

ak系列 - Environment

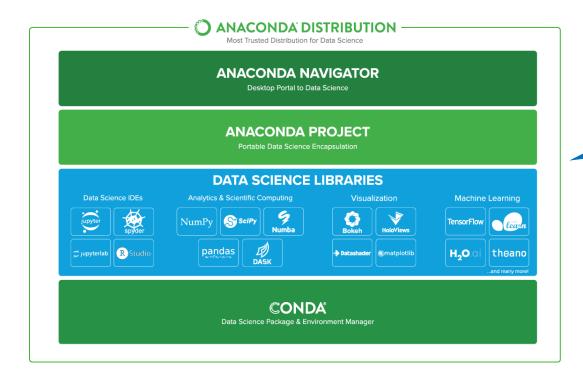
(Anaconda: Python3.6)





Anaconda

- Anaconda has pre-packaged 1,400+ data science pages for Python/R
- Anaconda helps to manage python packages, dependencies and environments



使用Ananconda可以簡化 相關Python的環境設定與 函式庫的管理





Step1. Install Anaconda

Anaconda installation

- Go to Anaconda official web site:
 - https://www.anaconda.com

Click "Download Now" of "ANACONDA DISTRIBUTION"





Anaconda Distribution: Win, Mac & Linux

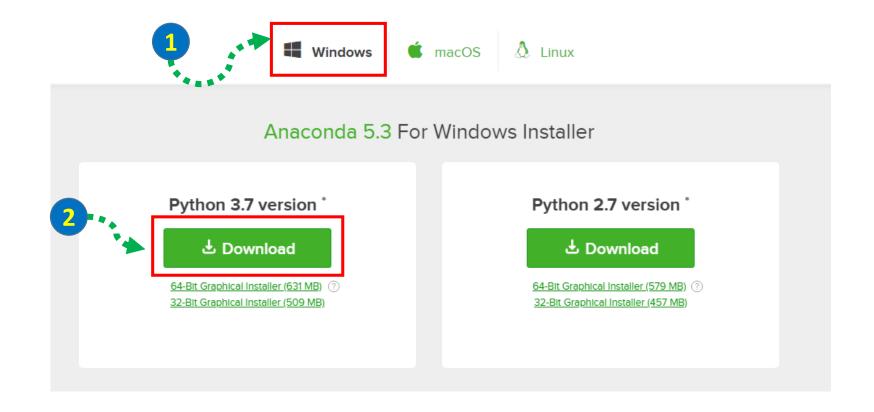
- As of Today, the most update version is Version 5.3
- Choose different distribution according to O.S of your machine





Anaconda Distribution: Win

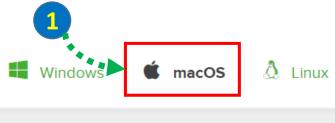
• Click "Download" for Python 3.7 version

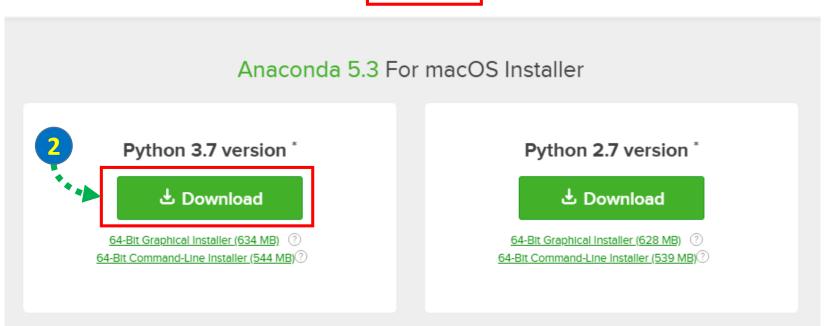




Anaconda Distribution: Mac

Click "Download" for Python 3.7 version

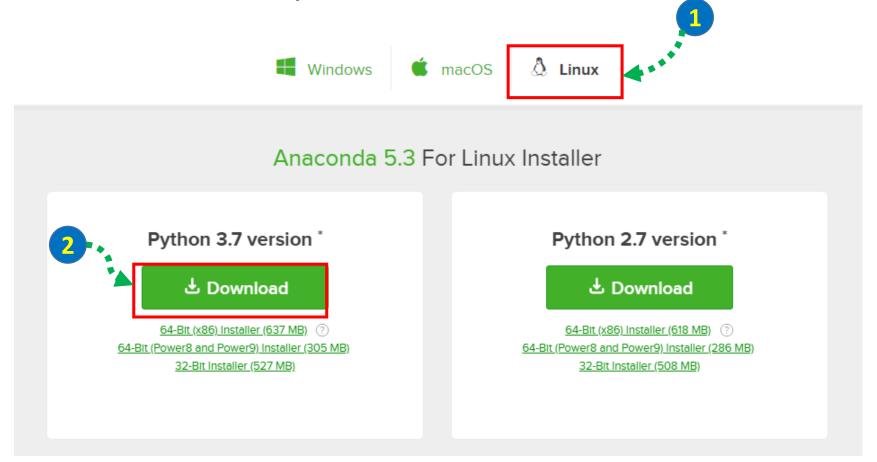






Anaconda Distribution: Linux

Click "Download" for Python 3.7 version





Anaconda Details Installation Steps

- You can find detail installation steps in below link:
 - https://docs.anaconda.com/anaconda/install/
 - ▶ Home
 - Anaconda Enterprise 5
 - Anaconda Enterprise 4
 - ▼ Anaconda Distribution

