



Round 4

**PRESS
START**



<< Round 4 >>

- Git과 Github
- 가상환경
- Jupyter Lab

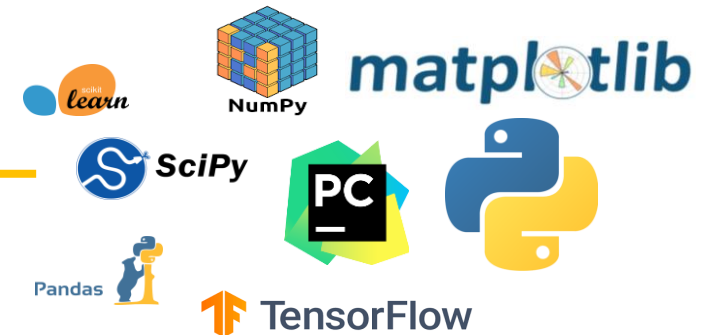


New
Assignment

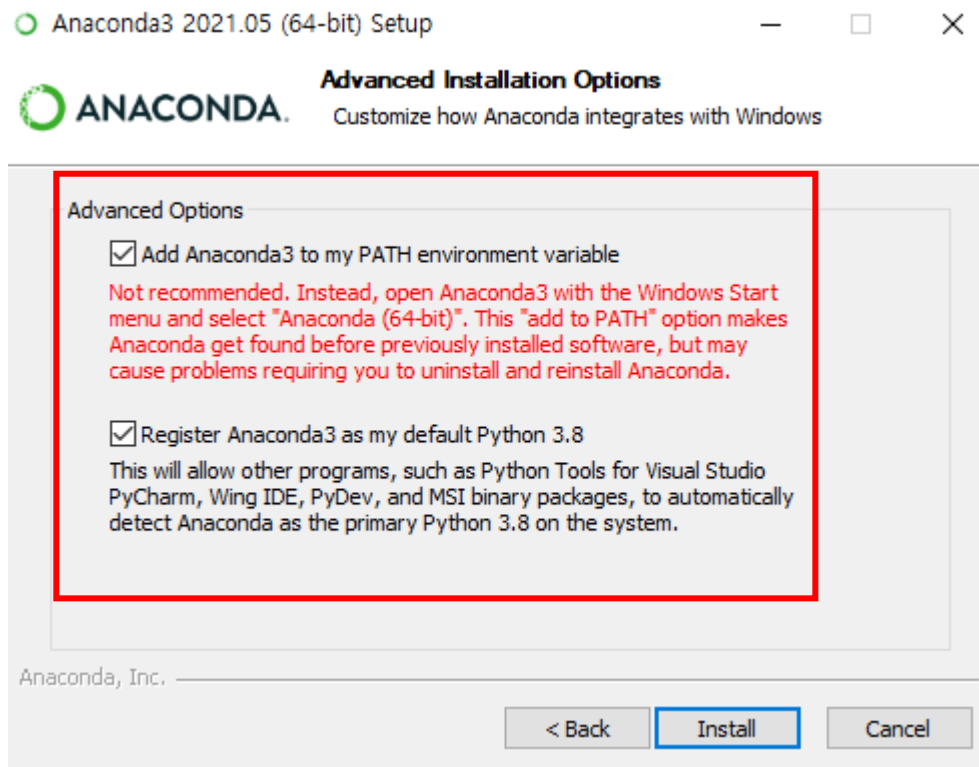




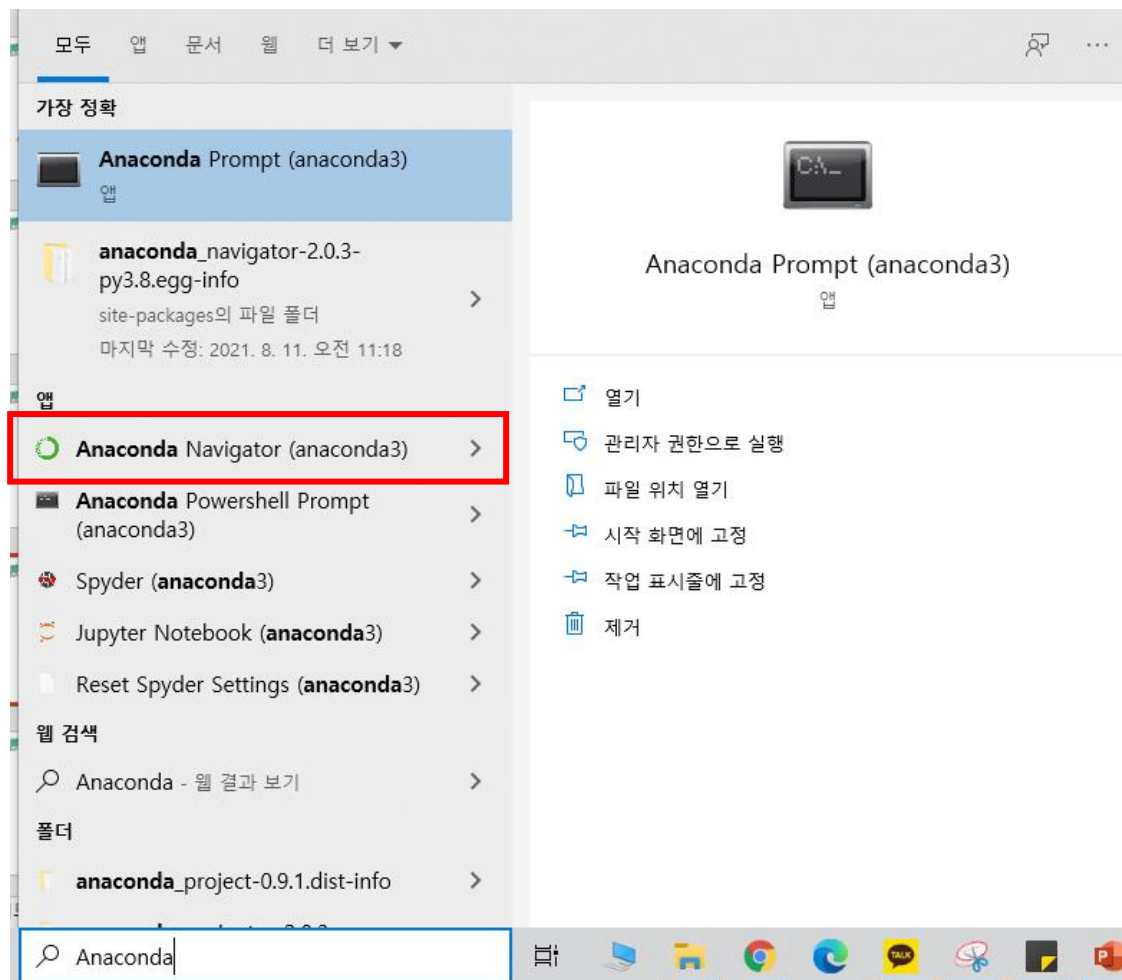
- Anaconda는 파이썬의 배포판
- 특정 용도의 소프트웨어 패키지를 묶어서 제공
 - 각종 가상환경 구축 가능



