# 在tensorflow中监控某变量的变化

例如，我们监控下面代码中y值的变化：

import tensorflow as tf

import numpy as np

x = tf.Variable(0.0, tf.float32)

y = tf.sin(x)

#第一步

tf.summary.scalar('y',y)

update\_x = tf.assign(x, x + 0.1)

init\_op = tf.global\_variables\_initializer()

#第二步

merged=tf.summary.merge\_all()

with tf.Session() as sess:

sess.run(init\_op)

#第三步

writer=tf.summary.FileWriter('logs/',sess.graph)

for i in range(100):

print(sess.run(y))

sess.run(update\_x)

#第四步

summary = sess.run(merged)

#第五步

writer.add\_summary(summary,i)

运行tensorboard：



