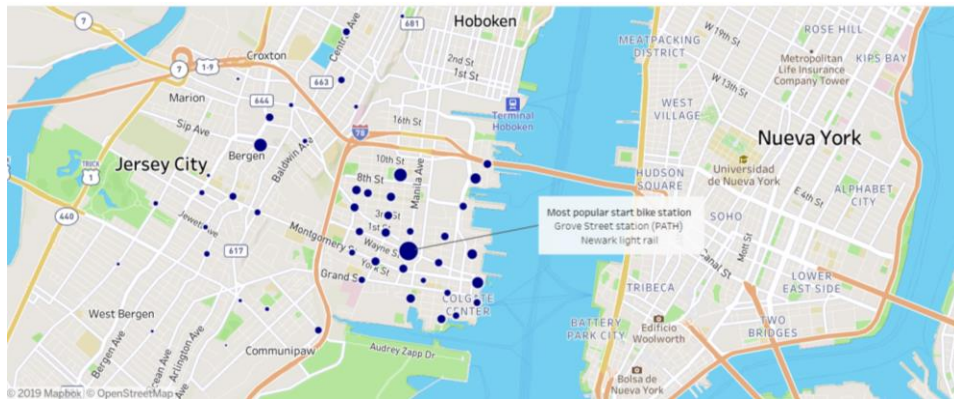


Citi Bikes trips 2015 to 2019

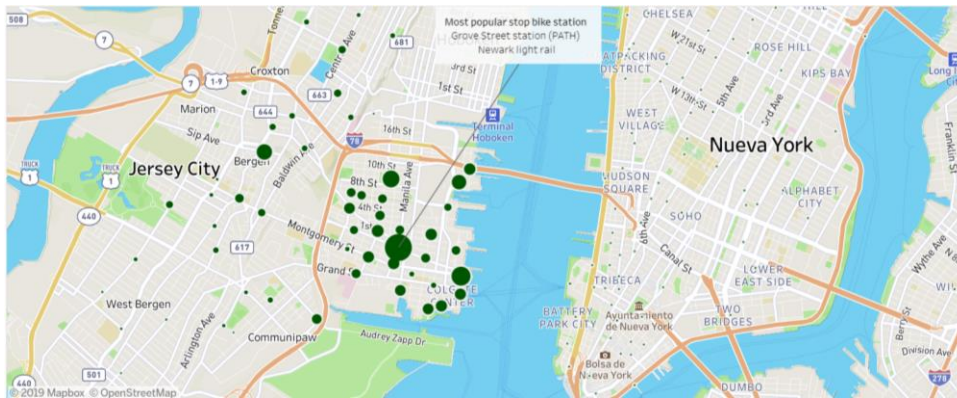
New Jersey - New York City

The data set contains information of bike trips made in New York City with the public bike net of Citi Bike NYC <https://www.citibikenyc.com/system-data>. It comprises 916,205 trips made from september-2015 to may-2019.

Start station location by number of trips

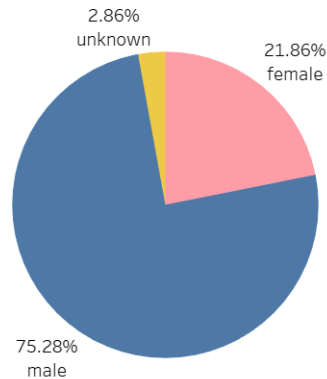


Stop station location by number of trips



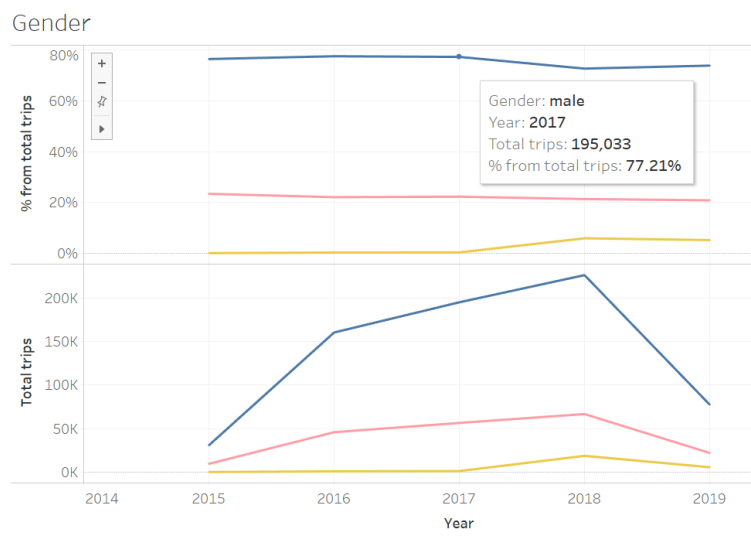
- The most common start and stop point throughout is the one closer to Grove Street station of Newark light rail. This happens for all months throughout the years of 2015 to 2019.
- Most of the trips take place in Newark rather than New York City.
- There are no trips that start in New York City however there are trips that end there (~60 stations with 1 to 15 trips each). This shows that people use bikes to come back to New York City from Newark, however they reach Newark by other mean.
- Citi Bikes are not commonly used in New York City.

