Native python 安裝

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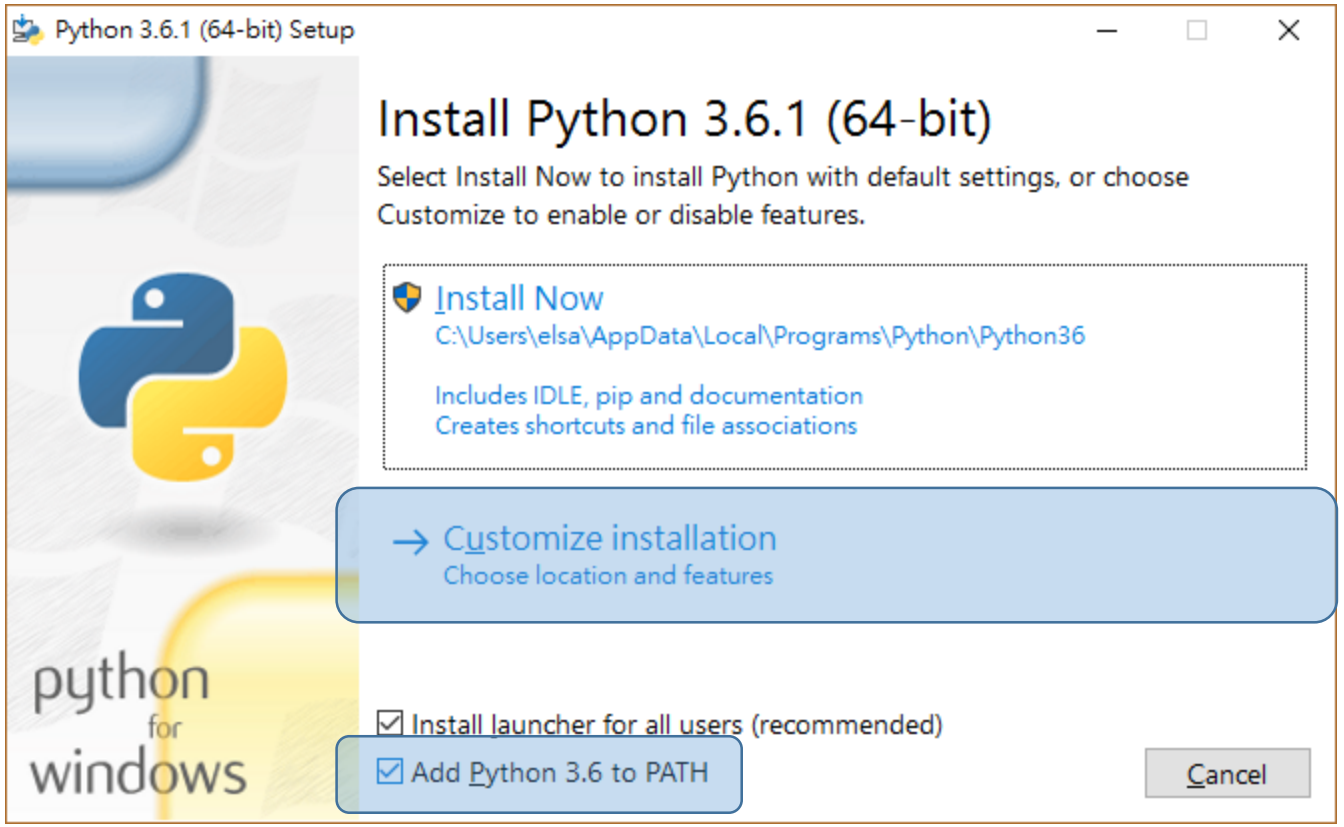
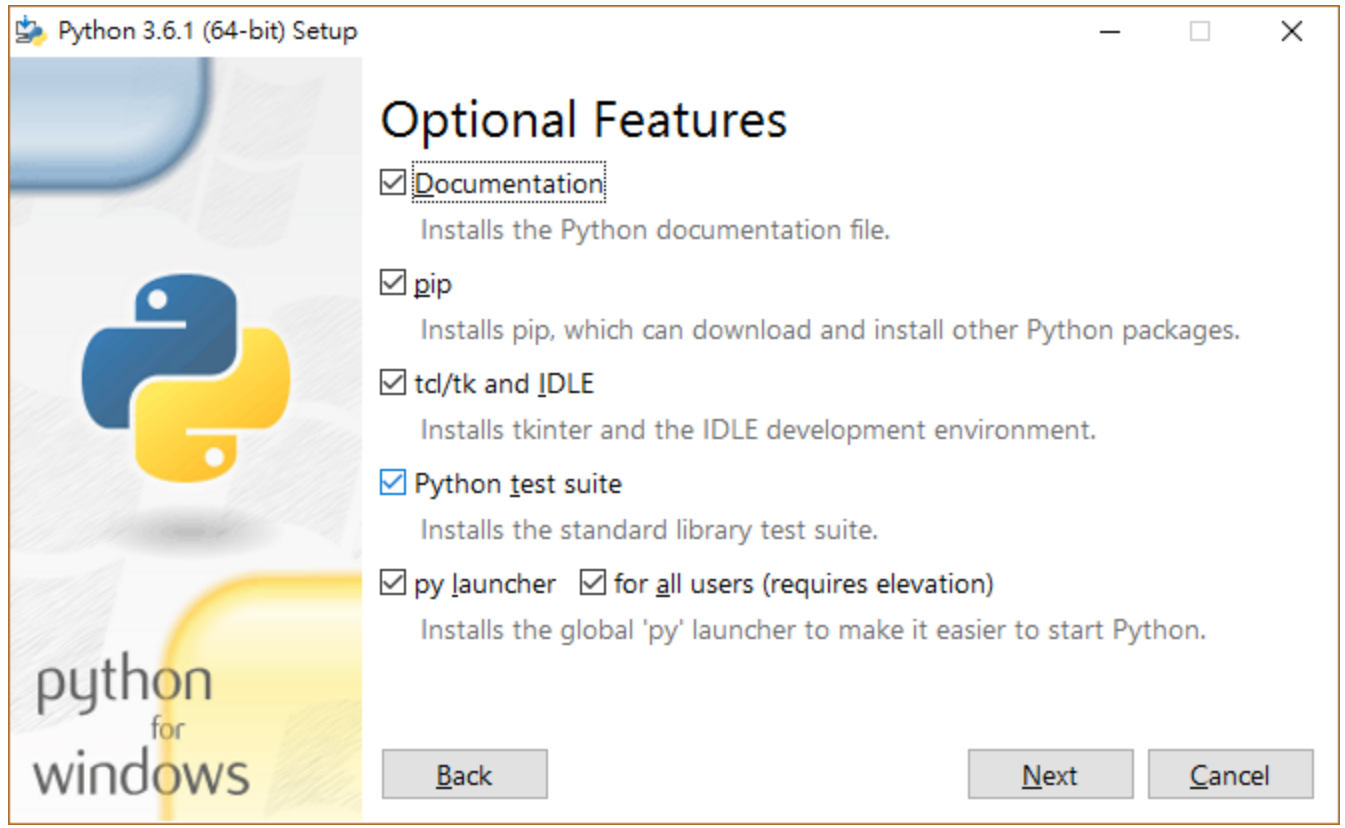
