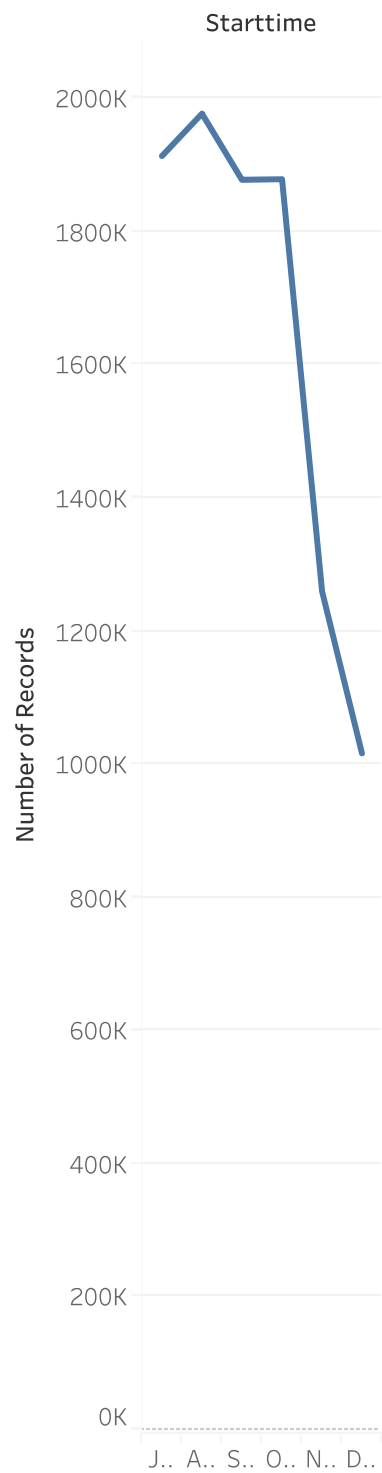## Total Trips and Trend of NYC Citi Bike in the Second Half 2018
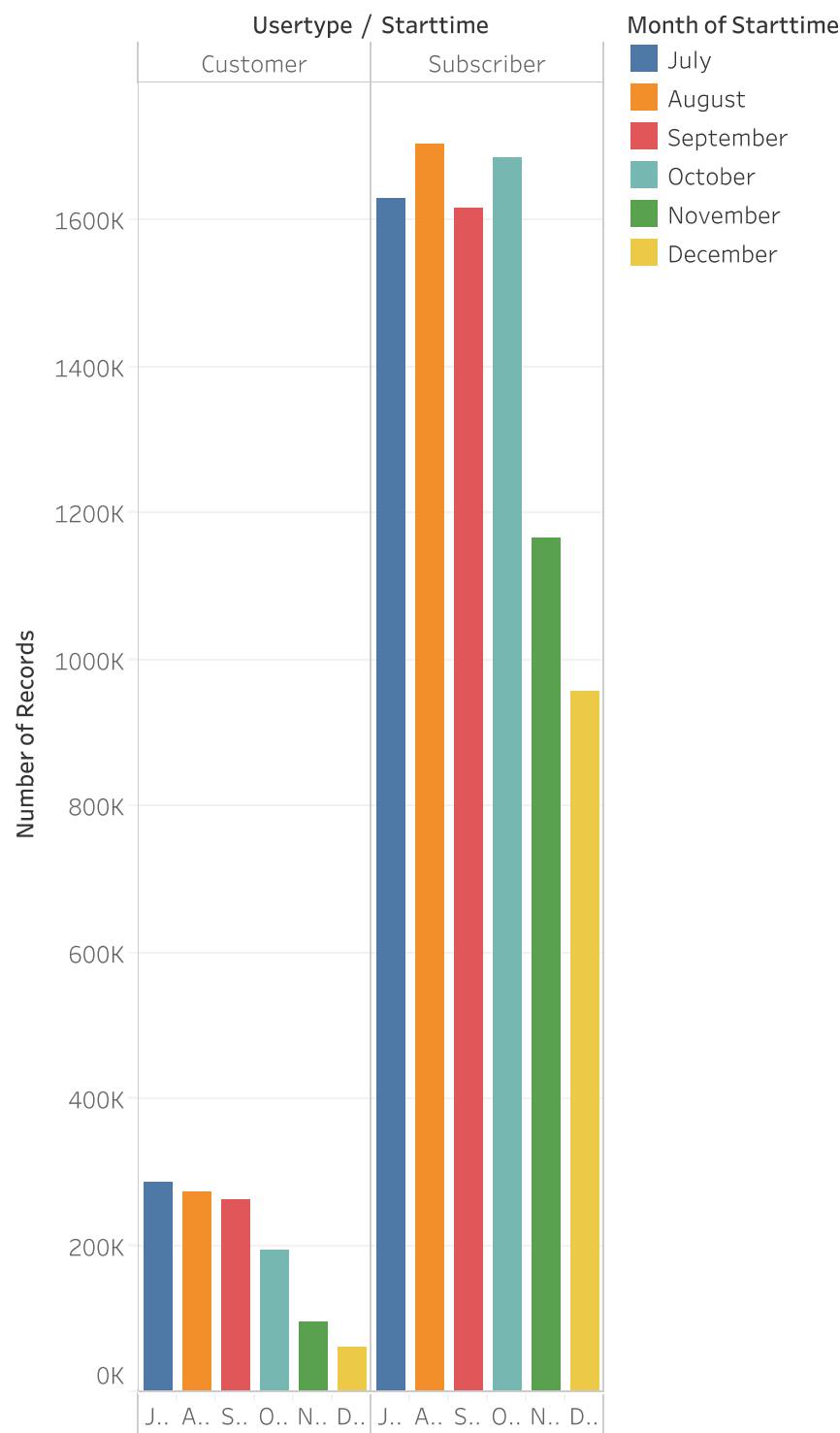
Users dramatically dropped at winnter time because people tends to travel indoor during cold weather time.

Starttime

Number of Records

2000K	
1800K	
1600K	
1400K	
1200K	
1000K	
800K	
600K	
400K	
200K	
0K	

J.. A.. S.. O.. N.. D..

The trend of sum of Number of Records for Starttime Month.

Total Trips by User Types

subscribers are tends to continous travel with a
bike because of habit.

Usertype / Starttime

| Customer | Subscriber |

Month of Starttime
- July
- August
- September
- October
- November
- December

Number of Records

1600K
1400K
1200K
1000K
800K
600K
400K
200K
0K

J.. A.. S.. O.. N.. D.. J.. A.. S.. O.. N.. D..

