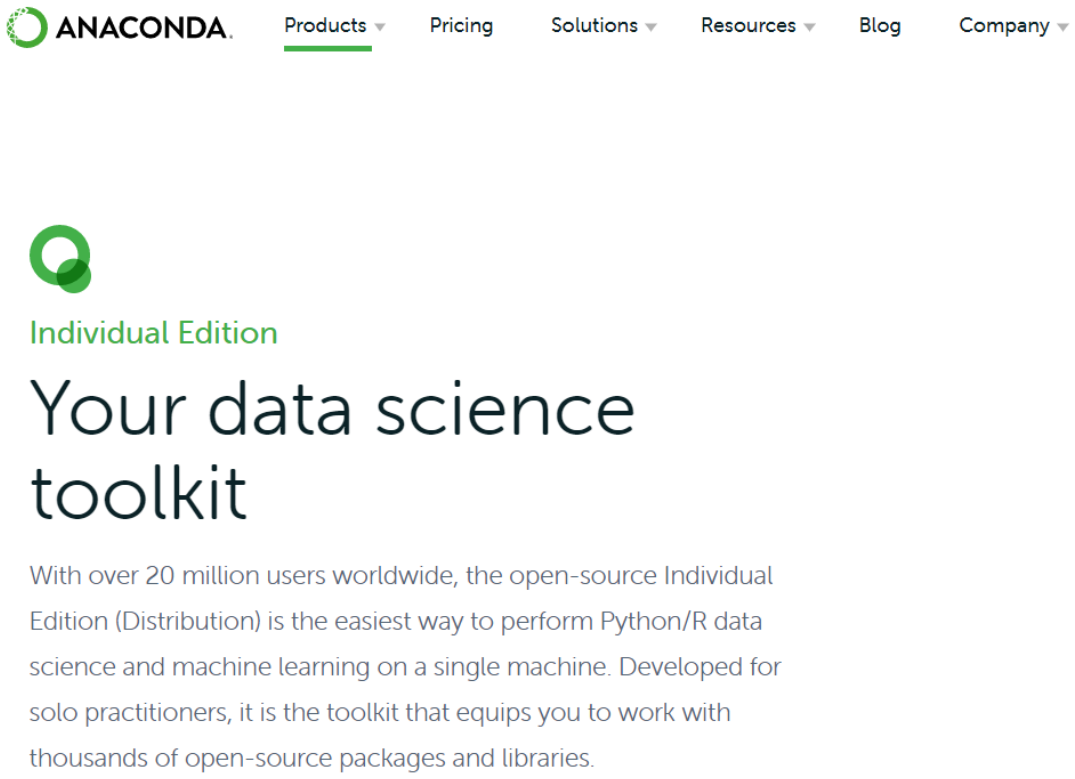
Hexaton Class : Ananconda & 가상환경 설정 (win)

