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PyPI 접속 및 패키지 다운로드 테스트

```
[ ]  1  !pip install tensorboardx
```

gDrive 연동 테스트

```
[ ]  1  from google.colab import drive
```

```
[ ]  1  drive.mount('./drive')
```

파일 업로드 테스트

```
[ ]  1  from google.colab import files
```

```
[ ]  1  uploaded = files.upload()
```

GitHub 접속 및 다운로드 테스트

```
[ ]  1  !git clone https://github.com/wxs/keras-mnist-tutorial
```

PyTorchVision 데이터 다운로드 테스트

```
[ ]  1  import torchvision
```

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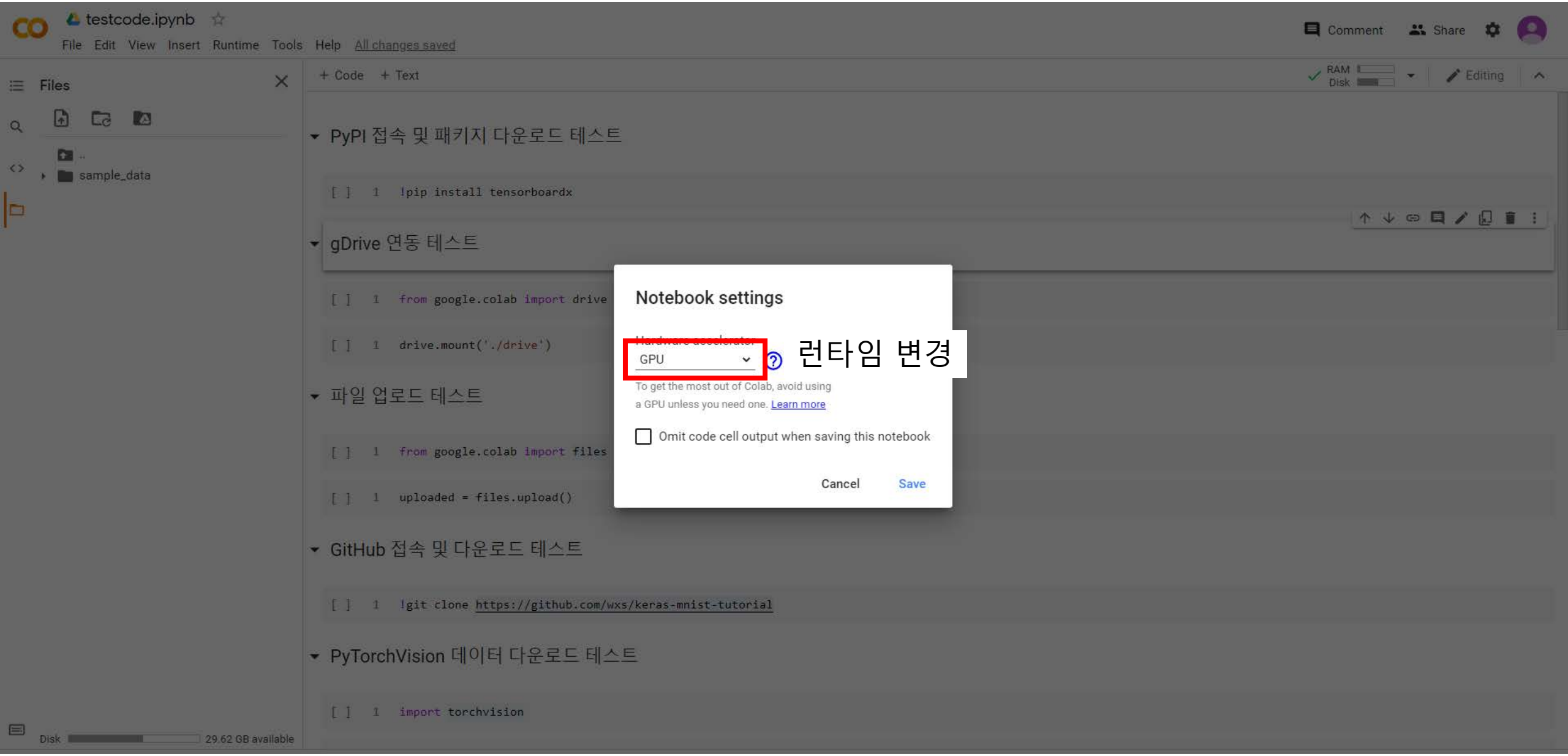
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Disk
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sample_data
PyPI 접속 및 패키지 다운로드 테스트
[ ] 1 !pip install tensorboardx
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PyTorchVision 데이터 다운로드 테스트
[ ] 1 import torchvision
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a GPU unless you need one. Learn more
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PyPI 접속 및 패키지 다운로드 테스트

```
[1]  1  !pip install tensorboardx
```

```
Requirement already satisfied: tensorboardx in /usr/local/lib/python3.7/dist-packages (2.4)
Requirement already satisfied: numpy in /usr/local/lib/python3.7/dist-packages (from tensorboardx) (1.19.5)
Requirement already satisfied: protobuf>=3.8.0 in /usr/local/lib/python3.7/dist-packages (from tensorboardx) (3.12.4)
Requirement already satisfied: setuptools in /usr/local/lib/python3.7/dist-packages (from protobuf>=3.8.0->tensorboardx) (57.0.0)
Requirement already satisfied: six>=1.9 in /usr/local/lib/python3.7/dist-packages (from protobuf>=3.8.0->tensorboardx) (1.15.0)
```

