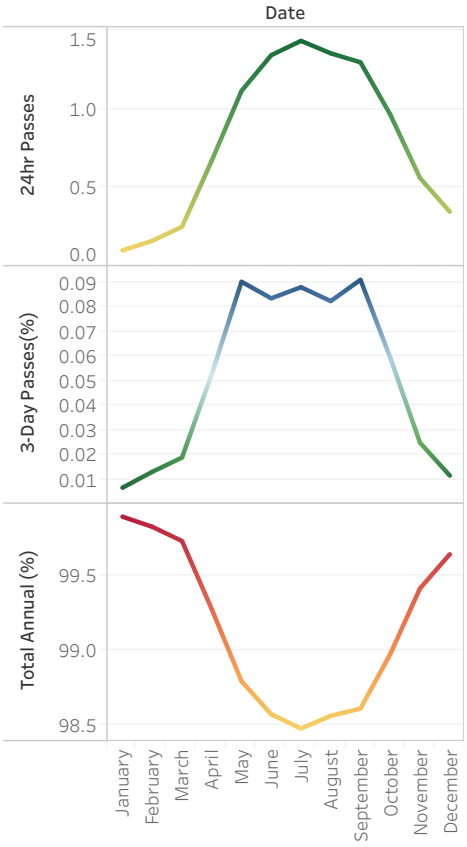
Story 1

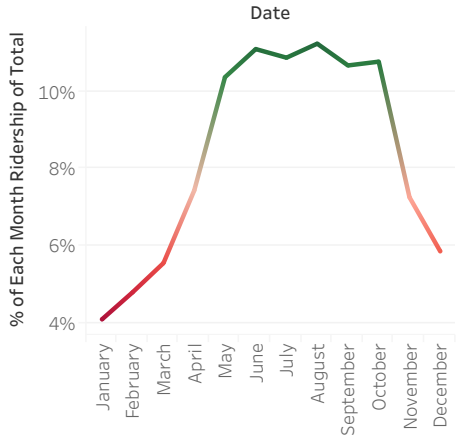
Propertion of Short-term Customers and Annual Subscribers Changed over Months.

More than 98.4 riders are annual subscribers, less than 0.1% people purchased 3-day passes and less than 1.4% people purchased 24hr passes.



Total Ridership change(%) 2018

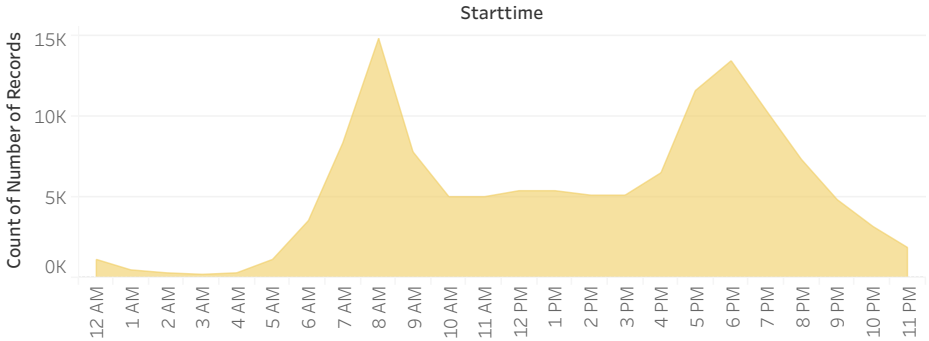
Summer Months(Jun-Aug) are business city bike ride months in the whole year.



