Python 安裝方法

請安裝2.7版本

方法

- 有兩種建置python開發環境的方法
 - 安裝python並設定環境變數
 - 安裝Anaconda
- 可擇一選擇,亦可兩種環境都建置(建議使用Anaconda)
- 本教學範例系統: Windows 10 64 bit
- 請根據你的作業系統選擇合適的版本
- Mac OSX 請點此: http://koko.ntex.tw/wordpress/pythonmac-install-python-on-mac-homebrew/
- https://stringpiggy.hpd.io/mac-osx-python3-dual-install/

下載Python

- https://www.python.org/downloads/release/python-2712/
- 注意版本(2.7 & 64bit)

Files		
Version	Operating System	Description
Gzipped source tarball	Source release	
XZ compressed source tarball	Source release	
Mac OS X 32-bit i386/PPC installer	Mac OS X	for Mac OS X 10.5 and later
Mac OS X 64-bit/32-bit installer	Mac OS X	for Mac OS X 10.6 and later
Windows debug information files	Windows	
Windows debug information files for 64-bit binaries	Windows	
Windows help file	Windows	
Windows x86-64 MSI installer	Windows	for AMD64/EM64T/x64, not Itanium processor
Windows x86 MSI installer	Windows	

安裝Python





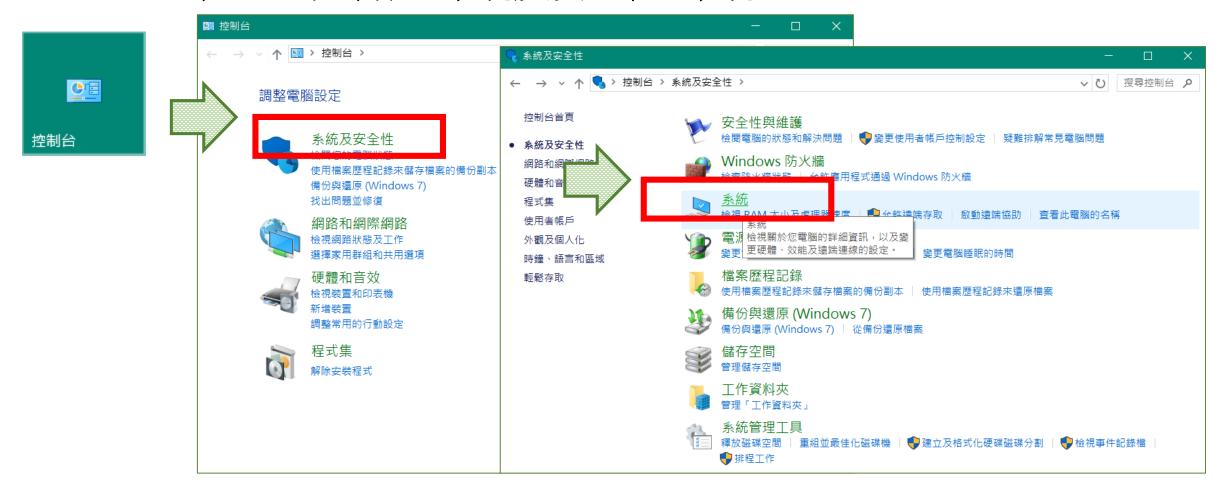
🚜 Python 2.7.11 (64-bit) Setup

Complete the Python 2.7.11 (64-bit)

