Citi Bike Analytics (Using Tableau)
By Elstan Tam

Date range: The 1st quarter of 2019: From January 2019 to March 2019
Data Sources: https://www.citibikenyc.com/system-data

Background:

Since 2013, the Citi Bike Program has implemented a robust infrastructure for collecting data on the program's utilization. Through the team's efforts, each month bike data is collected, organized, and made public on the Citi Bike Data webpage.

Goal: Implementing dashboards to oversee the largest bike sharing program in the United Sates.
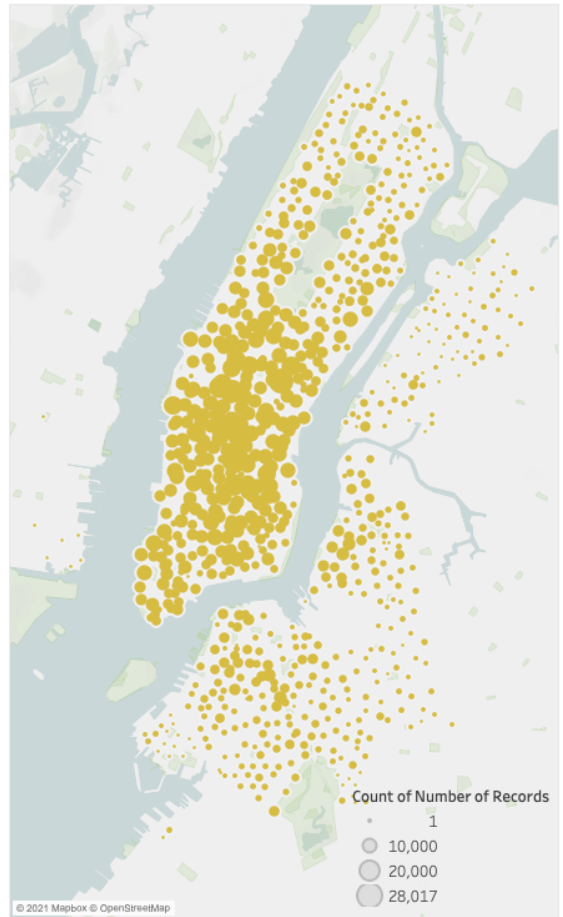
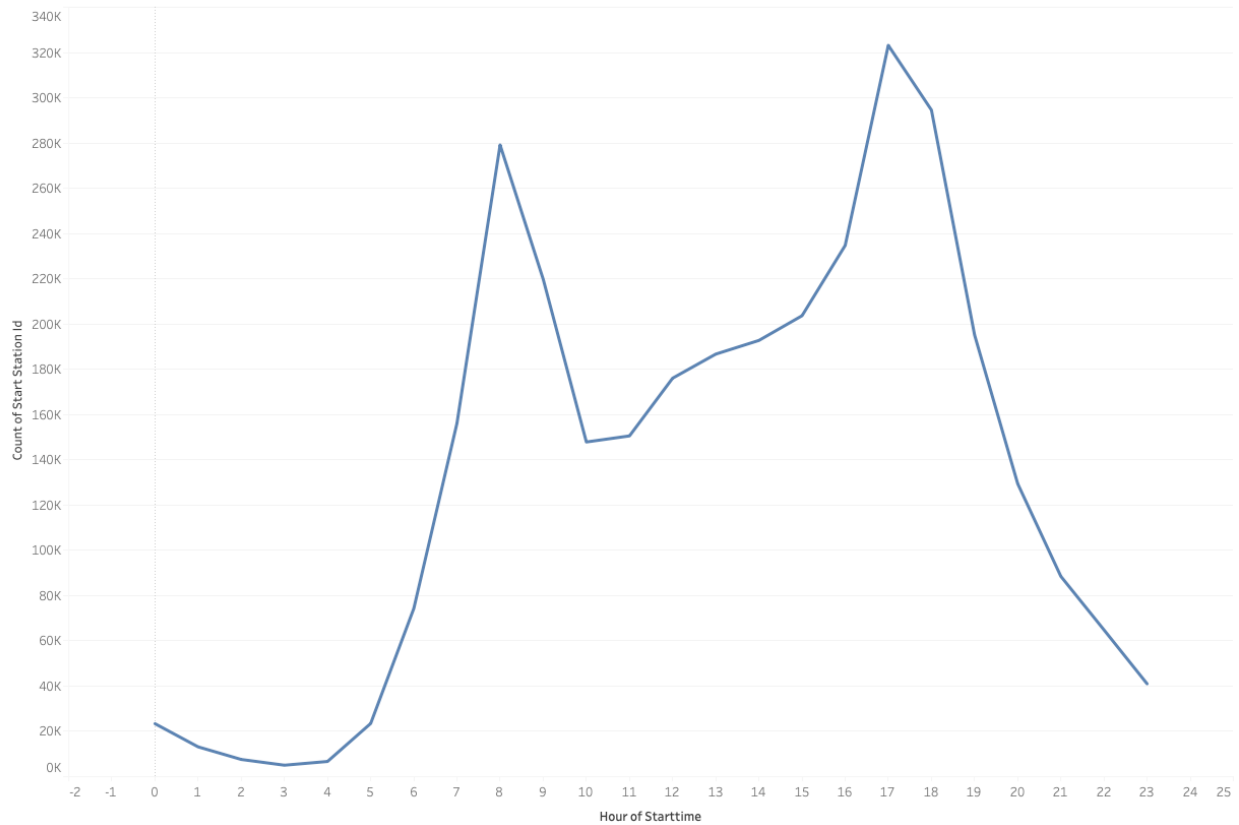Analysis

