How to start python

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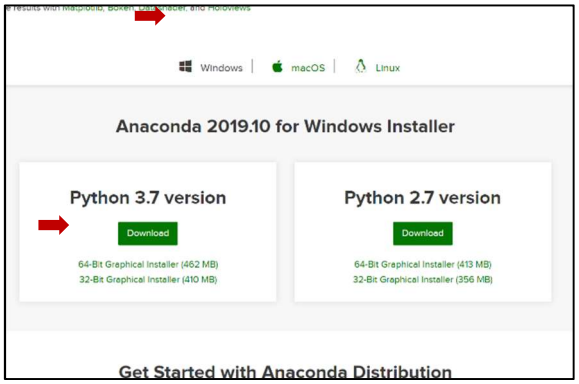
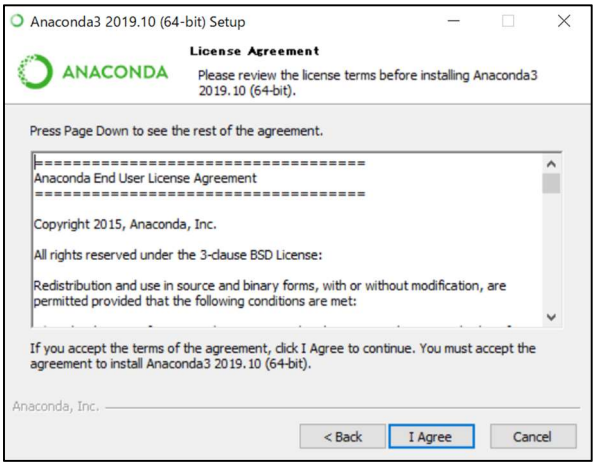
Install python (~15 min)

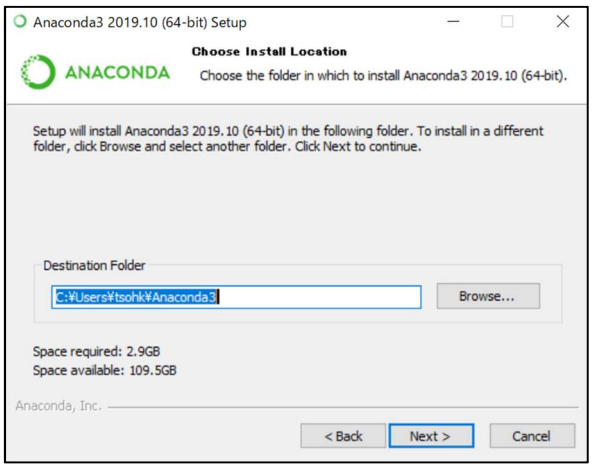


1. *Anaconda* is the package containing GUI and other extended functionalities for python. Go to the official website of anaconda (https://www.anaconda.com/distribution/) and install the **recent** version of the installer. It will take several minutes for installation. Do not forget to install one for your computer's OS (Win/mac).

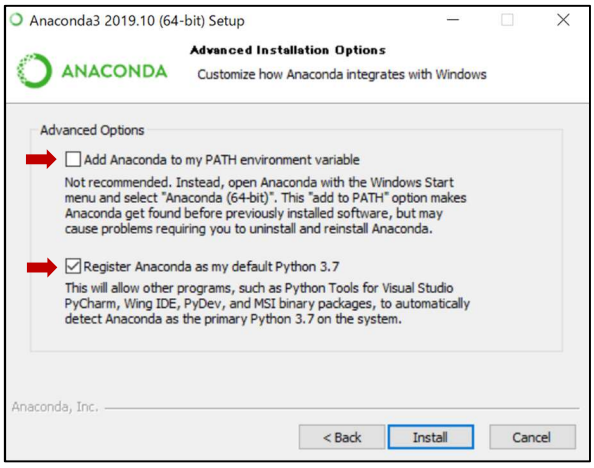
2. Execute the installer you have installed. Click "next" to continue.