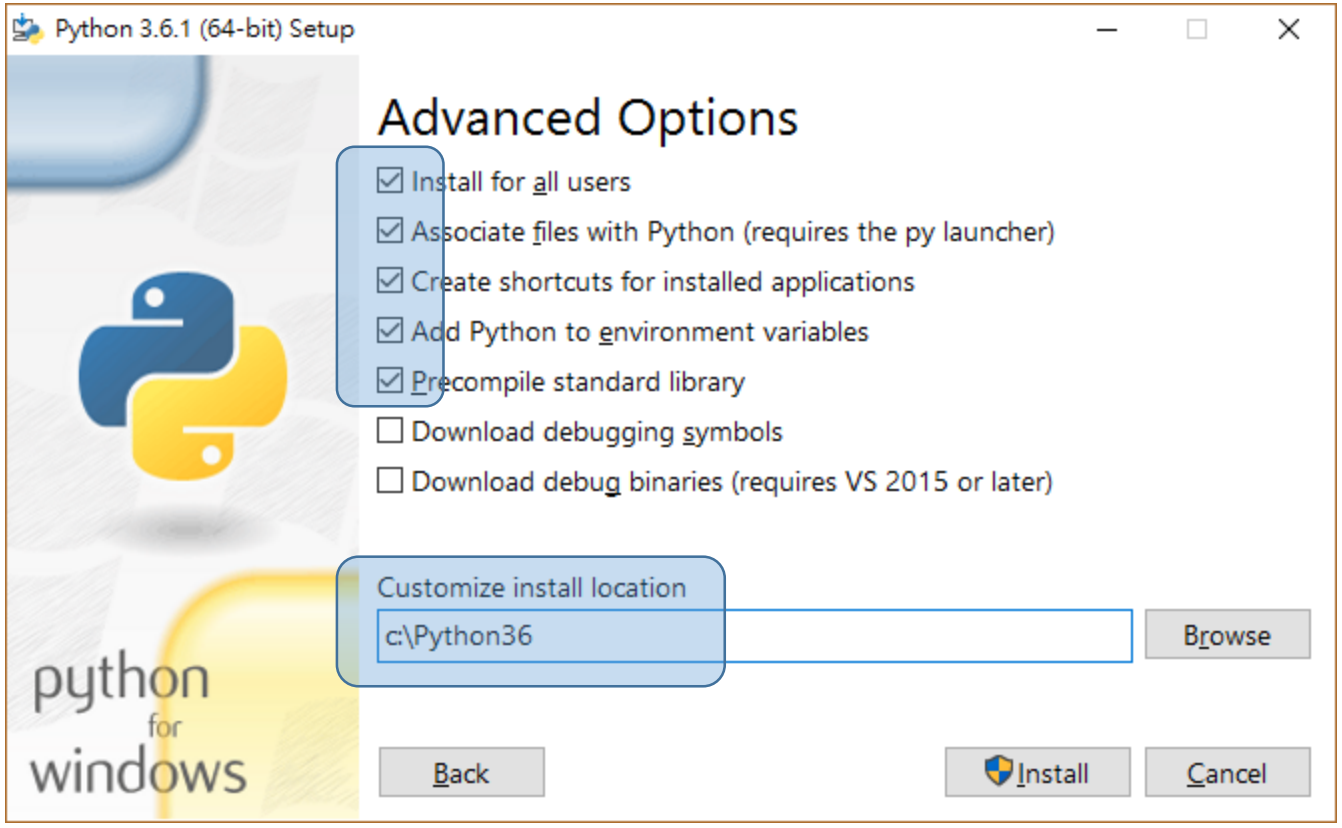
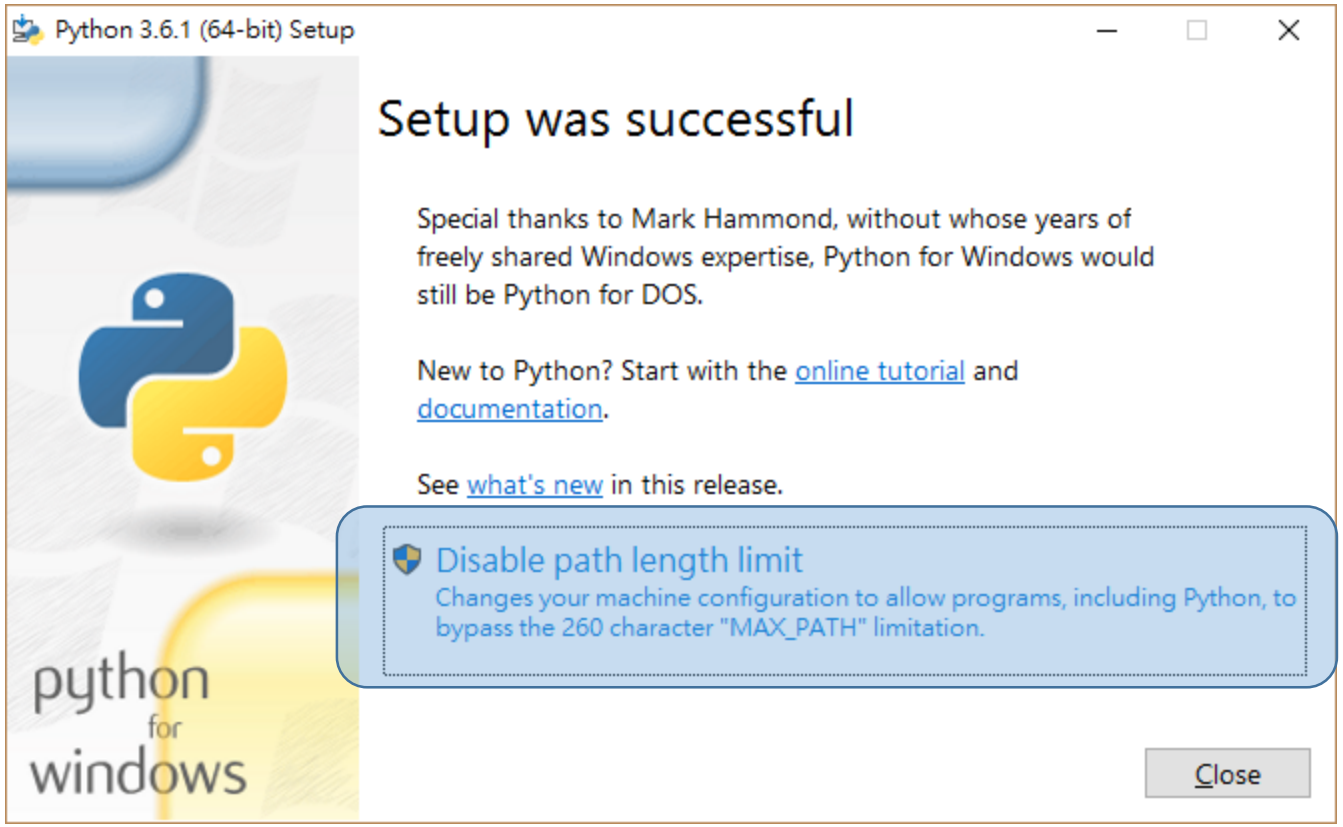
Native python

