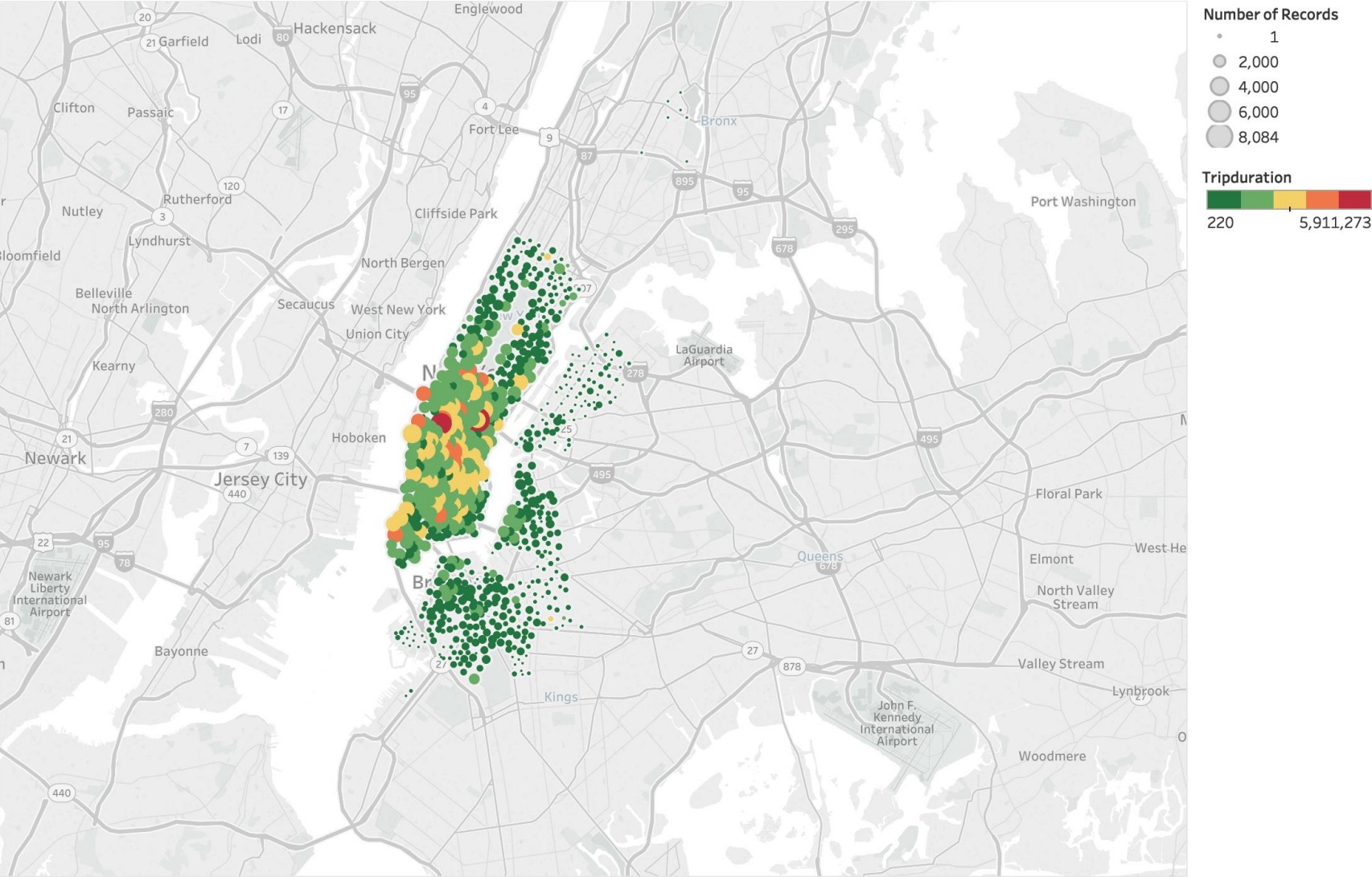# NYC Citi Bike (February 2019)