Installer

設定環境變數

• Windows位置:控制台>系統及安全性>系統



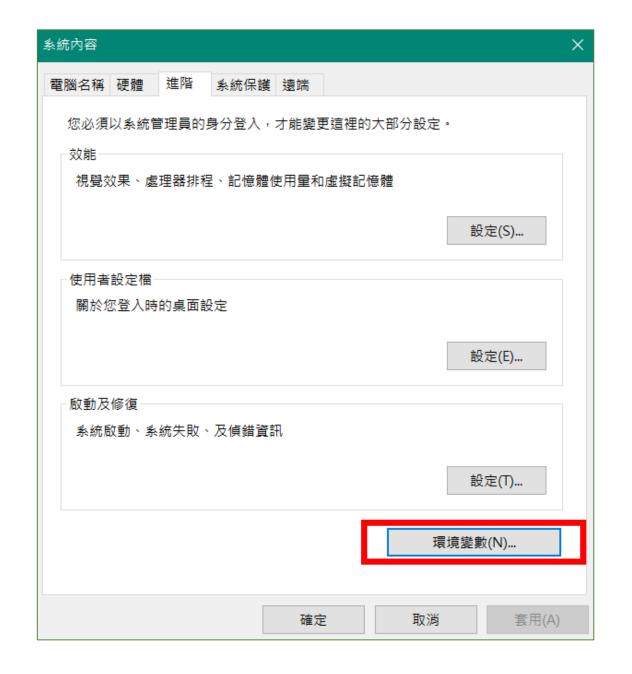
• 或是直接在本機(我的電腦)上點右鍵內容



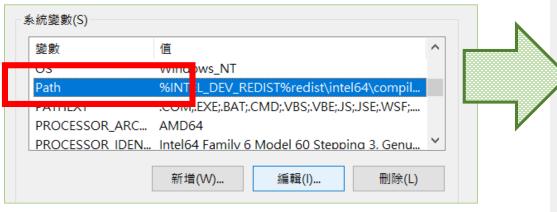
• 點擊進階系統設定



• 點擊 環境變數



- 找出系統變數Path按編輯
- 加入python路徑
- C:\python27\ 與
- C:\python27\Script



C:\Windows\system32 C:\Windows C:\Windows\System32\Wbem C:\Windows\System32\WindowsPowerShell\v1.0\ C:\Program Files (x86)\Acer\abFiles\ C:\WINDOWS\system32 C:\WINDOWS C:\WINDOWS\System32\Wbem C:\WINDOWS\System32\WindowsPowerShell\v1.0\ C:\Program Files (x86)\NVIDIA Corporation\PhysX\Common C:\Python27 C:\Python27\Scripts C:\Program Files\Microsoft SQL Server\120\Tools\Binn\ C:\Program Files (x86)\Windows Kits\10\Windows Performance T... C:\Program Files (x86)\QuickTime\QTSystem\ %SystemRoot%\system32 %SystemRoot% %SystemRoot%\System32\Wbem %SYSTEMROOT%\System32\WindowsPowerShell\v1.0\ C:\Program Files (x86)\Skype\Phone\ C:\Program Files (x86)\GtkSharp\2.12\bin C:\Program Files\Intel\Intel(R) Management Engine Components\... C:\Program Files\Intel\Intel(R) Management Engine Components\I... D:\01-School\MM\MMHW03\vlfeat-0.9.20-bin.tar\vlfeat-0.9.20\bi...

編輯環境變數

新增(N)

編輯(E)

瀏覽(B)...

刪除(<u>D</u>)

上移(<u>U</u>)

下移(<u>O</u>)

編輯文字(工)...

確定

取消

測試

- 打開cmd
- 輸入python
- 有顯示版本即成功 (請注意不要裝錯)





get pip

- pip 是 python 的程式管理套件
- 先下載 get-pip.py 檔:下方連結
- https://pip.pypa.io/en/stable/installing/
- cmd 指令: (注意資料夾及檔案位置)
- python get-pip.py



install pillow

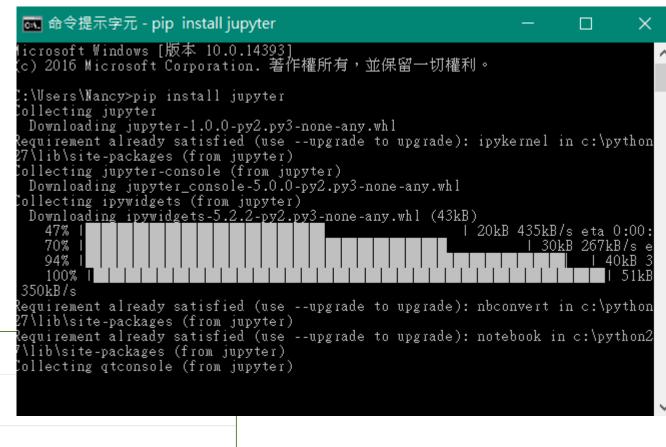
- pillow 是影像處理套件
- 前身是PIL (已停止更新)
- Python Image Library
- https://python-pillow.org/
- cmd 指令:
- pip install pillow

```
命令提示字元
Microsoft Windows [版本 10.0.14393]
(c) 2016 Microsoft Corporation. 著作權所有,並保留一切權利。
::\Users\Nancy>pip install pillow_
```