Presented by Hyuk Jun Yoo 2020-12-27

Anaconda

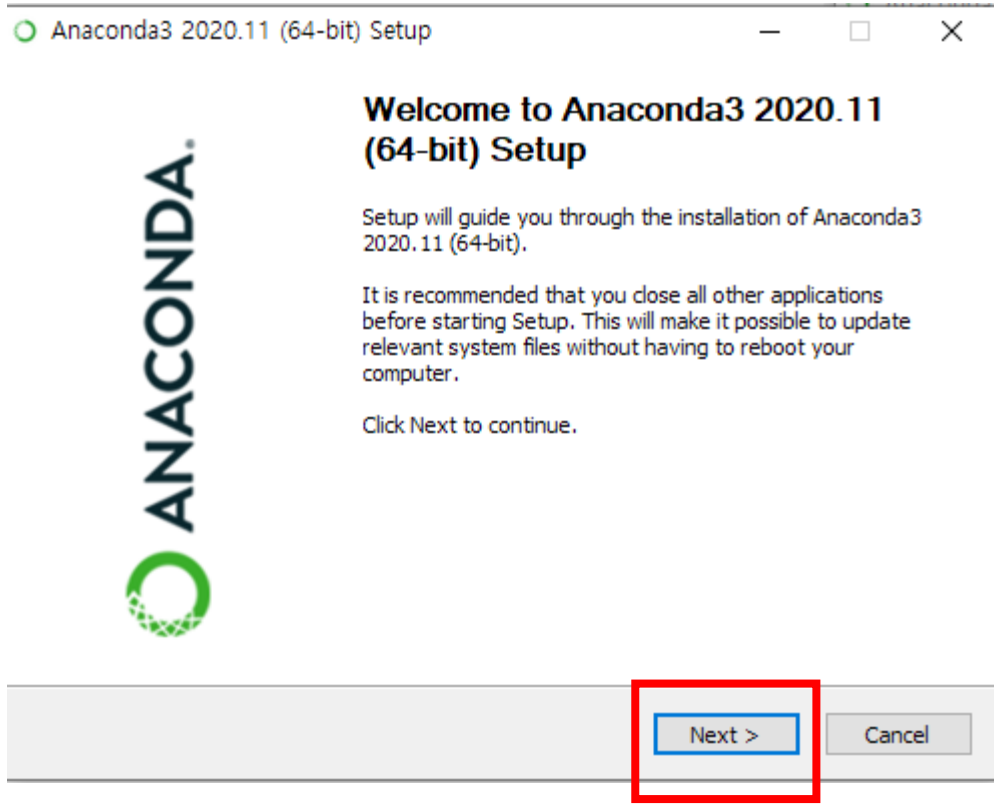


- Ananconda 다운로드, 아래 링크로 들어가기
- https://www.anaconda.com/products/individual

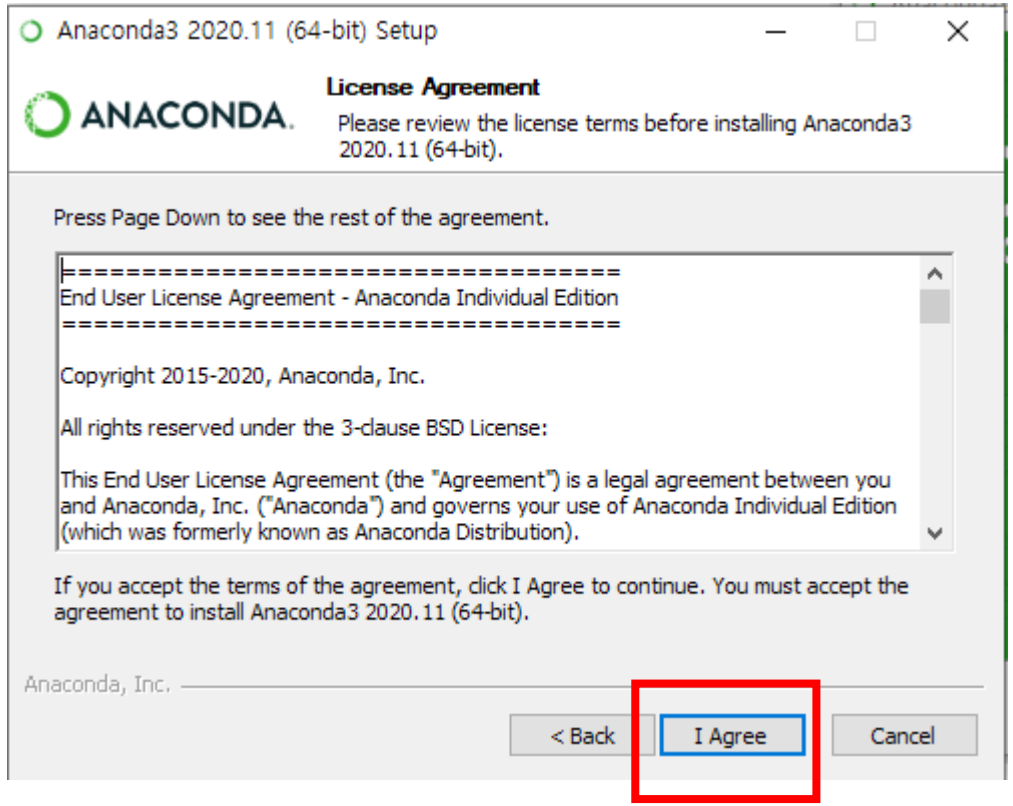
Anaconda

- 64-bit installer 클릭해서 다운로드 받기

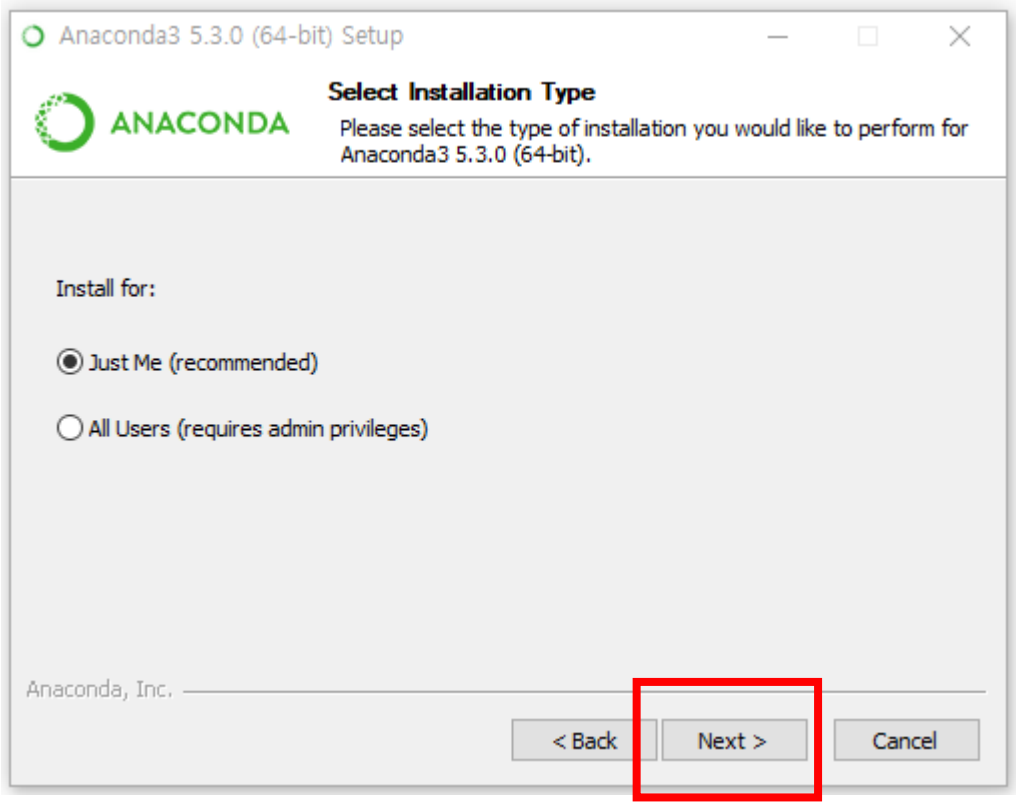
Anaconda


Anaconda3 2020.11 (64-bit) Setup
Welcome to Anaconda3 2020.11 (64-bit) Setup
Setup will guide you through the installation of Anaconda3 2020.11 (64-bit).
It is recommended that you close all other applications before starting Setup. This will make it possible to update relevant system files without having to reboot your computer.
Click Next to continue.
ANACONDA.
Next >
Cancel