gDrive 연동 테스트

```
[2]  1  from google.colab import drive
```

클릭으로 링크를 따라가면 인증 코드를 받습니다

```
1  drive.mount('./drive')
```

```
Go to this URL in a browser: https://accounts.google.com/o/oauth2/auth?client_id=947318989803-6bn6qk8qdgf4n4g3pfee6491hc0brc4i.apps.googleusercontent.com&redirect_uri=urn%3
Enter your authorization code:
```

인증코드 복사 후 엔터

파일 업로드 테스트

```
[ ]  1  from google.colab import files
```

```
[ ]  1  uploaded = files.upload()
```

GitHub 접속 및 다운로드 테스트

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성공하면 지정한 위치에 생성됩니다

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PyPI 접속 및 패키지 다운로드 테스트

```
[1]  1  !pip install tensorboardx
```

```
tensorboardx in /usr/local/lib/python3.7/dist-packages (2.4)
numpy in /usr/local/lib/python3.7/dist-packages (from tensorboardx) (1.19.5)
Requirement already satisfied: protobuf>=3.8.0 in /usr/local/lib/python3.7/dist-packages (from tensorboardx) (3.12.4)
Requirement already satisfied: setuptools in /usr/local/lib/python3.7/dist-packages (from protobuf>=3.8.0->tensorboardx) (57.0.0)
Requirement already satisfied: six>=1.9 in /usr/local/lib/python3.7/dist-packages (from protobuf>=3.8.0->tensorboardx) (1.15.0)
```

gDrive 연동 테스트

```
[2]  1  from google.colab import drive
```

```
1  drive.mount('./drive')
```

```
Mounted at ./drive
```

파일 업로드 테스트

```
[ ]  1  from google.colab import files
```

```
[ ]  1  uploaded = files.upload()
```

GitHub 접속 및 다운로드 테스트

```
[ ]  1  !git clone https://github.com/wxs/keras-mnist-tutorial
```

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TheoryOnVirtualReality.pdf

파일 업로드 테스트

```
[4]  1  from google.colab import files
```

```
1  uploaded = files.upload()
```

클릭해서 업로드하고 싶은 파일을 넣어주세요

Choose Files TheoryOnV...alReality.pdf

TheoryOnVirtualReality.pdf(application/pdf) - 274502 bytes, last modified: 6/30/2021 - 100% done