Trips Gender distribution



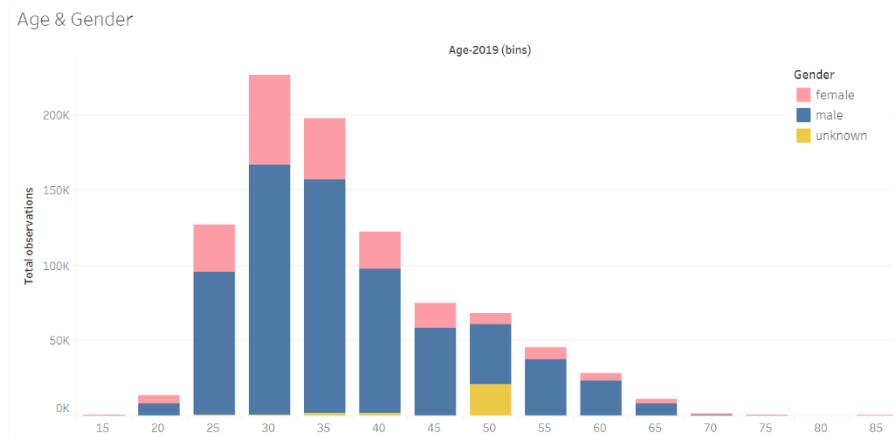
- The average percentage of trips throughout the period were mostly from male users ~75%

Proportion of gender from total trips by year Total trips by Year and Gender



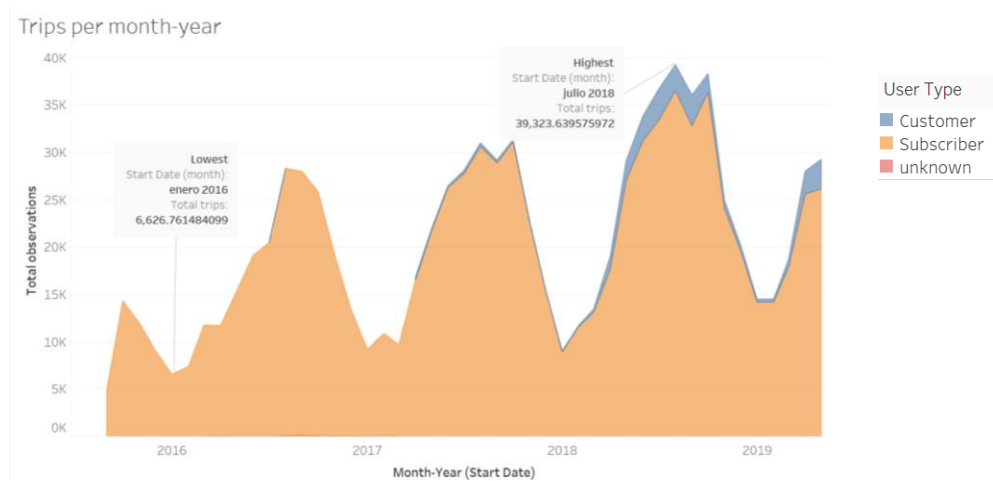
- The proportion of trips made by males and females remains with little variation through the years, however, the number of trips increased from september 2015 to the beginning of 2016 and from 2016 to 2017. From 2018 to 2019 the number of trips had a drastic decrease of 66%.
- From the information we could not know the proportion by user instead of trips. Most likely, these trips were made by the same usual group of people.

