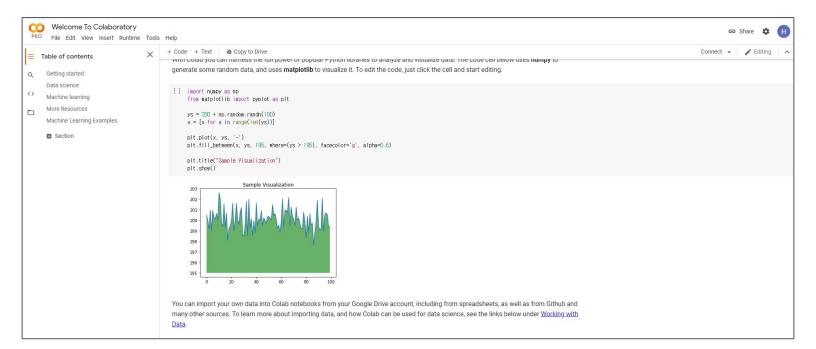


이영기 서울대학교 컴퓨터공학부



Colab

- Colab (Colaboratory) allows you to write and execute
 Python in your browser.
- Zero configuration is required.
- Free access to GPUs is provided.
- Easy sharing is supported.



Prerequisites

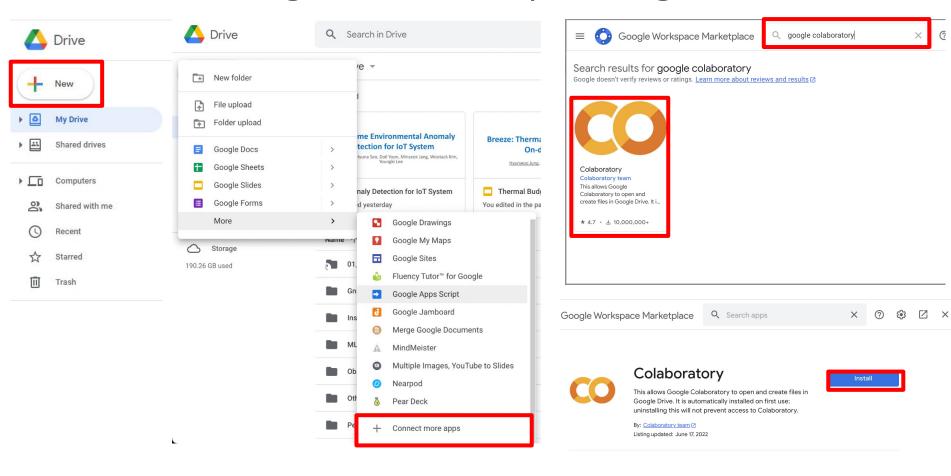
Google account

Google Drive free space to store the codes (~100MB)

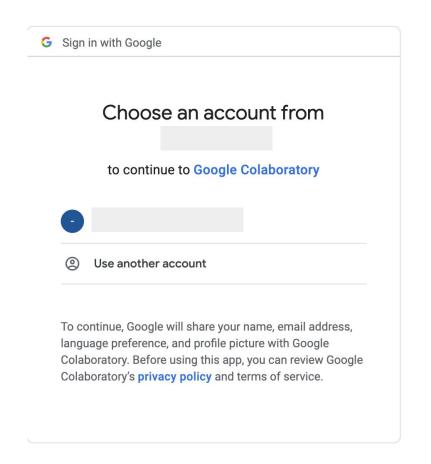
Familiar with Python and Jupyter Notebook

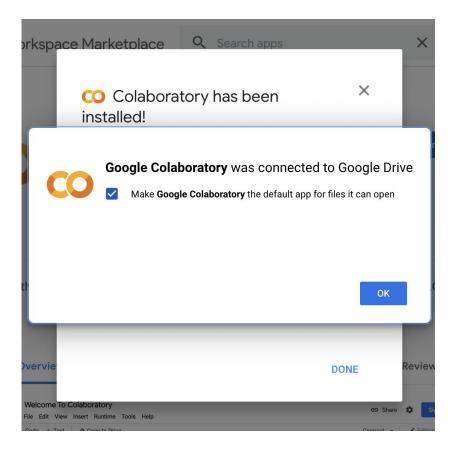
Connect to Google Collaboratory (1/2)