Sum of Number of Records for each Starttime Month
broken down by Usertype. Color shows details about
Starttime Month.
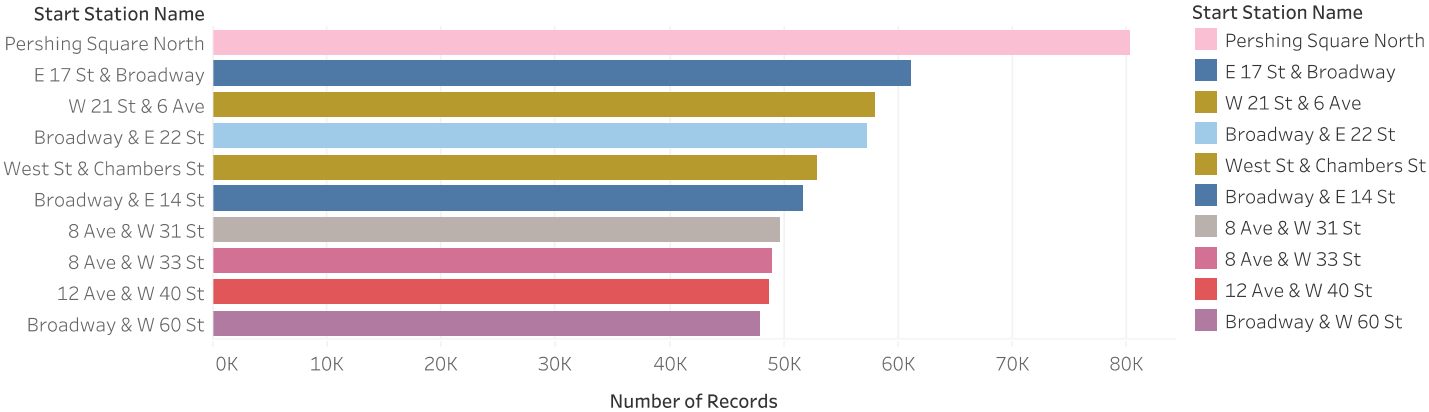
Peak Hours in Second Half 2018

Peak Hours are usually happened in commuting time.
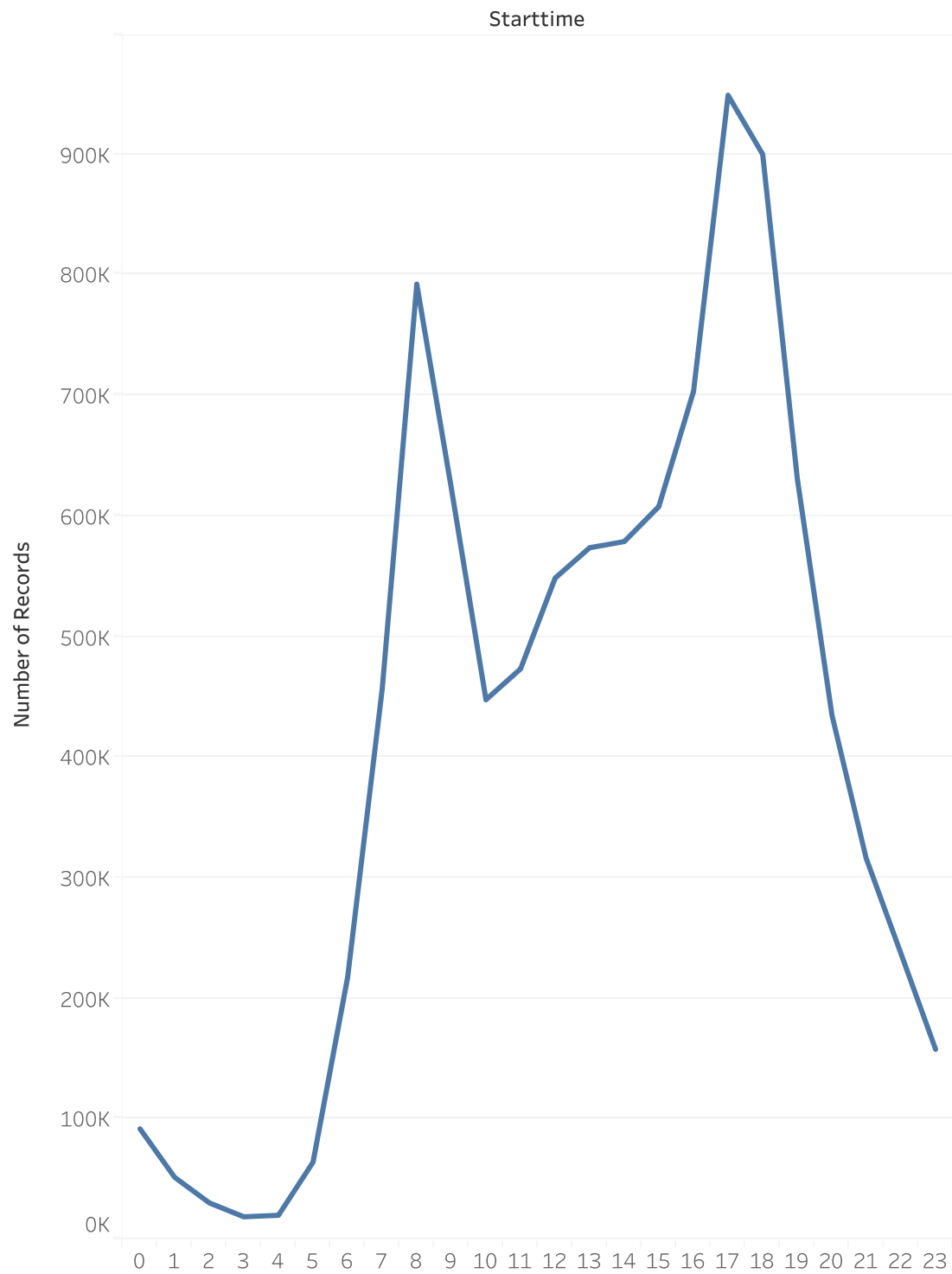
Starttime

The trend of sum of Number of Records for Starttime Hour.
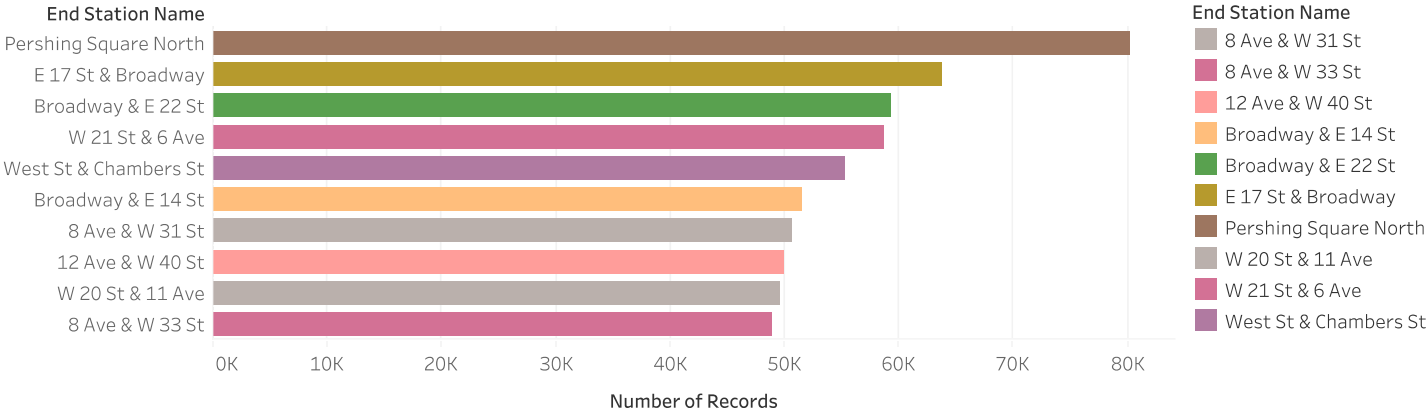
Top 10 Stations for Starting a Journey

These stations are closed to highly populated area, like school, office, malls and transportation hubs.