Vineeth Gattu

Data Analyses using Tableau
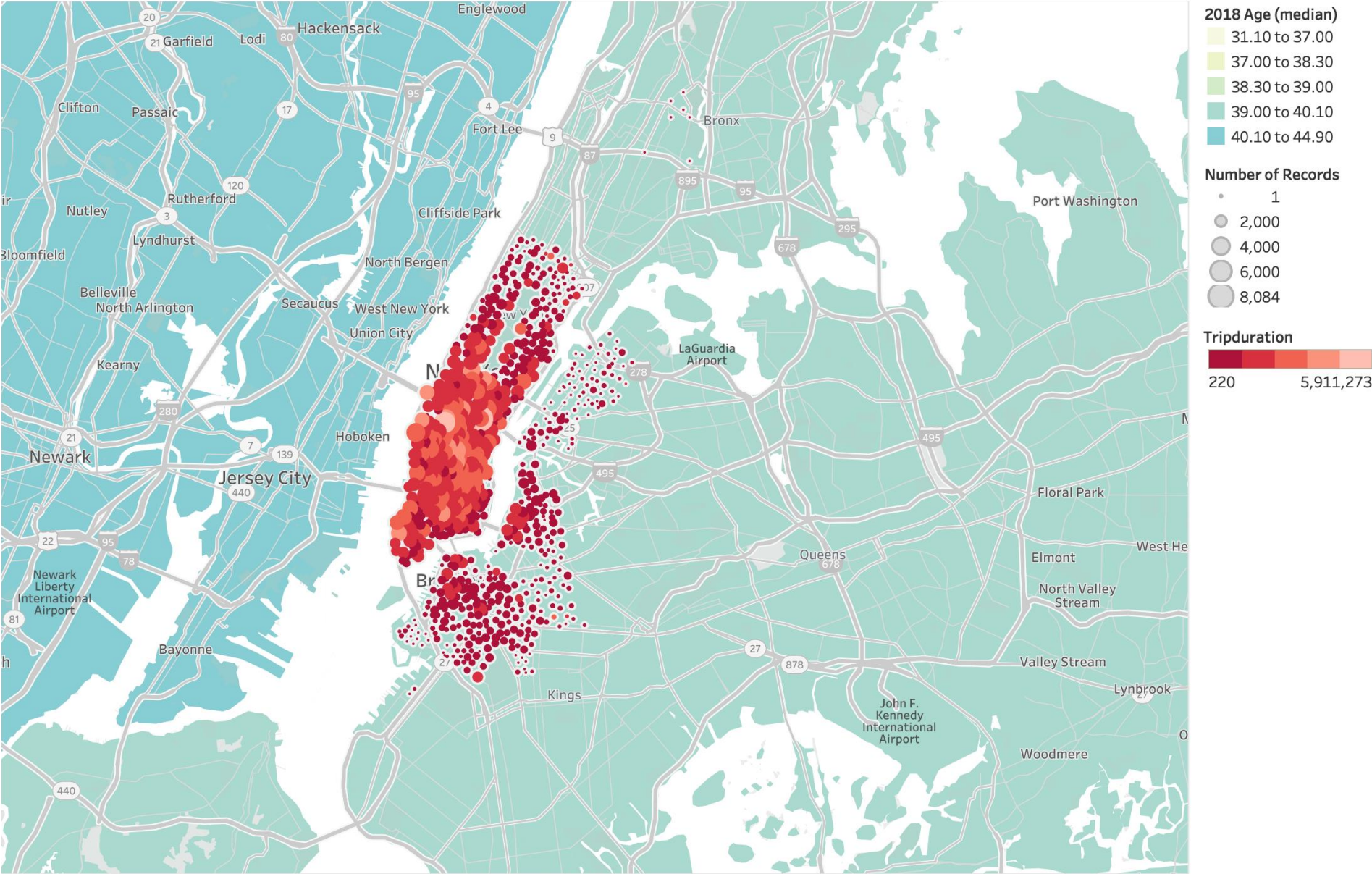
Total Trip duration by starting bike station

Map based on Start Station Longitude and Start Station Latitude. Color shows sum of Tripduration. Size shows sum of Number of Records.
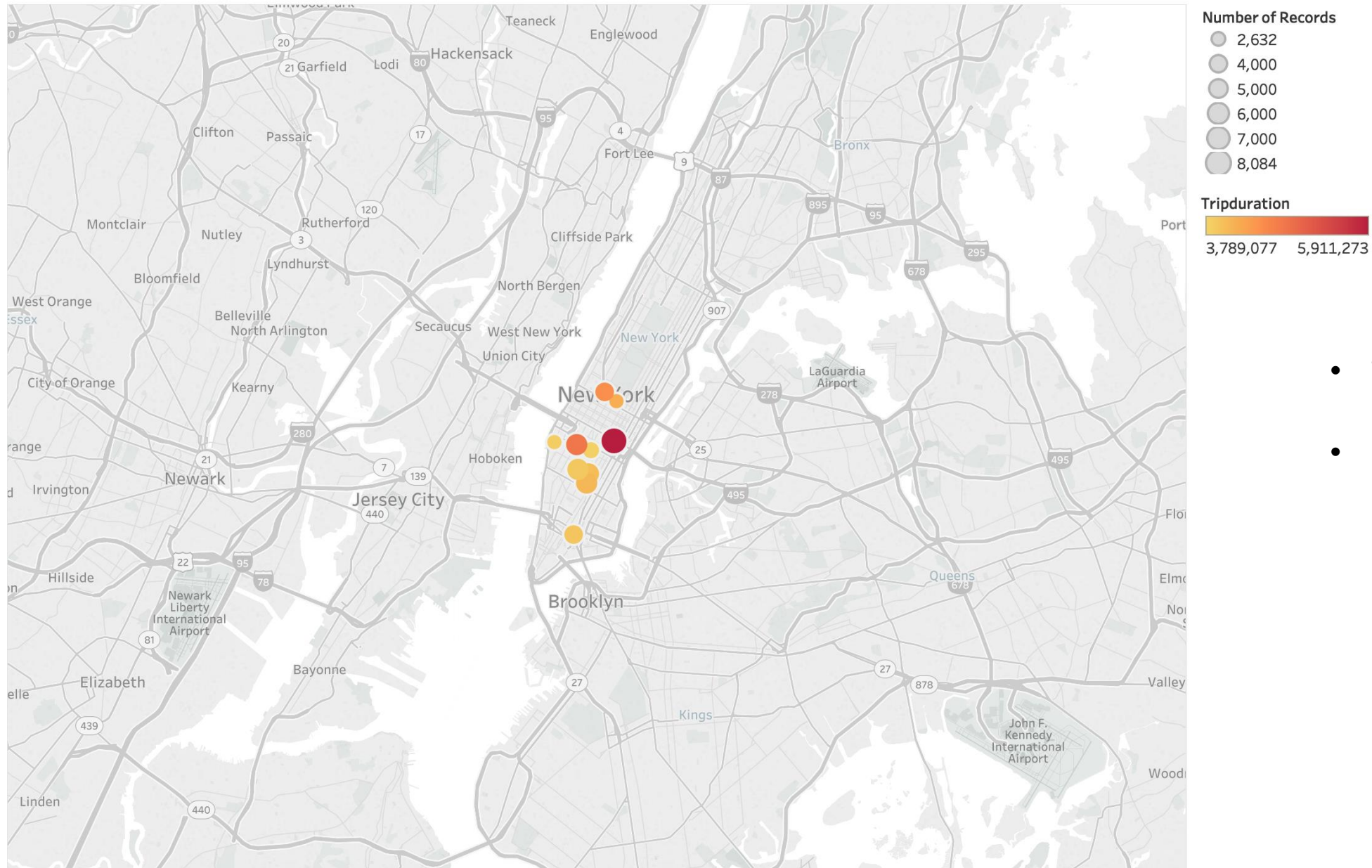
Number of Records
- 1
- 2,000
- 4,000
- 6,000
- 8,084

Tripduration

220 — 5,911,273

- The chart shows the sum of total trip duration by starting bike station

Median Age of people riding bikes in NYC!

