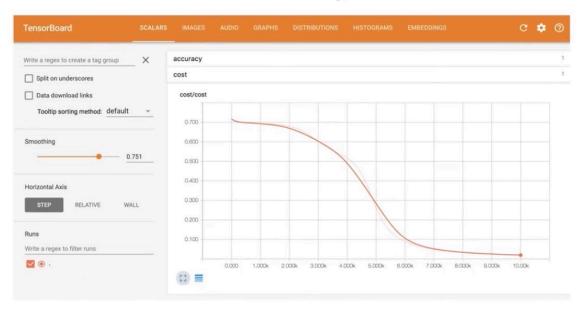
New way!



<의와 같은 그만 형태로 만들기 위한 5단계 >

- 1 From TF graph, decide which tensors you want to log : পেন্দু তিপুলু গুটু সূথ্য স্থৈচ্চ w2_hist = tf.summary.histogram("weights2", W2) cost_summ = tf.summary.scalar("cost", cost)
- 2 Merge all summaries → ইণুষ্ট আছু পুখুচা শুলু আছু ১ steps of using summary = tf.summary.merge_all() herge আন্ত্ৰ TensorBoard
- 3 Create writer and add graph
 # Create summary writer
 writer = tf.summary.FileWriter('./logs') → 위치를 정함
 writer.add_graph(sess.graph) →세션에 그러프를 넣어줌
- 5 Launch TensorBoard 나 만들어놓은 Summary를 실제 파일에 기록 밀답할 경우, feed_dict로 tensorboard --logdir=./logs → 단미널에 압력 성거춤

```
# Lab 9 XOR
import datetime
import numpy as np
import os
import tensorflow as tf
x_{data} = np.array([[0, 0], [0, 1], [1, 0], [1, 1]], dtype=np.float32)
y_data = np.array([[0], [1], [1], [0]], dtype=np.float32)
tf.model = tf.keras.Sequential()
tf.model.add(tf.keras.layers.Dense(units=2, input_dim=2))
tf.model.add(tf.keras.layers.Activation('sigmoid'))
tf.model.add(tf.keras.layers.Dense(units=1, input_dim=2))
tf.model.add(tf.keras.layers.Activation('sigmoid'))
tf.model.compile(loss='binary crossentropy', optimizer=tf.optimizers.SGD(lr=0.1),
metrics=['accuracy'])
tf.model.summary()
# prepare callback
log_dir = os.path.join(".", "logs", "fit", datetime.datetime.now().strftime("%Y%m%d-%H%M%S"))
tensorboard_callback = tf.keras.callbacks.TensorBoard(log_dir=log_dir, histogram_freq=1)
# add callback param to fit()
history = tf.model.fit(x_data, y_data, epochs=10000, callbacks=[tensorboard_callback])
predictions = tf.model.predict(x_data)
print('Prediction: \n', predictions)
score = tf.model.evaluate(x data, y data)
print('Accuracy: ', score[1])
at the end of the run, open terminal / command window
                                                                                      (F)
cd to the source directory
tensorboard — logdir logs/fit - いはい
read more on tensorboard: https://www.tensorflow.org/tensorboard/get started
* 또 또위당 (port forwarding)
  local > Ssh -L local_port: 127.0.0.1: remote_port username @ server. Com
  local의 port 번호를 remote 서버의 무이나 번호를 몇 번으로 할 것인지 할 것인지 할 것인지 ex) 6006
Server > tensorboard -logdir = ./ logs/xor_ logs
                                                                    remote server name
  (You can navigate to http://127.0.0.1: 7007)
```