Start Station Name

Start Station Name	
Pershing Square North	■ Pershing Square North
E 17 St & Broadway	■ E 17 St & Broadway
W 21 St & 6 Ave	■ W 21 St & 6 Ave
Broadway & E 22 St	■ Broadway & E 22 St
West St & Chambers St	■ West St & Chambers St
Broadway & E 14 St	■ Broadway & E 14 St
8 Ave & W 31 St	■ 8 Ave & W 31 St
8 Ave & W 33 St	■ 8 Ave & W 33 St
12 Ave & W 40 St	■ 12 Ave & W 40 St
Broadway & W 60 St	■ Broadway & W 60 St

0K   10K   20K   30K   40K   50K   60K   70K   80K

Number of Records

Sum of Number of Records for each Start Station Name. Color shows details about Start Station Name. The view is filtered on Start Station Name, which keeps 10 of 798 members.
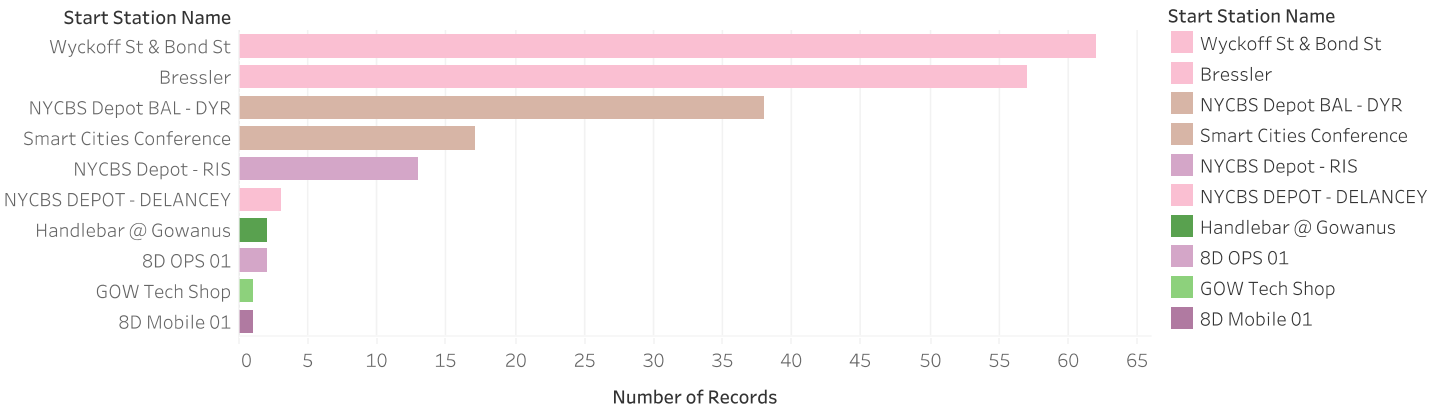
Top 10 Stations for Ending a Journey

These stations are closed to highly populated area, like school, office, malls and transportation hubs.

End Station Name

Station	
Pershing Square North	
E 17 St & Broadway	
Broadway & E 22 St	
W 21 St & 6 Ave	
West St & Chambers St	
Broadway & E 14 St	
8 Ave & W 31 St	
12 Ave & W 40 St	
W 20 St & 11 Ave	
8 Ave & W 33 St	

0K   10K   20K   30K   40K   50K   60K   70K   80K

Number of Records

End Station Name
- 8 Ave & W 31 St
- 8 Ave & W 33 St
- 12 Ave & W 40 St
- Broadway & E 14 St
- Broadway & E 22 St
- E 17 St & Broadway
- Pershing Square North
- W 20 St & 11 Ave
- W 21 St & 6 Ave
- West St & Chambers St

Sum of Number of Records for each End Station Name. Color shows details about End Station Name. The view is filtered on End Station Name, which keeps 10 of 861 members.
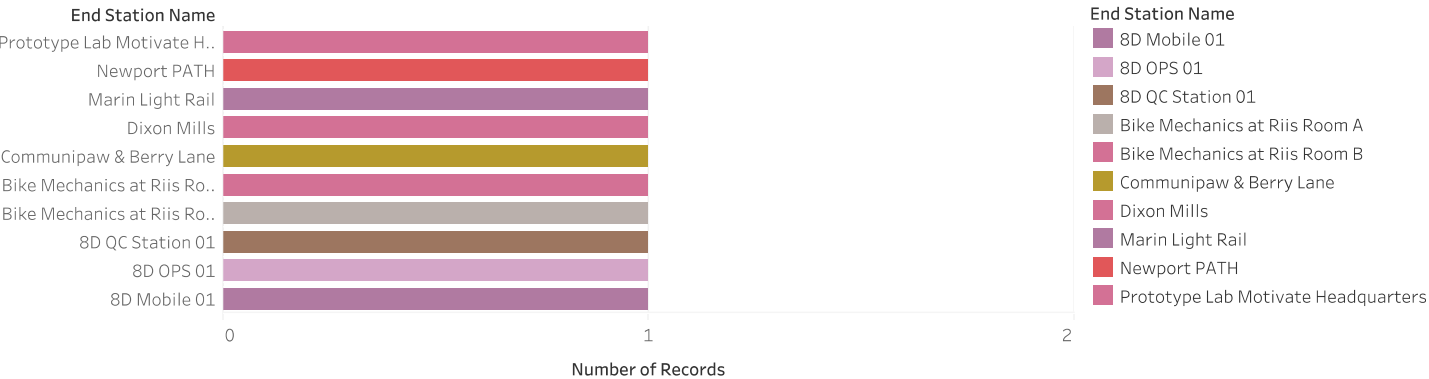
Bottom 10 Stations for Starting a Journey

These stations are located in less population area that required further travel ro access to transportation hubs.

Sum of Number of Records for each Start Station Name. Color shows details about Start Station Name. The view is filtered on Start Station Name, which keeps 10 of 798 members.