2018 Age (median)

	31.10 to 37.00
	37.00 to 38.30
	38.30 to 39.00
	39.00 to 40.10
	40.10 to 44.90

Number of Records

- 1
- 2,000
- 4,000
- 6,000
- 8,084

Tripduration

220   5,911,273

- Median age of people living in NYC bike is 38 to 39.

Map based on Start Station Longitude and Start Station Latitude. Color shows sum of Tripduration. Size shows sum of Number of Records. Map coloring shows 2018

Top 10 busy bike stations in New York City by Starting Station

Number of Records
- 2,632
- 4,000
- 5,000
- 6,000
- 7,000
- 8,084

Tripduration

3,789,077   5,911,273

- The busiest starting bike stations are in Manhattan.
- Bikes could be used for many reasons such as for exercise, travel between work and home.

Map based on Start Station Longitude and Start Station Latitude. Color shows sum of Tripduration. Size shows sum of Number of Records. The view is filtered on sum of Tripduration, which ranges from 3,769,194 to 5,911,273.

Bottom 10 busy bike stations in New York City by Starting Station

Number of Records
- 1
- 2
- 3
- 4
- 5

Tripduration

220   6,217
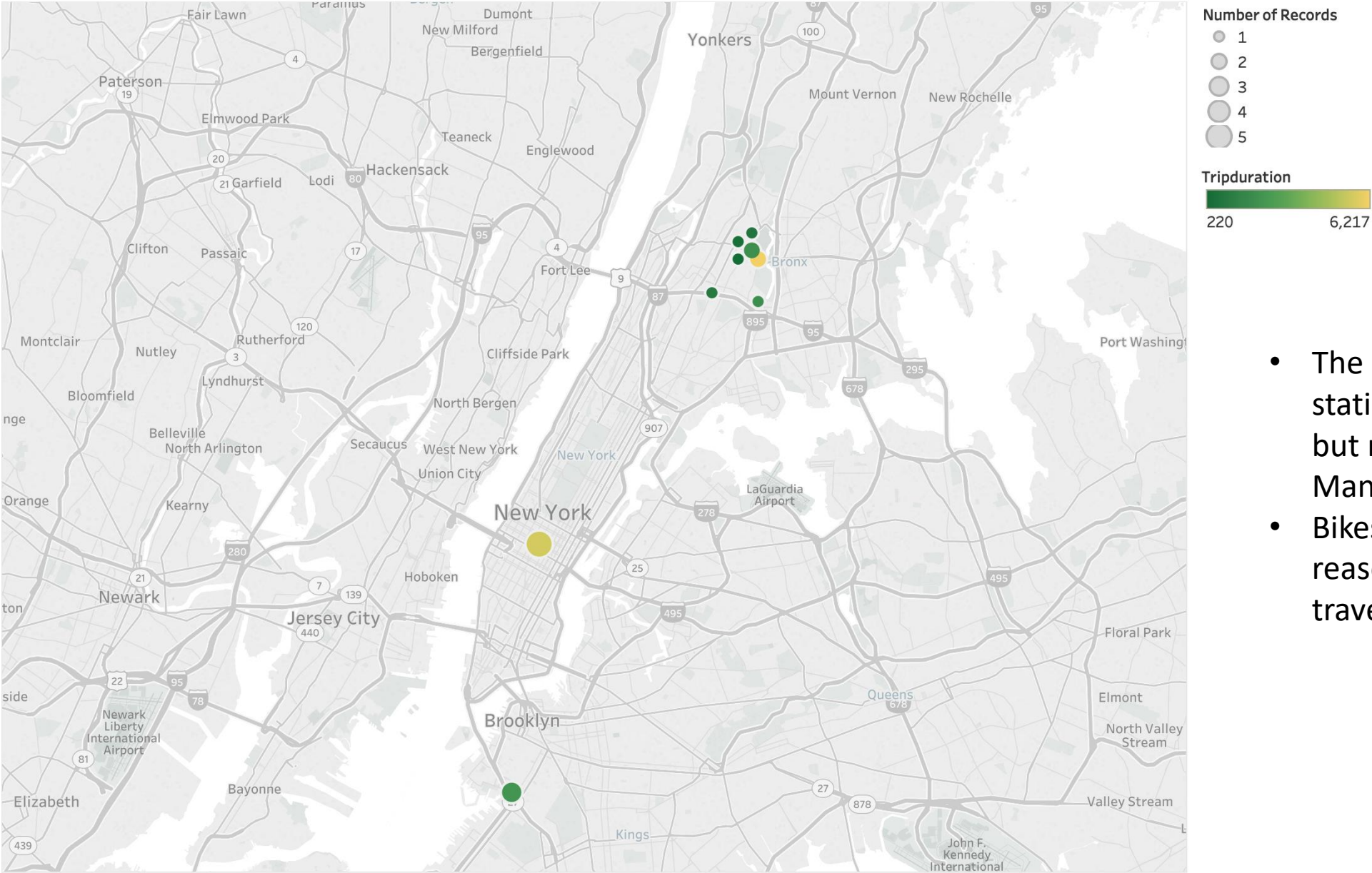
- The least busiest starting bike stations are in scattered in NYC but most them are outside Manhattan near Bronx.
- Bikes could be used for many reasons such as for exercise, travel between work and home.

