

CitiBike Analysis

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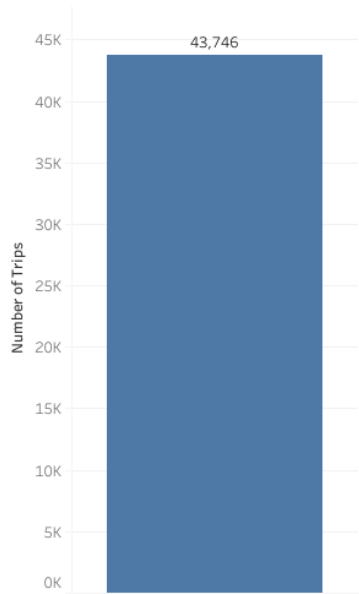
COVID-19 and Bike Rentals

Introduction and 2019 and 2020 comparison	Bike Rental Yearly Increase	Bike Rentals per Station	Peak Hours of All Bikes	Peak Hours of Each Bike Type	Peak Hours of Bike Members	Peak Hours of Bike Members and Bike Ty..	Map of Most Common Bike Stations
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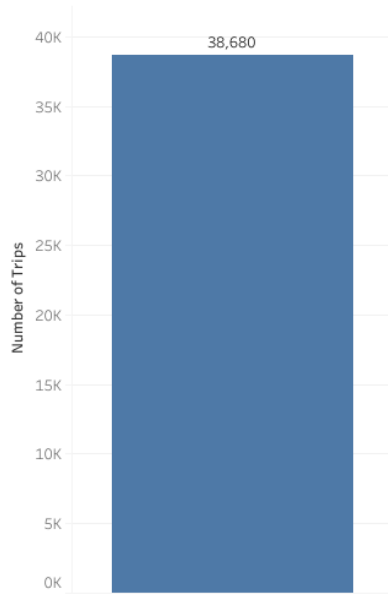
Impact of the COVID-19 Pandemic on Bike Rentals

During the COVID-19 pandemic, there was a slight decrease in bike usage (5066 trips, as shown in the bar graphs below) from 2019. This is most likely due to the lockdowns mandated in New York in 2020. These visualizations visualize the data of bike rental usage from 2019-2022 and how the pandemic impacted the bike rental activity.

Total Bike Trips in 2019



Total Bike Trips in 2020



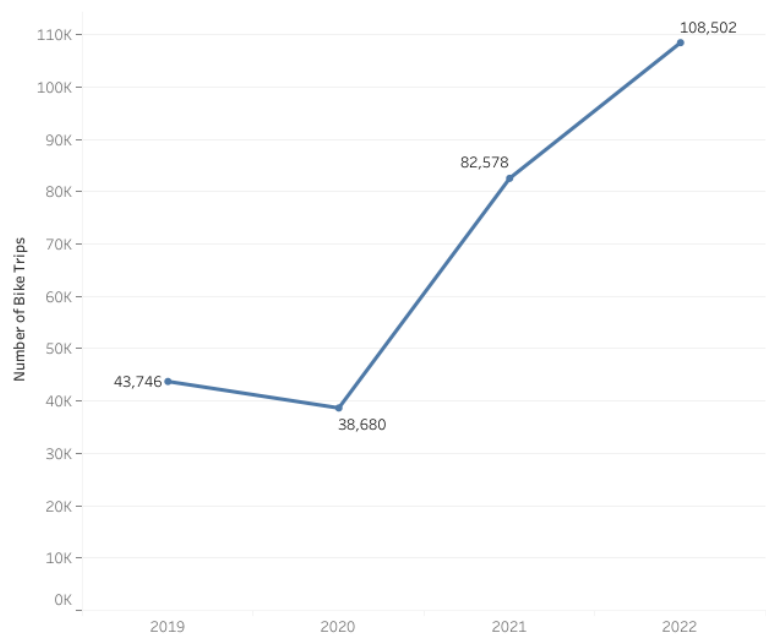
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Annual Bike Rental Changes