Installation

Installing on Windows

Installing on macOS

Installing on Linux



Verifying Anaconda Installation (Method#1)

Anaconda Navigator

- Open Anaconda Navigator, which is automatically installed when you install Anaconda
 - Windows: Click Start then from the shortcuts, select Anaconda Navigator. If it opens, you have successfully installed Anaconda.
 - macOS: Click Launchpad then select Anaconda Navigator. If it opens, you have successfully installed Anaconda.





Verifying Anaconda Installation (Method#2)

Conda

- To open Anaconda Prompt (or Terminal on Linux or macOS):
 - Windows: Open the Anaconda Prompt (Click Start, select Anaconda Prompt)
 - macOS: Open Launchpad, then open Terminal or iTerm.
 - Linux-CentOS: Open Applications System Tools Terminal.
 - Linux-Ubuntu: Open the Dash by clicking the upper left Ubuntu icon, then type "terminal".





Verifying Anaconda Installation (Method#2)

Conda

- After opening Anaconda prompt (Terminal on Linux or macOS), choose any of the following methods:
 - Enter a command such as "conda list". If Anaconda is installed and working, this will display a list of installed packages and their versions.

```
Anaconda Prompt
                                                                                  (base) C:\Users\
                       Dconda list
                                              P\AppData\Local\Continuum\anaconda3:
  packages in environment at C:\Users
 _ipyw__jlab_nb_ext_conf
                           0.1.0
                                            py36he6757f0_0
alabaster
                           0.7.10
                                            py36hcd07829_0
 ınaconda
                           custom
                                            py36h363777c_0
anaconda-client
                          1.7.2
anaconda-navigator
                          1.9.2
                                                     py36_0
                           0.8.0
                                            py36h8b3bf89_0
anaconda-project
asn1crypto
                           0.22.0
                                            py36h8e79faa_1
                          1.5.3
astroid
                                            py36h9d85297_0
                           2.0.2
                                            py36h06391c4_4
astropy
babe 1
                           2.5.0
                                            py36h35444c1_0
                          1.0
                                            py36h81696a8_1
backports
backports.shutil_get_terminal_size 1.0.0
                                                      py36h79ab834_2
beautifulsoup4
                           4.6.0
                                            py36hd4cc5e8_1
                           0.8.1
bitarray
                                            py36h6af124b 0
```



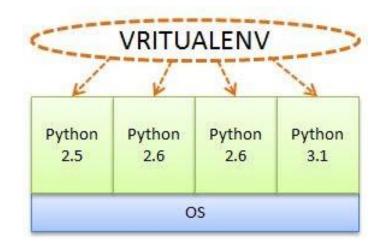


Step2. Create Virtual Env.

What is Virtual Environment?

Python Virtual Environment

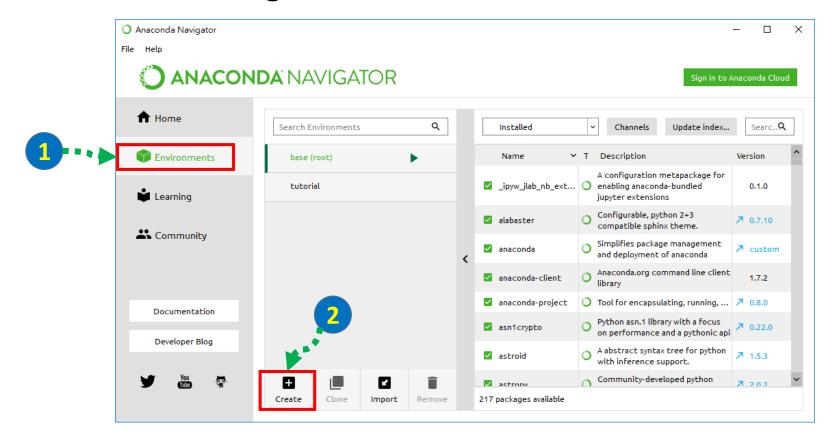
- The main purpose of Python virtual environments is to create an isolated environment for Python projects.
- This means that each project can have its own dependencies, regardless of what dependencies every other project has.





