Lesson 5

We will be taking a brief look at the stack and unstack functions.

```
In [1]: # Import libraries
        import pandas as pd
        import sys
In [2]: print 'Python version ' + sys.version
        print 'Pandas version: ' + pd.__version__
        Python version 2.7.5 | Anaconda 2.1.0 (64-bit) | (default, Jul 1 2013, 1)
        Pandas version: 0.15.2
In [3]: # Our small data set
        d = \{ 'one' : [1,1], 'two' : [2,2] \}
        i = ['a', 'b']
        # Create dataframe
        df = pd.DataFrame(data = d, index = i)
Out[3]:
           one two
               2
           1
         а
         b
           1
               2
In [4]: df.index
Out[4]: Index([u'a', u'b'], dtype='object')
In [5]: # Bring the columns and place them in the index
        stack = df.stack()
        stack
Out[5]: a one
           two
                  2
        b one
           two
        dtype: int64
In [6]: # The index now includes the column names
        stack.index
Out[6]: MultiIndex(levels=[[u'a', u'b'], [u'one', u'two']],
                   labels=[[0, 0, 1, 1], [0, 1, 0, 1]])
In [7]: unstack = df.unstack()
        unstack
Out[7]: one a
                  1
             b
        two a
                  2
             b
                  2
        dtype: int64
```

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We can also flip the column names with the index using the T (transpose) function.



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