P1- Analyzing the NYC Subway Dataset - Visualization

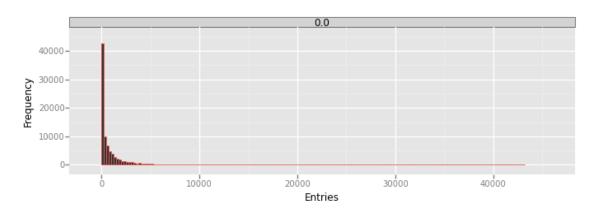
May 3, 2015

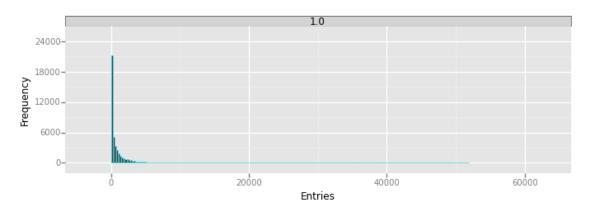
ggplot

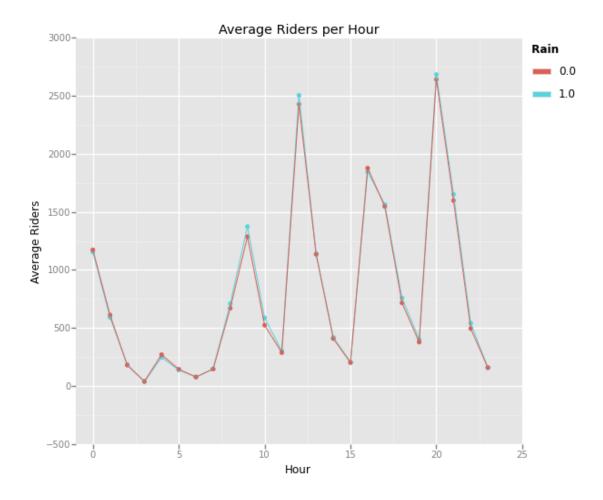
Edward Farrar

```
In [1]: # Import commonly used libraries
        import pandas
        import numpy
        import scipy.stats
        import pandasql
        from ggplot import *
       %matplotlib inline
In [2]: # Create a DataFrame to store the turnstile and weather data.
       allData = pandas.read_csv ("turnstile_data_master_with_weather.csv")
       allData.rename(columns = lambda x: x.replace(' ', '_').lower(), inplace=True)
In [6]: # Produce histograms showing the Entries per hour on non-rainy and rainy days.
       ggplot(allData, aes(x='entriesn_hourly', color='rain')) + \
            geom_histogram(binwidth=250) + \
            facet_wrap('rain') + \
            ggtitle('Entries without Rain (top/red) & with Rain (bottom/blue)') + \
            xlab('Entries') + ylab('Frequency')
```

Entries without Rain (top/red) & with Rain (bottom/blue)







Out[5]: <ggplot: (4011412)>