Step. 1

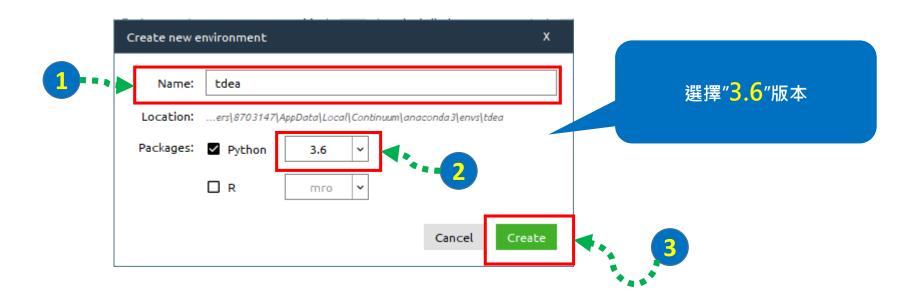
Open Anaconda Navigator





Step. 2

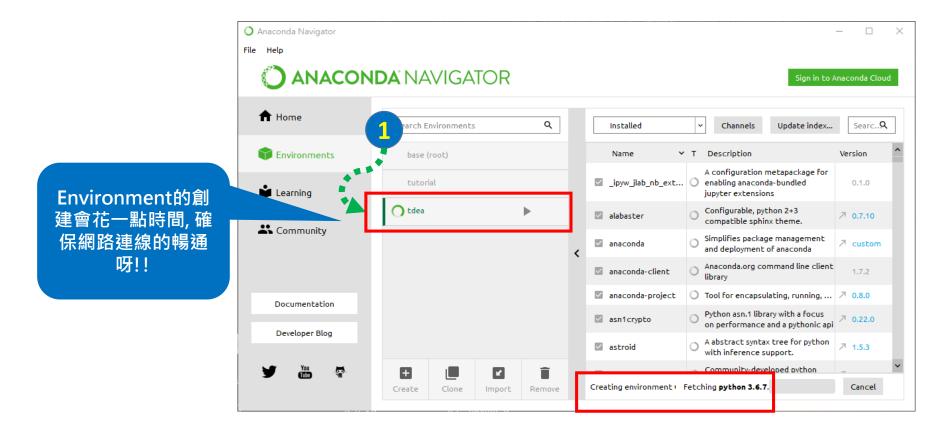
Open Anaconda Navigator





Step. 3

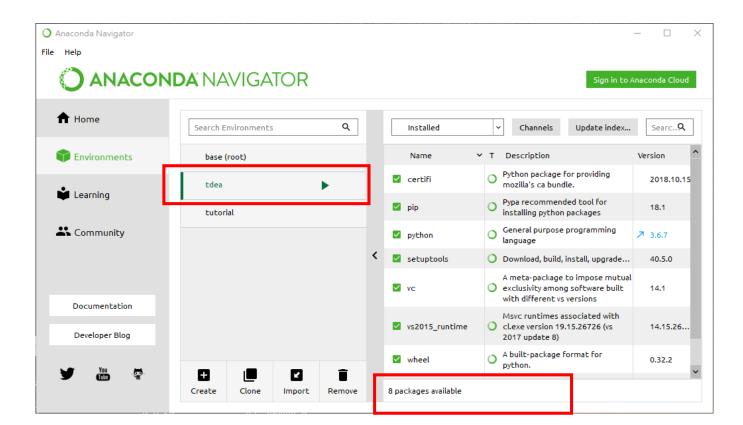
Waiting Anaconda to create environment





Step. 4

Anaconda complete environment creation





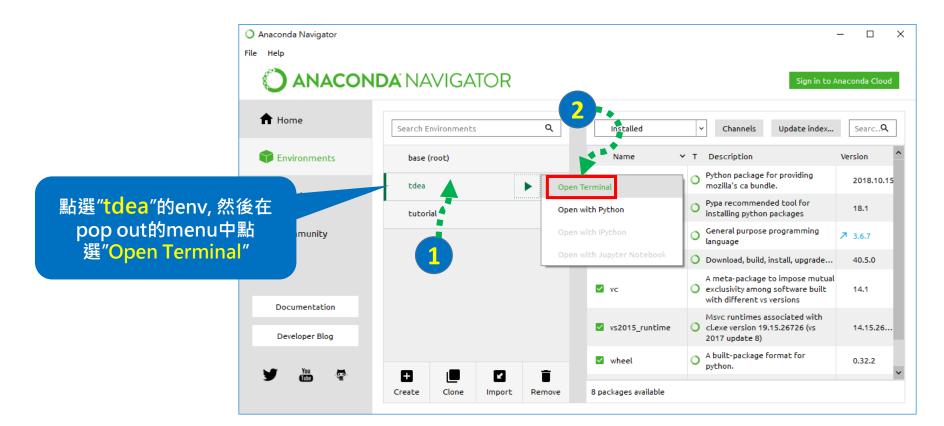


Step3. Install Kafka Client Lib.

Install Kafka Client Library

Step. 1

Open Virtual Environment Terminal





Install Kafka Client Library

Step. 2

Install "confluent-kafka" library

\$ pip install confluent-kafka==1.0.0rc1

有助教反應在Mac上安裝 1.0.0rc1會有錯誤訊息,如果有相 同問題的學員,可以安裝使用 confluent-kafka 0.11.6

pip install confluent-kafka==0.11.6