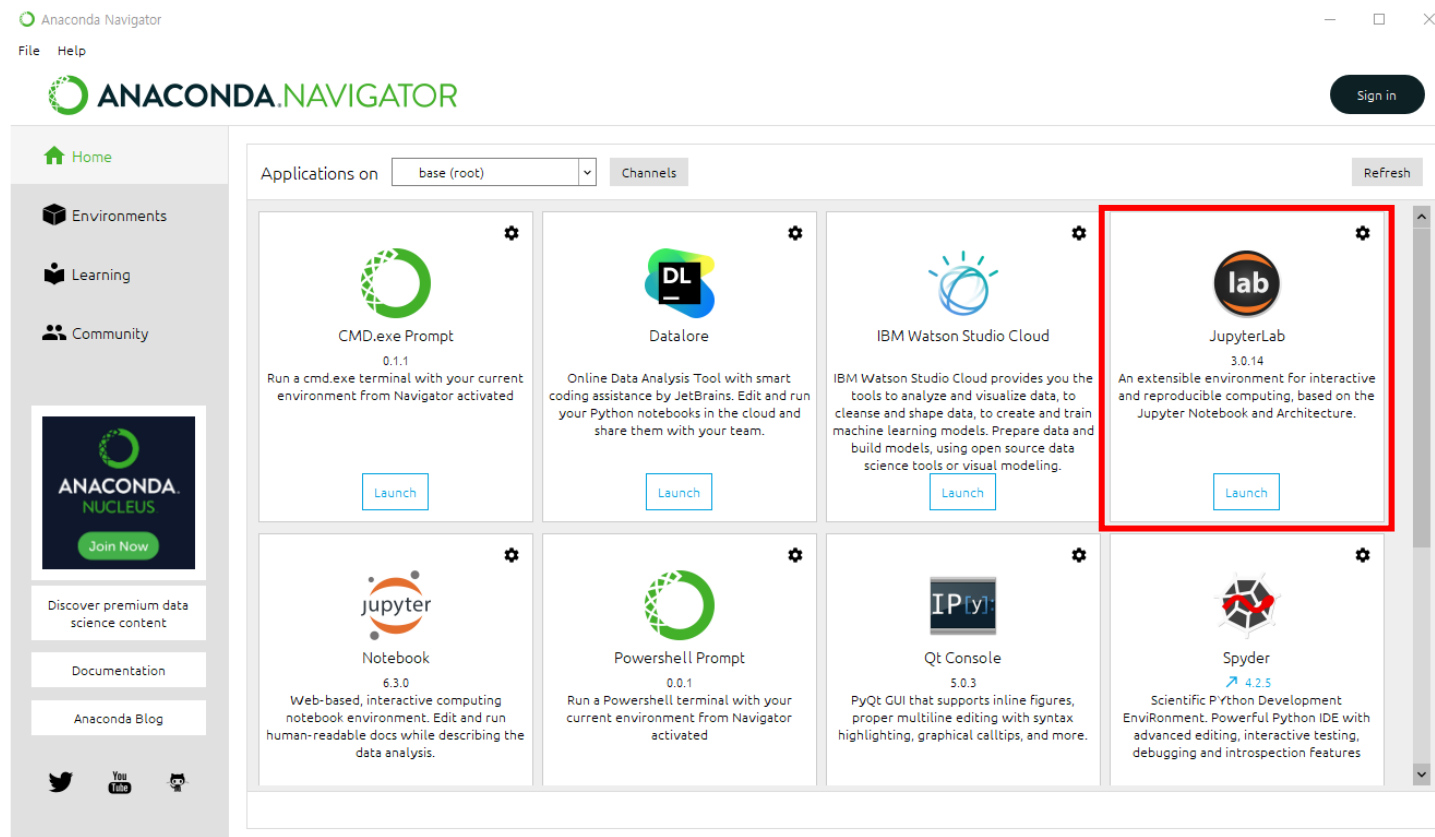
3. Check this box



4. Run Anaconda Navigator



5. Install Jupyter lab (If it's already installed, it just looks "Launch Button")



6. Make a working directory (Anywhere)

← → ↕ ↑ > 내 PC > 새 볼륨 (E:)

이름	수정한 날짜	유형	크기
Cakewalk	2021-08-03 17:19	파일 폴더	
Games	2021-02-27 16:45	파일 폴더	
Jupyter	2021-08-11 11:28	파일 폴더	
KakaoTalk	2021-06-30 13:50	파일 폴더	
Steam	2021-08-10 22:14	파일 폴더	
STOVE	2021-04-16 00:18	파일 폴더	
NGM.log	2020-12-24 23:28	텍스트 문서	2KB