Most Popular Locations of a Journey
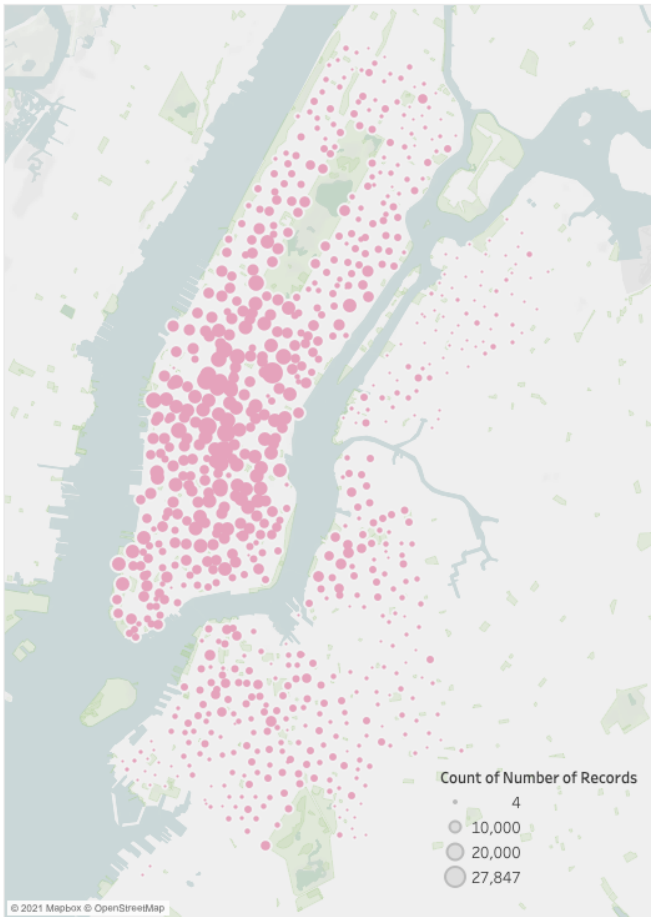
Most Popular Locations for Destination