install jupyter

- pip install jupyter
- cmd 指令:jupyter notebook



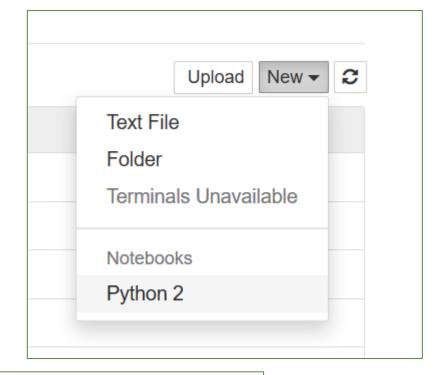


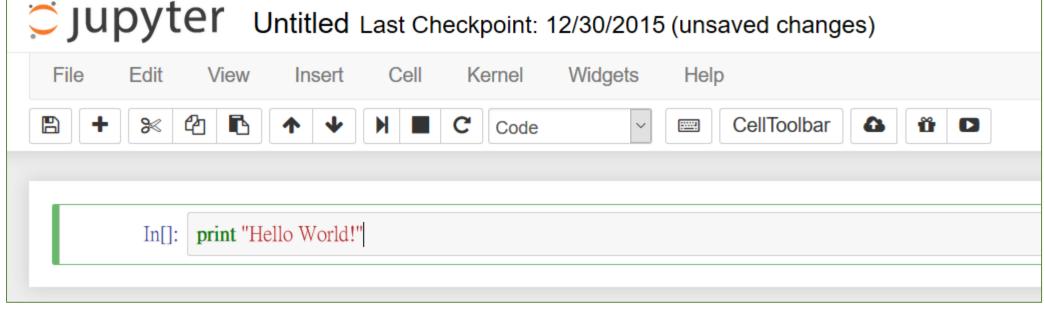
Q. 無法打開 Jupyter?

- A:請檢查你的python版本,通常是因為32bit和64bit的dll混用的關係。
- 解決方式:
 - 請重新安裝針對OS正確版本的python
 - 檢查是否有重複舊套件沒有移除
 - 再重新安裝一次

測試是否可行

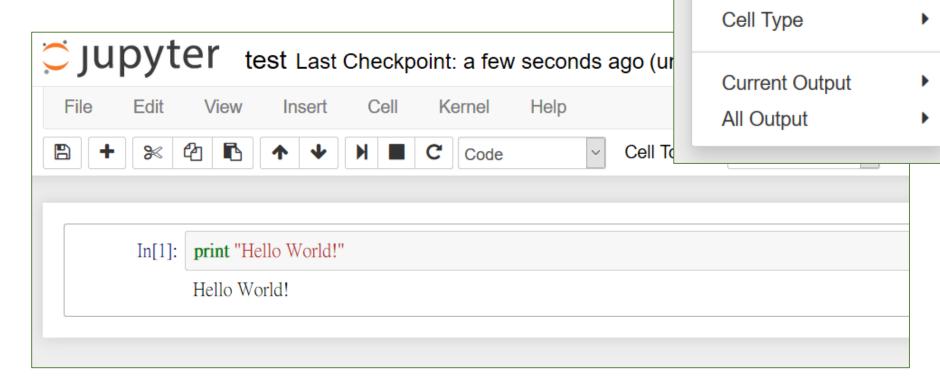
- 打開 Jupyter,可自行建立資料夾放置檔案
- 右方新增(new)選Python 2
- 輸入 print "Hello World!"





