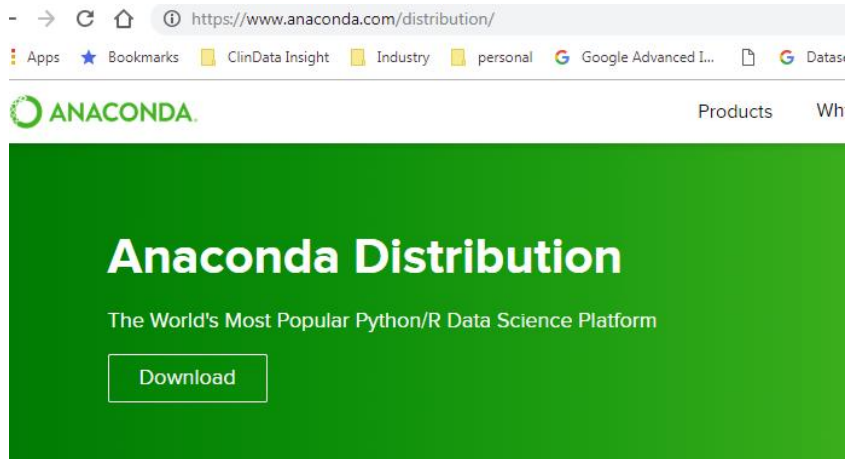
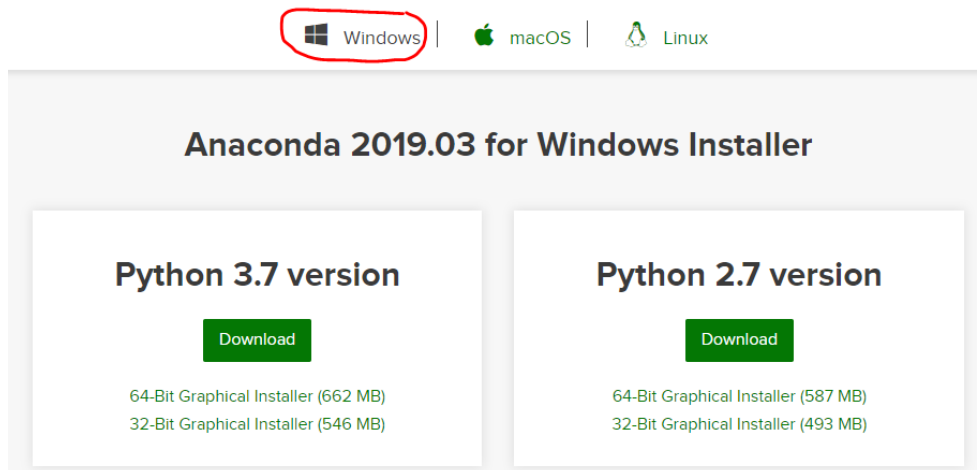


How to install Anaconda (Jupyter Notebook)

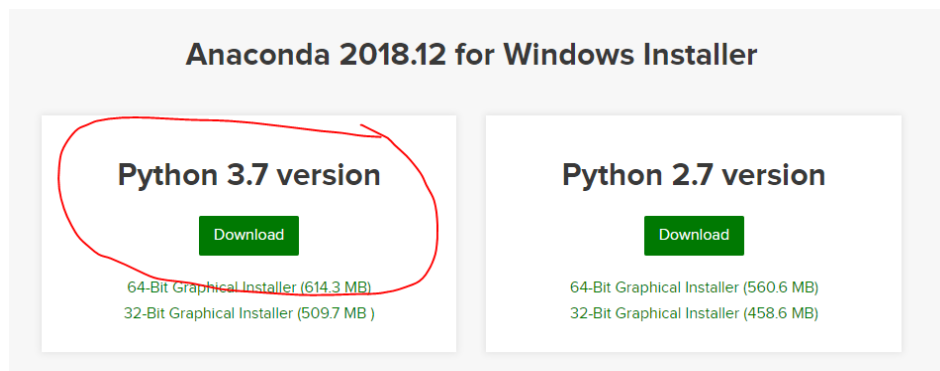
- Go to Anaconda website in <https://www.anaconda.com/distribution/>.
- Click on "Download"