- https://www.python.org/downloads/
- PYTHON參考網址：
  - https://docs.python.org/3/using/windows.html
  - https://docs.python.org/3/using/unix.html#on-linux


Python 3.6.1 (64-bit) Setup
Install Python 3.6.1 (64-bit)
Select Install Now to install Python with default settings, or choose
Customize to enable or disable features.
Install Now
C:\Users\elsa\AppData\Local\Programs\Python\Python36
Includes IDLE, pip and documentation
Creates shortcuts and file associations
Customize installation
Choose location and features
python
for
windows
Install launcher for all users (recommended)
Add Python 3.6 to PATH
Cancel


Python 3.6.1 (64-bit) Setup
Optional Features
Documentation
Installs the Python documentation file.
pip
Installs pip, which can download and install other Python packages.
tcl/tk and IDLE
Installs tkinter and the IDLE development environment.
Python test suite
Installs the standard library test suite.
py launcher
for all users (requires elevation)
Installs the global 'py' launcher to make it easier to start Python.
python
for
windows
Back
Next
Cancel


Python 3.6.1 (64-bit) Setup
Advanced Options
Install for all users
Associate files with Python (requires the py launcher)
Create shortcuts for installed applications
Add Python to environment variables
Precompile standard library
Download debugging symbols
Download debug binaries (requires VS 2015 or later)
Customize install location
c:\Python36
Browse
python
for
windows
Back
Install
Cancel


Python 3.6.1 (64-bit) Setup
Setup was successful
Special thanks to Mark Hammond, without whose years of freely shared Windows expertise, Python for Windows would still be Python for DOS.
New to Python? Start with the online tutorial and documentation.
See what's new in this release.
Disable path length limit
Changes your machine configuration to allow programs, including Python, to bypass the 260 character "MAX_PATH" limitation.
python for windows
Close

3.1.3. Removing the MAX_PATH Limitation

Windows historically has limited path lengths to 260 characters. This meant that paths longer than this would not resolve and errors would result.

In the latest versions of Windows, this limitation can be expanded to approximately 32,000 characters. Your administrator will need to activate the "Enable Win32 long paths" group policy, or set the registry value `HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\FileSystem@LongPathsEnabled` to `1`.