測試是否可行-續

- 按Ctrl-Enter,若能在下方出現Hello World! 即代表能正常運行
- 亦可打開選單Cell > Run 執行



Kernel

Run and Select Below

Run and Insert Below

Help

Cell

Run

Run All

Run All Above

Run All Below

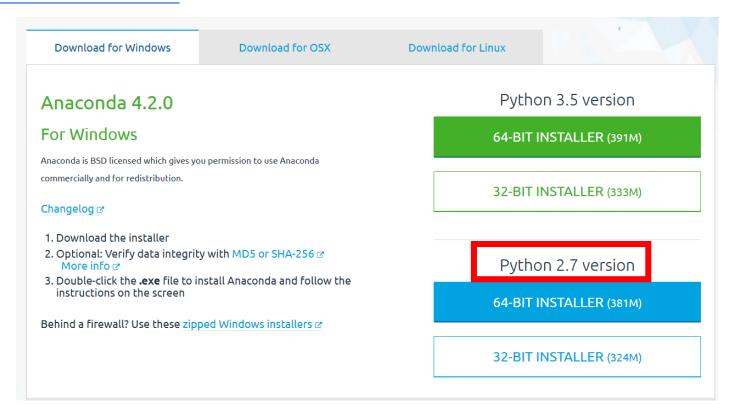
Anaconda安裝

ANACONDA

• 下載,請注意作業系統和Python版本



https://www.continuum.io/downloads



下載

- OSX
- 注意版本

Anaconda 4.2.0

For OSX

Anaconda is BSD licensed which gives you permission to use Anaconda commercially and for redistribution.

Changelog 🗷

Graphical Installer

- 1. Download the graphical installer
- Double-click the downloaded .pkg file and follow the instructions

Command Line Installer

- 1. Download the command-line installer
- 2. Optional: Verify data integrity with MD5 or SHA-256 ♂ More info ♂
- In your terminal window type one of the below and follow the instructions:

Python 3.5 version

bash Anaconda3-4.2.0-MacOSX-x86_64.sh

Python 2.7 version

bash Anaconda2-4.2.0-MacOSX-x86_64.sh

NOTE: Include the "bash" command even if you are not using the bash shell.

Python 3.5 version

GRAPHICAL INSTALLER (407M)

COMMAND-LINE INSTALLER (349M)

64-Bit

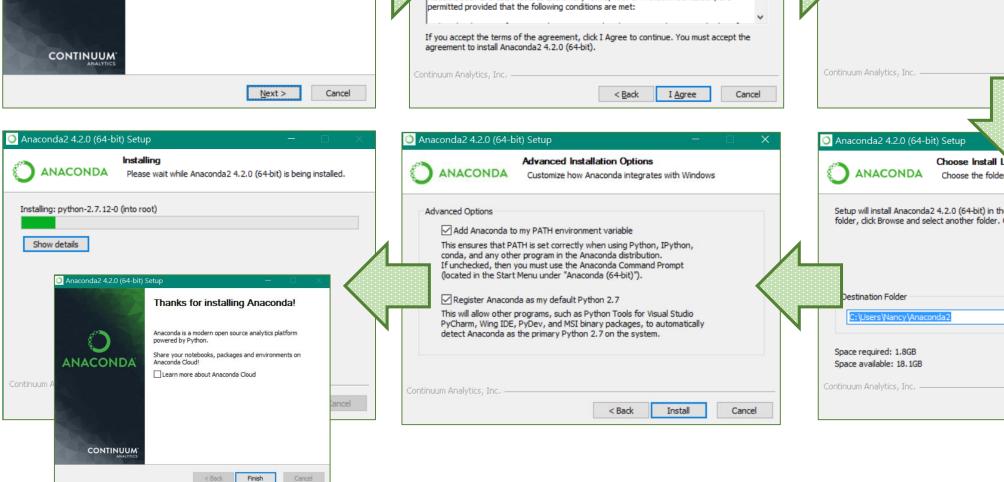
Python 2.7 version

GRAPHICAL INSTALLER (403M)

COMMAND-LINE INSTALLER (346M)

64-Bit





Anaconda2 4.2.0 (64-bit) Setup

ANACONDA

Anaconda License

Press Page Down to see the rest of the agreement.