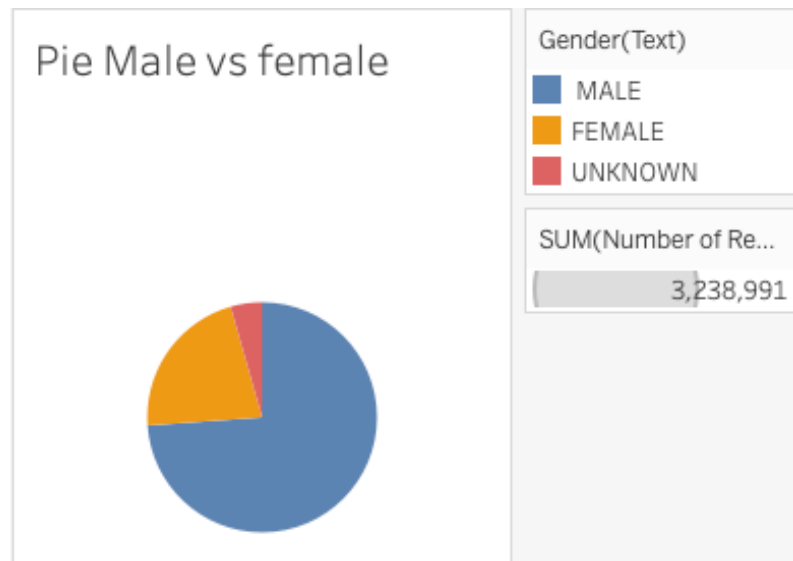From the map analyzed, this can clearly see that people are mostly riding the bike within the City.
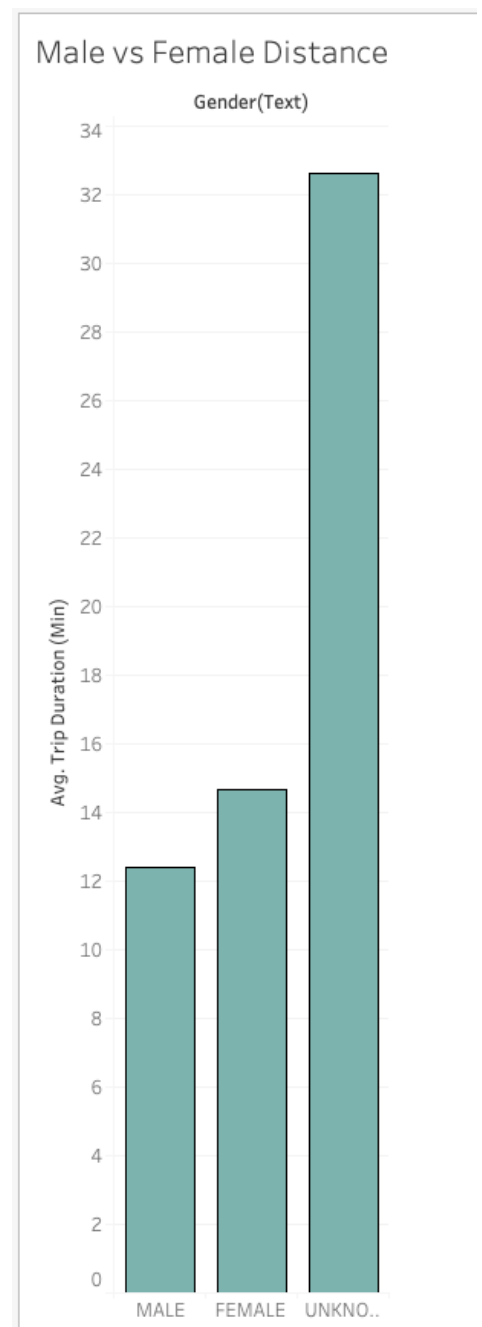
Average Hourly bikes demand throughout the first quarter of 2019

- An overall plot of hourly bikes demand throughout the first quarter of 2019. The demand can be seen that during commute hours, roughly around 8am and 6pm. Demands reached close to 0 at 3am to 4am as people rarely bike at the late evening / early morning hours.

Pie Male vs female

Gender(Text)

- ■ MALE
- ■ FEMALE
- ■ UNKNOWN

SUM(Number of Re...

3,238,991

Male vs Female Distance

- With the pie chart analyzed, most bike users are male

- However with the bar chart analyzed, it is analysed that female users are slightly riding the bike longer than male users.

