UTILITIES
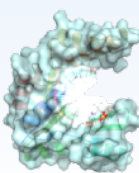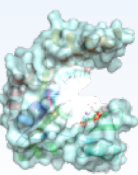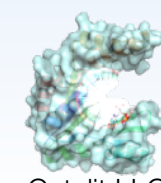
CHECKPOINTS

CHECKPOINTS

- Save model

- Restore model

TENSORBOARD

TensorBoard

Write a regex to create a tag group   ✕

☐ Split on underscores

☐ Data download links

Tooltip sorting method: default ▾

Smoothing

0.6

Horizontal Axis

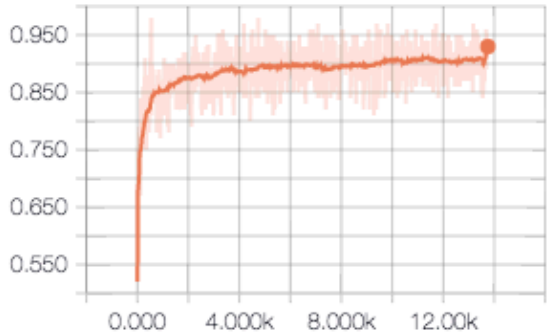STEP   RELATIVE   WALL

Runs

Write a regex to filter runs

☑ ◉ example

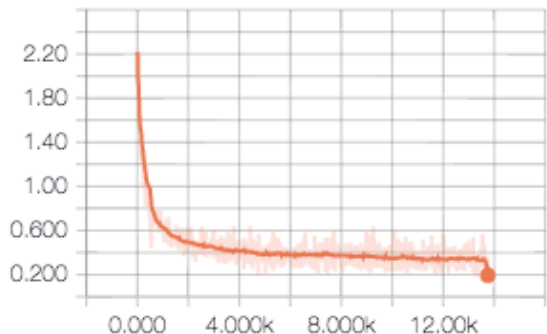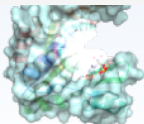TOGGLE ALL RUNS

/tmp/tensorflow_logs

accuracy   1

accuracy

loss   1

loss

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Fit to screen

Download PNG

Run
(1)   example

Session
runs (0)

Upload   Choose File

Trace inputs

Color   ● Structure
          ○ Device

colors   same substructure

          unique substructure

Main Graph

SGD

Loss   Accuracy

LabelData

Model

InputData

Weights ──▶ init   Bias ──▶ init

Auxiliary Nodes

Weights   init
Bias

Graph   (* = expandable)

          Namespace*
          OpNode
          Unconnected series*
          Connected series*
          Constant
          Summary
          Dataflow edge
-------   Control dependency edge
◀──────   Reference edge

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SCALARS IMAGES AUDIO GRAPHS DISTRIBUTIONS **HISTOGRAMS** EMBEDDINGS
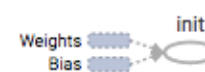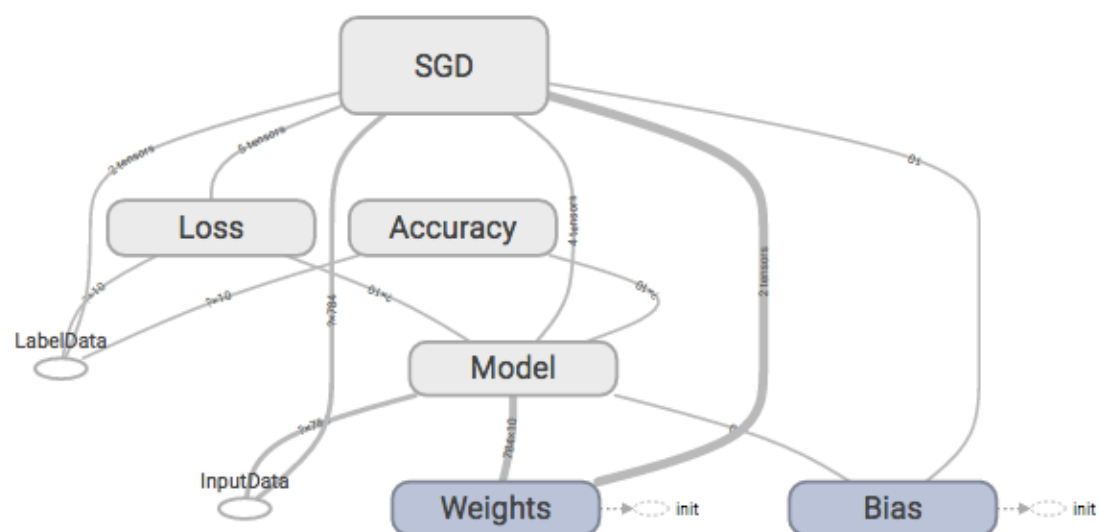
Write a regex to create a tag group ✕

☐ Split on underscores

Histogram Mode

OVERLAY **OFFSET**
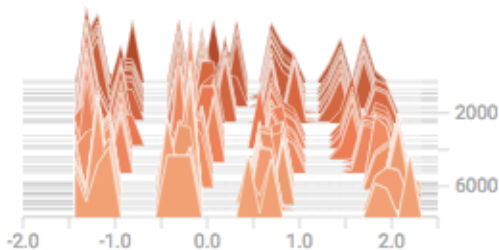
Offset Time Axis

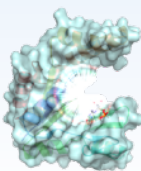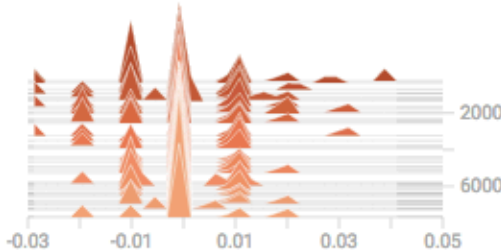**STEP** RELATIVE WALL

Runs

Write a regex to filter runs

☑ ◯ advanced
☑ ◯ basic

Model	2
W1_0	2
W2_0	2
W3_0	2
b1_0	2
b2_0	2
b3_0	2

b3_0
advanced

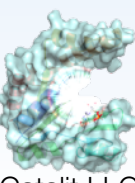**b3_0/gradient**
advanced

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KERAS CALLBACKS

https://keras.io/callbacks/

- Logging

- Early stopping

- Checkpoints
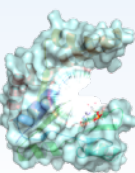
- Remote monitor

- Tensorboard

- …

OPEN CV

open source computer vision + ML library

- detect and demarcate faces

- identify objects

- classify human actions in videos

- track camera movements

- track moving objects

- extract 3D models of object

- produce 3D point clouds from stereo cameras

- stitch images

- find similar images from an image database

- remove red eyes from images

- follow eye movements

- recognize scenery

- establish markers to overlay it with augmented reality

LAB