## Project 1: EDA MTA Dataset

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## Project idea:

- Today we want to do data analysis to help us lead rental space, whether it's advertising screens, food, and drink machines, stores, or pharmacies, etc...
- We want: busiest stations and the days of the crowd.

To perform this analysis we applied the following steps:

- load the dataset (data frame & SQLite)
- Convert dates and time into a string
- Clean (missing data, duplicate data, outliers)
- Statistical operations
- Data Visualization

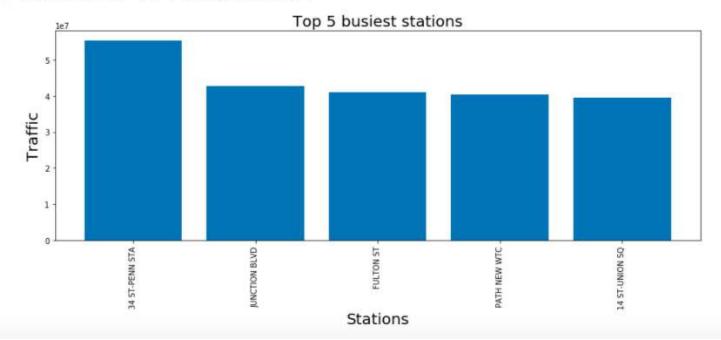
## Visualization:

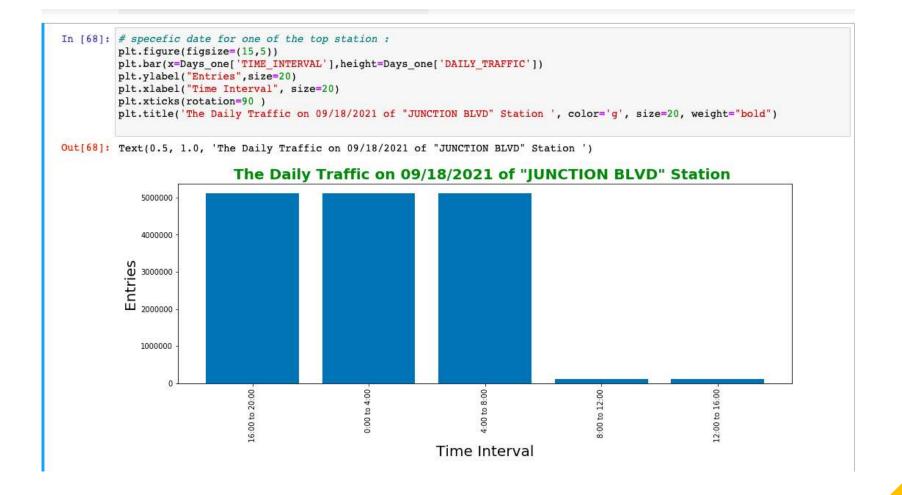
```
In [54]: #Top 10 stations
         plt.figure(figsize=(15,5))
         plt.bar(x=station_totals['STATION'][:10], height=station_totals['DAILY_TRAFFIC'][:10])
         plt.ylabel("Traffic", size=20)
         plt.xlabel("Stations", size=20)
         plt.xticks(rotation=90)
         plt.title('Top 10 busiest stations', size=20)
Out[54]: Text(0.5, 1.0, 'Top 10 busiest stations')
                                             Top 10 busiest stations
          Traffic
                                                      Stations
```

```
In [62]: #top 5 stations

plt.figure(figsize=(15,5))
   plt.bar(x=station_totals['STATION'][:5], height=station_totals['DAILY_TRAFFIC'][:5])
   plt.ylabel("Traffic",size=20)
   plt.xlabel("Stations", size=20)
   plt.xticks(rotation=90)
   plt.title('Top 5 busiest stations',size=20)
```

Out[62]: Text(0.5, 1.0, 'Top 5 busiest stations')





## Thanks for listening