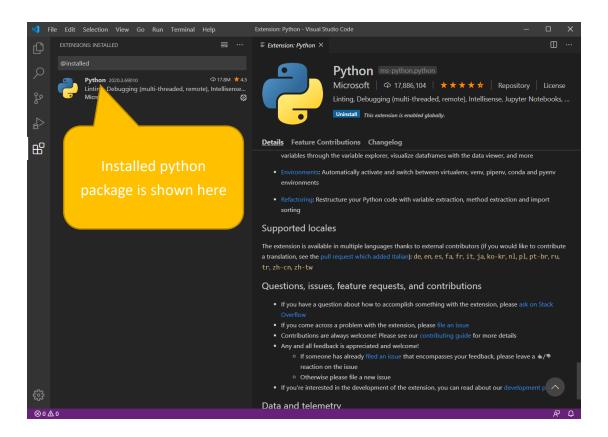
 Code.

Shift + Alt + F Auto formatting 自動格式化

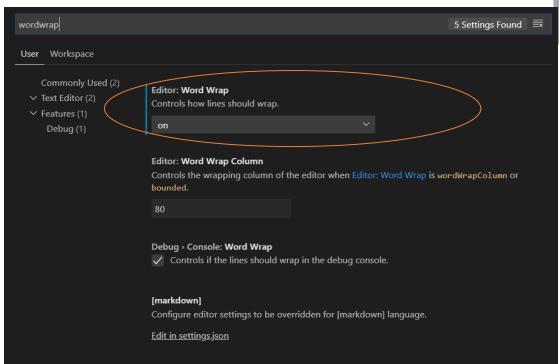
10 5. Auto Rename Tag by Jun Han 自動重命名配對的 HTML / XML 標籤

Follow the following steps: search for the packages and then install them.

⋈ Welcome ×



Word wrap

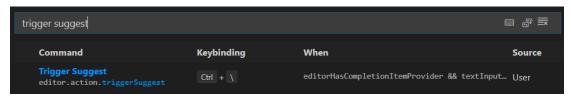


Trigger suggest

Default: ctrl+i, ctrl+space(doesn't work for Chinese OS)

If you want to change to ctrl+\, do the following setting.

File - Preferences - Keyboard shortcut



Mouse wheel zoom

File - Preferences - Setting

Enable the Zoom the font ...

Search for "mouse wheel zoom"

How To Hide __pycache__, .ini files in Explorer?

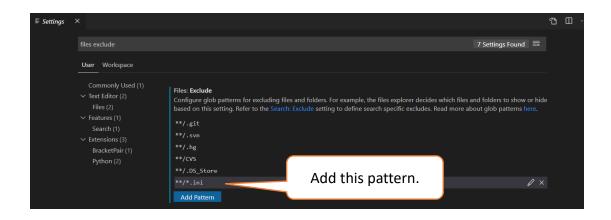
Settings --> Files exclude

Add the following patterns:

**/__pycache__

**/*.ini

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Terminal

Now you can activate your python virtual environment.

>conda activate py37

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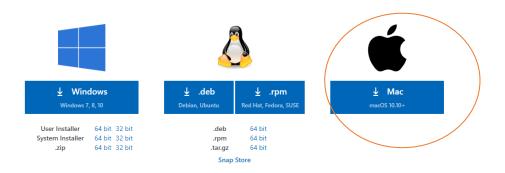
Install VS Code on Mac

VS Code is one of the best Editor in the world.

You can download Mac version from official website.

Download Visual Studio Code

Free and built on open source. Integrated Git, debugging and extensions.



下載項目 加入日期 AirDrop ✓ Visual Studio Code.app 295.6 MB 應用程式 今天 上午1:42 應用程式 VSCode-darwin.zip 108.8 MB Zip封存檔 idk-8u111-nb-8_...acosx-x64.dmg 359.6 MB 磁碟映像檔 下載項目 clhuang ○ iCloud 雲碟 ☐ CLHUANG-MacBook Pro Google Drive ● 紫色 ● 黃色 藍色 ● 灰色 個人專屬 具 Macintosh HD > io 使用者 > io clhuang > io 下載項目 > ❷ Visual Studio Code.app

Installation#

- 1. <u>Download Visual Studio Code</u> for macOS.
- 2. Open the browser's download list and locate the downloaded archive.
- 3. Select the 'magnifying glass' icon to open the archive in Finder.
- 4. Drag Visual Studio Code.app to the Applications folder, making it available in the macOS Launchpad.

