

```
!python3 -m pip install paramparse
%load_ext tensorboard
```

```
Collecting paramparse
  Downloading https://files.pythonhosted.org/packages/49/06/d99175d40e92844ae27d07aa375540cd4902
Installing collected packages: paramparse
Successfully installed paramparse-1.4.8
```

Upload your train\_data\_rgb.npz, A6\_main.py and A6\_submission.py file to Google Drive, change their sharing settings and find the corresponding IDs as described here:

<https://medium.com/@acpanjan/download-google-drive-files-using-wget-3c2c025a8b99>

```
train_data_id=""
a6_main_id=""
a6_submission_id=""
```

```
train_data_url="https://docs.google.com/uc?export=download&id="+train_data_id
!rm -f train_data_rgb.npz
!wget -nc -q --no-check-certificate {train_data_url} -O train_data_rgb.npz || rm -f train_da
!ls
```

```
A6_submission.py sample_data train_data_rgb.npz
```

```
a6_main_url="https://docs.google.com/uc?export=download&id="+a6_main_id
!rm -f A6_main.py
!wget -nc -q --no-check-certificate {a6_main_url} -O A6_main.py || rm -f A6_main.py
!ls
```

```
A6_main.py A6_submission.py sample_data train_data_rgb.npz
```

```
a6_submission_url="https://docs.google.com/uc?export=download&id="+a6_submission_id
!rm -f A6_submission.py
!wget -nc -q --no-check-certificate {a6_submission_url} -O A6_submission.py || rm -f A6_subr
!ls
```

```
A6_submission.py sample_data
```

## ▼ Tensorboard to monitor training progress

It needs to be started before the program to run in the background since only one cell can be executed at a time.

It can be a bit temperamental so you may have to click on the refresh button (top right) a few times and / or wait a while after the main program has started to get it working

```
%tensorboard --logdir /content/checkpoints/tb
```

**Not found**

## ▼ Run the main file

You can also use command line arguments to modify the parameters without changing the python files.

For example,

```
!python3 A6_main.py load_weights=1 lr=1e4 eps=2e-8
```

will set `load_weights`, `lr` and `eps` in `Params` to the respective values.

```
!python3 A6_main.py
```

```
Training on GPU: Tesla K80
```

```
Training samples: 9600
```

```
Validation samples: 2400
```

```
Traceback (most recent call last):
```

```
File "A6_main.py", line 428, in <module>
```

```
    main()
```

```
File "A6_main.py", line 227, in main
```

```
    eps=params.eps,
```

```
File "/usr/local/lib/python3.7/dist-packages/torch/optim/adam.py", line 48, in __init__
```

```
    super(Adam, self).__init__(params, defaults)
```

```
File "/usr/local/lib/python3.7/dist-packages/torch/optim/optimizer.py", line 50, in __init__
```

```
    raise ValueError("optimizer got an empty parameter list")
```

```
ValueError: optimizer got an empty parameter list
```

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