Bottom 10 Stations for Ending a Journey

These stations are located in less population area that required further travel ro access to transportation hubs.

End Station Name

End Station Name	
Prototype Lab Motivate H..	
Newport PATH	
Marin Light Rail	
Dixon Mills	
Communipaw & Berry Lane	
Bike Mechanics at Riis Ro..	
Bike Mechanics at Riis Ro..	
8D QC Station 01	
8D OPS 01	
8D Mobile 01	

0   1   2

Number of Records

End Station Name
- 8D Mobile 01
- 8D OPS 01
- 8D QC Station 01
- Bike Mechanics at Riis Room A
- Bike Mechanics at Riis Room B
- Communipaw & Berry Lane
- Dixon Mills
- Marin Light Rail
- Newport PATH
- Prototype Lab Motivate Headquarters

Sum of Number of Records for each End Station Name. Color shows details about End Station Name. The view is filtered on End Station Name, which keeps 10 of 861 members.
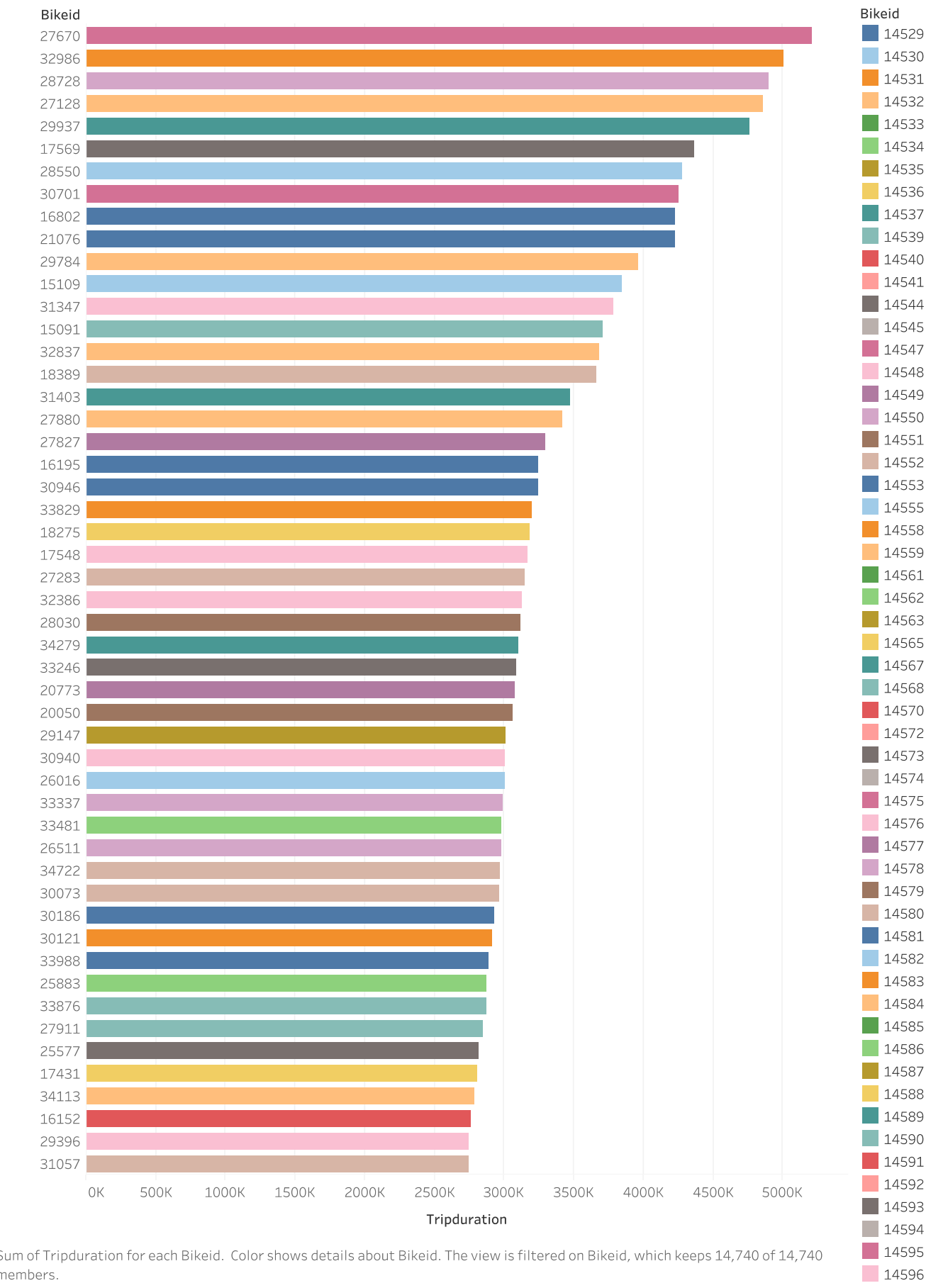
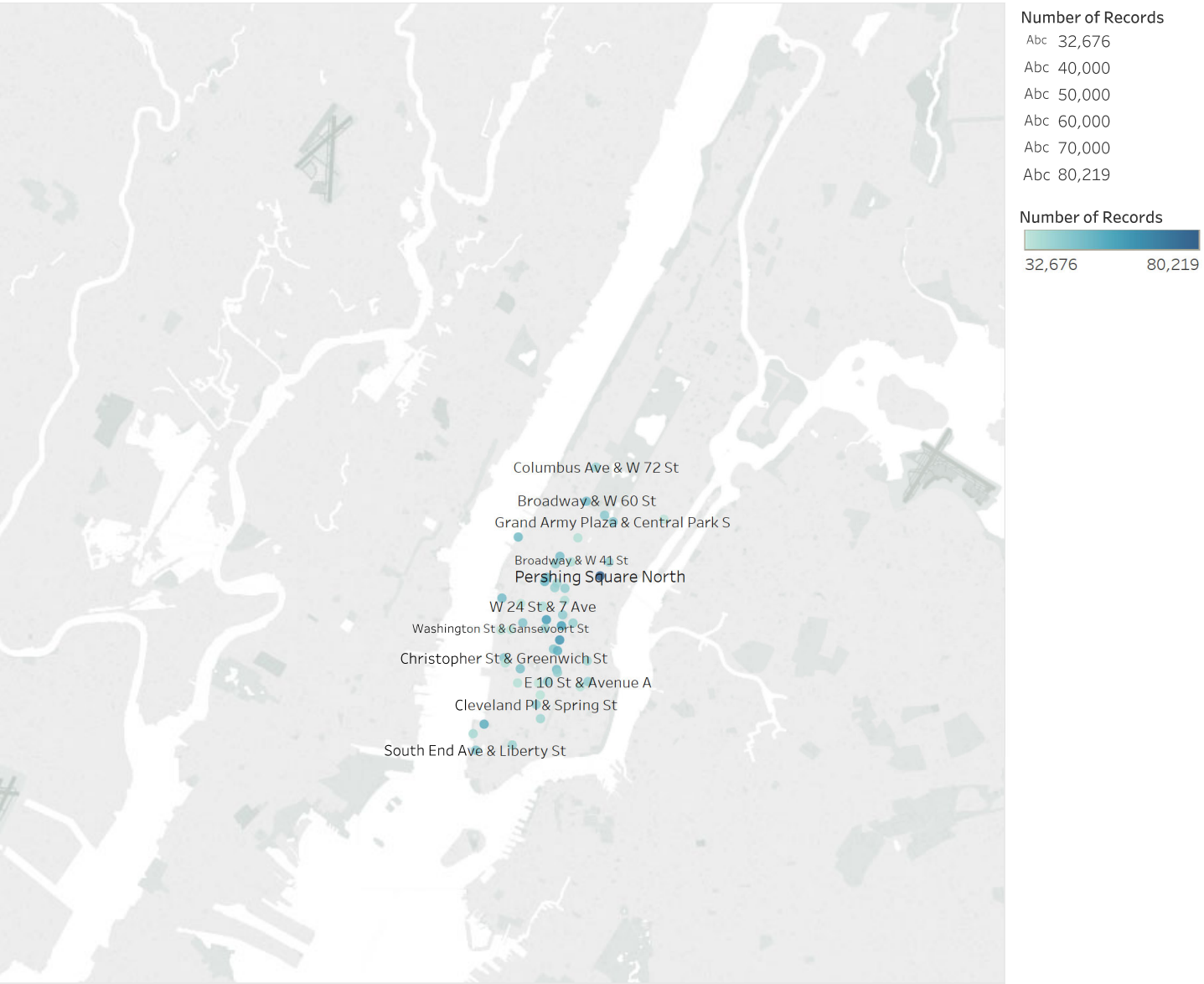# Average Trip Duration by Birth Year
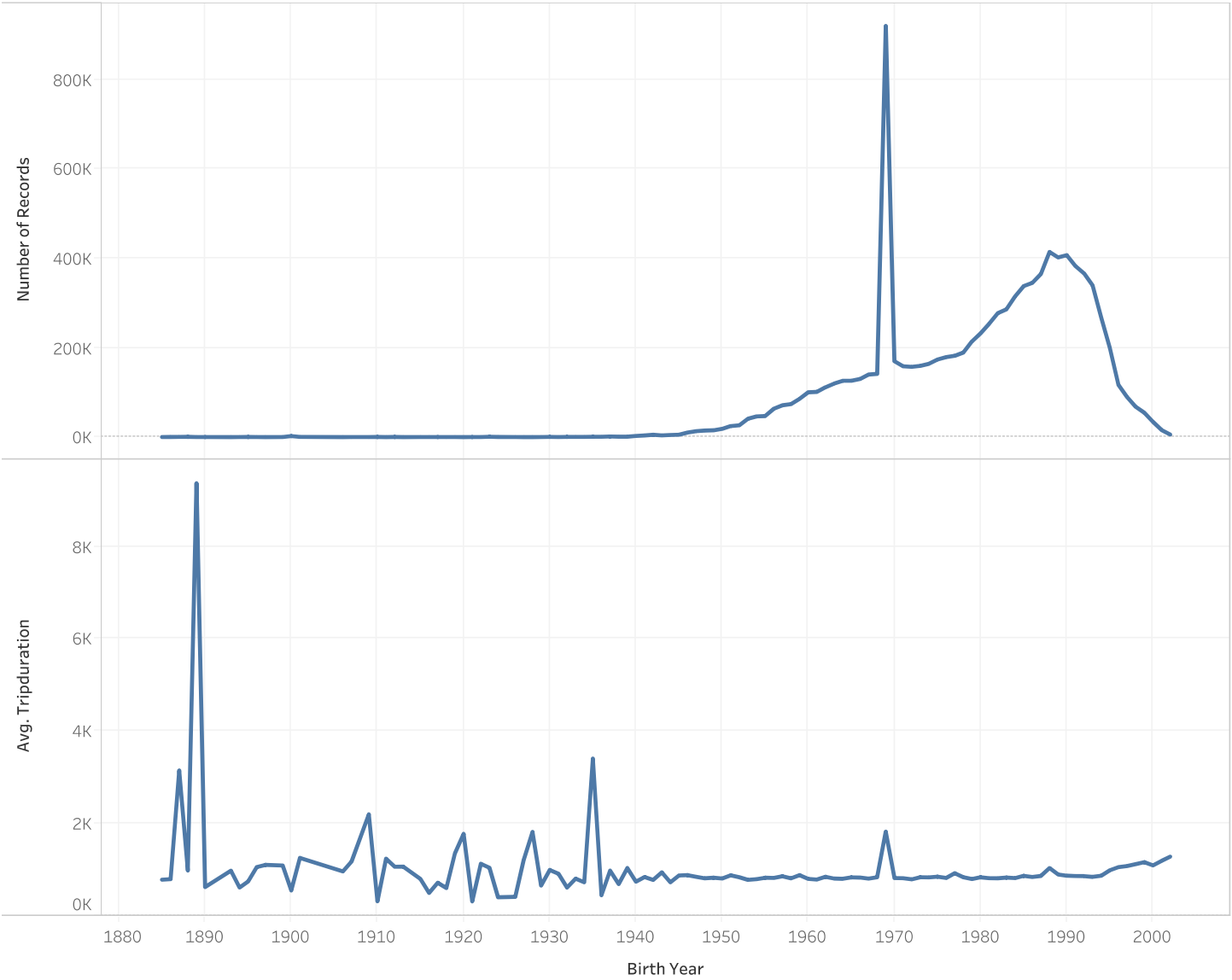
The trends of Number of Records and Avg. Tripduration for Birth Year. Details are shown for Number of Records and Avg. Tripduration.