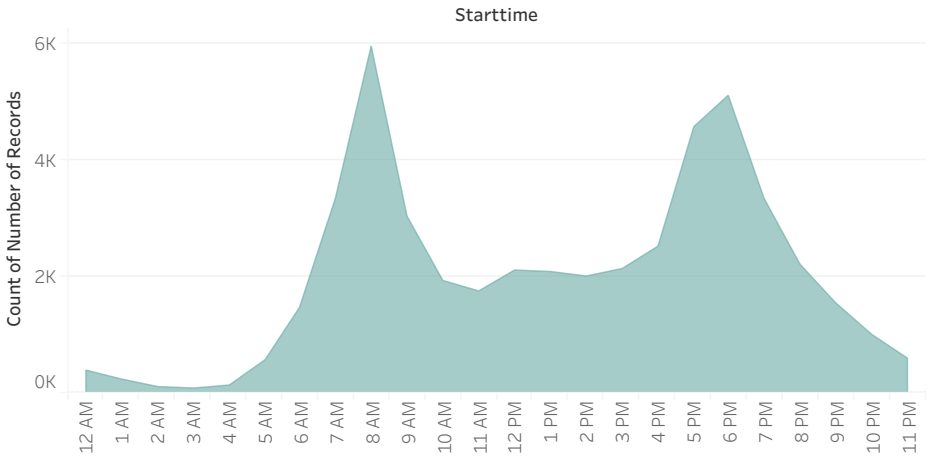
Story 1

The 1st and 2rd peak hours during a day are 8AM and 6PM for both summer months and winter months.

Summer Months(Jun-Aug) Peak Hours



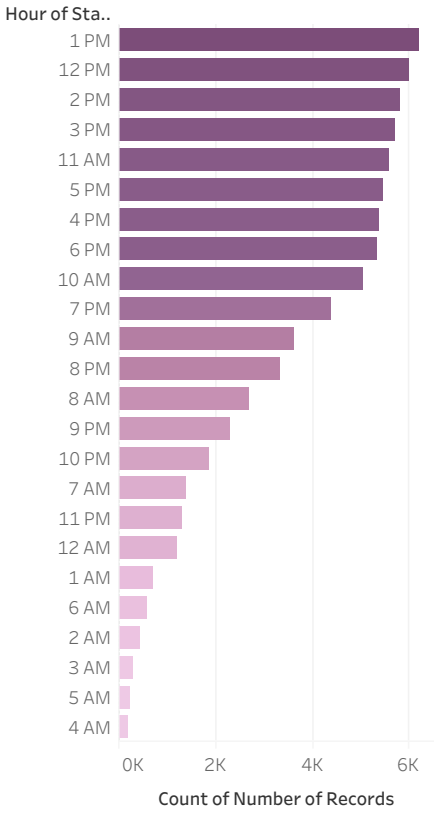
Winter Months(Dec-Feb) Peak Hours



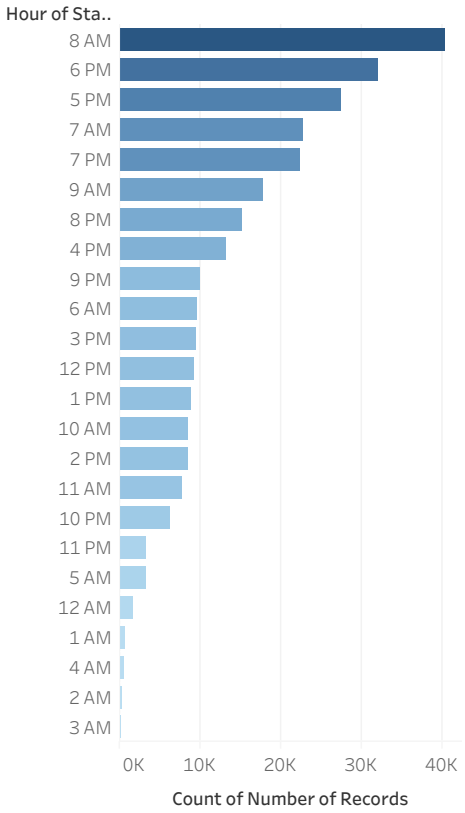
Story 1

Ridership change over months and usetype proportion change ov..
Summer Months and Winter Months peak hours
Peak hours in weekend and weekdays
Top 10 start and end stations. Bottom 10 start and end stations
Gender total proprotion, weekend and weekday proport..
Female Ridership change and Average trip duration change ..
The bikes are more likely due for repa..