Anaconda

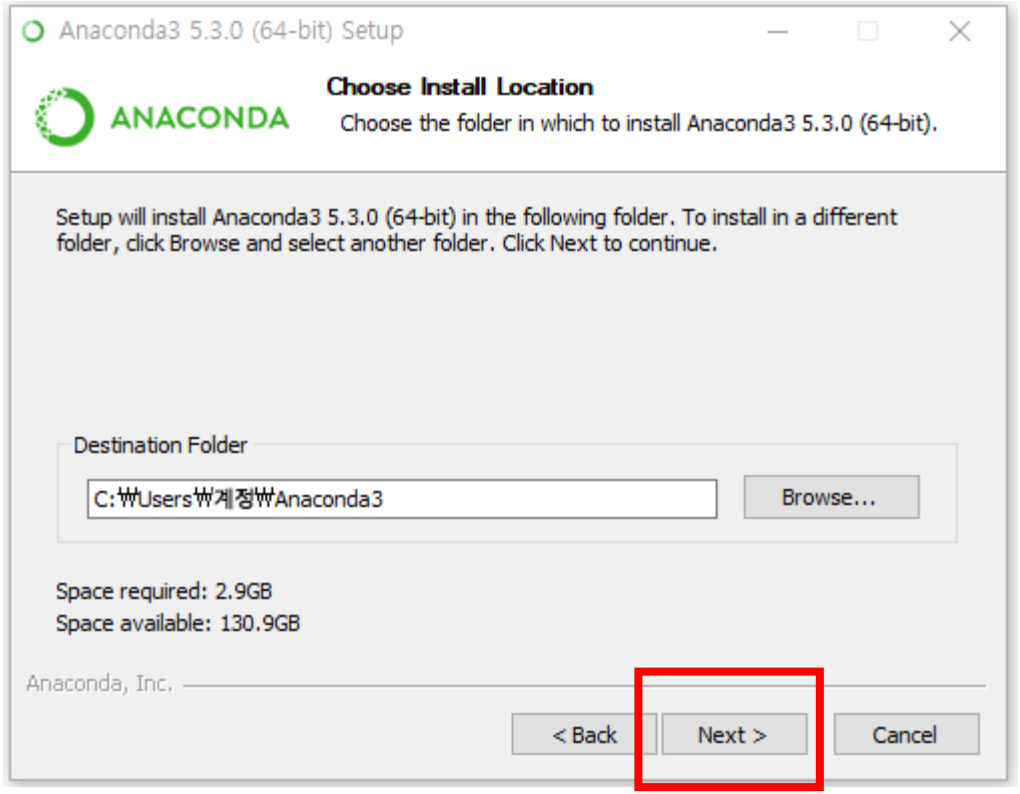

Anaconda3 2020.11 (64-bit) Setup
ANACONDA.
License Agreement
Please review the license terms before installing Anaconda3 2020.11 (64-bit).
Press Page Down to see the rest of the agreement.
==========
End User License Agreement - Anaconda Individual Edition
==========
Copyright 2015-2020, Anaconda, Inc.
All rights reserved under the 3-clause BSD License:
This End User License Agreement (the "Agreement") is a legal agreement between you and Anaconda, Inc. ("Anaconda") and governs your use of Anaconda Individual Edition (which was formerly known as Anaconda Distribution).
If you accept the terms of the agreement, click I Agree to continue. You must accept the agreement to install Anaconda3 2020.11 (64-bit).
Anaconda, Inc.
< Back
I Agree
Cancel