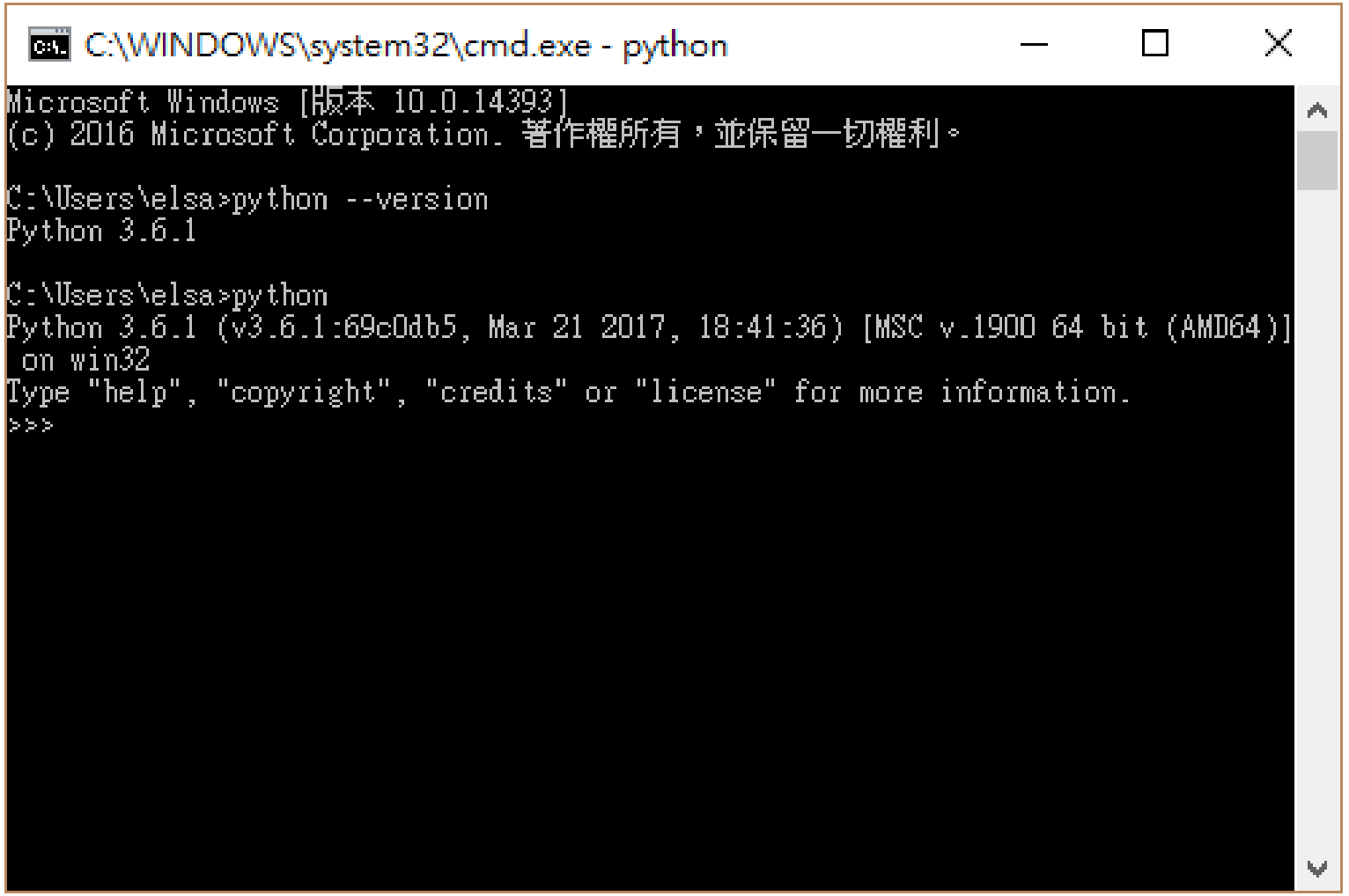
This allows the `open()` function, the `os` module and most other path functionality to accept and return paths longer than 260 characters when using strings. (Use of bytes as paths is deprecated on Windows, and this feature is not available when using bytes.)

After changing the above option, no further configuration is required.