Bike Due for Repair or Inspection

Bikes with higher usages are more likely to get involved in repair and inspection.


Sum of Tripduration for each Bikeid. Color shows details about Bikeid. The view is filtered on Bikeid, which keeps 14,740 of 14,740 members.

Top 50 Popular Station Locations for Starting a Journey

Columbus Ave & W 72 St
Broadway & W 60 St
Grand Army Plaza & Central Park S
Broadway & W 41 St
Pershing Square North
W 24 St & 7 Ave
Washington St & Gansevoort St
Christopher St & Greenwich St
E 10 St & Avenue A
Cleveland Pl & Spring St
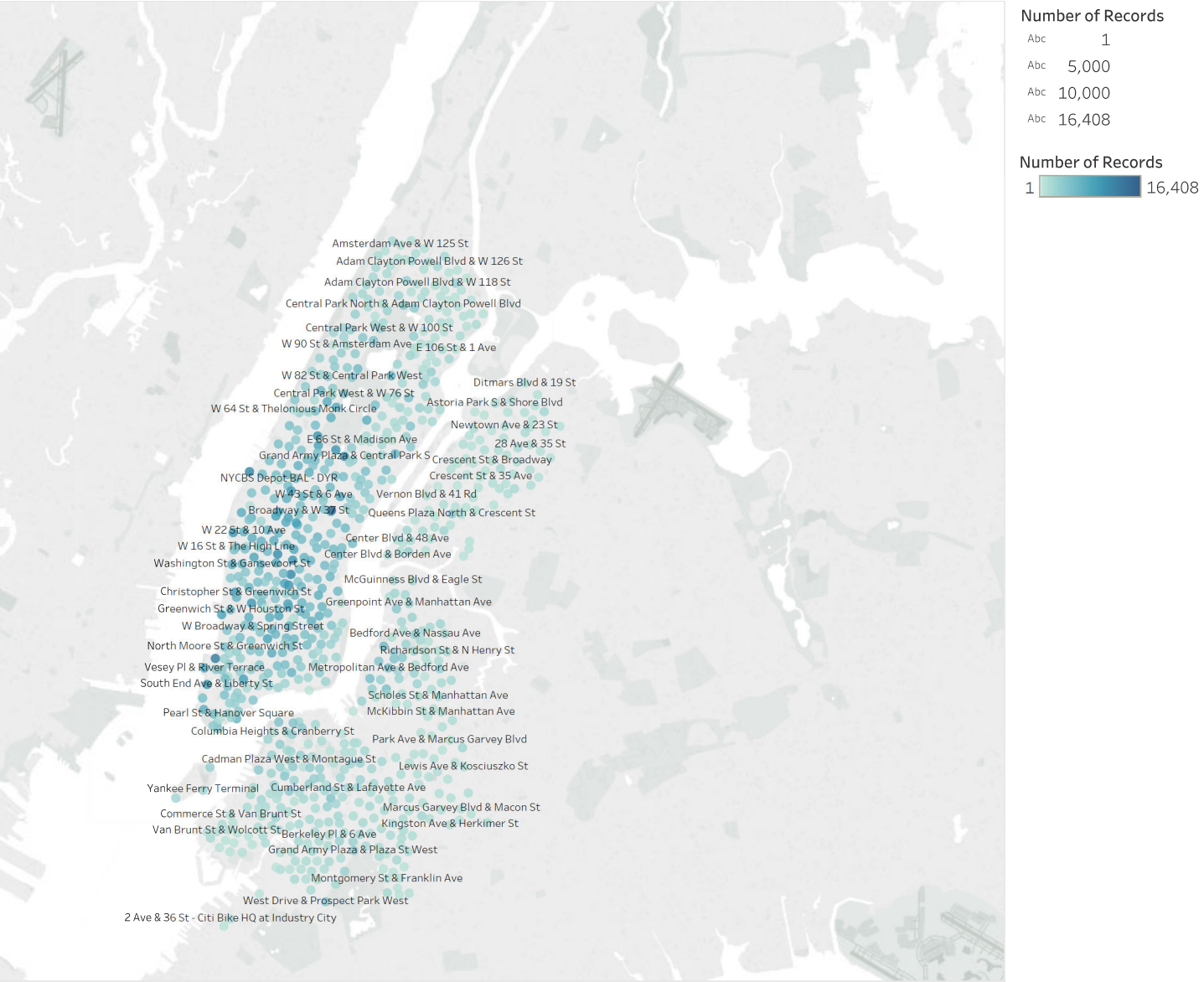South End Ave & Liberty St

Map based on average of Start Station Longitude and average of Start Station Latitude. Color shows sum of Number of Records. Size shows sum of Number of Records. The marks are labeled by Start Station Name. The view is filtered on sum of Number of Records and Start Station Name. The sum of Number of Records filter ranges from 1 to 80,219. The Start Station Name filter keeps 50 of 798 members.

# Top 50 Popular Station Locations for Ending a Journey
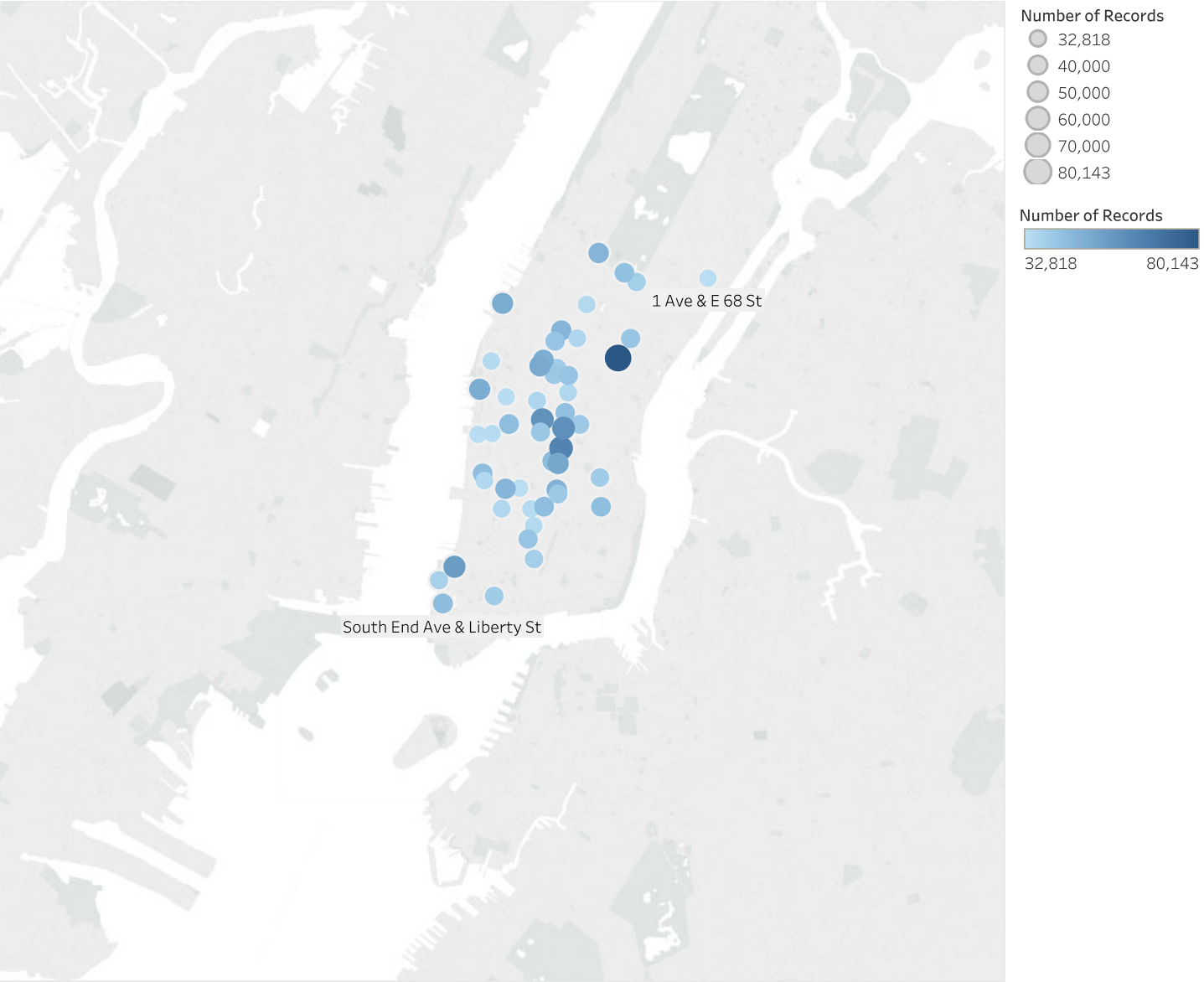
Map based on average of End Station Longitude and average of End Station Latitude. Color shows sum of Number of Records. Size shows sum of Number of Records. The marks are labeled by End Station Name. The data is filtered on Number of Records, which ranges from 1 to 1. The view is filtered on End Station Name, which keeps 50 of 861 members.

