Basic Knowledge and Environment of Tensorflow  
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Introduction of tensorflow:  
<https://www.tensorflow.org/get_started/get_started>

Why tensorboard:

https://www.youtube.com/watch?v=eBbEDRsCmv4&t=227s

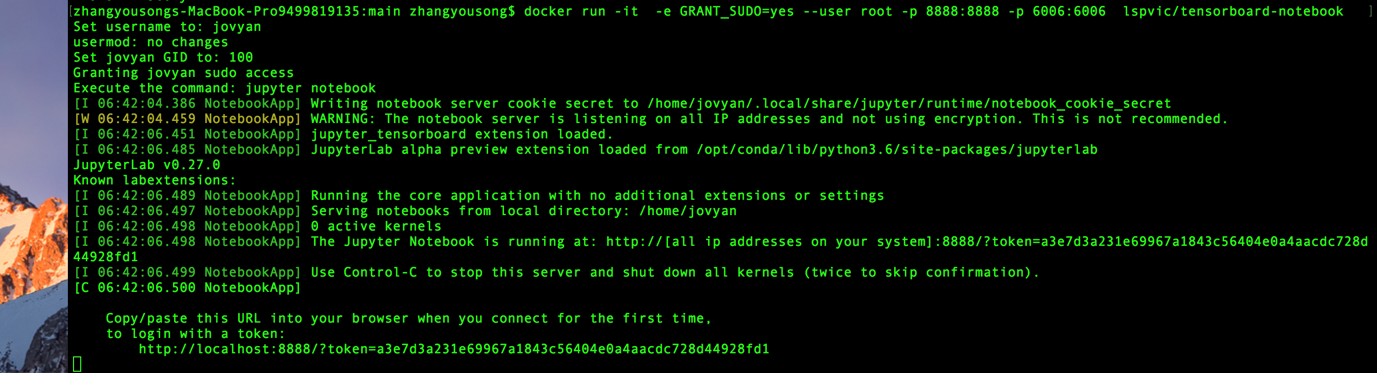
Docker install

docker pull lspvic/tensorboard-notebook

source: https://hub.docker.com/r/lspvic/tensorboard-notebook/

Run docker image of tensorflow

docker run -it -e GRANT\_SUDO=yes --user root -p 8888:8888 -p 6006:6006 lspvic/tensorboard-notebook (6006 for tensorboard 8888 for Jupyter)



open jupyter by link: <http://localhost:8888/?token=a3e7d3a231e69967a1843c56404e0a4aacdc728d44928fd1>

Other userful docker command

docker ps list current running images

docker images list docker images

docker exec -it [NAMES] bash

by docker exec –it xxx bash uer can terminal access tensorflow or tensorboard:  
  
  
How to user sensorboard:

1. run tensorflow with tf.summary before   
summary\_writer = tf.summary.FileWriter("/home/jovyan/tensorflow\_logs/example/", graph=tf.get\_default\_graph())  
2. docker exec -it [NAMES] bash  
 tensorboard --logdir /home/jovyan/tensorflow\_logs  
3. <http://127.0.0.1:6006>

Source Code for   
1. Tensorflow  
https://github.com/aymericdamien/TensorFlow-Examples

2. tensorboard

https://github.com/mamcgrath/TensorBoard-TF-Dev-Summit-Tutorial

# Funny video: How RNN created codes (Lecture 10 | Recurrent Neural Networks from Standford)

<https://www.youtube.com/watch?v=6niqTuYFZLQ&t=17s> begin at 35:00