Peak Hours in Weekend



Peak Hours in Weekdays

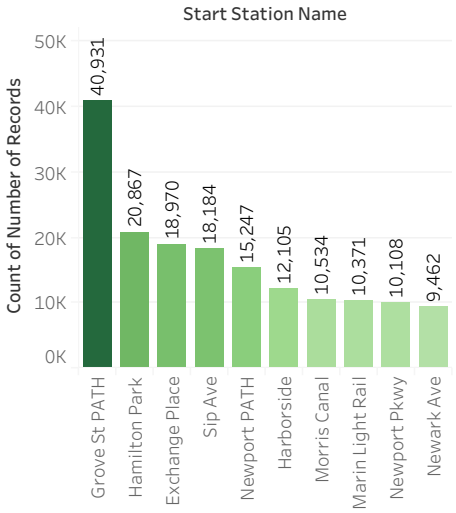


City bike peak hours in weekend between 12pm-3pm,not 8am in weekdays. In weekend, people ride bike for traveling not for work.

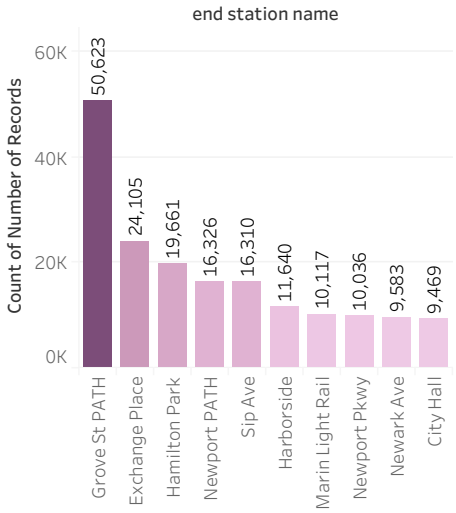
Story 1

Ridership change over months and usetype proport.. | Summer Months and Winter Months peak hours | Peak hours in weekend and weekdays | **Top 10 start and end stations. Bottom 10 start and end stations** | Gender total proprotion, weekend and weekday proport.. | Female Ridership change and Average trip duration change .. | The bikes are more likely due for repair or inspection