Different stations that average age people bike

Start Station Name

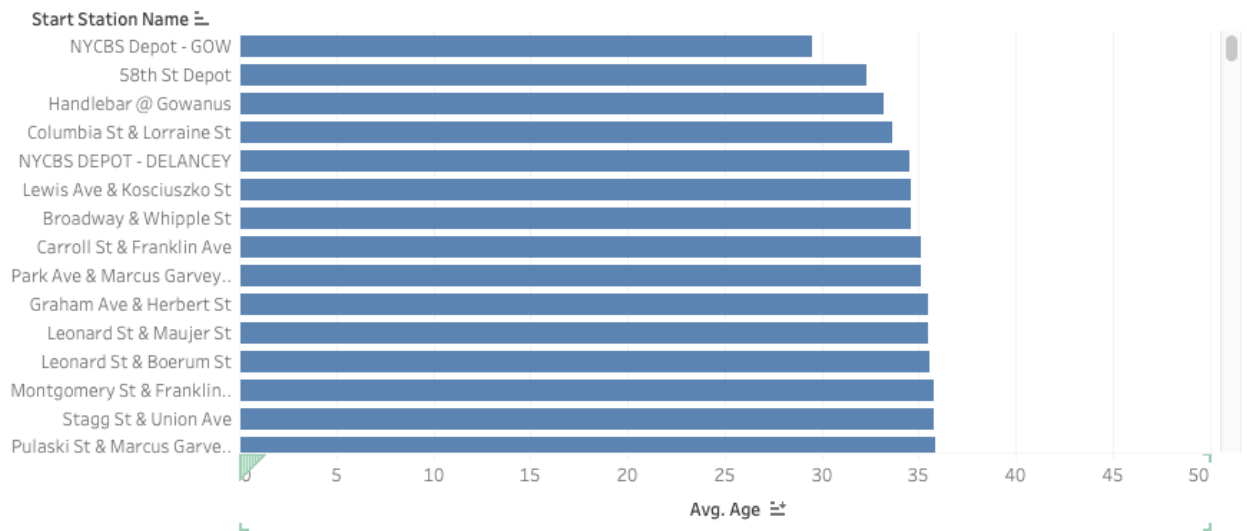| Station	
West End Ave & W 94 St	
Riverside Dr & W 104 St	
E 67 St & Park Ave	
Columbia St & Rivington St	
5 Ave & E 93 St	
W 92 St & Broadway	
Cherry St	
E 72 St & Park Ave	
Riverside Dr & W 82 St	
Garfield Pl & 8 Ave	
Riverside Dr & W 78 St	
W 82 St & Central Park We..	
E 68 St & Madison Ave	

Start Station Name: **Riverside Dr & W 78 St**
Avg. Age: 46.78

Avg. Age

Different stations that average age people bike

Start Station Name

Station	
NYCBS Depot - GOW	
58th St Depot	
Handlebar @ Gowanus	
Columbia St & Lorraine St	
NYCBS DEPOT - DELANCEY	
Lewis Ave & Kosciuszko St	
Broadway & Whipple St	
Carroll St & Franklin Ave	
Park Ave & Marcus Garvey..	
Graham Ave & Herbert St	
Leonard St & Maujer St	
Leonard St & Boerum St	
Montgomery St & Franklin..	
Stagg St & Union Ave	
Pulaski St & Marcus Garve..	

Avg. Age

- West End Ave & W 94 St station seemed to have mostly elder bikers ride the bike while NYCBS Depot has mostly the younger riders.

The average trip durations for different age
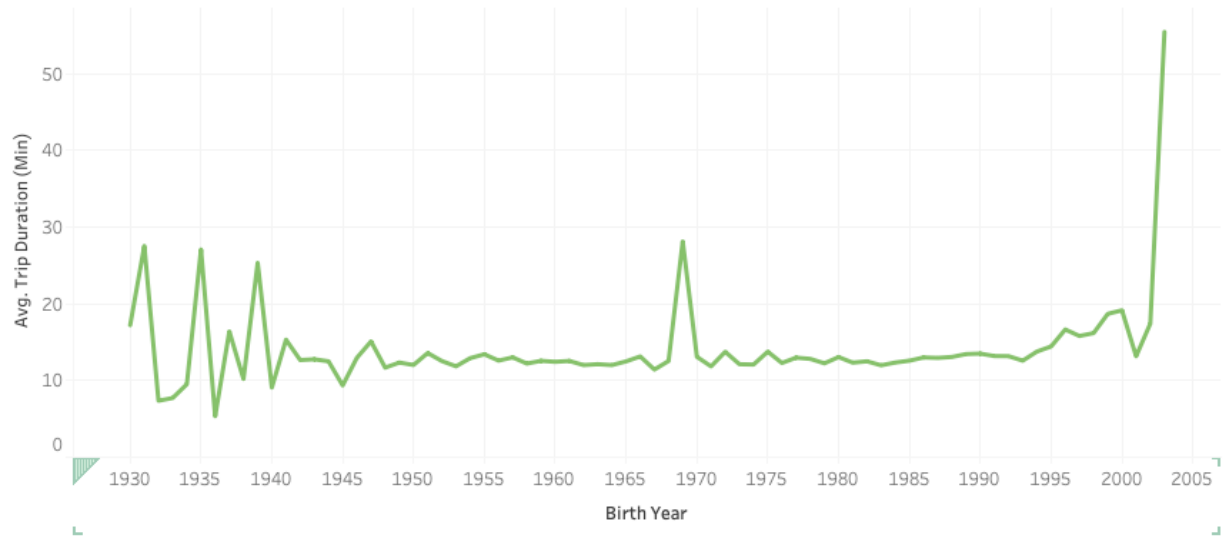
- Mostly youth riders will ride the bike longer than elders do.