6. Enter the working directory(using cmd), and Run Jupyter lab

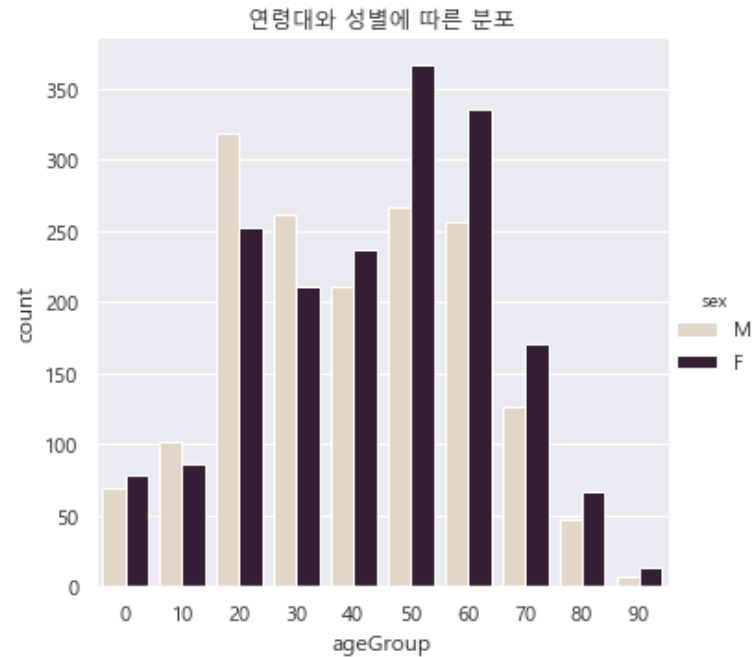
```
명령 프롬프트 - jupyter lab
Microsoft Windows [Version 10.0.19042.1110]
(c) Microsoft Corporation. All rights reserved.

C:\Users\ko970>e:
E:\>cd jupyter
E:\Jupyter>jupyter lab
[I 2021-08-11 11:31:08.549 ServerApp] jupyterlab | extension was successfully linked.
[I 2021-08-11 11:31:08.564 ServerApp] Writing notebook server cookie secret to C:\Users\ko970\AppData\Roaming\jupyter\runtime\jupyter_cookie_secret
[W 2021-08-11 11:31:08.581 ServerApp] The 'min_open_files_limit' trait of a ServerApp instance expected an int, not the NoneType None.
[I 2021-08-11 11:31:08.649 LabApp] JupyterLab extension loaded from C:\Users\ko970\anaconda3\lib\site-packages\jupyterlab
[I 2021-08-11 11:31:08.649 LabApp] JupyterLab application directory is C:\Users\ko970\anaconda3\share\jupyter\lab
[I 2021-08-11 11:31:08.652 ServerApp] jupyterlab | extension was successfully loaded.
[I 2021-08-11 11:31:08.906 ServerApp] nbclassic | extension was successfully loaded.
[I 2021-08-11 11:31:08.907 ServerApp] Serving notebooks from local directory: E:\Jupyter
[I 2021-08-11 11:31:08.907 ServerApp] Jupyter Server 1.4.1 is running at:
```


Jupyter Lab의 장점

- 코드를 블록 단위로 실행시킬 수 있고 결과에 코멘트를 달 수 있음.

```
sns.catplot(x="ageGroup", kind="count", hue="sex", palette="ch:.25", data=cov_df)
plt.title("연령대와 성별에 따른 분포")
plt.show()
```



- 20대와 50대, 60대가 월등히 많았다.
- 내 생각엔 20대는 놀기 위해서 많이 돌아다녔기 때문이고, 50~60대는 교회때문이 아닐지??

Notebook



Console



Shift + Enter

Untitled.ipynb



Code



```
[1]: print("Hello world")
```

Hello world

Untitled.ipynb



Markdown

```
[1]: print("Hello world")
```

Hello world

첫 주피터 노트북 사용하기

- Hello world 출력

Untitled.ipynb



Markdown

```
[1]: print("Hello world")
```

Hello world

```
## 첫 주피터 노트북 사용하기
```

```
- Hello world 출력
```

Jupyter의 확장자는 .ipynb

여러 탭을 띄울 수 있고 여러 창을 띄울 수 있음

Directory

The screenshot shows the JupyterLab interface with the following components:

- Directory (Left Panel):** A file browser showing a directory structure. The path `/ ... / 공모전 / 경기코로나예측` is highlighted. The file `cocoa_1.ipynb` is selected.
- Code Editor (Center Panel):** The `cocoa_1.ipynb` file is open, showing Python code for data analysis and plotting. The code includes imports for `pandas`, `numpy`, `matplotlib`, `seaborn`, `datetime`, `folium`, and `json`. It also sets the plot style to `darkgrid` and configures the font and figure size.
- Table (Right Panel):** A table titled `확진일-증상발현일` is displayed. It has two columns: `확진일` and `증상발현일`. The table contains 20 rows of data.

Red lines connect the text labels to their corresponding UI elements:

- A line from "Jupyter의 확장자는 .ipynb" points to the `cocoa_1.ipynb` file in the directory and the code editor tab.
- A line from "여러 탭을 띄울 수 있고 여러 창을 띄울 수 있음" points to the multiple tabs at the top of the interface.
- A line from "Directory" points to the file browser on the left.