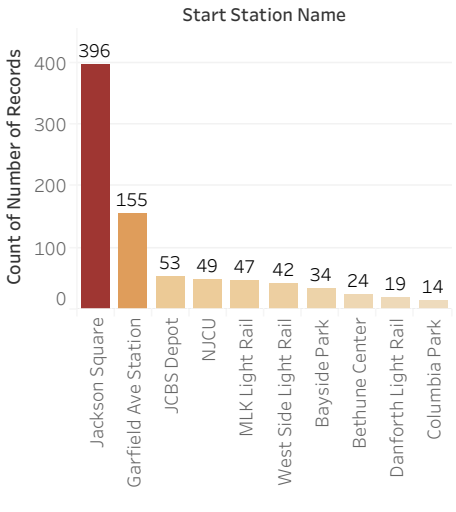
Top 10 Stations-Start



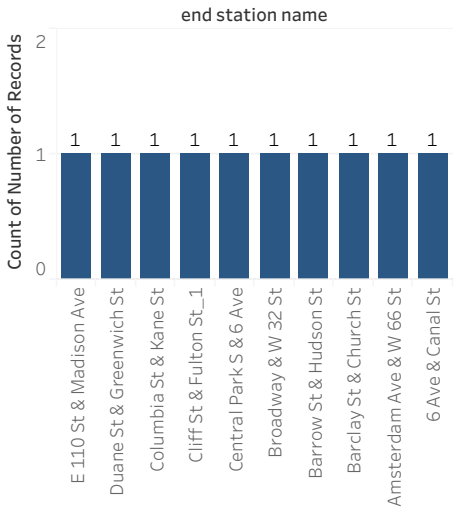
Top 10 Stations-End



Bottom 10 Stations-Start



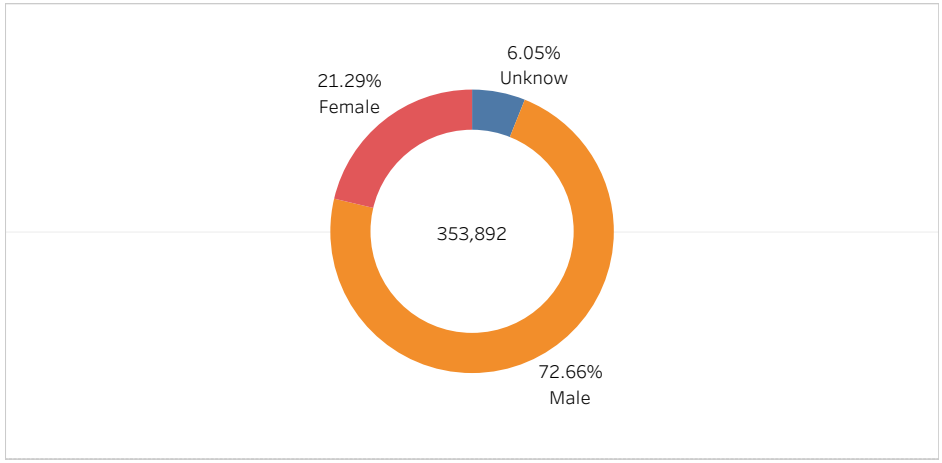
Bottom 10 Stations-Endf



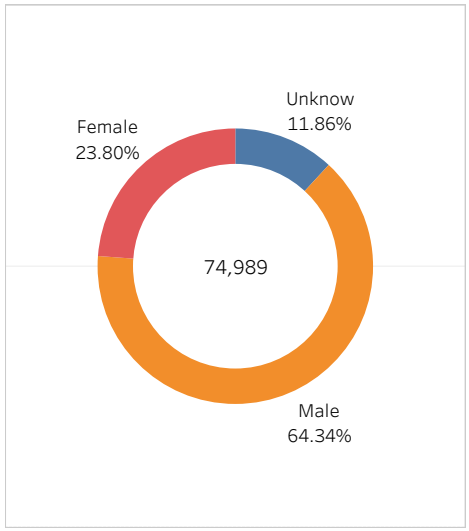
Story 1

Gender Proportion

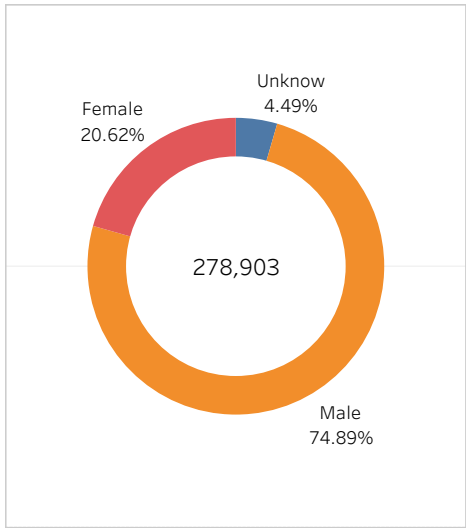
Women's proportion increased on Saturday and Sunday(from 20.62% to 23.80%), while male rider decreased (from 74.89% to 64.34%)



