Lesson 6

Lets take a look at the *groupby* function.

```
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' : [1,1,1,1,1], }
              'two':[2,2,2,2,2],
              'letter':['a','a','b','b','c']}
        # Create dataframe
        df = pd.DataFrame(d)
        df
Out[3]:
           letter one two
         0 a
                    2
                1
                    2
           а
         2
                1
                    2
           b
```

```
In [4]: # Create group object
    one = df.groupby('letter')

# Apply sum function
    one.sum()
```

Out[4]:

3 b

С

	one	two
letter		
а	2	4
b	2	4
С	1	2

2

2

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```
In [5]: letterone = df.groupby(['letter','one']).sum()
letterone
```

Out[5]:

		two
letter	one	
а	1	4
b	1	4
С	1	2

You may want to *not* have the columns you are grouping by become your index, this can be easily achieved as shown below.

```
In [7]: letterone = df.groupby(['letter','one'], as_index=False).sum()
letterone
```

Out[7]:

	letter	one	two
0	а	1	4
1	b	1	4
2	С	1	2

```
In [8]: letterone.index
```

Out[8]: Int64Index([0, 1, 2], dtype='int64')

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