

# Month of April, 2019

## 1. Total Number of Trips

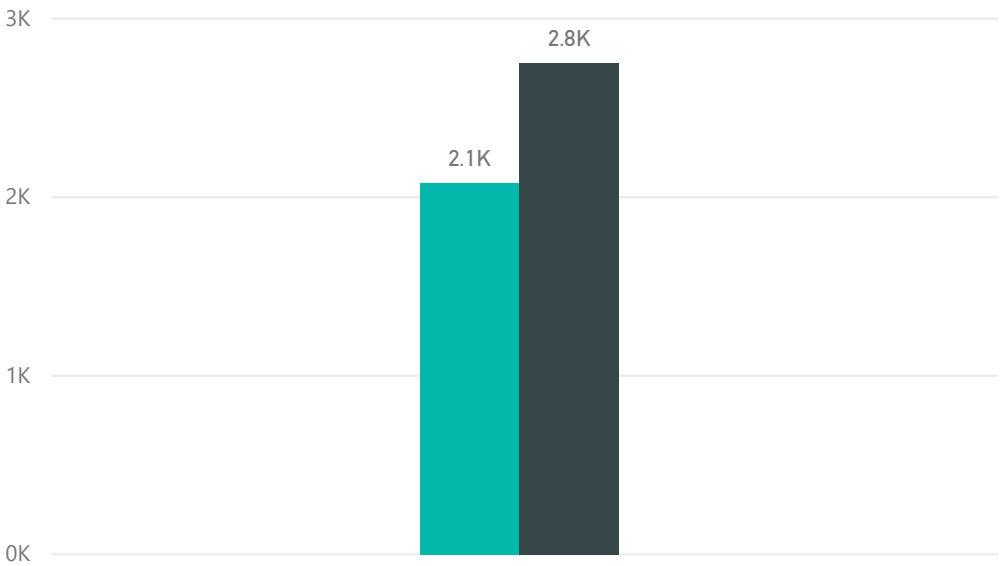
2751

Count of tripduration

## 2. Percent Growth in Ridership

Count of trips - March and Count of trips - April

Count of trips - March    Count of trips - April



32.20%

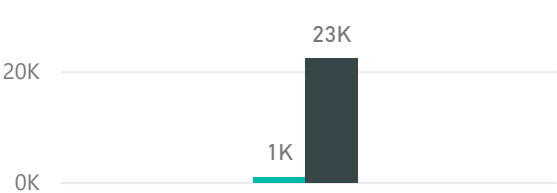
Ridership growth March-April



## 3. How has the proportion of short-term customers and annual subscribers changed?

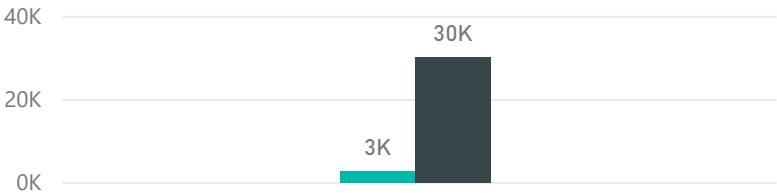
March short term customers and March Subscribers

March short term customers    March Subscribers



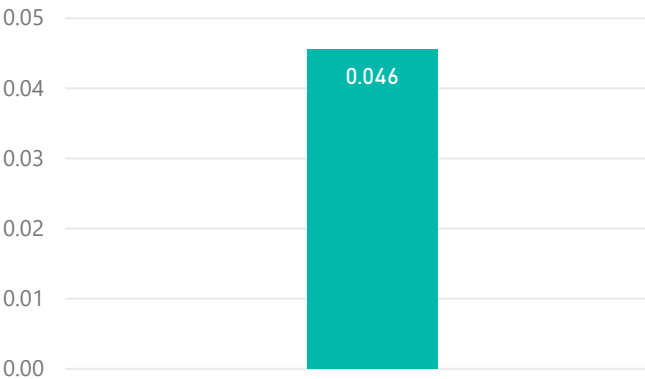
April short term Customers and April Subscribers