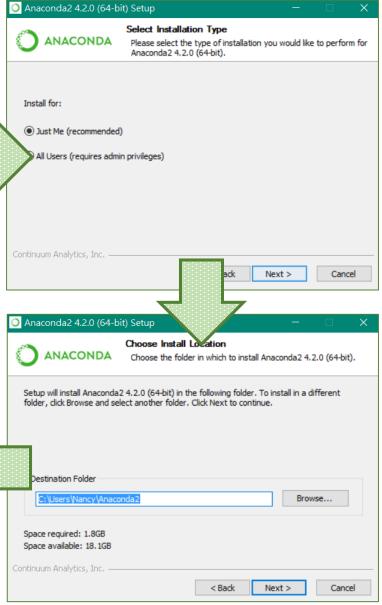
rights reserved under the 3-clause BSD License:

Copyright 2016, Continuum Analytics, Inc.

License Agreement

Redistribution and use in source and binary forms, with or without modification, are

Please review the license terms before installing Anaconda2 4.2.0

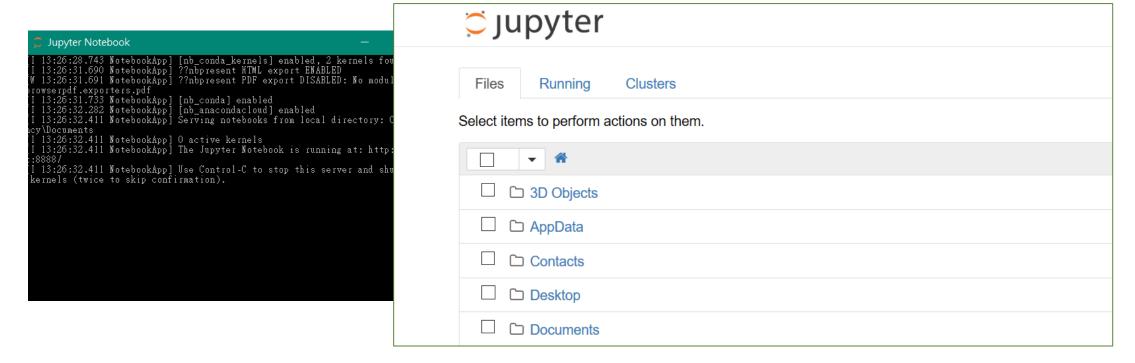


開啟 Jupyter Notebook

• 開始功能表搜尋 Jupyter Notebook

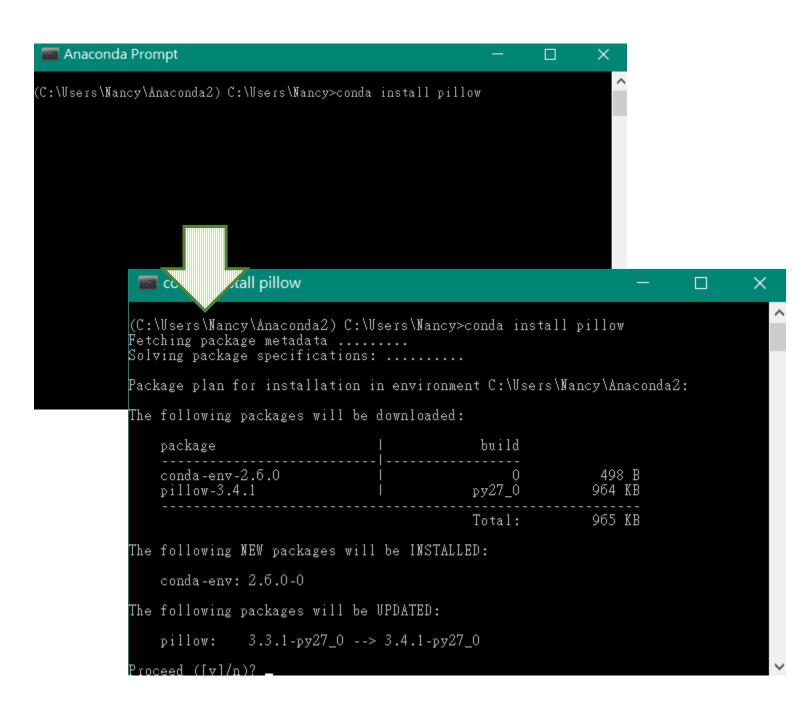


• 點擊即可開啟



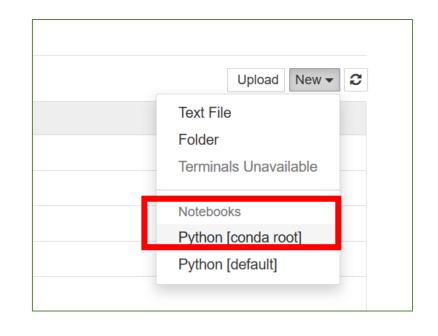
安裝 pillow