Weekend



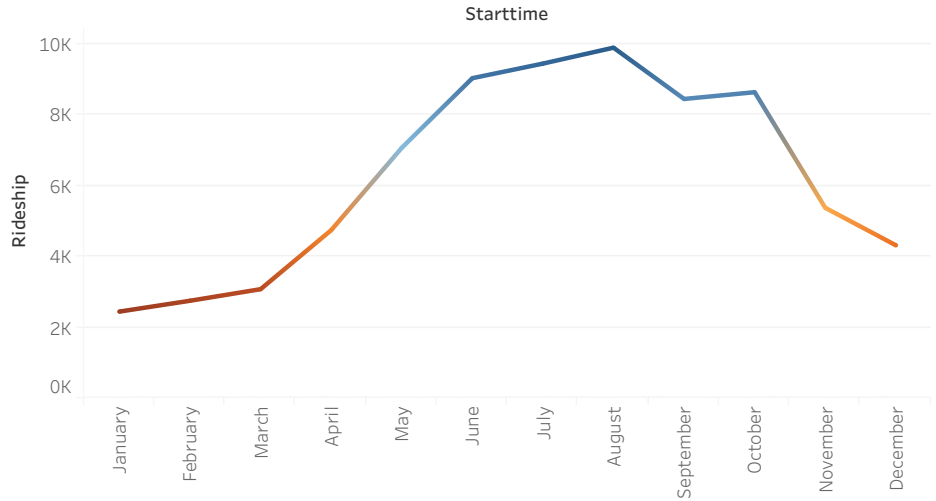
Weekday (Mon-Fri)



Story 1

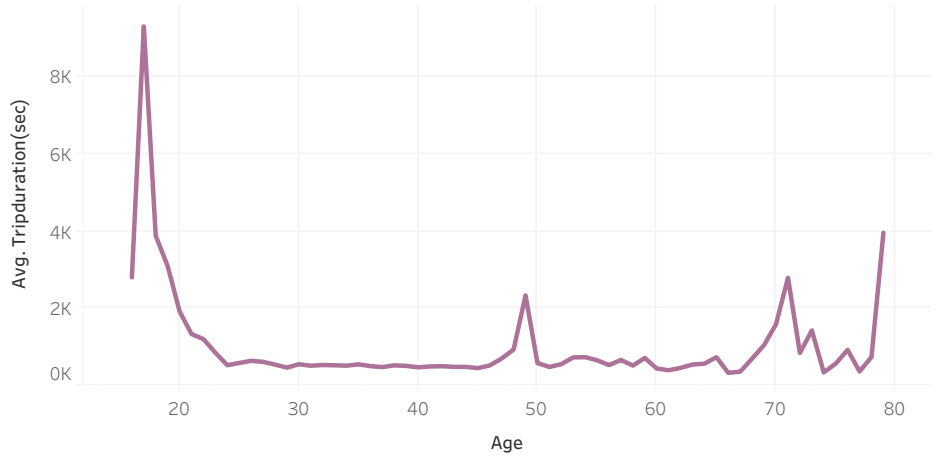
Peak hours in weekend and weekdays	Top 10 start and end stations. Bottom 10 start and end stations	Gender total proprotion, weekend and weekday proport..	Female Ridership change and Average trip duration change ..	The bikes are more likely due for repair or inspection	Utilization variable by Bike ID	The popular stations to start and end

Female Ridership Change Over Months



Average Trip Duration Change by Age(<80)

The data of people whose age older than 80 was excluded because of not trustworthy.
The current major city bike riders fall into young peope age between 16-19



Story 1

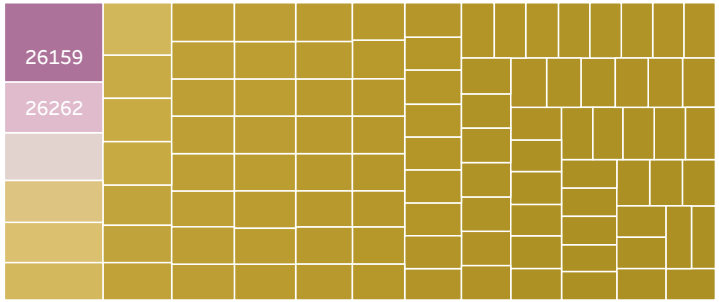
Top 10 start and end stations. Bottom 10 start ..	Gender total proprotion, weekend and weekday proport..	Female Ridership change and Average trip duration change ..	The bikes are more likely due for repair or inspection	Utilization variable by Bike ID	The popular stations to start and end	End stations' popularity changes over months