Connect Google Collaboratory to Google Drive



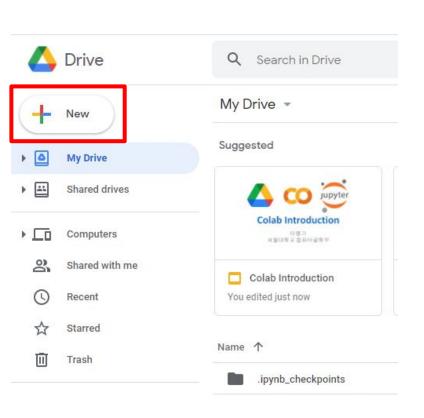
Connect to Google Collaboratory (2/2)

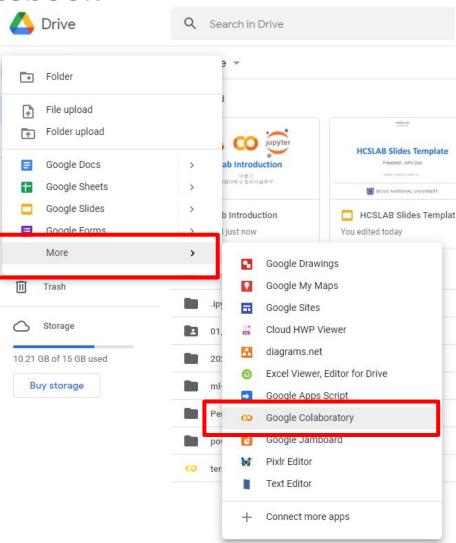




Create a new Colab notebook

Create a new Collab notebook





Import Git Repository into Colab (1/7)

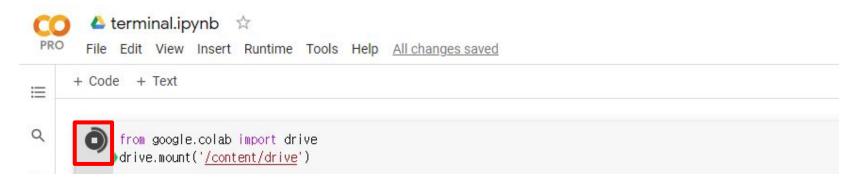
Practice repository URL:

https://github.com/snuhcs/time-series-2022

Import Git Repository into Colab (2/7)

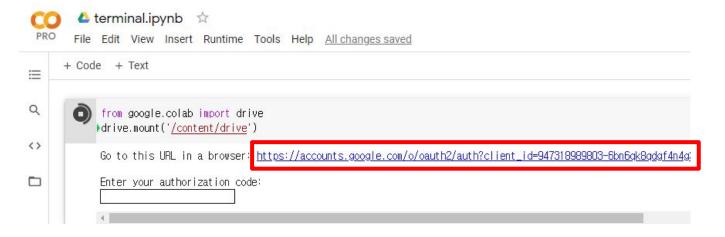
- Create a new Colab notebook.
- 2. Rename the notebook as "terminal.ipynb".
- 3. Execute the following code:

```
from google.colab import drive
drive.mount('/content/drive')
```



Import Git Repository into Colab (3/7)

4. You might see an URL or "Connect to Google Drive" button. Follow the appearing descriptions. If you see "Drive already mounted" message, you can pass the next slide.



Permit this notebook to access your Google Drive files?

This notebook is requesting access to your Google Drive files. Granting access to Google Drive will permit code executed in the notebook to modify files in your Google Drive. Make sure to review notebook code prior to allowing this access.