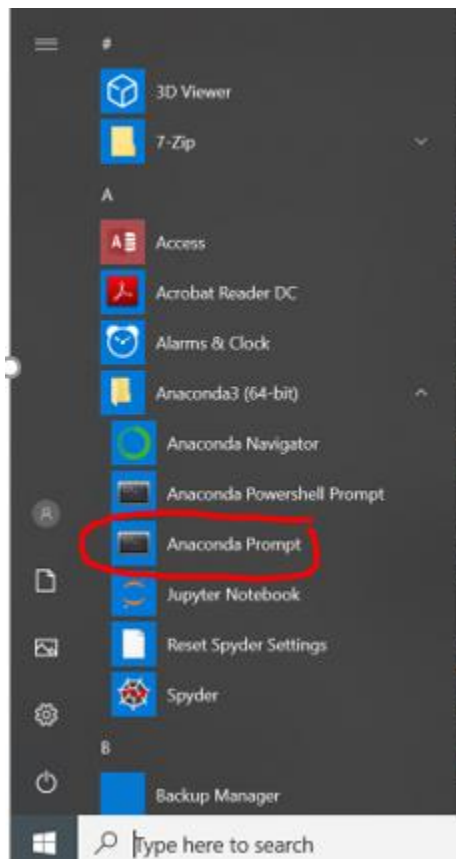
- There are three different OS system. You can choose the one appropriate for your system. On this example, we select "Windows".



- In next screen, download Python 3.7 version.



- It will download executable files Anaconda - Anaconda3-2018.12-Windows-x86_64.exe.
- Open Anaconda executable file and follow the instructions to install Anaconda (Jupyter notebook).
- Once Anaconda is installed, you will see "Anaconda Prompt" application in your computer.



- Click on "Anaconda Prompt". It will open "Anaconda Prompt" Command line as shown below.

```
Anaconda Prompt
(base) C:\Users\klee>
```

- Change the directory to where your python codes are saved by typing “cd ...” and enter it.

```
Anaconda Prompt
(base) C:\Users\KevinLee>cd C:\zother\training\Python\code
```

- Type “jupyter notebook” and enter

```
Anaconda Prompt
(base) C:\Users\KevinLee>cd C:\zother\training\Python\code
(base) C:\zother\training\Python\code>jupyter notebook
```

- It will open Jupyter notebook in your browser like below.

jupyter

Files Running Clusters

Select items to perform actions on them.

Upload New ↺

	Name ↓	Last Modified	File size
<input type="checkbox"/>	data	a month ago	
<input type="checkbox"/>	reference	a month ago	
<input type="checkbox"/>	Basic Python Programming.ipynb	6 months ago	201 kB
<input type="checkbox"/>	ch08 - visualization.ipynb	a year ago	674 kB
<input type="checkbox"/>	Part 1 - Python Variables.ipynb	11 days ago	46.2 kB
<input type="checkbox"/>	Part 2 - Basic Data Wrangling, Functions and Classes.ipynb	6 months ago	186 kB
<input type="checkbox"/>	Part 3 - Numpy and Dataframe.ipynb	6 months ago	282 kB
<input type="checkbox"/>	Part 4 - Reading and writing files.ipynb	6 months ago	290 kB
<input type="checkbox"/>	Part 5 - Advanced Data Analysis.ipynb	6 months ago	58 kB
<input type="checkbox"/>	Part 6 - Data Visualization.ipynb	6 months ago	272 kB

- You can click any program. Here, let’s click on “Part 1 – Python Variables”.



n

300

400

← m

```
In [1]: var = 1
var1 = 2
var_1 = 3
_var = 4
var4 = 10
```

```
In [2]: print(var)
print(var1)
print(var_1)
print(_var)
print(var4)
```