Average Distance
1.989 miles

The bikes with the highest trip during are most likely due for repair or inspection. The top 5 bikeid with the highest trip during are : 26159, 26262, 29438, 26210, 29647

Tripduration
464,782 2,386,172

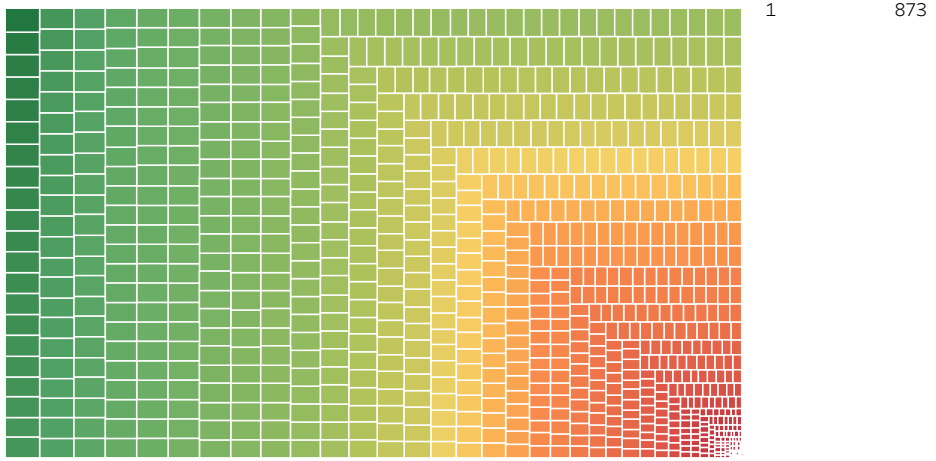
Total Tripduring by Bikeid in 2018(Top 100)



Story 1

Top 10 start and end stations. Bo..	Gender total proprotion, weekend and weekday proport..	Female Ridership change and Average trip duration change ..	The bikes are more likely due for repair or inspection	Utilization variable by Bike ID	The popular stations to start and end	End stations' popularity changes over months

Utilization Variable by Bike ID

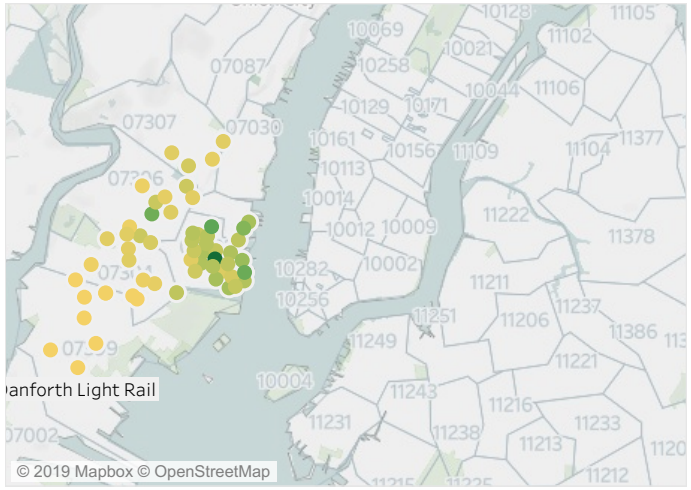


The top 5 most often riden bike are: 26155, 26288, 29586, 29602, 29635

Story 1

The Popular Stations to Start

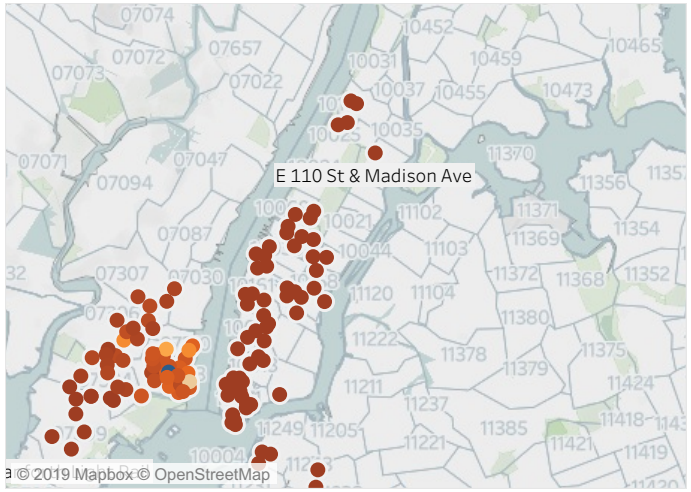
There are 59 distict recorded start stations



