Citi Bike Analytics

Since 2013, The Citi Bike Program data have been collected, organized and made public through the NYCBS Database. The data have been published and made available to the public.

All Citi Bike Trip History data was collected for this project as CSV files for the years of 2013 and 2014, specifically the months of July and August. Each CSV file was clean and formatted using Python script in Jupyther Notebook. The files contain the following columns:

* Trip Duration (minutes)
* Start Time and Date
* Stop Time and Date
* Start Station Name
* End Station Name
* Station ID
* Station Latitude/Longitude
* Bike ID
* User Type (Customer = 24-hour pass or 3-day pass user; Subscriber = Annual Member)
* Gender (Zero=unknown; 1=male; 2=female)
* Year of Birth

Analysis results:

Once the data have been loaded into tableau, two maps were generated to illustrate the beginning and the end of the trip. Each map showcased the start and the end location of the trips.

In the process, two calculated field were added to display the age of the riders in reference to their birthdays, and the trip duration in minutes.

In conclusion:

* On average, the number of participants decreases toward the end of the race
* Overall the average trip duration is roughly 13 min
* Except on the weekend, the female participants tend to have more endurance than the male participants
* The majority of the participants were between 1980 and 1990
* Most race started on Friday and Monday