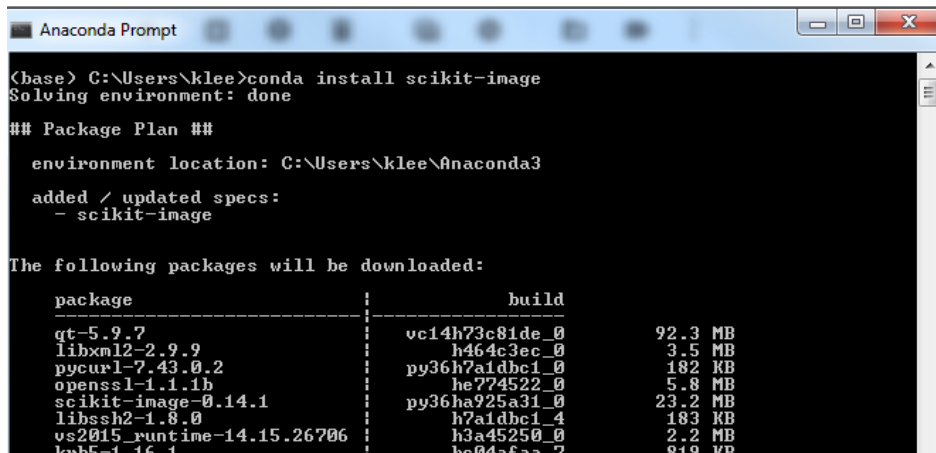
```
1
2
3
4
10
```

- Now, you can run your Python Program in Jupyter notebook.

How to import Machine Learning Model in your working environment

Once Anaconda Prompt is installed, you can download Python Machine Learning Algorithms - keras, tensorflow, sklearn, scipy and scikit-image.

For example, type “conda install scikit-image” on “Anaconda Prompt” command line as shown below.



```
(base) C:\Users\klee>conda install scikit-image
Solving environment: done

## Package Plan ##

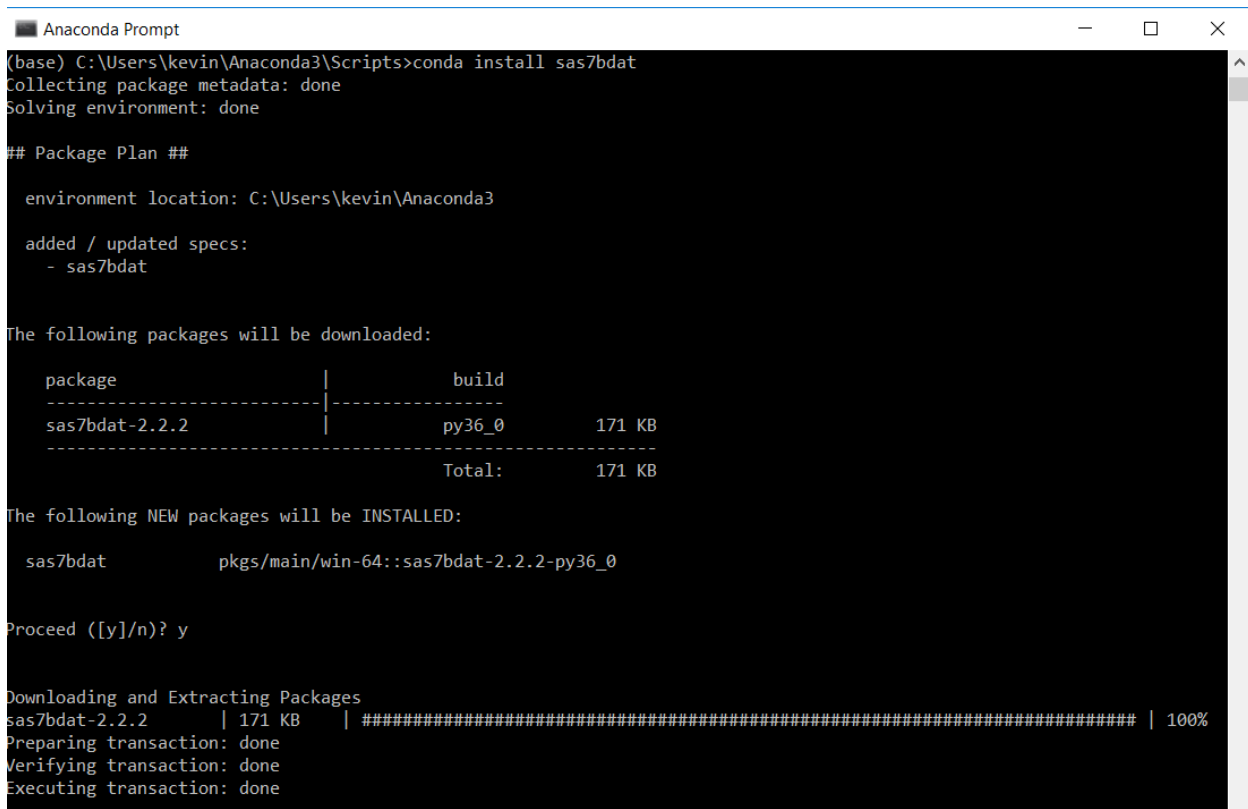
  environment location: C:\Users\klee\Anaconda3

  added / updated specs:
    - scikit-image

The following packages will be downloaded:

package                                     build                                92.3 MB
qt-5.9.7                                   vc14h73c81de_0
libxml2-2.9.9                             h464c3ec_0                          3.5 MB
pycurl-7.43.0.2                           py36h7a1dbc1_0                      182 KB
openssl-1.1.1b                            he724522_0                          5.8 MB
scikit-image-0.14.1                       py36ha925a31_0                      23.2 MB
libssh2-1.8.0                             h7a1dbc1_4                          183 KB
vs2015_runtime-14.15.26706                h3a45250_0                          2.2 MB
krb5-1.16.1                               hc04afaa_2                          819 KB
```