From the map , we can see all the start stations are located in Jersey City but end stations are distributed in Jersey City, Manhathan and Brooklyn. It might because more and more people choose to live in Jersey City and work in Manhathan.

The Popular Stations to End

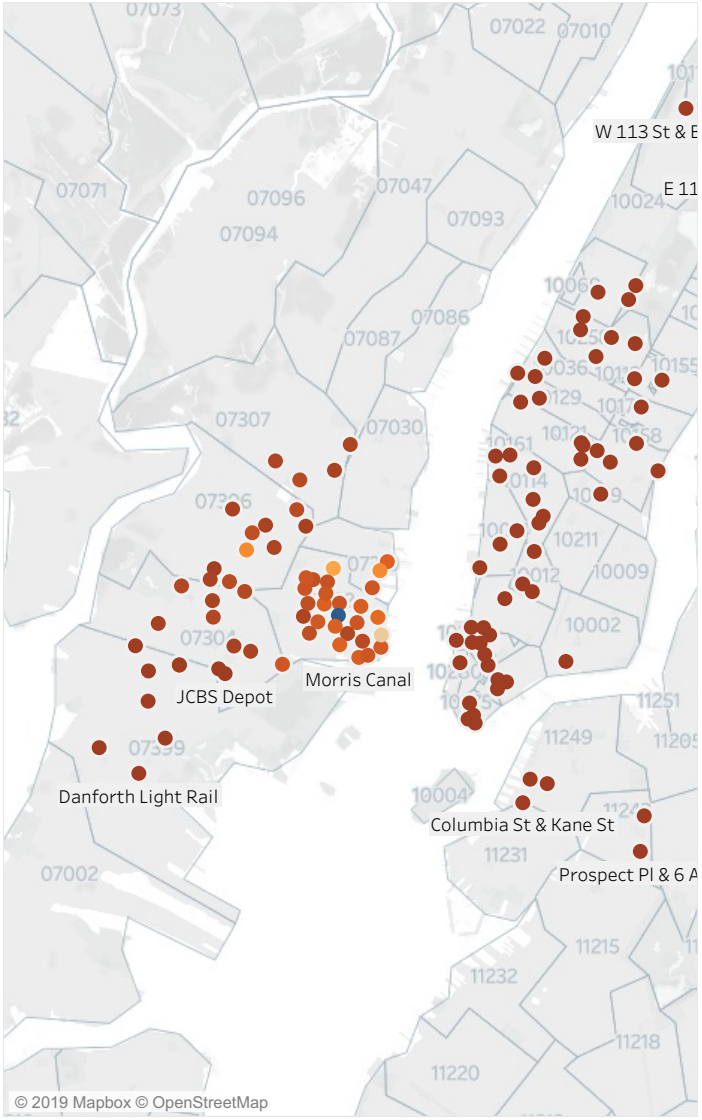
There are 126 distict recorded end stations



Story 1

Top 10 start and end stations. Bo..	Gender total proprotion, weekend and weekday proport..	Female Ridership change and Average trip duration change ..	The bikes are more likely due for repair or inspection	Utilization variable by Bike ID	The popular stations to start and end	End stations' popularity changes over months

End Stations' Popularity Changes over Months



Month of Stoptime

- [x] January
- [x] February
- [x] March
- [x] April
- [x] May
- [x] June
- [x] July
- [x] August
- [x] September
- [x] October
- [x] November
- [x] December

Number of Records

1 — 50,623