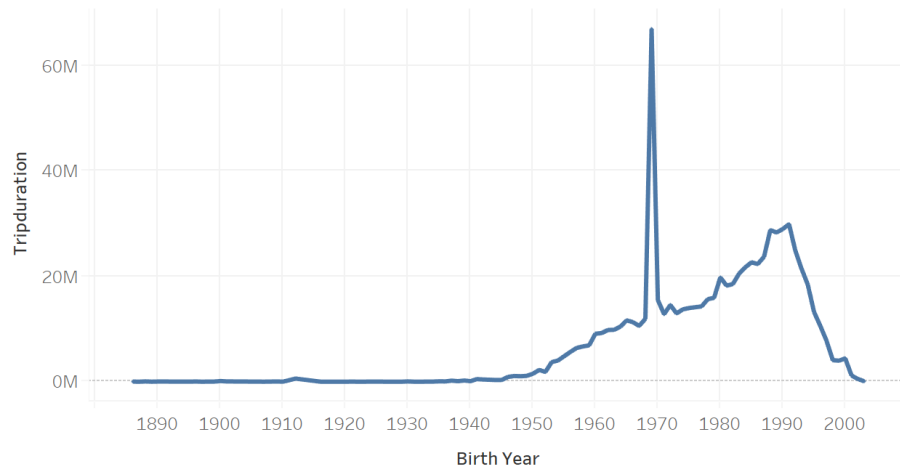


CitiBike HW Challenge Analysis:

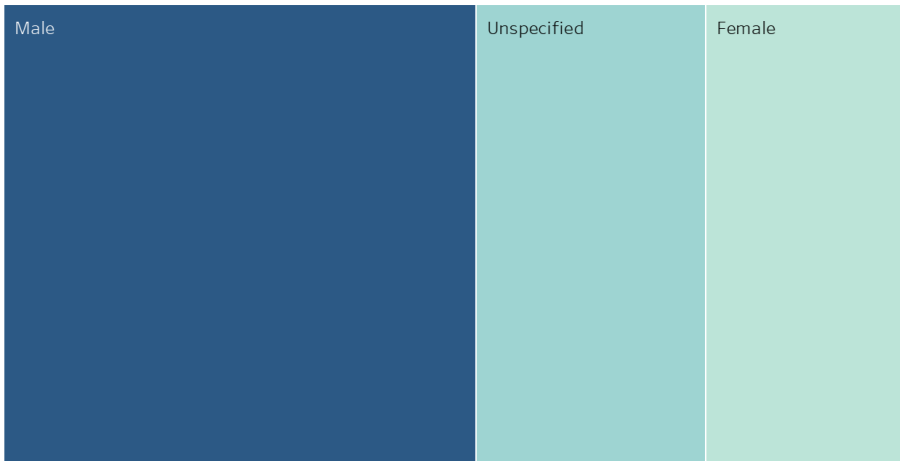
Phenomenon 1 - How does gender affect trip duration times and also do ages of riders play a role in trip duration?

Upon initial analysis, we found male riders accounted for the majority of trip duration time (almost 3x more than female and 2x more than unspecified). The age demographic of riders from 25-50 accounted for the majority of trip time (over 50% during the time span analyzed).