Anaconda



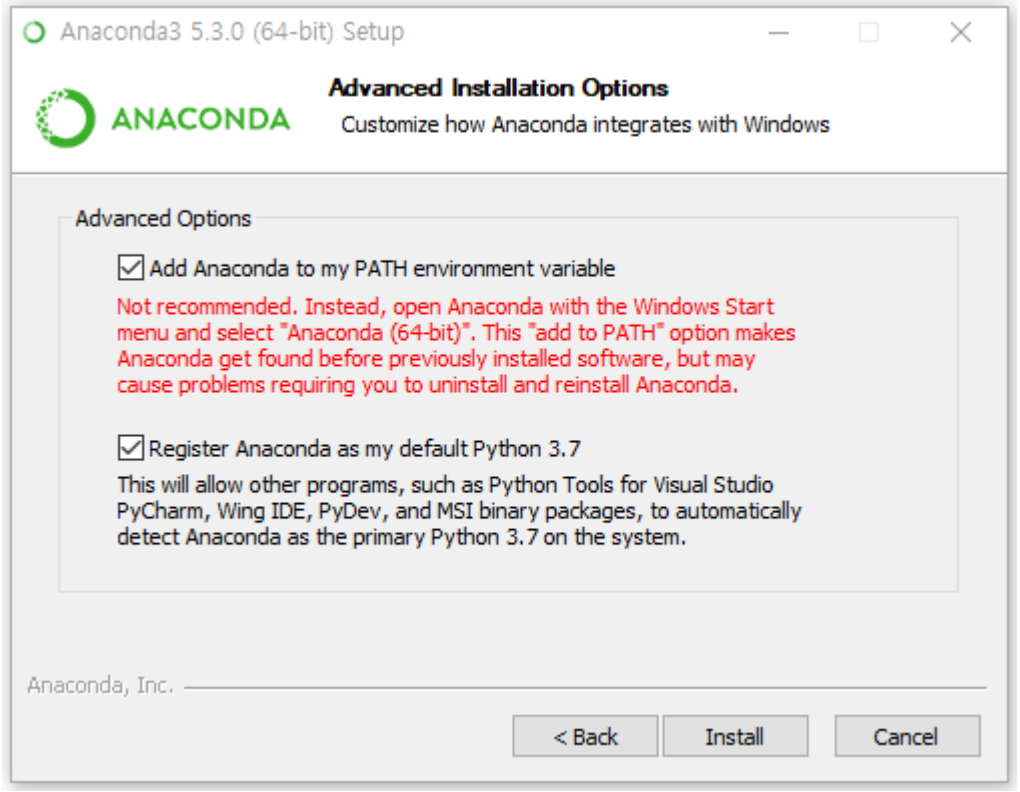
- Just Me 클릭하기

Anaconda



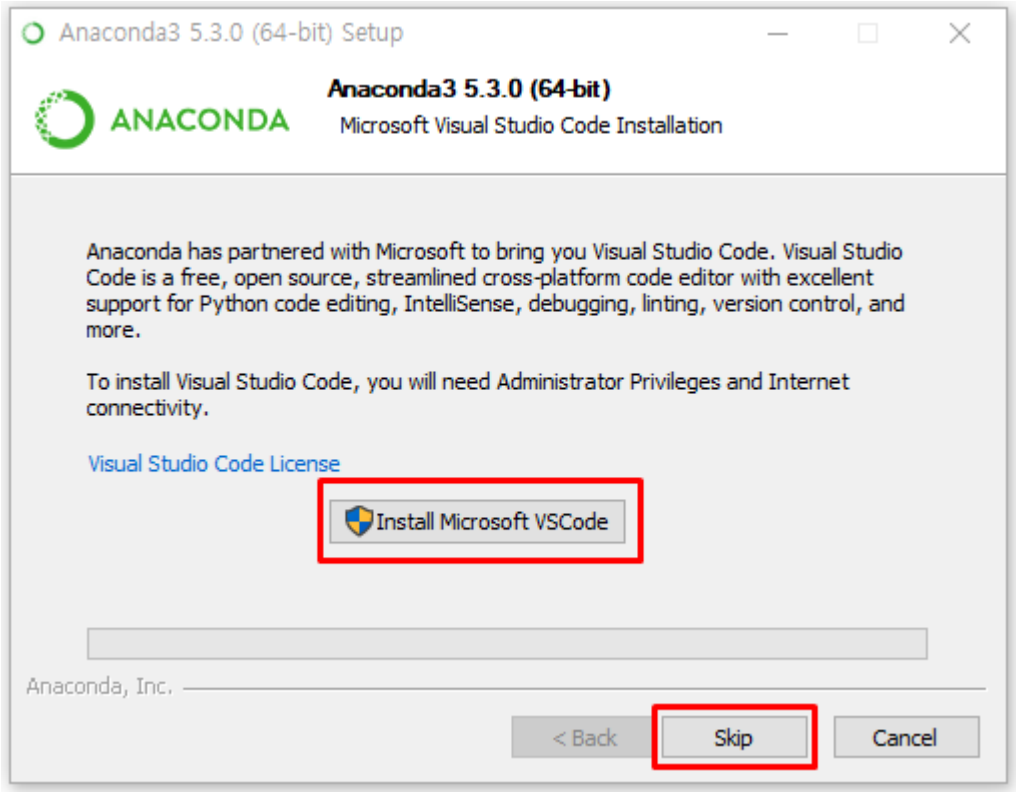
- 계정은 여러분들의 컴퓨터 이름일 겁니다!
- 이 때, 자기 컴퓨터가 한글이름이라면 바로 바꿔주세요. 나중에 무조건 에러납니다. 무조건 바꾸세요!!!!

Anaconda



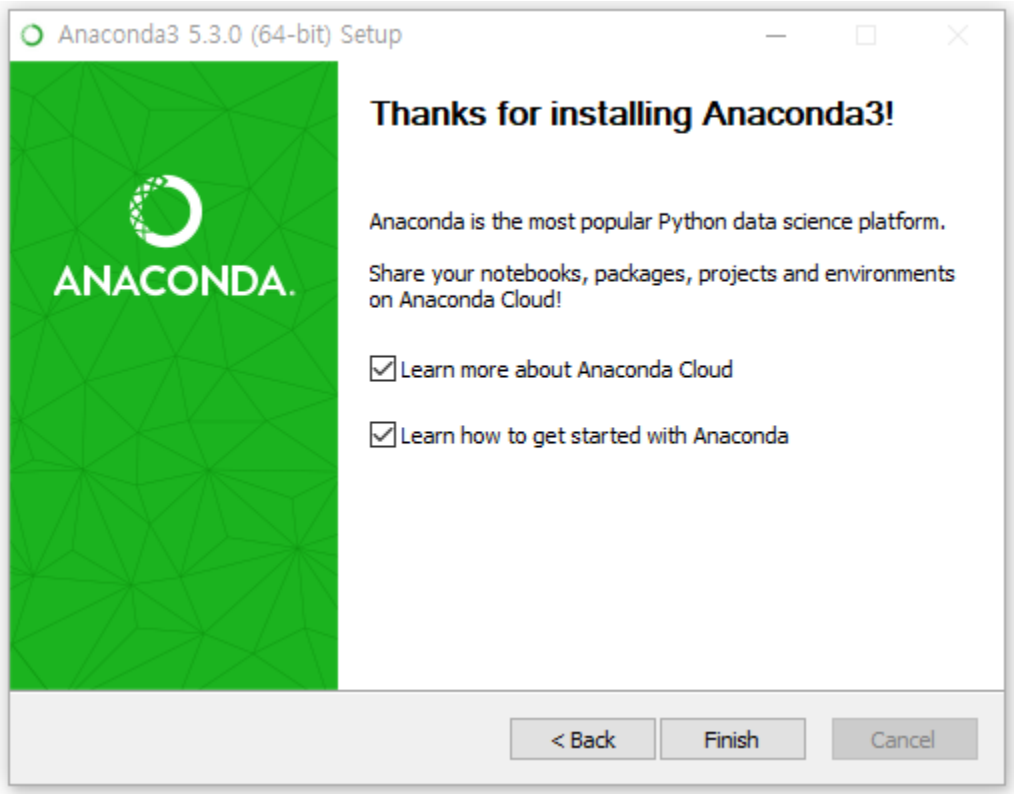
- 위의 그림처럼 옵션 모두 선택해주세요!

