

8.1 - Groupby

April 11, 2017

```
In [1]: import pandas as pd  
import numpy as np
```

```
In [2]: df = pd.concat([pd.read_csv('quotes2.csv')]*100)
```

```
In [3]: %timeit df.groupby('ticker').apply(np.mean)
```

10 loops, best of 3: 82.2 ms per loop

```
In [4]: %timeit df.groupby('ticker').aggregate(np.mean)
```

1000 loops, best of 3: 1.54 ms per loop