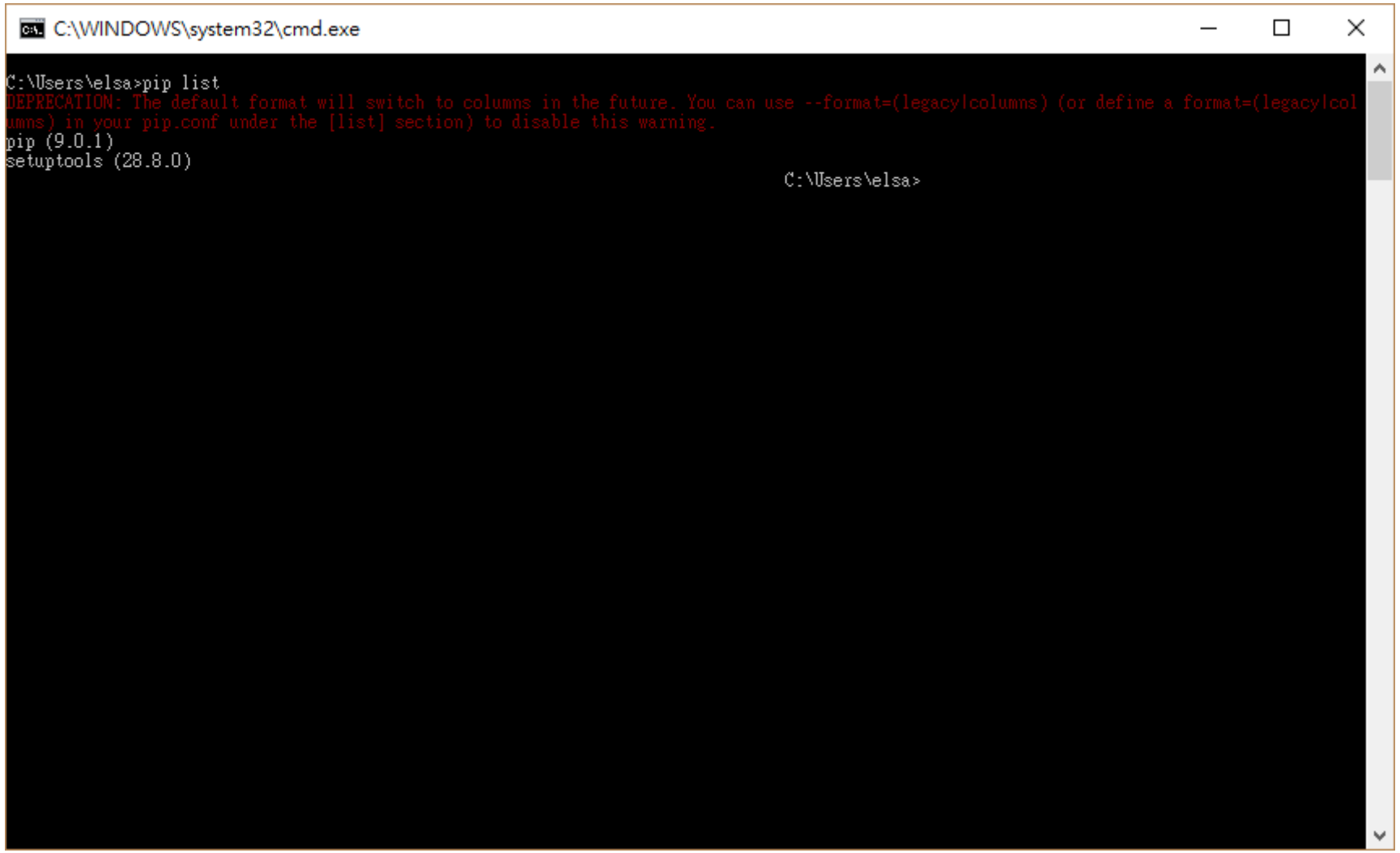
Changed in version 3.6: Support for long paths was enabled in Python.

建議事項：
安裝時選擇 Customized 安裝
Optional Features 全部勾選
Advanced Options 除底下兩個 Debugging 不選外都選
安裝路徑建議修改為自己比較清楚的路徑，例如 “C:\Python36”
關掉260 字元的路徑長度限制

測試一下


C:\WINDOWS\system32\cmd.exe - python
Microsoft Windows [版本 10.0.14393]
(c) 2016 Microsoft Corporation. 著作權所有，並保留一切權利。
C:\Users\elsa>python --version
Python 3.6.1
C:\Users\elsa>python
Python 3.6.1 (v3.6.1:69c0db5, Mar 21 2017, 18:41:36) [MSC v.1900 64 bit (AMD64)]
on win32
Type "help", "copyright", "credits" or "license" for more information.
>>>

安裝套件檢查


C:\WINDOWS\system32\cmd.exe
C:\Users\elsa>pip list
DEPRECATION: The default format will switch to columns in the future. You can use --format=(legacy|columns) (or define a format=(legacy|columns) in your pip.conf under the [list] section) to disable this warning.
pip (9.0.1)
setuptools (28.8.0)
C:\Users\elsa>

- Windows 上 Python 3 內建套件只有 pip 與 setuptools
- 大家查查看你的電腦裝了那些套件了?