Map based on Start Station Longitude and Start Station Latitude. Color shows sum of Tripduration. Size shows sum of Number of Records. The view is filtered on sum of Tripduration, which ranges from 220 to 13,777.
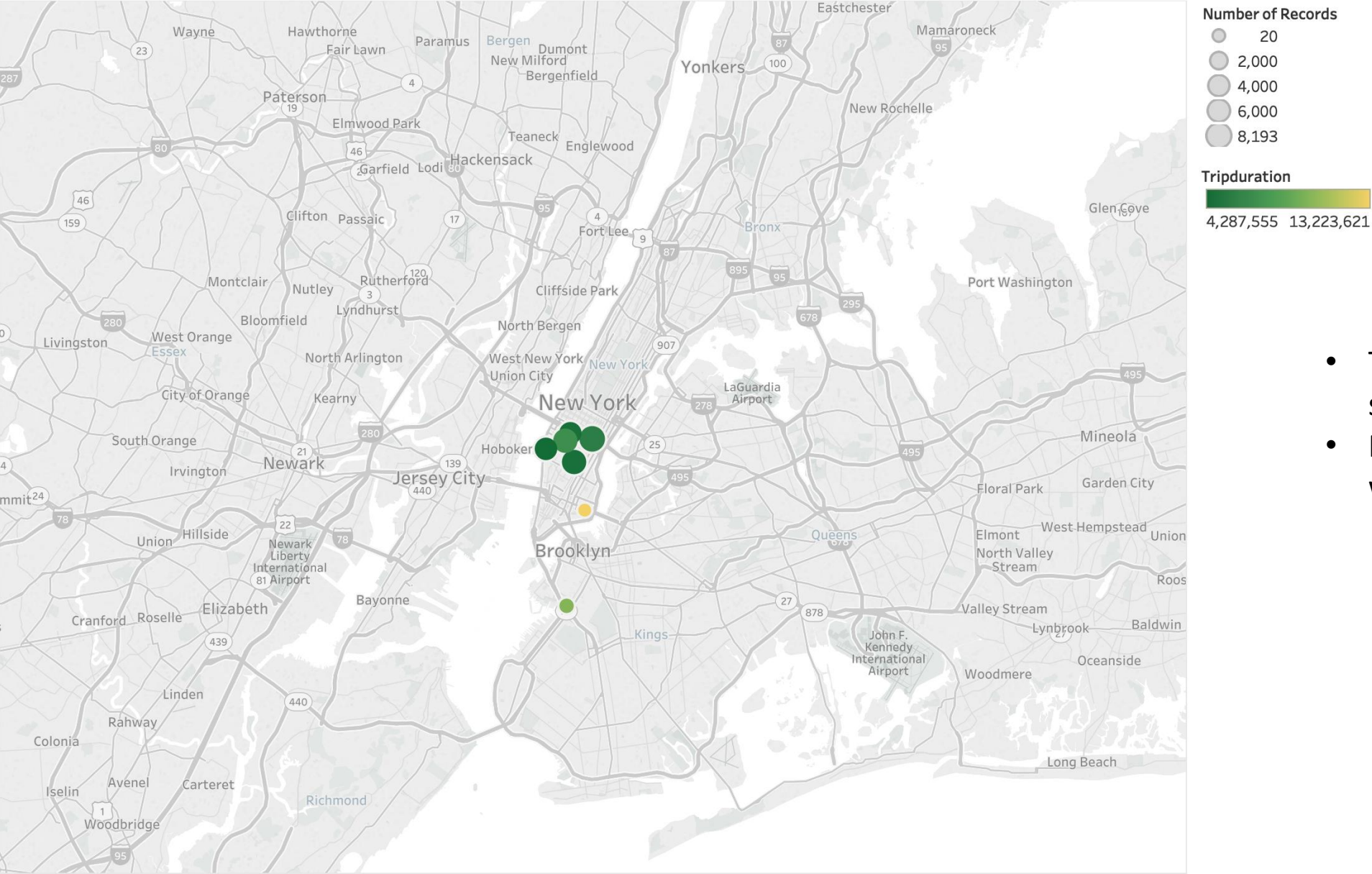
Total Trip Duration based on Ending Bike Stations

