Cheatography

Tensorflow Cheat Sheet by aggounix (momm) via cheatography.com/38888/cs/12135/

Import

import tensorflow as tf

placeholders

tf.placeholder(dtype, shape=None, name=None)

Variables

tf.Variable(initial_value=None, trainable=True, collections=None, name=None, dtype=None, ...)

Show Variable

with tf.Session() as sess: print sess.run(x)

Phase 1: Assemble graph

Step 1: Read in data

Step 2: Create placeholders for inputs and labels

tf.placeholder(dtype, shape=None, name=None)

Step 3: Create weight and bias

tf.Variable(initial_value=None, trainable=True, collections=None, name=None, dtype=None, ...)

Step 4: Build model to predict Y

 $Y_predicted = X * w + b$

Step 5: Specify loss function

tf.square(Y - Y_predicted, name="loss")

Step 6: Create optimizer

tf.train.GradientDescentOptimizer(learning_rate= 0.001).minimize(loss)



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Phase 2: Train model

Initialize variables

Run optimizer op (with data fed into placeholders for inputs and labels)