安裝一些科學運算所需模組及互動介面

函式庫	用途說明
numpy	a fundamental package needed for scientific computing with Python. Numpy+MKL is linked to the Intel® Math Kernel Library and includes required DLLs in the numpy.core directory.
scipy	for mathematics, science, and engineering.
matplotlib	a 2D plotting library.
Jupyter/ipython	an interactive computing environment.
pandas	a cross-section and time series data analysis toolkit.
scikit-learn	integrates classic machine learning algorithms.
virtualenv	virtual environment
django	web develop framework (recommend <=1.8) pip3 install -v django==1.8
requests	HTTP for Humans
Beautiful Soup	provides a few simple methods and Pythonic idioms for navigating, searching, and modifying a parse tree

UNIX like

- sudo apt-get install python3-numpy
- sudo apt-get install python3-scipy
- sudo apt-get install python3-matplotlib
- sudo apt-get install python3-pandas
- sudo pip3 install scikit-learn –U
- …….

Windows

無法安裝嗎?

pip3 install numpy

pip3 install scipy

pip3 install matplotlib

pip3 install pandas

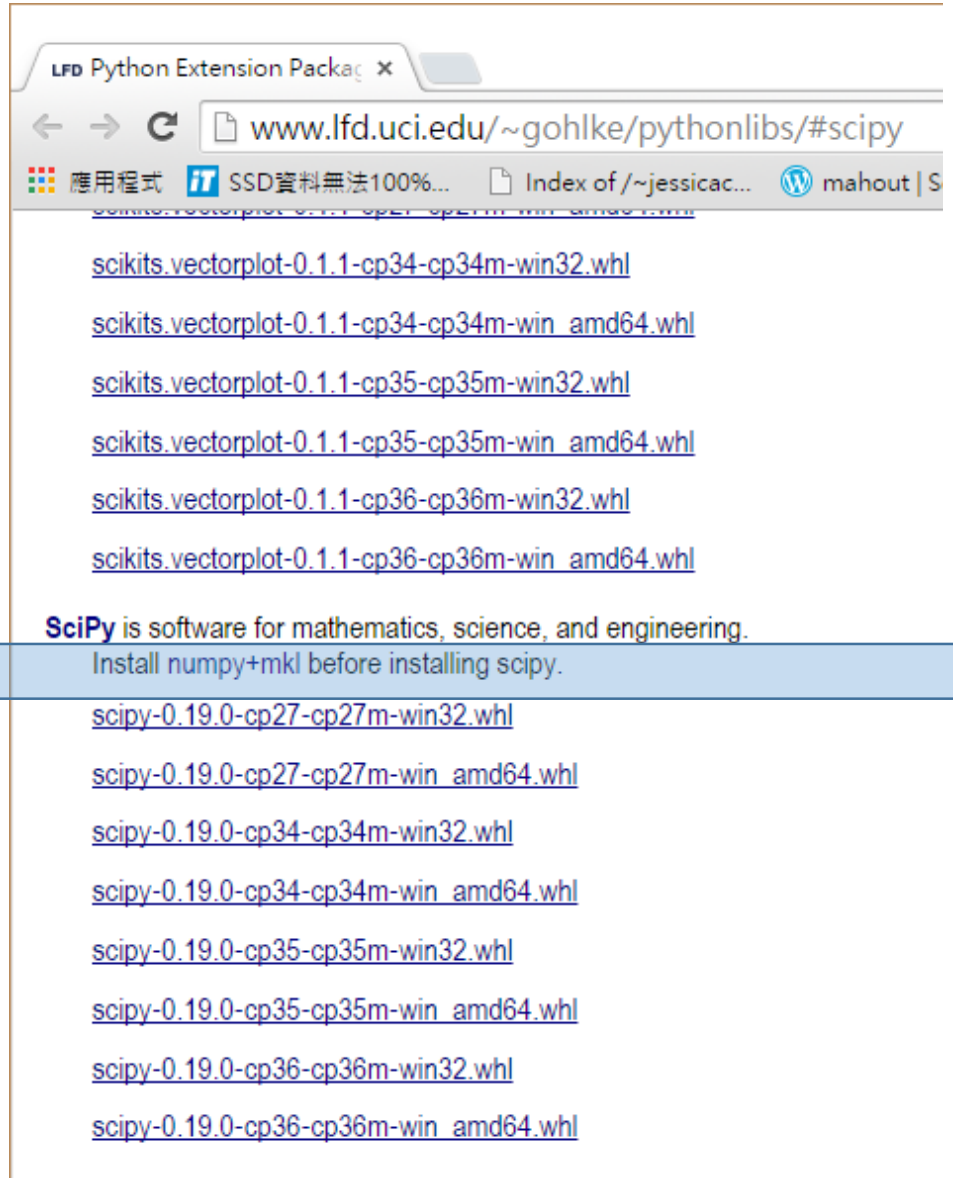
…..