Number of Records

- 1
- 2,000
- 4,000
- 6,000
- 8,193

Tripduration

142   13,223,621
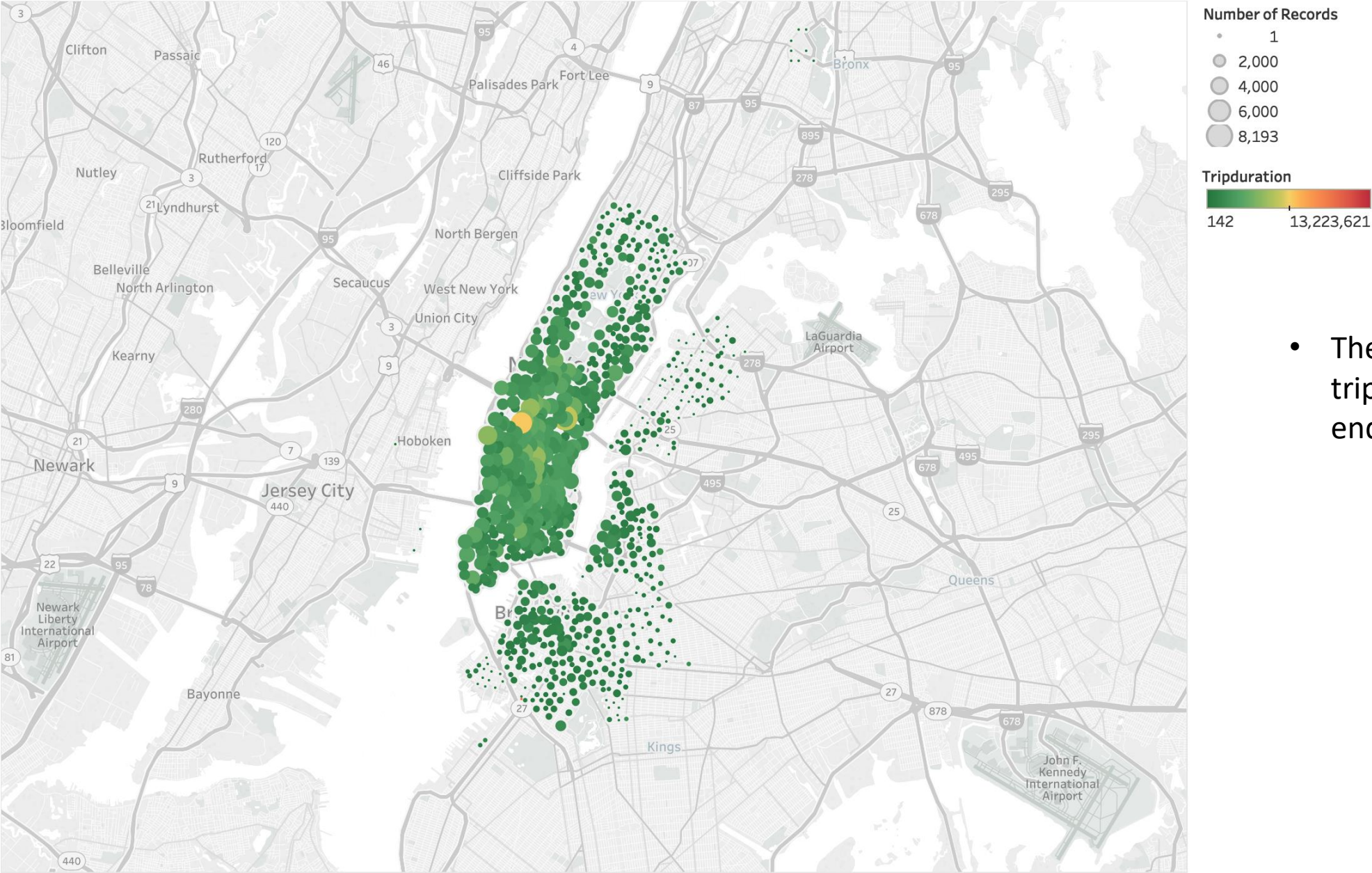
- The map shows sum of trip duration based on the ending bike stations.

Map based on End Station Longitude and End Station Latitude. Color shows sum of Tripduration. Size shows sum of Number of Records.

Top bike trip ending stations based on Trip Duration!

Number of Records
- 20
- 2,000
- 4,000
- 6,000
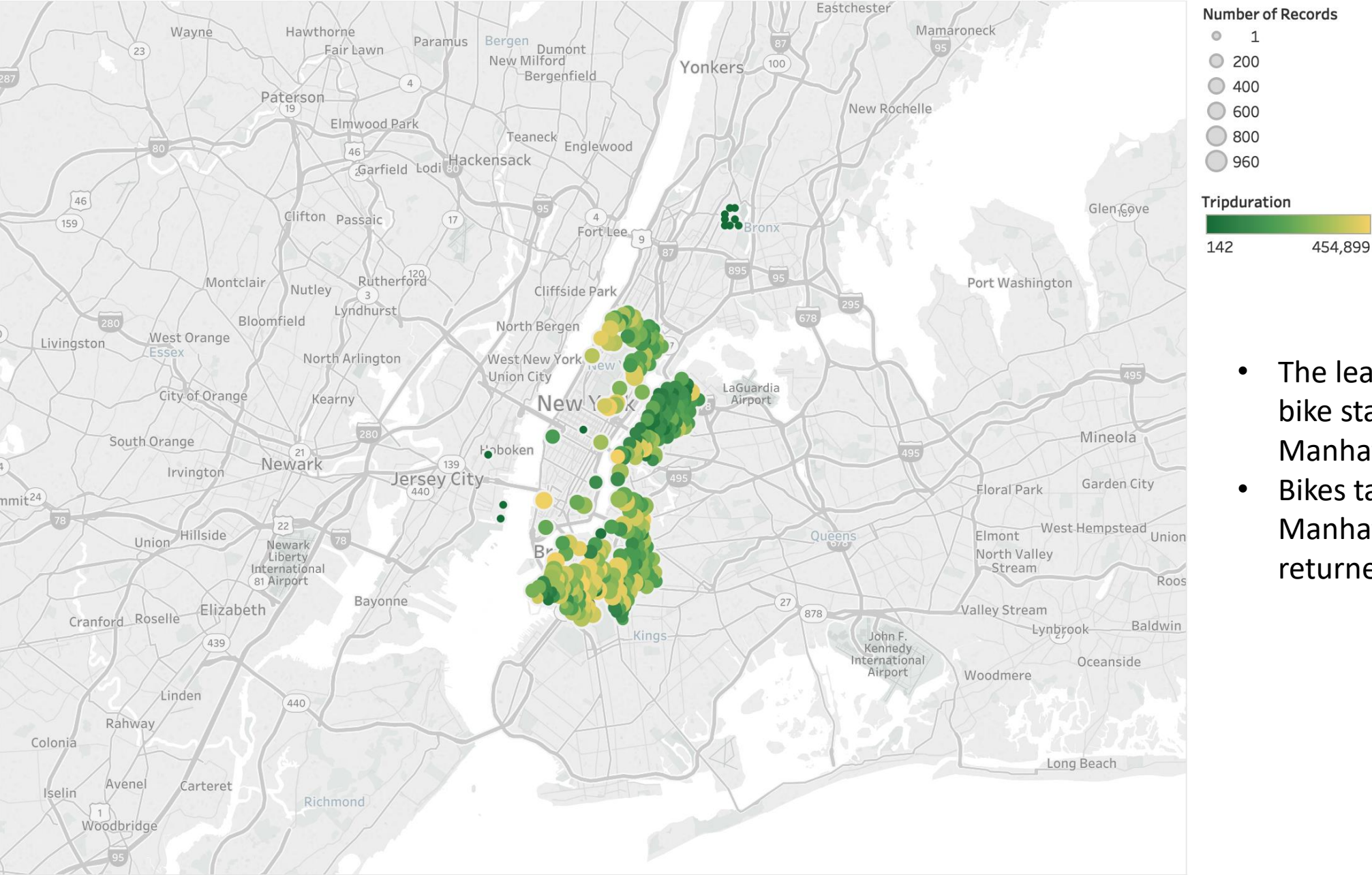- 8,193

Tripduration

4,287,555   13,223,621

- The busiest ending bike stations are in Manhattan.
- People use bikes to travel within Manhattan.