Overall Bike Uses Map in Second Half 2018 - Filter by Month

Number of Records

Abc   1
Abc   5,000
Abc   10,000
Abc   16,408

Number of Records

1 ▢ 16,408

Amsterdam Ave & W 125 St
Adam Clayton Powell Blvd & W 126 St
Adam Clayton Powell Blvd & W 118 St
Central Park North & Adam Clayton Powell Blvd
Central Park West & W 100 St
W 90 St & Amsterdam Ave   E 106 St & 1 Ave
W 82 St & Central Park West
Central Park West & W 76 St   Ditmars Blvd & 19 St
W 64 St & Thelonious Monk Circle   Astoria Park S & Shore Blvd
Newtown Ave & 23 St
E 66 St & Madison Ave   28 Ave & 35 St
Grand Army Plaza & Central Park S   Crescent St & Broadway
NYCBS Depot BAL - DYR   Crescent St & 35 Ave
W 43 St & 6 Ave   Vernon Blvd & 41 Rd
Broadway & W 37 St   Queens Plaza North & Crescent St
W 22 St & 10 Ave   Center Blvd & 48 Ave
W 16 St & The High Line   Center Blvd & Borden Ave
Washington St & Gansevoort St
McGuinness Blvd & Eagle St
Christopher St & Greenwich St
Greenwich St & W Houston St   Greenpoint Ave & Manhattan Ave
W Broadway & Spring Street
North Moore St & Greenwich St   Bedford Ave & Nassau Ave
Richardson St & N Henry St
Vesey Pl & River Terrace   Metropolitan Ave & Bedford Ave
South End Ave & Liberty St
Scholes St & Manhattan Ave
Pearl St & Hanover Square   McKibbin St & Manhattan Ave
Columbia Heights & Cranberry St
Park Ave & Marcus Garvey Blvd
Cadman Plaza West & Montague St
Lewis Ave & Kosciuszko St
Yankee Ferry Terminal   Cumberland St & Lafayette Ave
Marcus Garvey Blvd & Macon St
Commerce St & Van Brunt St   Kingston Ave & Herkimer St
Van Brunt St & Wolcott St   Berkeley Pl & 6 Ave
Grand Army Plaza & Plaza St West
Montgomery St & Franklin Ave
West Drive & Prospect Park West
2 Ave & 36 St - Citi Bike HQ at Industry City

Map based on average of Start Station Longitude and average of Start Station Latitude. Color shows sum of Number of Records. Size shows sum of Number of Records. The marks are labeled by Start Station Name. The view is filtered on sum of Number of Records, which ranges from 1 to 16,408.
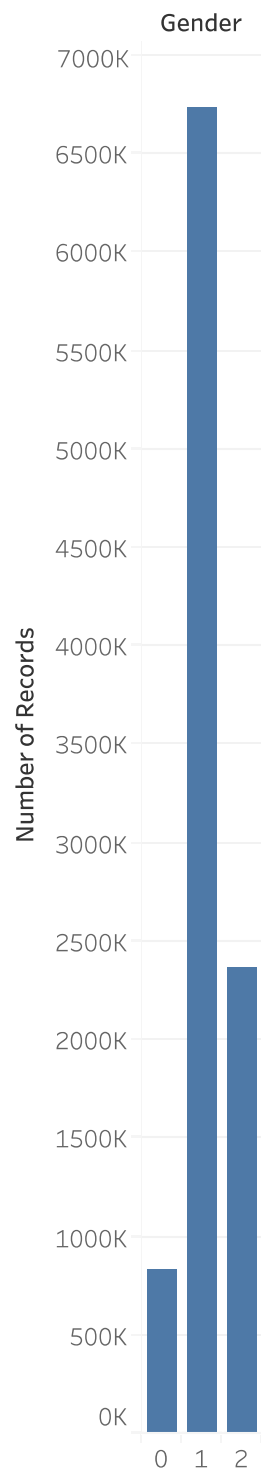
Citi Bike Trips by days

Weekday of..

Year of Starttime
■ 2018
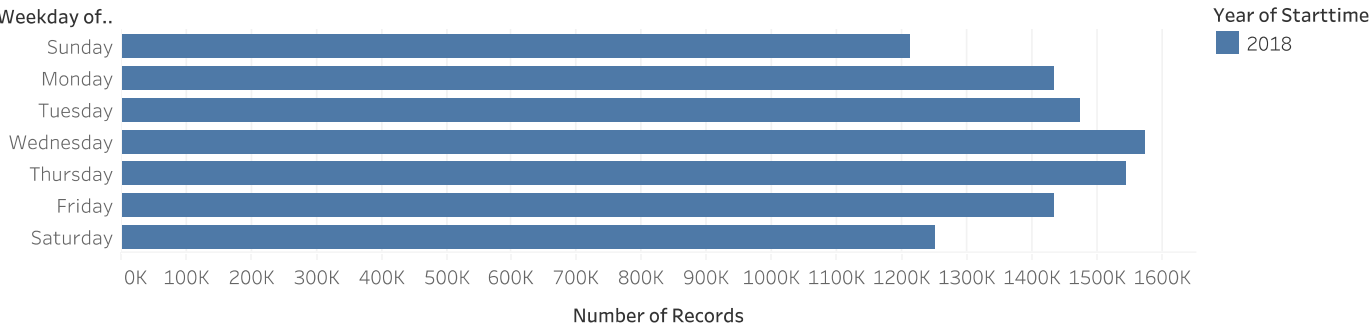
Sum of Number of Records for each Starttime Weekday. Color shows details about Starttime Year.