Type “conda install sas7bdat”



```
(base) C:\Users\kevin\Anaconda3\Scripts>conda install sas7bdat
Collecting package metadata: done
Solving environment: done

## Package Plan ##

  environment location: C:\Users\kevin\Anaconda3

  added / updated specs:
    - sas7bdat

The following packages will be downloaded:

package                                     build                                171 KB
sas7bdat-2.2.2                             py36_0
-----
Total:                                     171 KB

The following NEW packages will be INSTALLED:

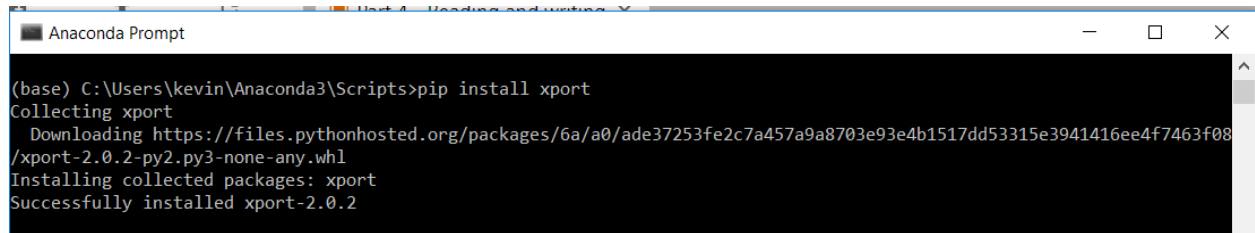
sas7bdat                                pkgs/main/win-64::sas7bdat-2.2.2-py36_0

Proceed ([y]/n)? y

Downloading and Extracting Packages
sas7bdat-2.2.2 | 171 KB | ##### | 100%
Preparing transaction: done
Verifying transaction: done
Executing transaction: done
```

Sometime, conda does not have the most advanced ML algorithm and it won't be available. Then, go to your anaconda environment and move to “scripts” folder. Usually, it is in “C:\users\your name)\Anaconda3\Scripts” as seen below.

For example, xport library, you should move to anaconda environment and type “pip install xport” in “Anaconda Prompt”.

A screenshot of the Anaconda Prompt window. The title bar reads "Anaconda Prompt". The command prompt shows the following text:

```
(base) C:\Users\kevin\Anaconda3\Scripts>pip install xport
Collecting xport
  Downloading https://files.pythonhosted.org/packages/6a/a0/ade37253fe2c7a457a9a8703e93e4b1517dd53315e3941416ee4f7463f08/xport-2.0.2-py2.py3-none-any.whl
Installing collected packages: xport
Successfully installed xport-2.0.2
```

Enjoy Jupyter notebook!!!