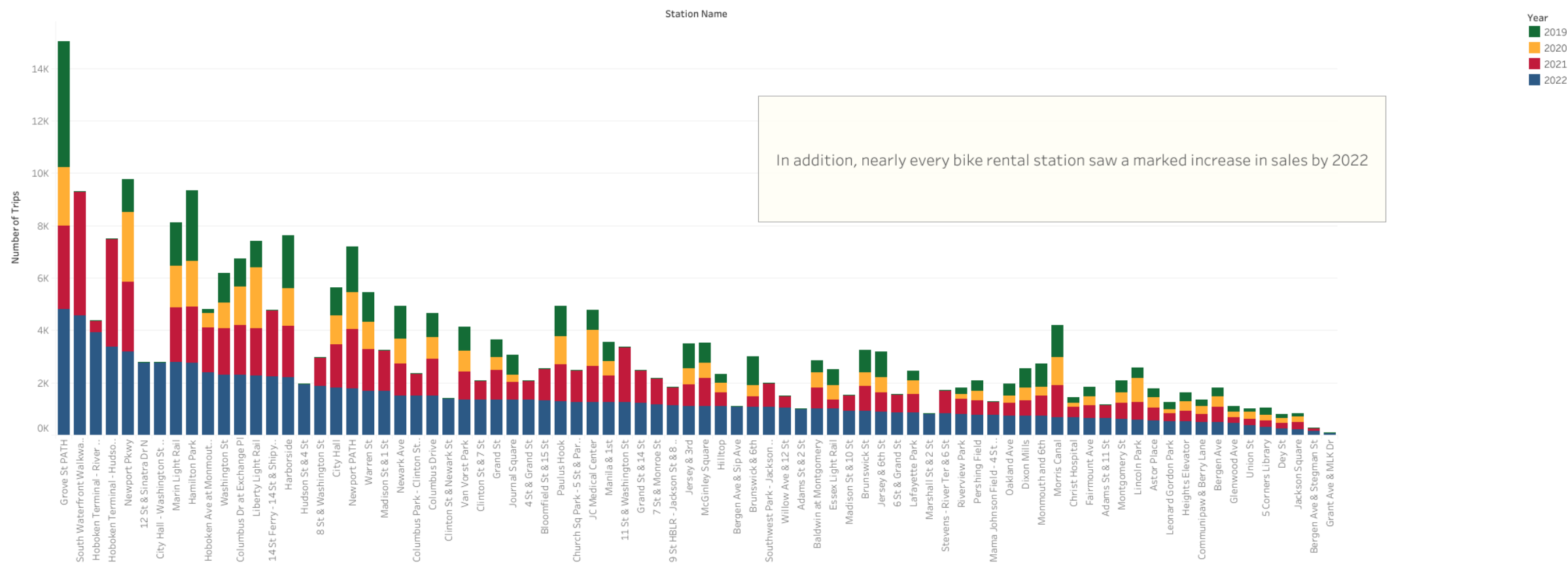
Data of bike rentals from 2019-2022 reveals a slight decrease in bike rental trips due to the COVID-19 pandemic in 2020, but sales quickly recover in 2021 and more than doubles pre-pandemic sales by 2022

Yearly Improvements from 2019-2022



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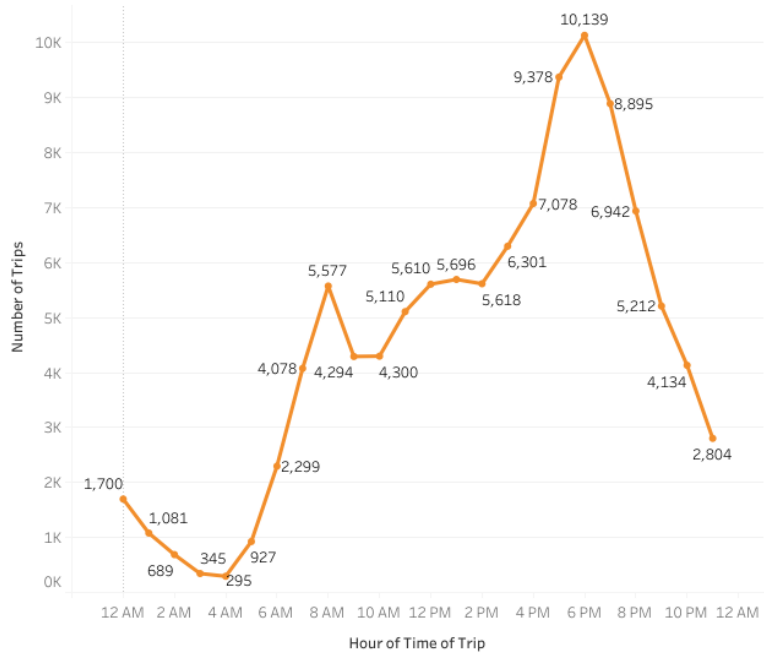
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Peak Hours of Bike Rentals