Citi Bike Trips
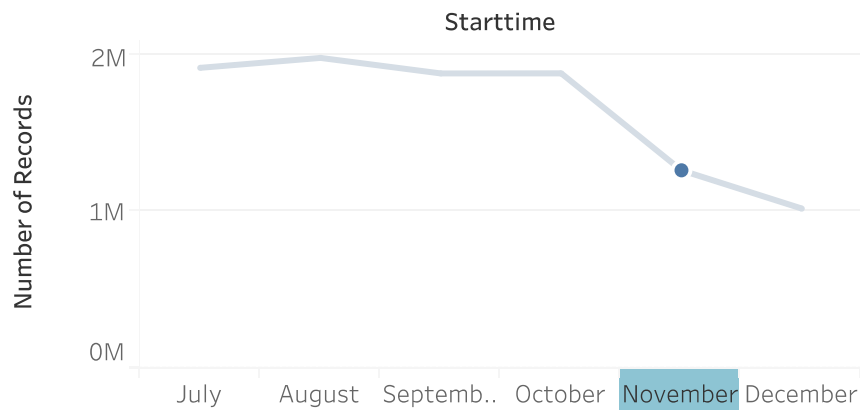# by Gender
0 = unknown
1 = male
2 = female

Gender

Number of Records

7000K

6500K

6000K

5500K

5000K

4500K

4000K

3500K

3000K

2500K

2000K

1500K

1000K

500K

0K

0   1   2

Sum of Number of
Records for each
Gender.

NYC Citi Bike Trips by Time (July - Dec 2018)

Total Trips and Trend of NYC Citi Bike in the Second Half 2018
Users dramatically dropped at winnter time because people tends to travel indoor during cold weather time.

Starttime

Citi Bike Trips by days

Weekday of..

Peak Hours in Second Half 2018
Peak Hours are usually happened in commuting time.

Starttime

The system data showed that the usage of Citi Bike were affect by the weather, work days and commute hour. We can see that there are dramatically fewer Citi Bike rides during the cold winter months. And if we look at trips by days and hour, we can see that weekday riders are much more than weekend riders and the peak hours are from 8-9AM and 5-7 PM which are the popular time period for people commute to and from work.
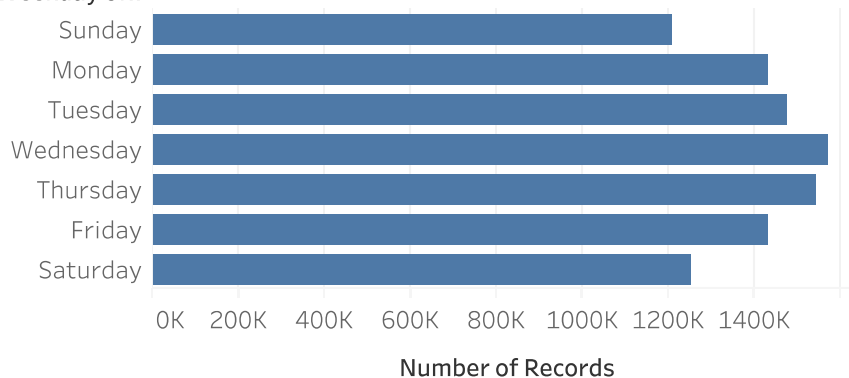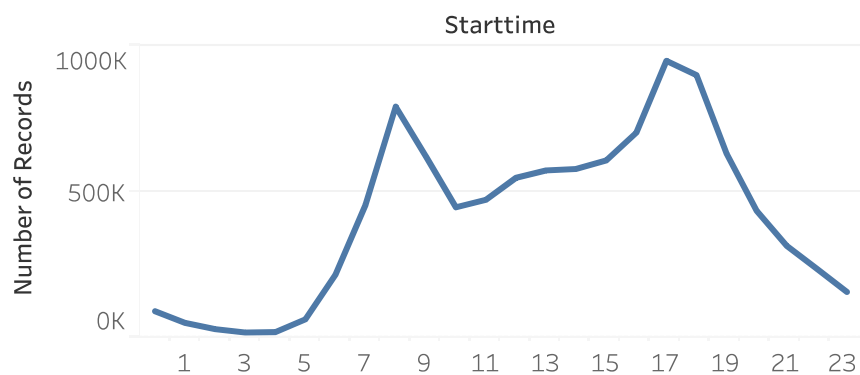
Citi Bike Trips by User Type, Gender and Age (June - Dec 2018)

Total Trips by User Types

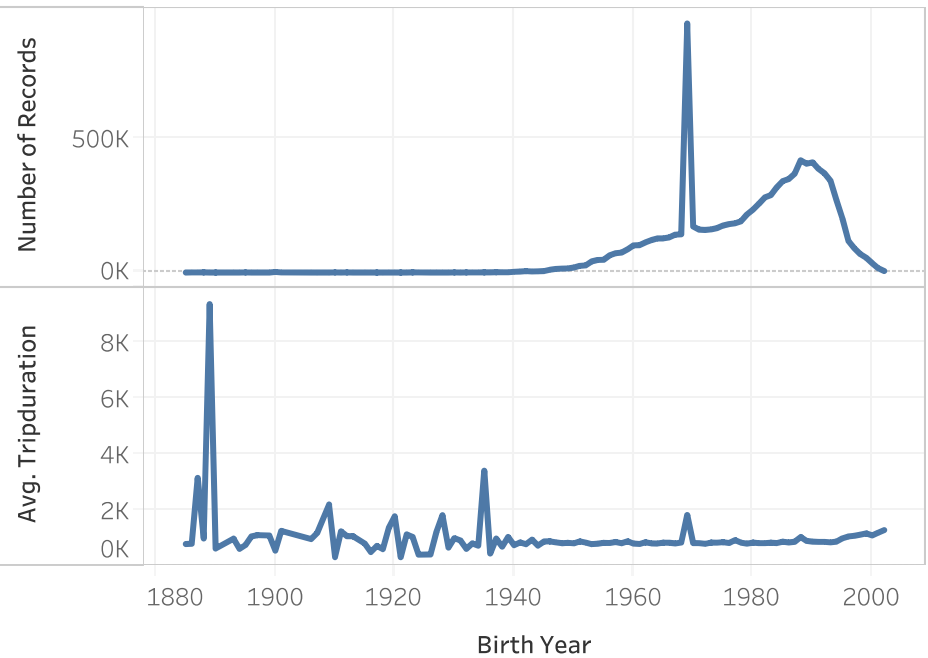subscribers are tends to continous travel with a bike because of habit.

Usertype / Starttime

Gender

Average Trip Duration by Birth Year

The system data showed that most of the riders were annual subscriber since they have paid the whole year usages. It's obvious that male riders were way more than female riders and their ages were around 40-50 years old. It can be explained that women have different travel behavior than men because they concert about safety, comfort and accessibility. And the reason why middle age men like cycling more than women because cycling will not take away energy so quickly as the sports they grew up playing.