Anaconda



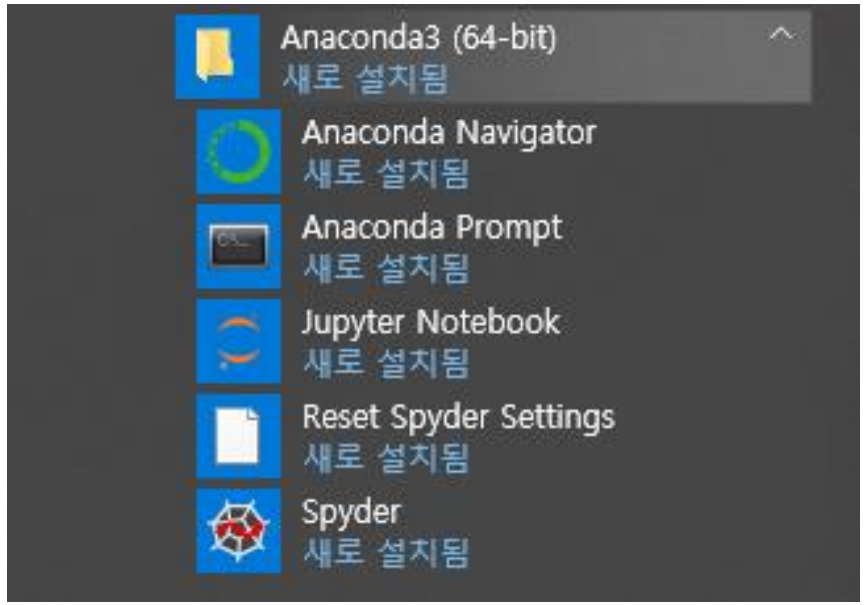
- 여러분들의 VSCode 가 안 깔려있다면 Install Microsoft VSCode 클릭해서 install 하시면 됩니다.
- 만약 미리 깔려있다면 Skip을 누르시면 됩니다.

Anaconda


Anaconda3 5.3.0 (64-bit) Setup
ANACONDA.
Thanks for installing Anaconda3!
Anaconda is the most popular Python data science platform.
Share your notebooks, packages, projects and environments on Anaconda Cloud!
Learn more about Anaconda Cloud
Learn how to get started with Anaconda
< Back
Finish
Cancel

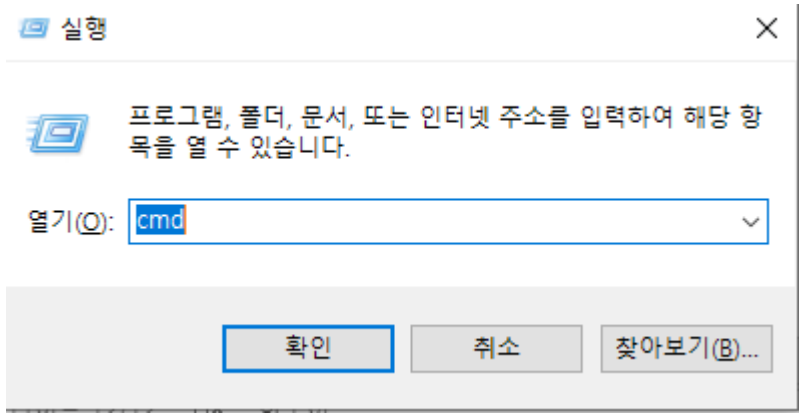
- **완성!!!**

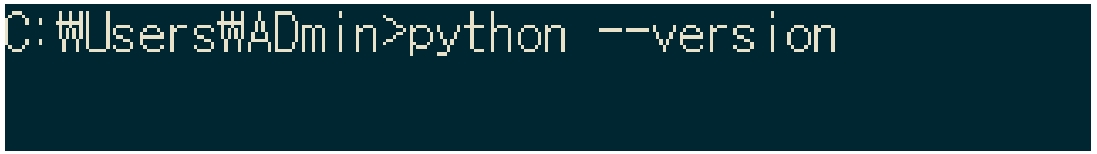
Anaconda



- 윈도우 시작 메뉴에서 설치된 것을 확인해주세요!!

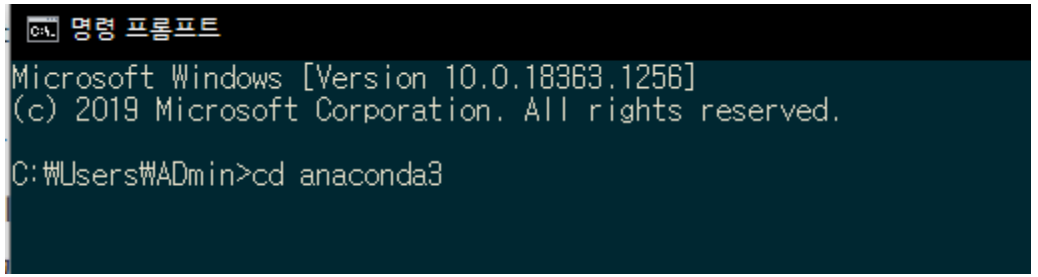
Anaconda





- Win + R 을 누르시고 cmd를 입력 후 enter
- python --version 명령어를 입력하고 python version 명령어 입력해서 python 3.8.x 가 나오는 것을 확인해주세요!

