NYC Taxi & Limousine Commission Yellow Taxi June 2018

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AVERAGE TRIP DURATION

Data Preparation

• Performed data check to find outliers. Data from .csv file contained:

Years	
2002	
2008	
2009	
2018	
2019	

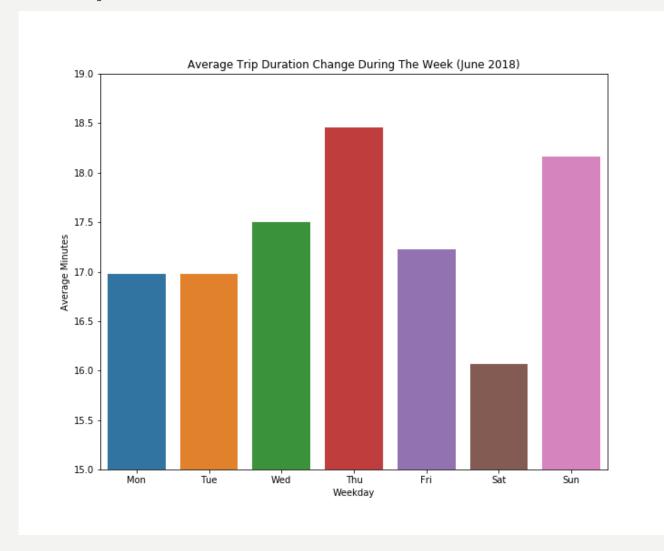
Months

From I (January) to I2 (December)

- Deleted irrelevant data from dataframe. Kept only year 2018 and month 6 (June)
- Deleted trips with 0 distance and trips with 0 minutes from dataframe

AVERAGE TRIP DURATION

Data Analysis



Weekday	Average Trip Duration, min
Monday	16.98
Tuesday	16.98
Wednesday	17.50
Thursday	18.46
Friday	17.23
Saturday	16.07
Sunday	18.16

HIGHEST AVERAGE TRIP FARE FOR DIFFERENT BOROUGHS

Data Analysis

• Defined top-5 pairs

Pick Up Borough	Drop Off Borough	Average Trip Fare, \$
Staten Island	Queens	183.73
Staten Island	Unknown Borough	177.94
Queens	EWR	147.36
Bronx	EWR	119.71
EWR	Brooklyn	112.58

• Highest average trip fare is equal to \$183.73 and from Staten Island to Queens

SUBSIDIES FOR FARES FROM MANHATTAN

Data Analysis

- Assumption: \$1.0 extra for rush hours
- Defined rush hours:

	Hour																							
	00	01	02	03	04	05	06	07	08	09	10	П	12	13	14	15	16	17	18	19	20	21	22	23
	35	24	25	22	59	110	239	334	266	150	158	178	239	445	604	17659	276973	333039	388671	363111	5138	234	160	101
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Number of Trips with extra \$1.0 on working days

- Rush hours is between 16:00:00 and 20:00:00
- There were 1,361,794 trips during evening peak hours from Manhattan on working days in June 2018
- Given monthly budget of \$6mln the amount of possible subsidies could be

$$\frac{6,000,000}{1,361,794} =$$
\$4.40 per ride