April short term Customers    April Subscribers

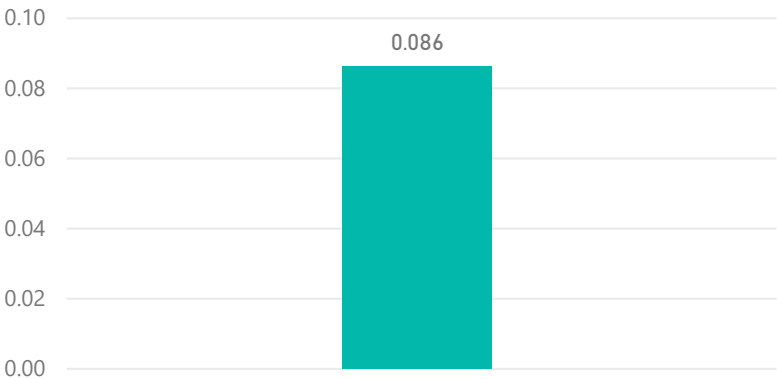


From March to April, the proportion of short-term customers to subscribers grew. Whereas in March short term customers made up 4.6% of customers, in April short term customers made up 8.6% of total customers.

March short term customers divided by Count of usertype



April short term Customers divided by Count of usertype



4. What are the peak hours in which bikes are used during summer months?
5. What are the peak hours in which bikes are used during winter months?

6. Today, what are the top 10 stations in the city for starting a journey?

start station name	Count of start station name
Grove St PATH	3728
Hamilton Park	1754
Exchange Place	1571
Sip Ave	1509
Newport PATH	1458
Harborside	1365
Marin Light Rail	921
Newport Pkwy	917
Newark Ave	888
City Hall	874
Total	14985

8. Today, what are the bottom 10 stations in the city for starting a

start station name	Count of start station name
Communipaw & Berry Lane	135
Christ Hospital	233
Bergen Ave	277
5 Corners Library	280
Astor Place	322
Baldwin at Montgomery	347
Columbus Drive	637
Brunswick St	704
Brunswick & 6th	810
City Hall	874
Total	4619

7. Today, what are the top 10 stations in the city for ending a journey?

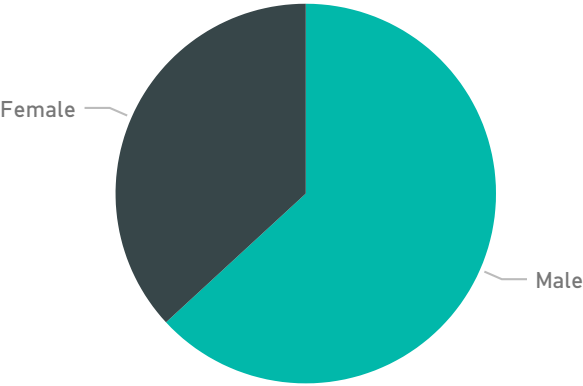
end station name	Count of end station name
Washington St	864
Warren St	698
Van Vorst Park	685
York St	279
Union St	104
Vesey Pl & River Terrace	5
W 84 St & Columbus Ave	2
W 15 St & 10 Ave	1
W 27 St & 10 Ave	1
W 41 St & 8 Ave	1
Total	2640

9. Today, what are the bottom 10 stations in the city for ending a journey (Based on data, why?)

end station name	Count of end station name
Amsterdam Ave & W 125 St	1
Broadway & W 56 St	1
Christopher St & Greenwich St	2
Christ Hospital	140
5 Corners Library	225
Bergen Ave	265
Astor Place	332
Baldwin at Montgomery	347
Brunswick St	604
Brunswick & 6th	728
Total	2645

10. Today, what is the gender breakdown of active participants (Male v. Female)?  
Males makes up 63.14% of participants, while Females make up 36.86% in April.