Anaconda 가상환경 설정



- Cmd 창에서 cd anaconda3 입력 후 enter

Anaconda 가상환경 설정

```
C:₩Users₩ADmin₩anaconda3>conda create -n sample
Collecting package metadata (current_repodata.json): done
Solving environment: done


==> WARNING: A newer version of conda exists. <==
  current version: 4.8.3
  latest version: 4.9.2

Please update conda by running

    $ conda update -n base -c defaults conda


## Package Plan ##

  environment location: C:₩Users₩ADmin₩anaconda3₩envs₩sample


Proceed ([y]/n)?
```

- conda create -n {여러분들의 가상환경 이름, ex) hexaton-1} 입력
- 저는 sample로 했습니다. (이 슬라이드 이후로 {} 표시는 여러분들의 가상환경을 의미합니다. 명령어에 {} 앞으로 빼고 치세요!!!! 제발)
- Proceed ([y] / n)? 명령어가 뜨면 Enter

Anaconda 가상환경 설정

```
C:₩Users₩ADmin₩anaconda3>conda env list
# conda environments:
#
base                  *  C:₩Users₩ADmin₩anaconda3
classpage                C:₩Users₩ADmin₩anaconda3₩envs₩classpage
ml                       C:₩Users₩ADmin₩anaconda3₩envs₩ml
sample                   C:₩Users₩ADmin₩anaconda3₩envs₩sample
tensorflow               C:₩Users₩ADmin₩anaconda3₩envs₩tensorflow
text                     C:₩Users₩ADmin₩anaconda3₩envs₩text
web                      C:₩Users₩ADmin₩anaconda3₩envs₩web
```

- conda env list 명령어 입력
- 아마 여러분들의 가상환경 목록이 나타날 겁니다. Base와 여러분들의 가상환경 이름이 떴다면 끝!!

Anaconda 가상환경 설정

과제!!! (캡처하기)

```
C:₩Users₩ADmin₩anaconda3>conda activate sample

(sample) C:₩Users₩ADmin₩anaconda3>

(sample) C:₩Users₩ADmin₩anaconda3>conda deactivate

C:₩Users₩ADmin₩anaconda3>
```

- conda activate {가상환경 이름} 명령어 입력
- (가상환경 이름) 하고 command가 바뀌었을 겁니다. 그럼 가상환경이 동작하고 있다는 증거!! 가상환경 활성화 끝!
- 가상환경 비활성화는 conda deactivate 하면 가상환경 끝낸 것

Anaconda jupyter notebook

```
(sample) C:₩Users₩ADmin₩anaconda3>cd envs

(sample) C:₩Users₩ADmin₩anaconda3₩envs>cd sample

(sample) C:₩Users₩ADmin₩anaconda3₩envs₩sample>conda install jupyter
Collecting package metadata (current_repodata.json): done
Solving environment: failed with initial frozen solve. Retrying with flexible solve.
Solving environment: failed with repodata from current_repodata.json, will retry with next repodata source.
Collecting package metadata (repodata.json): done
Solving environment: done
```

- 다시 conda activate {가상환경 이름}
- cd envs → cd {가상환경 이름} → conda install jupyter

Anaconda jupyter notebook

```
  six                pkgs/main/win-64::six-1.15.0-py39haa95532_0
  sqlite             pkgs/main/win-64::sqlite-3.33.0-h2a8f88b_0
  terminado          pkgs/main/win-64::terminado-0.9.1-py39haa95532_0
  testpath           pkgs/main/noarch::testpath-0.4.4-py_0
  tornado            pkgs/main/win-64::tornado-6.1-py39h2bbff1b_0
  traitlets          pkgs/main/noarch::traitlets-5.0.5-py_0
  tzdata             pkgs/main/noarch::tzdata-2020d-h14c3975_0
  vc                 pkgs/main/win-64::vc-14.2-h21ff451_1
  vs2015_runtime     pkgs/main/win-64::vs2015_runtime-14.27.29016-h5e58377_2
  wcwidth            pkgs/main/noarch::wcwidth-0.2.5-py_0
  webencodings       pkgs/main/win-64::webencodings-0.5.1-py39haa95532_1
  wheel              pkgs/main/noarch::wheel-0.36.2-pyhd3eb1b0_0
  widgetsnbextension pkgs/main/win-64::widgetsnbextension-3.5.1-py39haa95532_0
  wincertstore       pkgs/main/win-64::wincertstore-0.2-py39h2bbff1b_0
  winpty             pkgs/main/win-64::winpty-0.4.3-4
  zeromq             pkgs/main/win-64::zeromq-4.3.3-ha925a31_3
  zipp               pkgs/main/noarch::zipp-3.4.0-pyhd3eb1b0_0
  zlib               pkgs/main/win-64::zlib-1.2.11-h62dcd97_4


Proceed ([y]/n)?
```

```
done

(sample) C:₩Users₩ADmin₩anaconda3₩envs₩sample>
```

- 조금 기다리면 아마 엄청나게 많은 command 들이 뜨고 Proceed가 나옵니다. → Enter 누르기!
- Done 이 나오면서 완료되는 것을 확인해주세요!