Map based on End Station Longitude and End Station Latitude. Color shows sum of Tripduration. Size shows sum of Number of Records. The view is filtered on sum of Tripduration, which ranges from 4,185,555 to 13,223,621.

Bottom bike trip ending stations based on Trip Duration

Number of Records
- 1
- 200
- 400
- 600
- 800
- 960

Tripduration

142   454,899

- The least busiest ending bike stations are not in Manhattan.
- Bikes taken out of Manhattan are being returned in Manhattan!!

Map based on End Station Longitude and End Station Latitude. Color shows sum of Tripduration. Size shows sum of Number of Records. The view is filtered on sum of Tripduration, which ranges from 142 to 455,078.
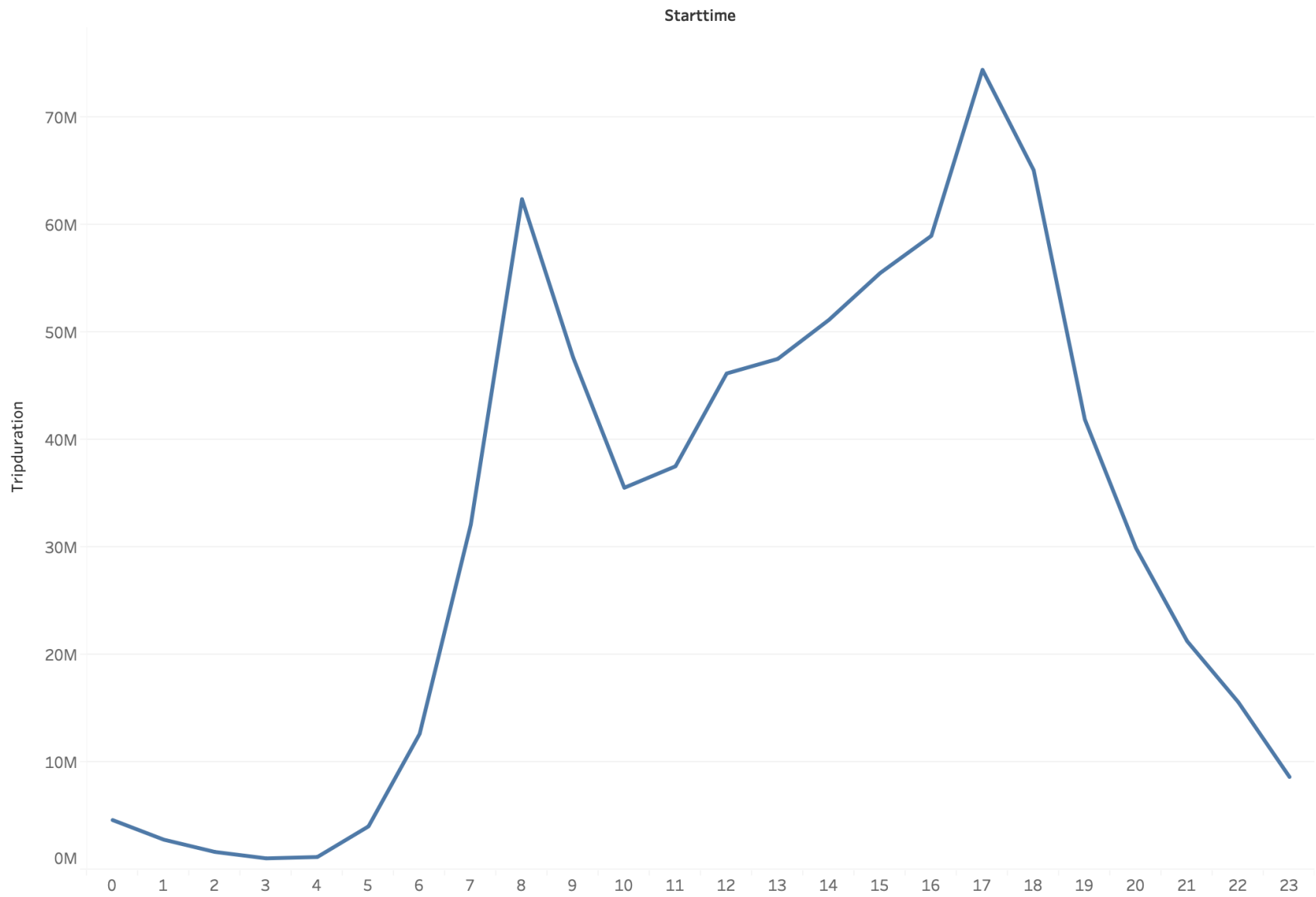
Average Trip Duration by Birth Year in February 2019
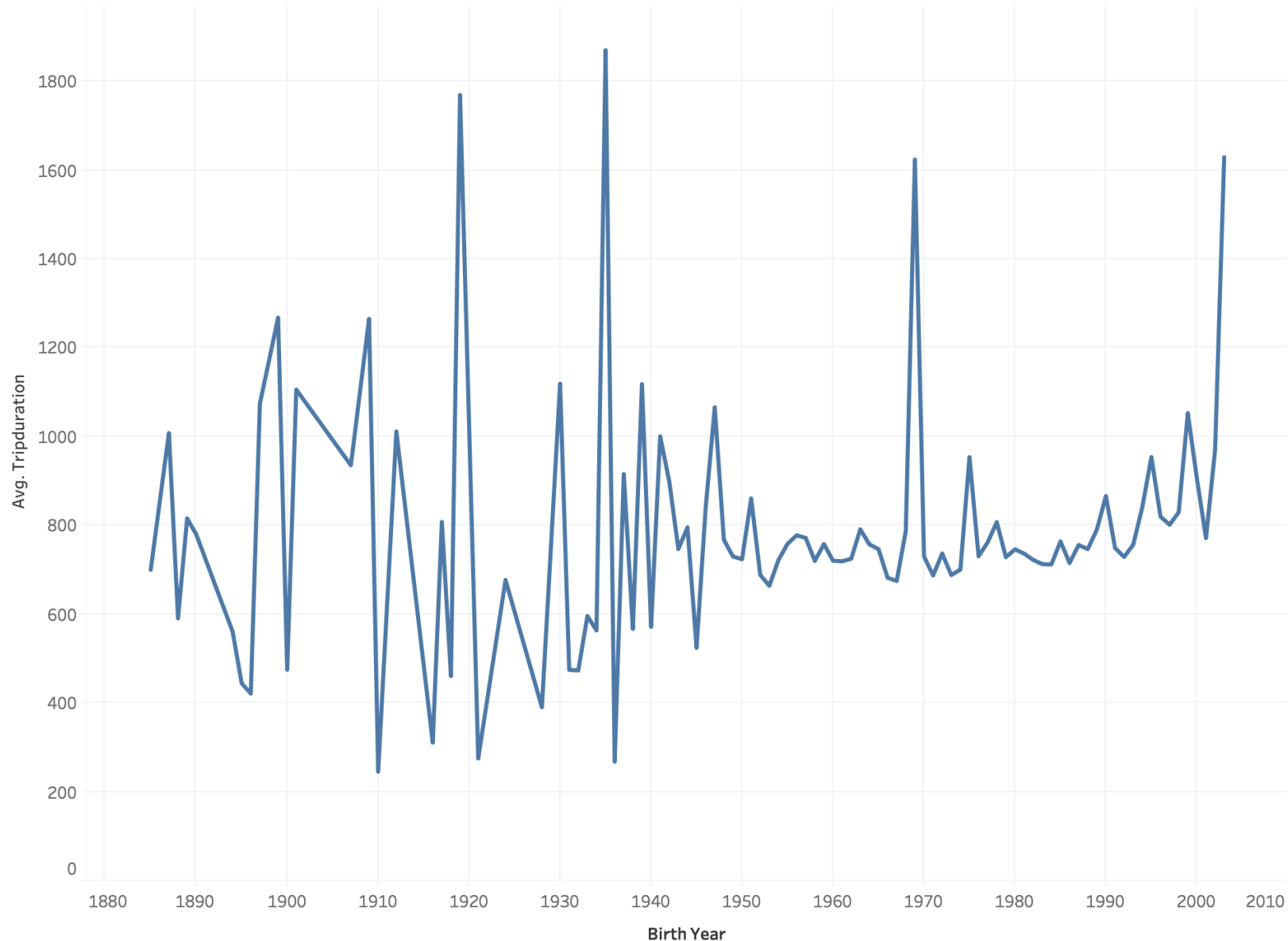
- The average trip duration for people born in 1920, 1935, 1970, and after 2000 is high.
- From page 3 the map indicates that median age of people living NYC biking area is 39.
- However, it is not clear why average trip duration is less for people born between 1970 and 2000.

