Instruction

Hardware: NVIDIA RTX 2080 super

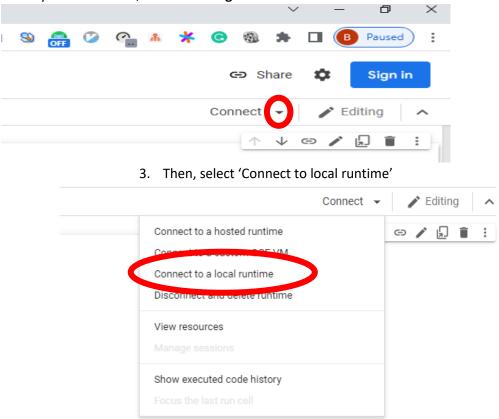
IDLE: Google Colab (recommended)

Framework: PyTorch

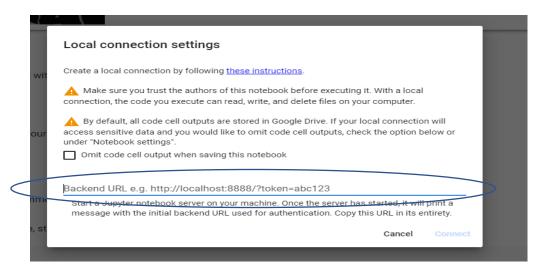
How to set the environment up:

1. Open google chrome and login your google account, then go to Google Colab.

2. When you are in Colab, click the triangle beside Connect.



4. A window shows up, and it requires a **Backend URL**.



- 5. Open Anaconda PowerShell Prompt on your machine and run commands respectively:
 - 1) pip install jupyter_http_over_ws
 - 2) jupyter serverextension enable --py jupyter_http_over_ws
 - 3) jupyter notebook --NotebookApp.allow_origin='https://colab.research.google.com' -- port=8888 --NotebookApp.port_retries=0

Then copy the generated link back to **Backend URL** box in colab and click **Connect**.

```
base) PS C:\WINDOWS\system32> jupyter notebook --NotebookApp.allow_origin='https://colab.research.google.com' --port=8888 --NotebookApp.port_retries=0

upyter_http_over_ws extension initialized. Listening on /http_over_websocket

I 7::11:55.974 NotebookApp] Jupyterlab extension loaded from C:\Apps\Anaconda3\Lib\site-packages\jupyterlab

I 7::11:55.974 NotebookApp] Jupyterlab application directory is C:\Apps\Anaconda3\Lib\site-packages\jupyter\lab

I 7::11:56.318 NotebookApp] Serving notebooks from local directory: C:\WINDOWS\system32

I 7::11:56.318 NotebookApp] The Jupyter Notebook is running at:

I 7::11:56.319 NotebookApp] or http://localhost:8888/?token=9feaa231d0f109babfa797b1e06e1a135965ffec06c6c40c

I 7::11:56.320 NotebookApp] or http://127.0.0.1:8888/token=9feaa231d0f109babfa797b1e06e1a135965ffec06c6c40c

I 7::11:56.645 NotebookApp]

To access the notebook, open this file in a browser:
    file:///C:/Users/mxa19ypu/App0ata/Roaming/jupyter/runtime/nbserver-16240-open.html

Or copy and paste one of these LNIs:
    http://localhost:8888/?token=9feaa231d0f109babfa797b1e06e1a135965ffec06c6c40c
    or http://127.0.0.1:8888/?token=9feaa231d0f109babfa797b1e06e1a135965ffec06c6c40c
    or http://127.0.0.1:8888/?token=9feaa231d0f109babfa797b1e06e1a135965ffec06c6c40c
    or http://127.0.0.1:8888/?token=9feaa231d0f109babfa797b1e06e1a135965ffec06c6c40c
    or http://127.0.0.1:8888/?token=9feaa231d0f109babfa797b1e06e1a135965ffec06c6c40c
    or http://127.0.0.1:8888/?token=9feaa231d0f109babfa797b1e06e1a135965ffec06c6c40c
```

- 6. In Colab code block,
 - 1) Run 'cd' to change working directory.
 - 2) Run 'pip install torch==1.9.1+cu102 torchvision==0.10.1+cu102 torchaudio==0.9.0 -f https://download.pytorch.org/whl/torch_stable.html 'to install PyTorch. After this, you need to restart Colab.
- 7. Finally, run code below. If it returns a True, you can do further exercise. Happy coding!

