

# Analyst Home Assignment By Tatiana Eliseeva



#### Structure

- 1. Dataset
- 2. Average trip duration change in minutes during the week
- 3. The highest average trip fare between different boroughs
- 4. Introducing subsidies

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#### Dataset

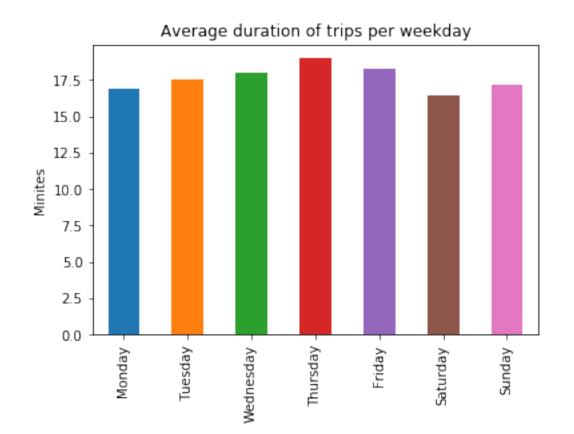


#### Dataset

- http://www.nyc.gov/html/tlc/html/about/trip\_record\_data.shtm
  I
- Yellow taxi dataset for June, 2018

## Average trip duration change in minutes during the week



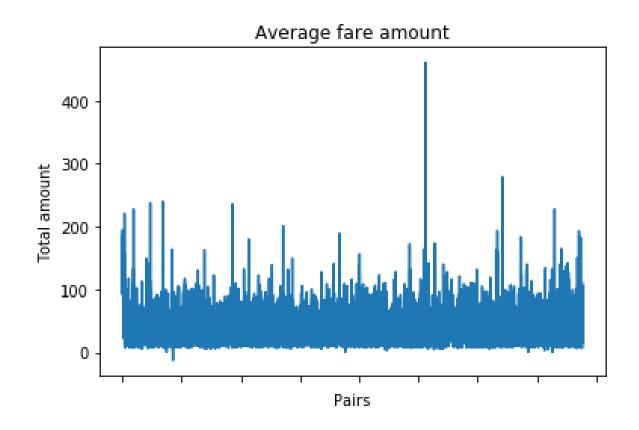




- Average duration of trips per weekday varies from 16 min to 19 min.
- The highest average duration of trips is on Thursday (approximately equals to 19 min).
- The smallest average duration of trips is on Saturday (approximately equals to 16 min).
- Further we can see duration increase between Monday and Thursday and decrease between Thursday and Saturday.

The highest average trip fare between different boroughs

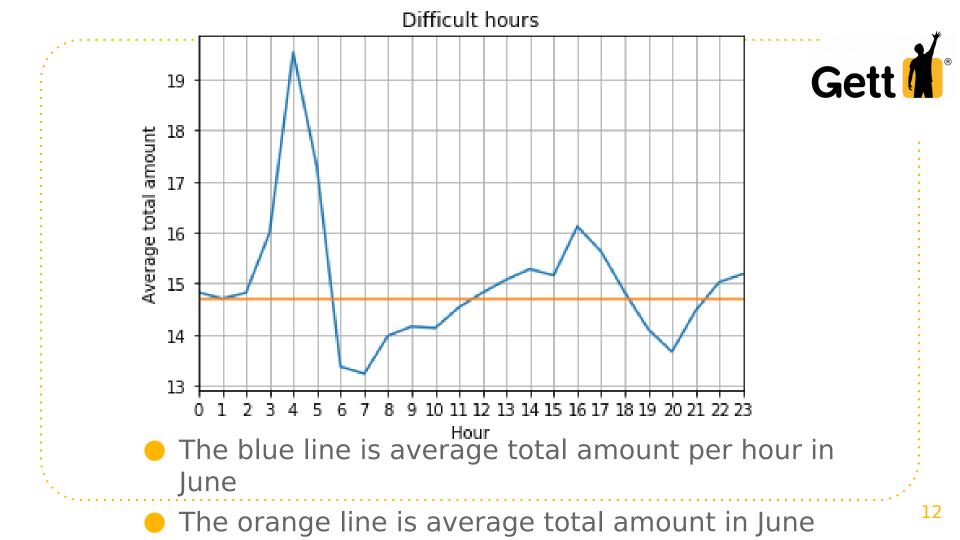






- (118, 265) results in the highest average trip fare which equals to 461.3 dollars
- 118 Zone Heartland Village/Todt Hill (borough Staten Island)
- 265 Zone NA

#### Introducing subsidies





- X per ride = Average total amount per hours Average total amount per difficult hours
- X per month = X per ride \* Average number of trips in difficult hours



- Problem evening hours are between 6 p.m. and 9 p.m.
- $X_per_ride = 0.433$ \$
- Total subsidies amount per month is 606837\$ (less than our budget \$6mln)



### Thanks! Any questions?

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