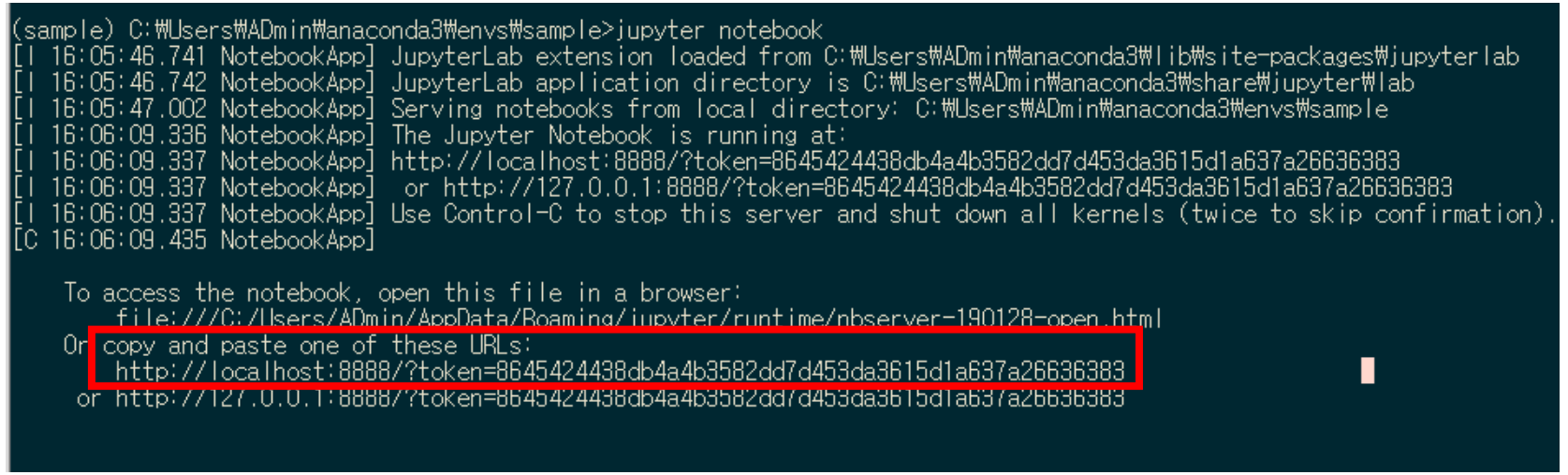
Anaconda jupyter notebook

```
(sample) C:₩Users₩ADmin₩anaconda3₩envs₩sample>python -m ipykernel install --user --name sample --display-name "Python 3.
8 : sample"
Installed kernelspec sample in C:₩Users₩ADmin₩AppData₩Roaming₩jupyter₩kernels₩sample

(sample) C:₩Users₩ADmin₩anaconda3₩envs₩sample>
```

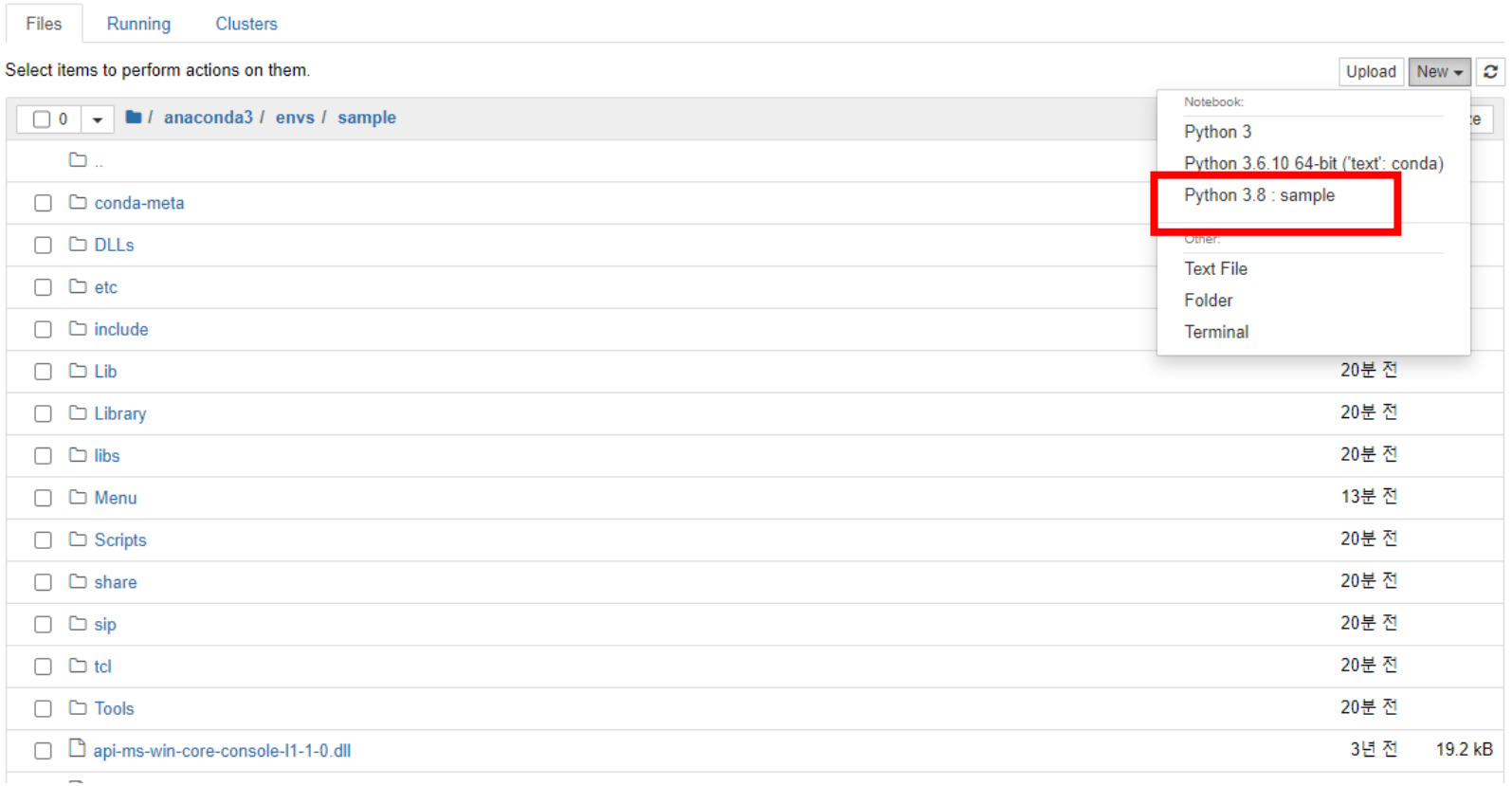
- Python -m ipykernel install --user --name {가상환경 이름} --display-name “Python 3.8 : {가상환경 이름}”
- 저는 가상환경 이름이 sample이기 때문에 sample로 넣었습니다.