Windows-Scipy

建議裝法

"Try installing using Scipy wheel file. Download it from here: http://www.lfd.uci.edu/~gohlke/pythonlibs/#scipy

Make sure to download the one that's compatible with your Python version and your laptop bit.
Then install it like this: `pip install "path\to\your\wheel\file\scipy-0.18.1-cp27-cp27m-win_amd64.whl""`


LFD Python Extension Packag
www.lfd.uci.edu/~gohlke/pythonlibs/#scipy
應用程式
SSD資料無法100%...
Index of /~jessicac...
mahout | S
scikits.vectorplot-0.1.1-cp34-cp34m-win32.whl
scikits.vectorplot-0.1.1-cp34-cp34m-win_amd64.whl
scikits.vectorplot-0.1.1-cp35-cp35m-win32.whl
scikits.vectorplot-0.1.1-cp35-cp35m-win_amd64.whl
scikits.vectorplot-0.1.1-cp36-cp36m-win32.whl
scikits.vectorplot-0.1.1-cp36-cp36m-win_amd64.whl
SciPy is software for mathematics, science, and engineering.
Install numpy+mkl before installing scipy.
scipy-0.19.0-cp27-cp27m-win32.whl
scipy-0.19.0-cp27-cp27m-win_amd64.whl
scipy-0.19.0-cp34-cp34m-win32.whl
scipy-0.19.0-cp34-cp34m-win_amd64.whl
scipy-0.19.0-cp35-cp35m-win32.whl
scipy-0.19.0-cp35-cp35m-win_amd64.whl
scipy-0.19.0-cp36-cp36m-win32.whl
scipy-0.19.0-cp36-cp36m-win_amd64.whl

NumPy, a fundamental package needed for scientific computing with Python.

Numpy+MKL is linked to the Intel® Math Kernel Library and includes required DLLs in the numpy.core directory.

numpy-1.11.3+mkl-cp27-cp27m-win32.whl

numpy-1.11.3+mkl-cp27-cp27m-win_amd64.whl

numpy-1.11.3+mkl-cp34-cp34m-win32.whl

numpy-1.11.3+mkl-cp34-cp34m-win_amd64.whl

numpy-1.11.3+mkl-cp35-cp35m-win32.whl

numpy-1.11.3+mkl-cp35-cp35m-win_amd64.whl

numpy-1.11.3+mkl-cp36-cp36m-win32.whl

numpy-1.11.3+mkl-cp36-cp36m-win_amd64.whl

numpy-1.12.1+mkl-cp27-cp27m-win32.whl

numpy-1.12.1+mkl-cp27-cp27m-win_amd64.whl

numpy-1.12.1+mkl-cp34-cp34m-win32.whl

numpy-1.12.1+mkl-cp34-cp34m-win_amd64.whl

numpy-1.12.1+mkl-cp35-cp35m-win32.whl

numpy-1.12.1+mkl-cp35-cp35m-win_amd64.whl

numpy-1.12.1+mkl-cp36-cp36m-win32.whl

numpy-1.12.1+mkl-cp36-cp36m-win_amd64.whl

不一一舉例

6.pip3 install virtualenv
7.pip3 install "django<1.9"
8.pip3 install requests
9.pip3 install BeautifulSoup4
10.pip3 install jupyter