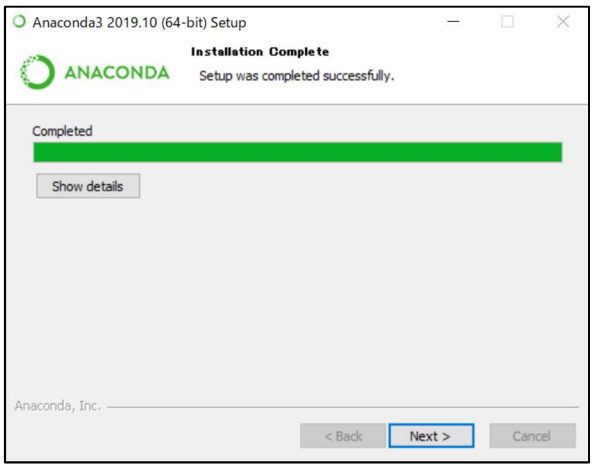
3. Click "I Agree".



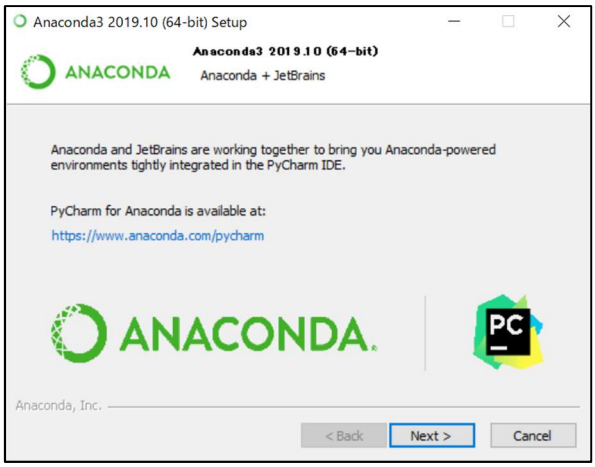
4. Choose the folder where Anaconda will be installed and click “Next”.



5. Set the checkboxes as the picture left. Click “Install”.



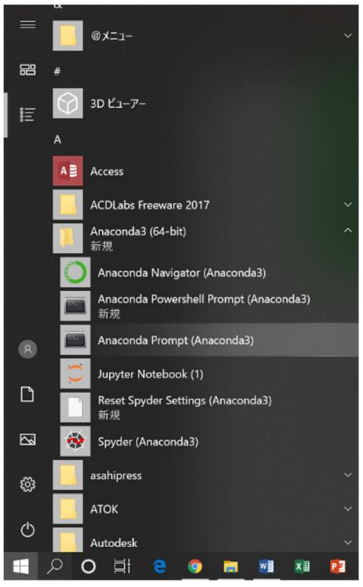
6. Wait until installation is completed. It will take ~10 min. Click “Next”.



7. Click “Next”.

8. Click “Finish”.

Update packages (5~10 min)



Packages or *modules* are the extended functionalities for python and we usually utilize them when we write and run the python codes. Although you have already installed some major packages together with Anaconda, you need to update them because they are often of too old versions. Here, I introduce how to update packages and which package should be updated.

1. Open “Anaconda Prompt”. You will be able to find it from the start menu.

2. For example, to update package X (this is an imaginary package), you can input "**pip install -U X**" in the console (see the picture below). So if you have a package to be updated, you can input the same code changing "X".

3. Update major packages showed below:

numpy

pandas

scipy

sys

For instance, you can input "**pip install -U numpy**" to update **numpy**.

Run python scripts (~5 min)

You have completed all the preparations to run python scripts. Let's write a short sample code and execute it.

1. Write a sample code.

Make a text file containing strings showed below and save as "test.txt".

```
print("Hello, world!")
input()
```

Change the file name from "test.txt" to "test.py" ("**.py**" is the extension for python scripts).

2. Execute the script.

Double-click the file in the file explore.

A console window saying "Hello, world!" will appear.

Input Enter to close the window.

Basically, you can execute any python script by double-clicking it. I will distribute scripts for your data analysis later. Enjoy!