Launching from the command line#

You can also run VS Code from the terminal by typing 'code' after adding it to the path:

此步驟非常重要: Shell 路徑設定

- Launch VS Code.
- Open the Command Palette (Ctrl+Shift+P) and type 'shell command' to find the Shell Command: Install 'code' command in PATH command.

>shell command

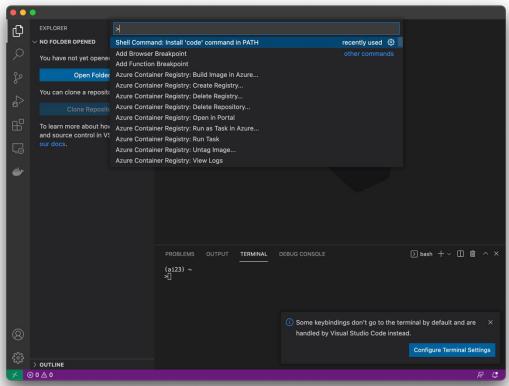
Shell Command: Install 'code' command in PATH

Shell Command: Uninstall 'code' command from PATH

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• Restart the terminal for the new \$PATH value to take effect. You'll be able to type 'code.' in any folder to start editing files in that folder.

Note: If you still have the old code alias in your .bash_profile (or equivalent) from an early VS Code version, remove it and replace it by executing the **Shell Command: Install 'code' command in PATH** command.



Official website for vscode installation:

https://code.visualstudio.com/docs/setup/mac# installation

For mac users who fail to launch conda environment in terminal

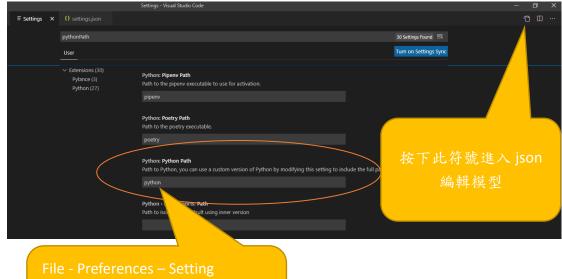
可能有極少數同學會遇到此種情況。

在 terminal 中輸入
python --version
若能正確顯示版本 3 的 python,應該能正常運作。
若是顯示版本 2.7 的 python,則可能會有問題。

python3 --version

若你的 vscode 的 terminal 無法切換 conda 虛擬環境,必須做以下設定:

If you fail to activate conda environment in terminal on Mac. Please make sure the correct python path setting:



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File - Preferences - Setting 查詢 pythonPath Mac 的路徑

新增這一行,應該就可以了。

"python.pythonPath":"/Users/clhuang/anaconda/envs/py3/bin/python3",

```
≡ Extension: Python ×
                                      {} settings.json •

■ Settings

C: > Users > clhuang > AppData > Roaming > Code > User > {} settings.json > ...
           "python.languageServer": "Pylance",
           "editor.mouseWheelZoom": true,
           "editor.wordWrap": "on",
           "jupyter.alwaysTrustNotebooks": true,
           "files.exclude": {
               "**/.classpath": true,
               "**/.project": true,
               "**/.settings": true,
               "**/.factorypath": true
           "editor.suggestSelection":
           "vsintellicode.modify.edit
           "automaticallyOverrodeDefa
           "redhat.telemetry.enabled"
           "[html]": {
               "editor.defaultFormatt
           },
"java.configuration.runtim
                    "name": "JavaSE-1.8",
                    "path": "C:\\Program File
                                                        \jdk1.8.0_261"
           "python.pythonPath":"/Users/clhuang/anaconda/envs/py3/bin/python3",
 26
```

