

5. Tensorboard

2019년 4월 4일 목요일 오전 10:05

- 1 From TF graph, decide which tensors you want to log

```
w2_hist = tf.summary.histogram("weights2", w2)  
cost_summ = tf.summary.scalar("cost", cost)
```
- 2 Merge all summaries

```
summary = tf.summary.merge_all()
```
- 3 Create writer and add graph

```
# Create summary writer  
writer = tf.summary.FileWriter('./logs')  
writer.add_graph(sess.graph)
```
- 4 Run summary merge and add_summary

```
s, _ = sess.run([summary, optimizer], feed_dict=feed_dict)  
writer.add_summary(s, global_step=global_step)
```
- 5 Launch TensorBoard

```
tensorboard --logdir=./logs
```

5 steps of using TensorBoard

무엇을 보고 싶은가

- `tf.summary.scalar(name, scalar)`

- `tf.summary.image(name, image)`
- `tf.summary.histogram(name, histogram)`

어디에 기록하고 싶은가

- `tf.summary.merge_all()`
- `tf.summary.merge(summaries)`
- `tf.summary.FileWriter(log_dir, graph)`

언제 마다 기록하고 싶은가

- `summary = sess.run(merge)`
- `writer.add_summary(summary, global_step)`

```
python -m tensorboard.main  
tensorboard --logdir=./logs
```

1. `pip freeze > requirements.txt`
2. `pip install -r requirements.txt`