Import Git Repository into Colab (4/7)

5. Execute the following command:

!git clone https://github.com/snuhcs/time-series-2022.git
/content/drive/MyDrive/time-series-2022



git clone https://gitlab.com/machine-learning-course1/ml-practice-samsung-2021-summer.git /content/drive/MyDrive/ml-practice-samsung-2021-summer

Cloning into '/content/drive/MyDrive/ml-practice-samsung-2021-summer'...

remote: Enumerating objects: 91, done.

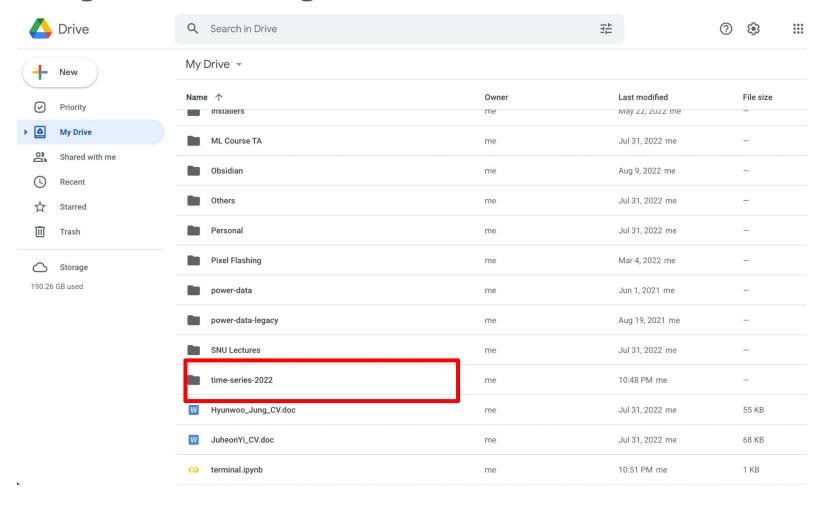
remote: Counting objects: 100% (91/91), done. remote: Compressing objects: 100% (90/90), done.

remote: Total 91 (delta 9), reused 0 (delta 0), pack-reused 0

Unpacking objects: 100% (91/91), done. Checking out files: 100% (150/150), done.

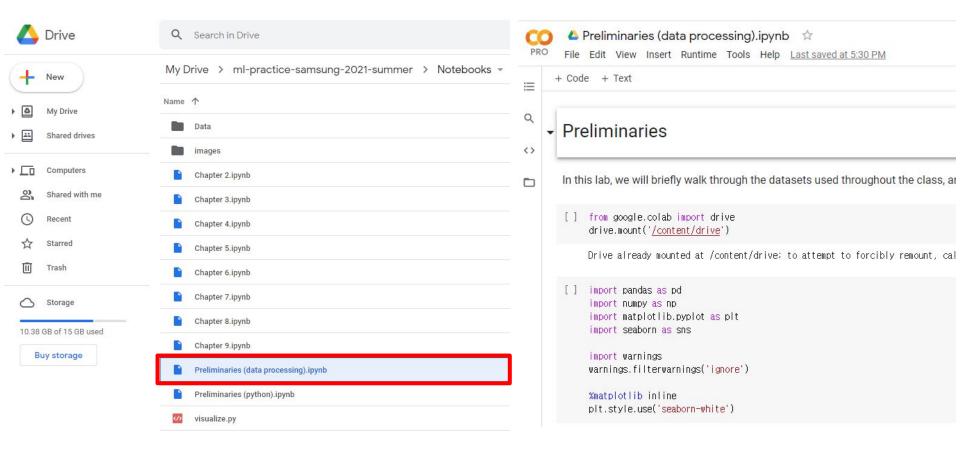
Import Git Repository into Colab (5/7)

6. "time-series-2022" directory is imported into your Google Drive Storage.



Import Git Repository into Colab (6/7)

7. Open "time-series-2022/Notebooks/Preliminaries (data processing).ipynb"



Update the Repository

 Execute the following command at the beginning of each class.

Warning : This command resets all codes you have written in the previous classes. Backup your codes if you want before run the command.

!cd /content/drive/MyDrive/time-series-2022; git reset --hard master; git pull



!cd /content/drive/MyDrive/time-series-2022; git reset --hard master; git pull