Dashboard Design

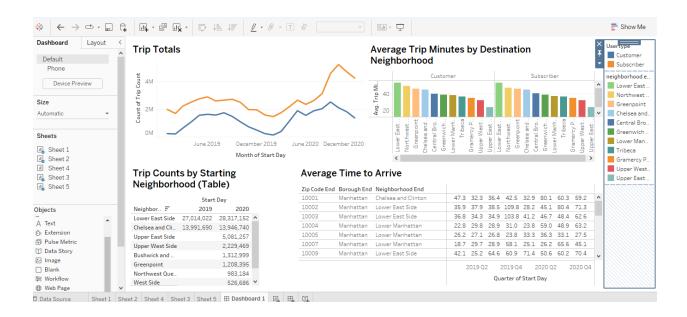
Course 3 end-of-course project overview: Cyclistic

So far, I worked with a fictional bicycle rental company, Cyclistic, to provide their team with key business intelligence insights. I joined tables that included key metrics necessary for a visualization and generated a reporting table to be imported to Tableau.

Scenario

The product development team at Cyclistic has begun developing their business plan for next year. In order to build a better Cyclistic, the team needs to understand how customers are currently using the bikes, how location and other factors impact demand, and what stations get the most traffic. The Cyclistic team has a few goals:

- Understand what customers want, what makes a successful product, and how new stations might alleviate demand in different geographical areas
- Understand how the current line of bikes are used
- Apply customer usage insights to inform new station growth
- Understand how different users (subscribers and non-subscribers) use the bikes



Trip Totals chart

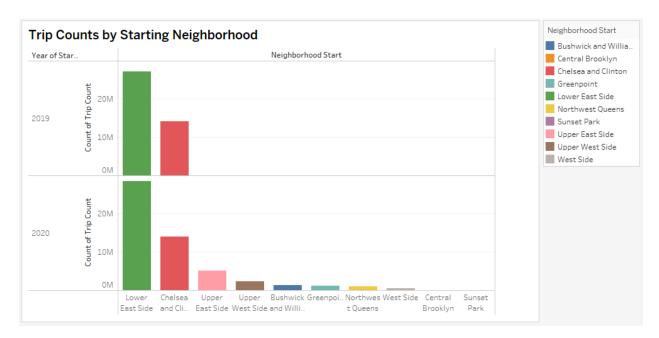


The Trip Totals chart visualizes the total number of bike trips taken throughout 2019 and 2020, with a distinction between customers and subscribers. This chart shows that subscribers make up a significantly larger portion of Cyclistic's users than regular customers. It also shows that there are far more users in warmer months (May - October) than there are in colder months. This makes sense considering that people are less likely to ride bicycles in colder weather.

Trip Counts by Starting Neighborhood table

Trip Counts by Starting Neighborhood (Table)

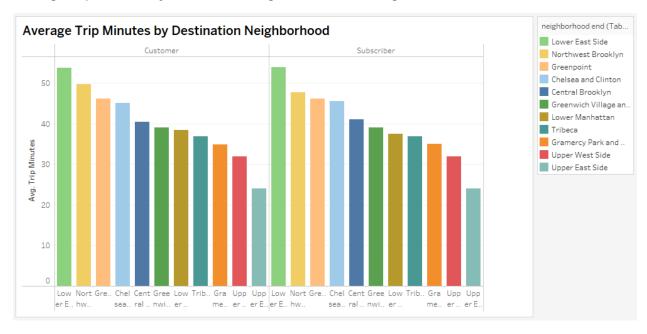
		Start Day					
Neighborhood Start	-	2019	2020				
Lower East Side	2	27,014,022	28,317,152				
Chelsea and Clinton	1	13,991,690	13,946,740				
Upper East Side			5,081,257				
Upper West Side			2,229,469				
Bushwick and Williamsh	bu		1,312,999				
Greenpoint			1,208,395				
Northwest Queens			983,184				
West Side			526,686				
Central Brooklyn			52,505				
Sunset Park			476				



The Trip Counts by Starting Neighborhood table lists the total number of bike trips started in each neighborhood in each month of 2019 and 2020. It also uses a color gradient to emphasize the highest and lowest counts of monthly trips.

Because the starting location is more indicative of where users look for a bike, it is more important to emphasize starting location when determining where to advertise. The most active stations are in the Lower East Side and the Chelsea and Clinton neighborhoods.

Average Trip Minutes by Destination Neighborhood & Average Time to Arrive



ip Code End	Borough End	Neighborhood End								
.0001	Manhattan	Chelsea and Clinton	47.3	32.3	36.4	42.5	32.9	80.1	60.3	59.2
.0002	Manhattan	Lower East Side	35.9	37.9	38.5	109.8	28.2	45.1	80.4	71.3
.0003	Manhattan	Lower East Side	36.8	34.3	34.9	103.8	41.2	46.7	48.4	62.6
.0004	Manhattan	Lower Manhattan	22.8	29.8	28.9	31.0	23.8	59.0	48.9	63.2
.0005	Manhattan	Lower Manhattan	26.2	27.1	26.8	23.8	33.3	36.3	33.1	27.5
.0007	Manhattan	Lower Manhattan	18.7	29.7	28.9	58.1	25.1	26.2	65.6	45.1
.0009	Manhattan	Lower East Side	42.1	25.2	64.6	60.9	71.4	50.6	60.2	70.4
.0010	Manhattan	Gramercy Park and Murra	15.8	23.7	31.5	31.2	21.3	33.4	37.6	37.2
.0011	Manhattan	Chelsea and Clinton	26.0	33.9	37.6	42.2	22.6	80.8	53.1	58.3
.0012	Manhattan	Greenwich Village and So	19.0	28.3	28.4	21.4	17.0	35.3	41.0	49.0
.0013	Manhattan	Greenwich Village and So	21.5	29.4	30.8	39.5	23.5	24.8	46.6	40.7
.0014	Manhattan	Greenwich Village and So	32.5	30.7	26.5	42.1	20.4	35.6	56.2	82.8
.0016	Manhattan	Gramercy Park and Murra	20.0	24.3	26.3	68.1	17.4	24.1	45.5	56.3
.0017	Manhattan	Gramercy Park and Murra	28.2	22.7	23.1	20.7	22.2	28.9	90.8	27.2
.0018	Manhattan	Chelsea and Clinton	36.7	25.8	28.5	29.0	25.8	45.4	37.1	41.7
.0019	Manhattan	Chelsea and Clinton	32.8	34.2	39.9	49.0	29.2	62.8	67.5	35.0
.0021	Manhattan	Upper East Side	23.1	25.9	24.5	23.3	22.6	43.4	25.1	20.3
0022	Manhattan	Gramorey Dark and Musea	21.4	21.0	20.4	24.0	22.0	35.0	24.7	20.2