Saving TheoryOnVirtualReality.pdf to TheoryOnVirtualReality.pdf

드래그앤드롭으로도 가능합니다

드 테스트

```
[ ]  1  !git clone https://github.com/wxs/keras-mnist-tutorial
```

PyTorchVision 데이터 다운로드 테스트

```
[ ]  1  import torchvision
```

```
[ ]  1  trainset = torchvision.datasets.MNIST('./data', train=True, transform=torchvision.transforms.ToTensor(), download=True)
```

간단 코드 테스트

```
[ ]  1  import torch
     2  import torch.nn as nn
     3  import torch.nn.functional as F
     4
     5  from torch.utils.data import DataLoader
```

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[5]
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```

GitHub 접속 및 다운로드 테스트

```
[6]  1  !git clone https://github.com/wxs/keras-mnist-tutorial.git
```

성공하면 지정한 위치에 폴더가 생성됩니다

```
Cloning into 'keras-mnist-tutorial'...
remote: Enumerating objects: 26, done.
remote: Total 26 (delta 0), reused 0 (delta 0), pack-reused 26
Unpacking objects: 100% (26/26), done.
```

PyTorchVision 데이터 다운로드 테스트

```
[7]  1  import torchvision
```

```
[8]  1  trainset = torchvision.datasets.MNIST('./data', train=True, transform=torchvision.transforms.ToTensor(), download=True)
```

```
Downloading http://yann.lecun.com/exdb/mnist/train-images-idx3-ubyte.gz
Failed to download (trying next):
HTTP Error 503: Service Unavailable

Downloading https://ossci-datasets.s3.amazonaws.com/mnist/train-images-idx3-ubyte.gz
Downloading https://ossci-datasets.s3.amazonaws.com/mnist/train-images-idx3-ubyte.gz to ./data/MNIST/raw/train-images-idx3-ubyte.gz
9913344/? [00:00<00:00, 52417796.50it/s]

Extracting ./data/MNIST/raw/train-images-idx3-ubyte.gz to ./data/MNIST/raw

Downloading http://yann.lecun.com/exdb/mnist/train-labels-idx1-ubyte.gz
Failed to download (trying next):
HTTP Error 503: Service Unavailable

Downloading https://ossci-datasets.s3.amazonaws.com/mnist/train-labels-idx1-ubyte.gz
```

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- **TheoryOnVirtualReality.pdf**(application/pdf) - 274502 bytes, last modified: 6/30/2021 - 100% done

```
Saving TheoryOnVirtualReality.pdf to TheoryOnVirtualReality.pdf
```

GitHub 접속 및 다운로드 테스트

[6]

```
!git clone https://github.com/wxs/keras-mnist-tutorial.git
```

```
Cloning into 'keras-mnist-tutorial'...
remote: Enumerating objects: 26, done.
remote: Total 26 (delta 0), reused 0 (delta 0), pack-reused 26
Unpacking objects: 100% (26/26), done.
```

PyTorchVision 데이터 다운로드 테스트

[7]

```
import torchvision
```

데이터 다운로드가 성공하면 지정한 위치에 폴더가 생성됩니다

[8]

```
trainset = torchvision.datasets.MNIST('./data', train=True, transform=torchvision.transforms.ToTensor(), download=True)
```

```
Downloading http://yann.lecun.com/exdb/mnist/train-images-idx3-ubyte.gz
Failed to download (trying next):
HTTP Error 503: Service Unavailable

Downloading https://ossci-datasets.s3.amazonaws.com/mnist/train-images-idx3-ubyte.gz
Downloading https://ossci-datasets.s3.amazonaws.com/mnist/train-images-idx3-ubyte.gz to ./data/MNIST/raw/train-images-idx3-ubyte.gz
9913344/? [00:00<00:00, 52417796.50it/s]

Extracting ./data/MNIST/raw/train-images-idx3-ubyte.gz to ./data/MNIST/raw

Downloading http://yann.lecun.com/exdb/mnist/train-labels-idx1-ubyte.gz
Failed to download (trying next):
HTTP Error 503: Service Unavailable

Downloading https://ossci-datasets.s3.amazonaws.com/mnist/train-labels-idx1-ubyte.gz
```