The trend of average of Tripduration for Birth Year. The view is filtered on Birth Year, which ranges from 1885 to 2003 and keeps Null values.
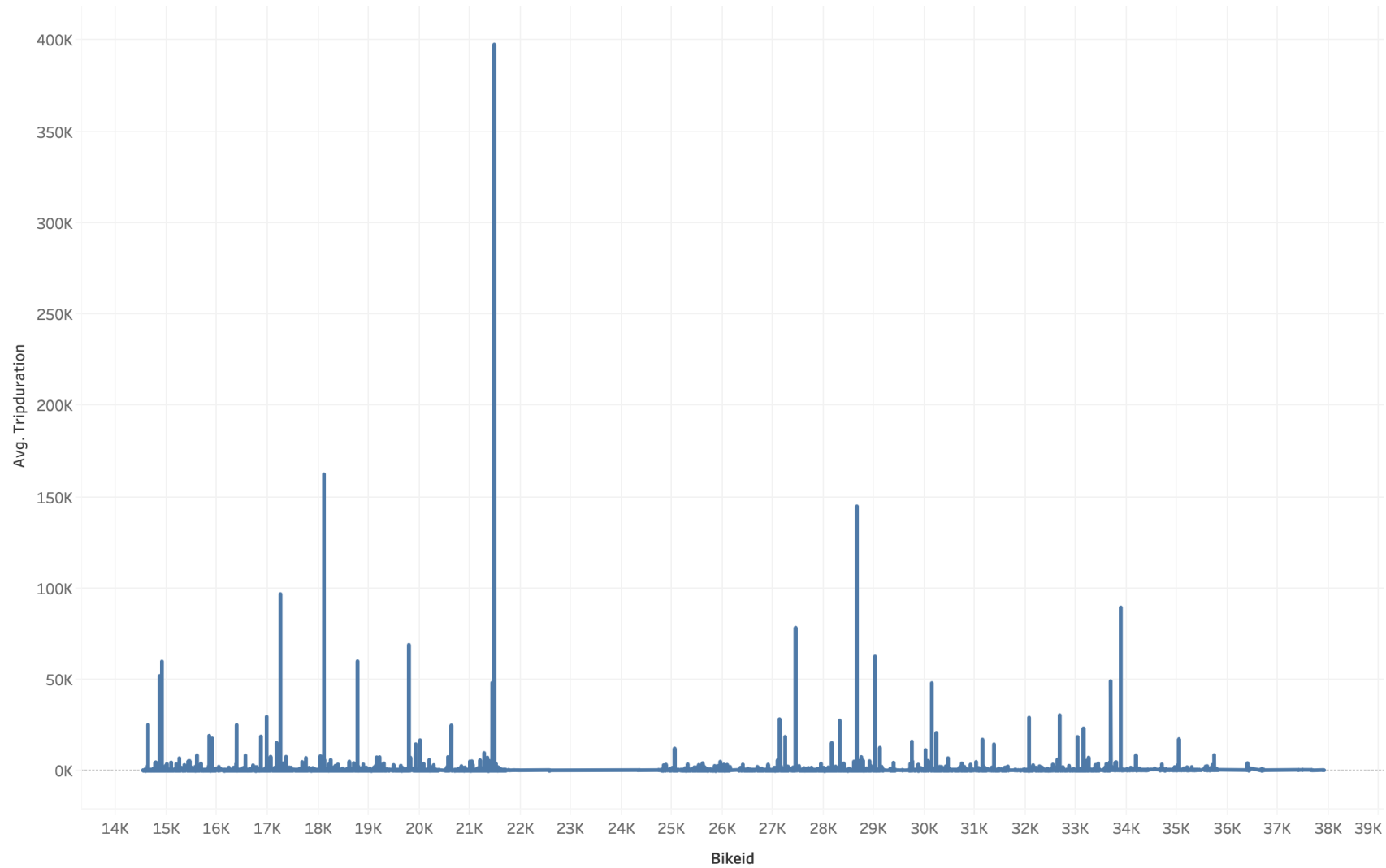
Trip Duration by Hour in February 2019