Age vs Ride Times



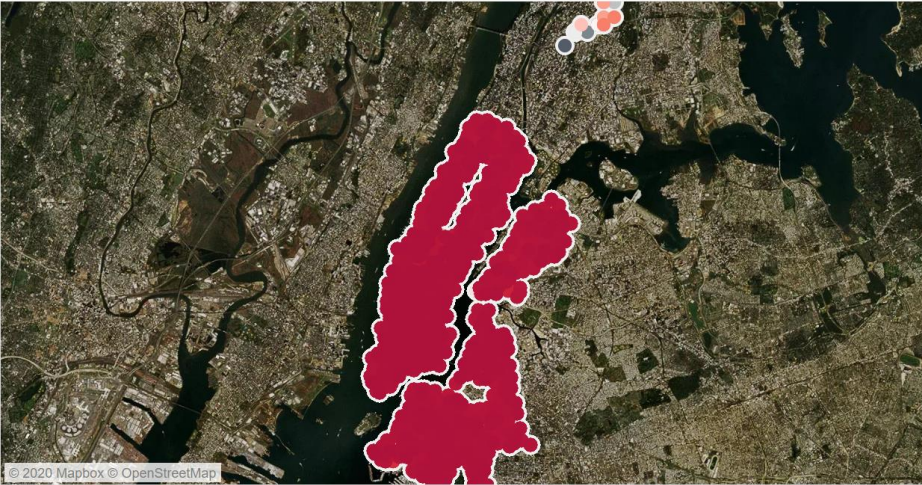
Gender vs Trip Durations



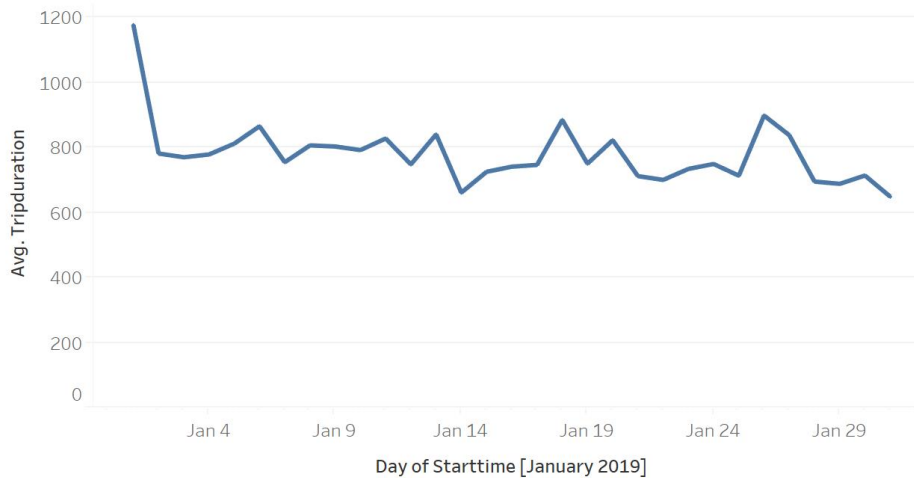
Phenomenon 2 - How do trip start times and days within the month compare of the general NYC region, and how do they related to trip durations?

We found, through trends in the data, that all CitiBike locations having a majority of trip starts before 12 pm. We also found that trip duration times peaking at the beginning and end of the month.

Start Locations vs Hour Start Times



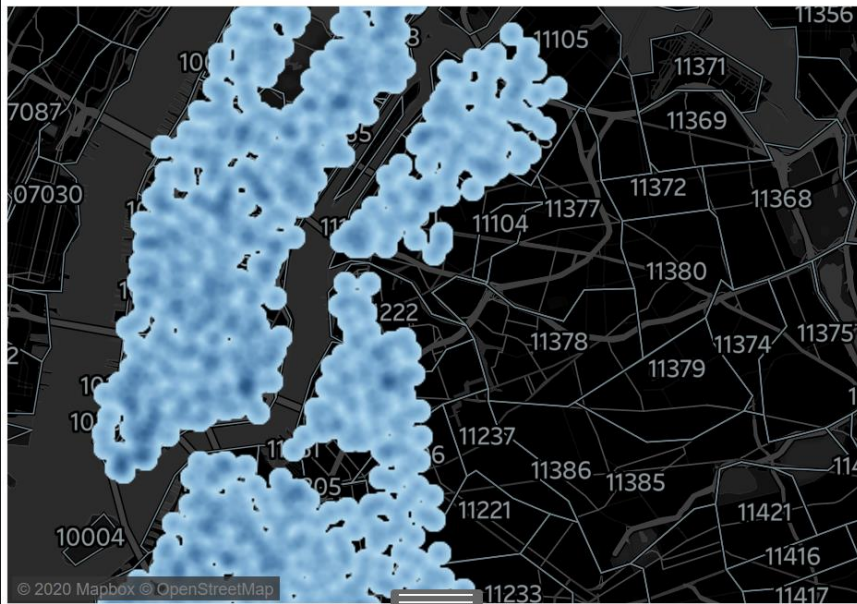
Trip Days vs Durations



City Official Maps Analysis

For our city officials, we can offer that the greater NYC region had the highest density of trips originating from lower Manhattan, while the majority of trip ended in the upper Manhattan region as well as the western regions of Queens and Brooklyn.

Trip Start Locations



Trip End Locations

