

In [3]:

1	<code># !mkdir log_dir</code>
---	-------------------------------

In [4]: 1 !dir

C 드라이브의 볼륨에는 이름이 없습니다.
볼륨 일련 번호: 94A3-3EF5

C:\Users\WWITHJSW\Documents\GitHub\AISTUDY\TF_Basic 디렉터리

```

2019-01-23 오전 01:04 <DIR>      .
2019-01-23 오전 01:04 <DIR>      ..
2019-01-23 오전 12:58 <DIR>      .ipynb_checkpoints
2018-04-30 오전 10:53          6,146 01 - GAN.py
2019-01-16 오후 07:08          2,559 01_Saver.py
2018-04-30 오전 10:53          5,805 02 - GAN2.py
2019-01-16 오후 07:08          3,170 02_Tensorboard.py
2019-01-16 오후 07:16          2,508 03_TensorBoard.py
2016-09-09 오후 02:51        265,269 bmi.csv
2019-01-16 오후 07:05           83 data.csv
2019-01-23 오전 12:59           0 lab10_tb-mul.py
2019-01-16 오후 07:17 <DIR>      logs
2019-01-23 오전 12:58 <DIR>      log_dir
2019-01-20 오후 11:54 <DIR>      mnist
2019-01-16 오후 07:17 <DIR>      model
2019-01-22 오후 06:29 <DIR>      samples
2019-01-22 오후 06:29 <DIR>      samples2
2019-01-16 오전 12:33          7,511 TF_LAB01_Basic.ipynb
2019-01-16 오전 12:33         13,089 TF_LAB02_Regression.ipynb
2019-01-20 오후 11:26         13,974 TF_LAB03_ANN.ipynb
2019-01-20 오후 11:26          7,316 TF_LAB04_DNN.ipynb
2019-01-20 오후 11:27         15,212 TF_LAB05_MNIST.ipynb
2019-01-21 오전 12:07        29,809 TF_LAB06_MNIST_Dropout.ipynb
2019-01-21 오전 02:19         13,019 TF_LAB07_CNN.ipynb
2019-01-21 오후 10:14          9,599 TF_LAB07_CNN2.ipynb
2019-01-21 오후 10:46        34,013 TF_LAB08_AutoEncoder_TF.ipynb
2019-01-23 오전 12:44          3,492 TF_LAB09_Basic.ipynb
2019-01-23 오전 12:44          1,927 TF_LAB09_Practice.ipynb
2019-01-23 오전 12:55         12,207 TF_LAB10_Basic_BMI.ipynb
2019-01-23 오전 01:04          1,712 TF_LAB11_Tensorboard.ipynb
2019-01-16 오후 07:07        29,255 Untitled.ipynb
2019-01-16 오후 07:17          2,152 Untitled1.ipynb
                23개 파일          479,827 바이트
                9개 디렉터리 65,646,477,312 바이트 남음

```

source code (lab10_tb-mul.py)

```
import tensorflow as tf
# 데이터 플로우 그래프 구축하기 --- (※1)
a = tf.constant(20, name="a")
b = tf.constant(30, name="b")
mul_op = a * b
# 세션 생성하기 --- (※2)
sess = tf.Session()
# TensorBoard 사용하기 --- (※3)
tw = tf.train.SummaryWriter("log_dir", graph=sess.graph)
# 세션 실행하기 --- (※4)
print(sess.run(mul_op))
```

```
(base) C:\Users\WITHJS\Documents\GitHub\AISTUDY\TF_Basic>python lab10_tb-mul.py



(base) C:\Users\WITHJS\Documents\GitHub\AISTUDY\TF_Basic>tensorboard --logdir=log_dir
c:\Users\withjs\anaconda3\lib\site-packages\h5py\__init__.py:36: FutureWarning: Conversion of the second argument of iss
ubdtype from `float` to `np.floating` is deprecated. In future, it will be treated as `np.float64 == np.dtype(float).typ
e`.
  from ._conv import register_converters as _register_converters
2019-01-23 01:03:26.253268: I T:\src\github\tensorflow\tensorflow\core\platform\cpu_feature_guard.cc:140] Your CPU suppo
rts instructions that this TensorFlow binary was not compiled to use: AVX2
TensorBoard 1.8.0 at http://DESKTOP-MQ35911:6006 (Press CTRL+C to quit)
```

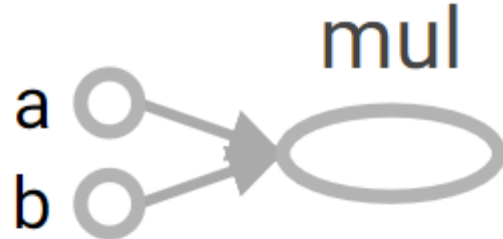
- tensorboard --logdir=log_dir

← → ↻ ⓘ 주의 요함 | desktop-mq35911:6006/#graphs&run=.

TensorBoard

GRAPHS

 Fit to screen
 Download PNG
Run (1)
Session runs (0)
Upload
☐ Trace inputs
Color ☒ Structure
☐ Device
☐ XLA Cluster
☐ Compute time
☐ Memory
☐ TPU Compatibility
colors ☐ same substructure
☐ unique substructure



```
graph LR; a((a)) --> mul(((mul))); b((b)) --> mul
```

In []:

1