Anaconda jupyter notebook



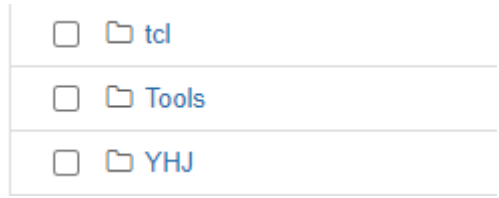
- jupyter notebook 명령어 입력
- 박스 안에 http://localhost:8888/~~ 라고 되어있는 부분 복사해서 크롬 브라우저에 복사 붙여넣기

Anaconda jupyter notebook



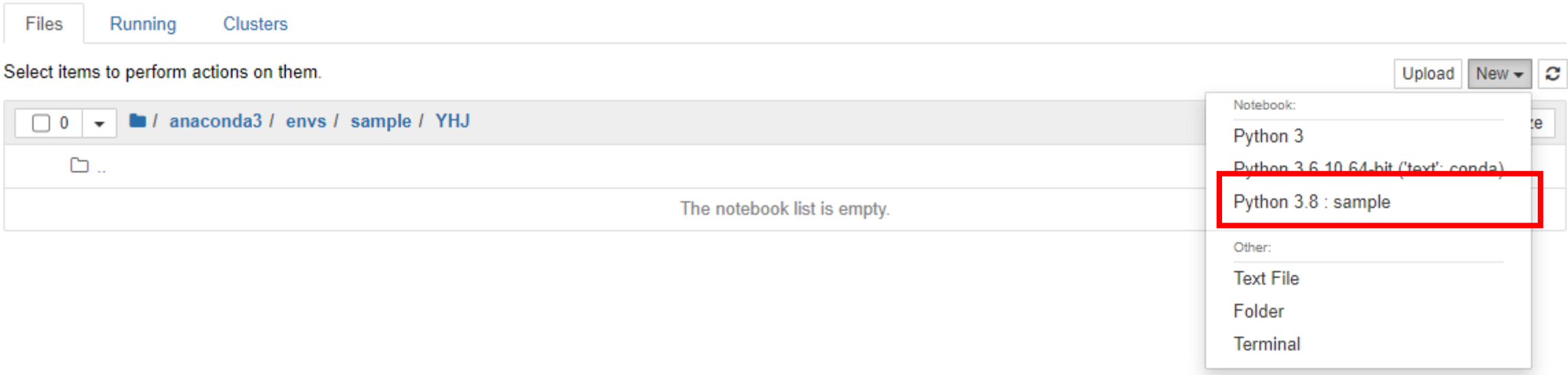
- 완료되면 이런식의 화면이 나오고, New를 눌러보시면 Python 3.8 : { 가상환경 이름} 이 무조건 나와야합니다! 안나오면 안되용

Anaconda jupyter notebook



- New 를 클릭한 후, Folder를 생성한 후
- Untitled Folder 옆에 체크박스를 클릭한 후, rename을 눌러주세요
- 이름은 {자신 이름 이니셜, 유혁준이면 YHJ} 라고 만들어주세요

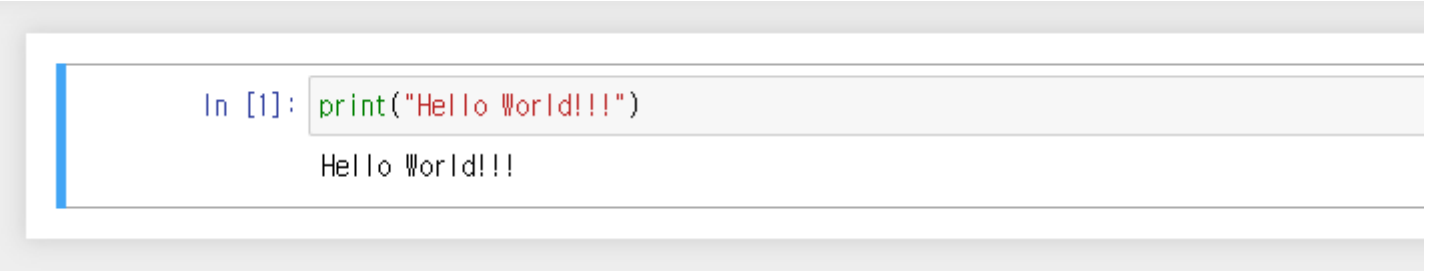
Anaconda jupyter notebook



- New를 눌러서 Python 3.8 : {가상환경 이름} 을 클릭해주세요!

Anaconda jupyter notebook

과제!!! (캡처하기)



- print("Hello World!!!") 입력 후, ctrl+enter
- 출력 나오는 것을 확인한다.