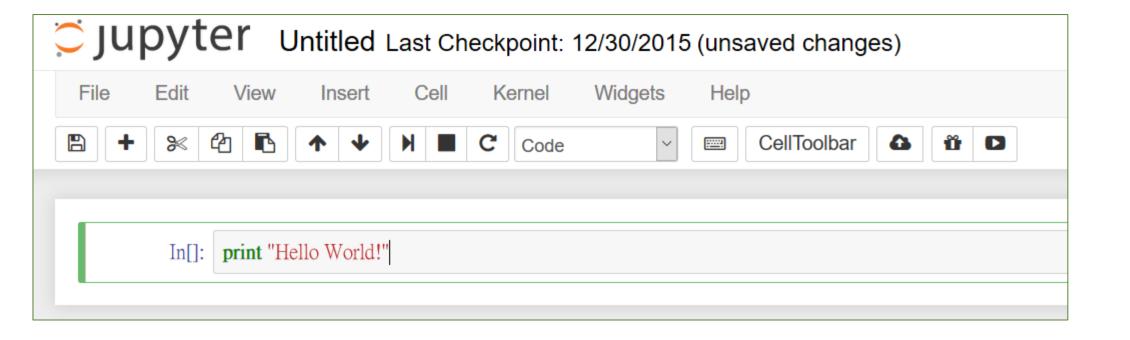
- 開啟Anaconda Prompt
- 輸入指令:
- conda install pillow
- 其實用cmd也行



測試是否可行

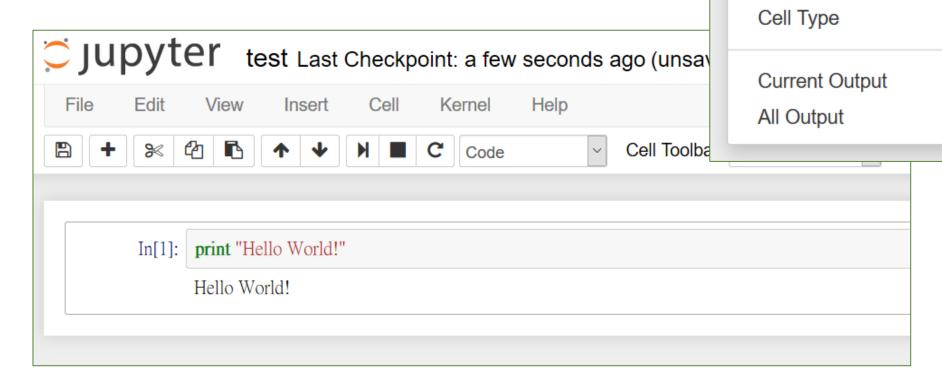
- 打開 Jupyter,可自行建立資料夾放置檔案
- 右方新增(new)選Python [conda root]
- 輸入 print "Hello World!"





測試是否可行-續

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Run and Select Below

Run and Insert Below

Help

Cell

Run

Run All

Run All Above

Run All Below

若遇到問題

- 在安裝過程中如果出錯
 - 確認你的安裝資料夾名稱是否都為英文
 - 解除安裝(刪除資料夾)→要清乾淨
 - 必要時重新開機會比較保險
 - 多試幾次或是先放著等一下再說
 - Google可以幫助你