Deep Learning

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A is a 0-dimensional int32 tensor. A = tf.constant(1234)

B is a 1-dimensional int32 tensor. B = tf.constant([123, 456, 789])

C is a 2-dimensional int32 tensor C = tf.context([[123, 456, 789], [222, 333, 444]])

A *Tensorflow Session* as shown above, is an environment for running graph. The session is in charge of allocating the operations to GPUs and/or CPUs, including remote machines.

What if you want to use a non-constant? This is where tf.placeholder() and feed_dict come into place.

You can't just set x to your dataset and put it in Tensorflow, because over time you'll want your Tensorflow model to take in different datasets with different parameters. You need tf.placeholder().

tf.placeholder() returns a tensor that gets its value from data passed to the tf.session.run() function, allowing you tu set the input right before the sessions runs.