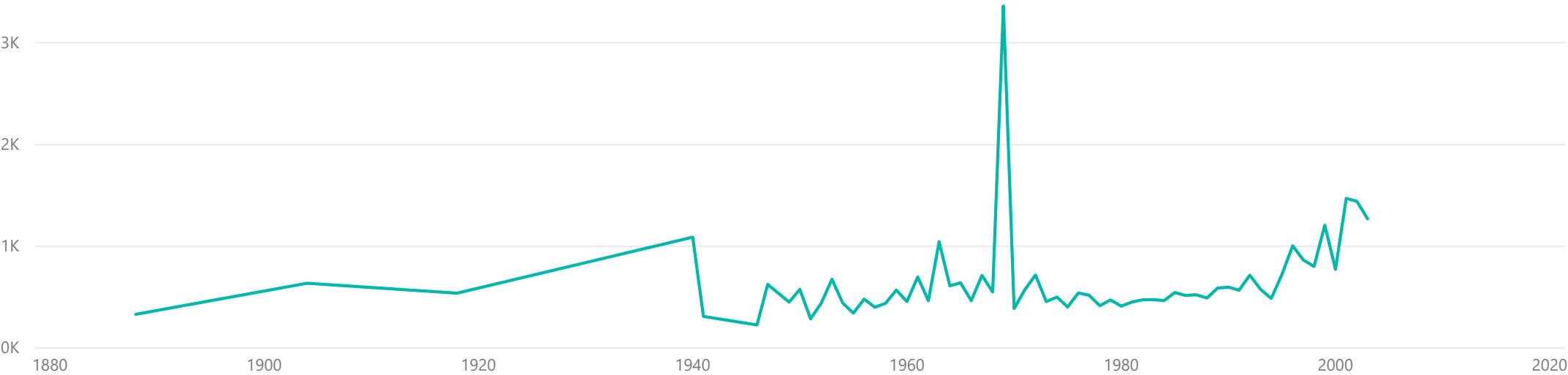
Male and Female



11. How effective has gender outreach been in increasing female ridership over the timespan?

12. How does the average trip duration change by age?  
Overall, younger customers tend to have longer trip durations.

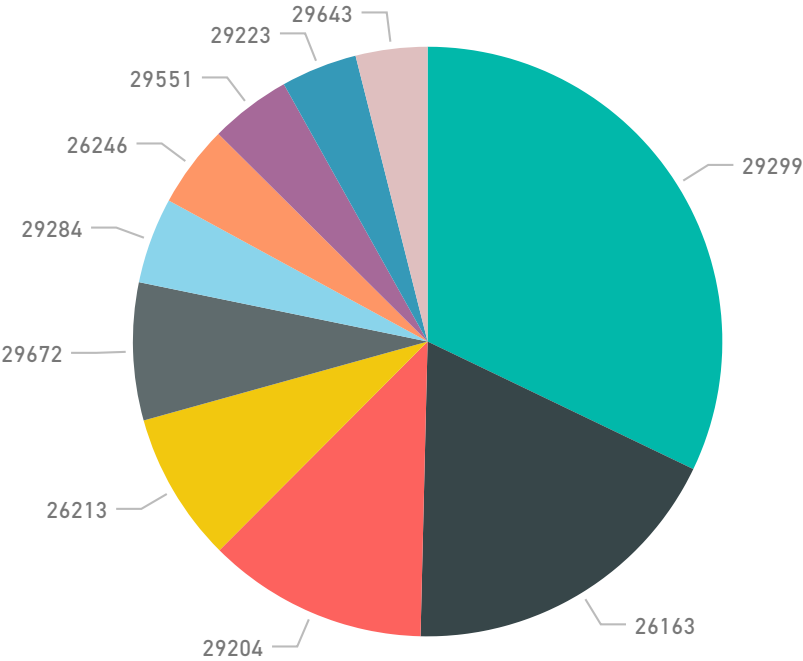
Average of tripduration by birth year



13. What is the average distance in miles that a bike is ridden?  
Milage estimates are calculated using an assumed speed of 7.456 miles per hour, up to two hours. Trips over two hours max-out at 14.9 miles.

14. Which bikes (by ID) are most likely due for repair or inspection in the timespan?  
The top 10 bikes most likely for repair or inspection are shown below. These are the bikes most likely requiring service because they have gone the longest distances.

tripduration by bikeid



15. How variable is the utilization by bike ID?

A static map that plots all bike stations with a visual indication of the most popular locations to start and end a journey with zip code data overlaid on top.

Count of start station name by start station name, start station latitude and start station longitude