Trips by Age and Gender



- Most of the trips are made by people from 30 to 35 years old and it decreases from 35 and older. Surprisingly, there are some users aged from 70 to 85 years old. The data set contained ages from 96 up to more than 100. These observations were considered mistaken data and omitted.

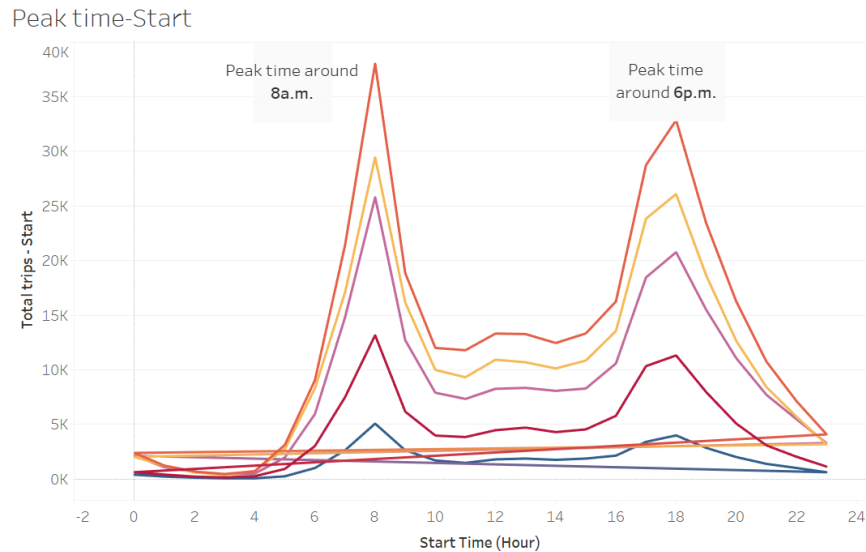
Trips per date and user type



- The number of trips fluctuate showing a pattern each year. It is at the beginning of the year where trips are the lowest and they keep incrementing till they reach the highest point in august. For 2017 and 2018, there was a low decrease from august to september and then an increase from september to october, almost of the same magnitude.
- This seasonality may be due to the weather. The drop in the number of trips starts in fall all the way to winter and starts augmenting during spring and summer.

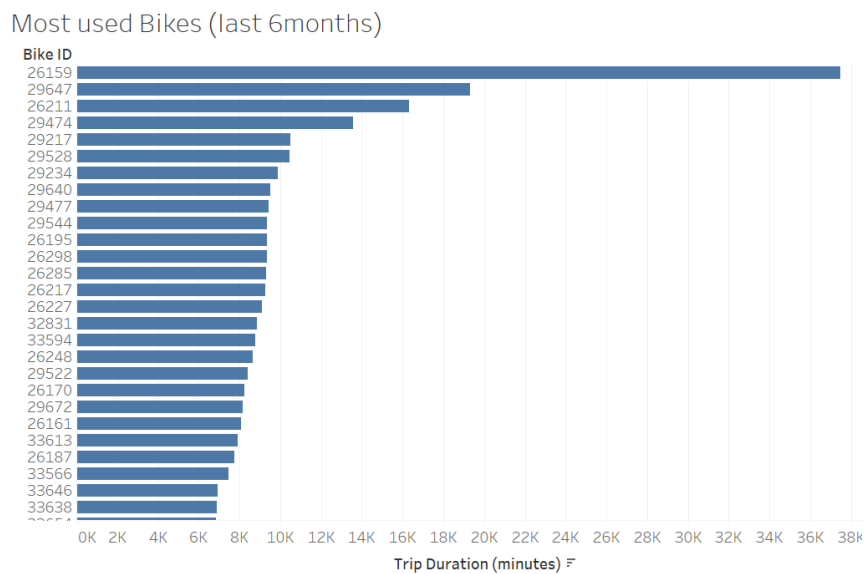
- The vast majority of the trips were made by “Subscriber” users, meaning they have a yearly subscription, compared to “Customer” users who have either 3-month or 24-hour subscription.

Peak time for Trip start



- It is clear that the peak time of starting a bike trip has been consistent for the last 5 years.
- Most likely these trips are made for reaching office/work and going back home, as the peak times are around 8a.m. and 6p.m.

Most used Bikes (last 6 months)



- Based on each trip duration, these are the top 25 most used bikes. Depending on the life span of the bikes, these may be the first ones to require maintenance.