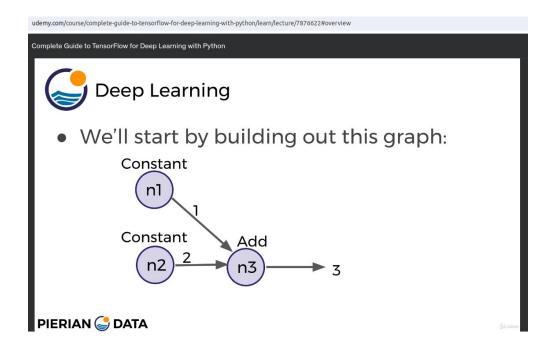
TensorFlow Graphs

In [1]: import tensorflow as tf

We will be building



Simple Example

```
In [2]: # nodes
    n1 = tf.constant(1)
    n2 = tf.constant(2)

In [3]: n3 = n1 + n2

In [4]: with tf.Session() as sess:
        result = sess.run(n3)
    ##endof: with

In [5]: print(result)
    3

In [6]: print(n3)
    Tensor("add:0", shape=(), dtype=int32)
```

From the course materials,

When you start TF, a default Graph is created, you can create additional graphs easily:

Different memory addresses.

From the course materials,

```
Setting a graph as the default:
```

```
graph_one = tf.get_default_graph()
In [10]:
         print(graph_one)
In [11]:
         <tensorflow.python.framework.ops.Graph object at 0x000002131EECFB70>
         graph_two = tf.Graph()
In [12]:
         print(graph_two) # we have 3 graphs - g, graph_one, and graph_two
In [13]:
         <tensorflow.python.framework.ops.Graph object at 0x000002131EEE4128>
In [14]:
         with graph_two.as_default():
             print(graph_two is tf.get_default_graph())
         True
In [15]:
         # But, without the with
         print(graph_two is tf.get_default_graph())
         print('--')
         print(graph_one is tf.get_default_graph())
         False
         True
```

That's all for now