The trend of sum of Tripduration for Starttime Hour.

- The busiest times to ride a bike in NYC are 7-9 am and 4 – 7pm.
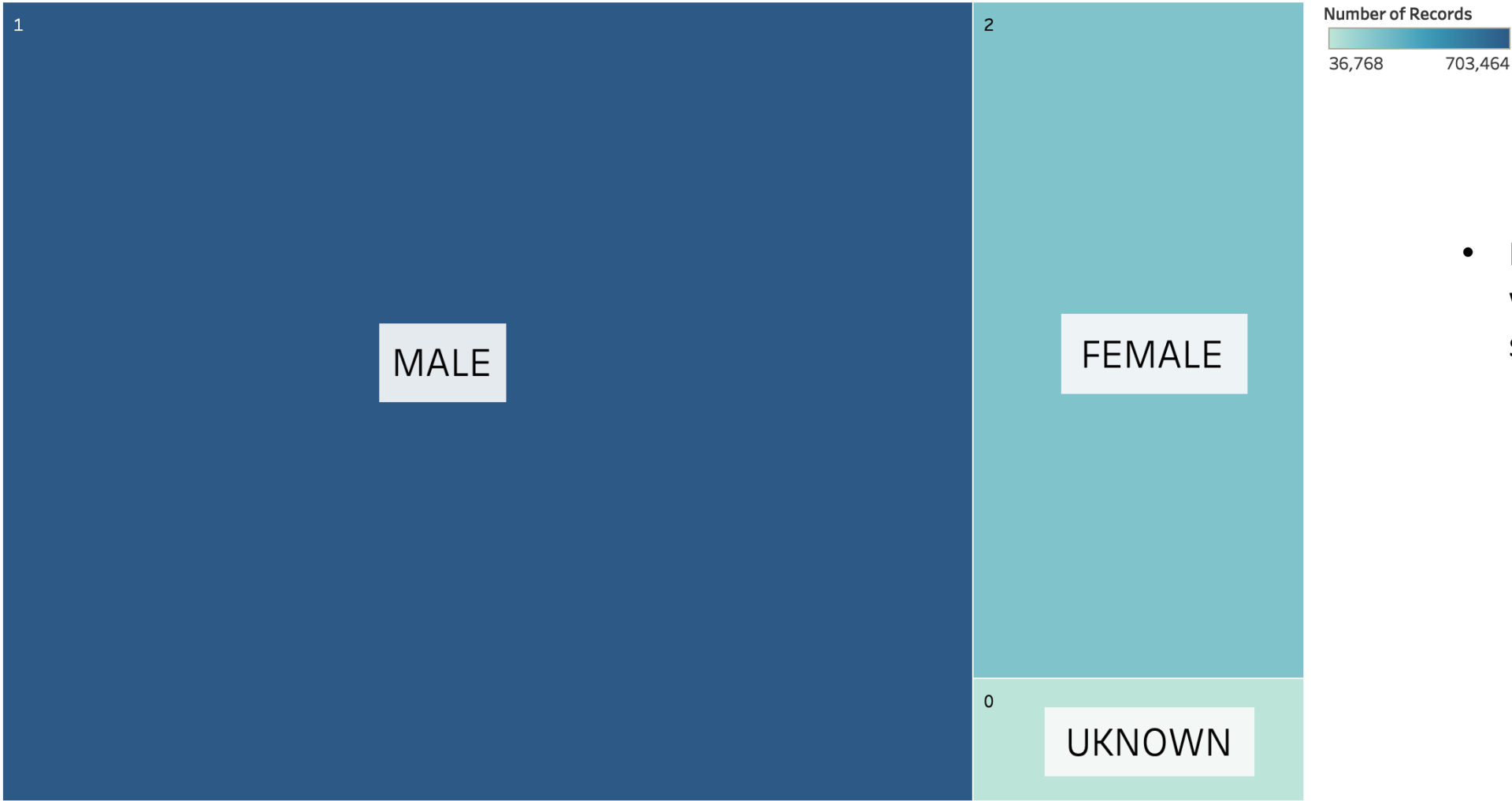- These times are similar to work time.

Trip Duration by Bike ID

The trend of average of Tripduration for Bikeid.

- Trip duration by bike ID can be used to determine bikes that need repair.

Gender based Usage

1

MALE

2

FEMALE

0

UKNOWN

Number of Records

36,768   703,464

- Men use bikes more than women in NYC by a significant amount!

Gender. Color shows sum of Number of Records. Size shows sum of Number of Records. The marks are labeled by Gender.