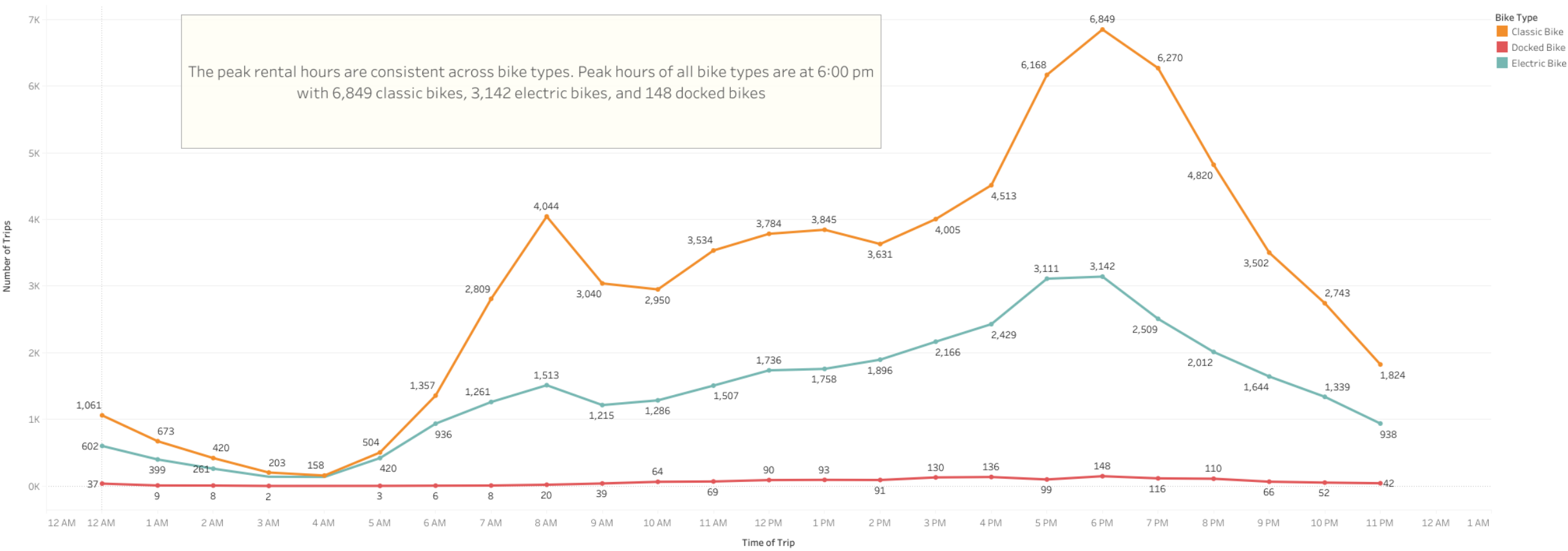
Since there has been a significant increase in bike rentals since 2019, it's crucial to identify the peak hours of these rentals. This allows us to optimize services and align ourselves with user preferences. According to the 2022 data on bike rentals, the highest volume of trips occurred at 6:00 pm with 10,139 rides. This uptick in rentals could possibly be d..

Bike Rental Peak Hours



COVID-19 and Bike Rentals

- Introduction and 2019 and 2020 comparison
- Bike Rental Yearly Increase
- Bike Rentals per Station
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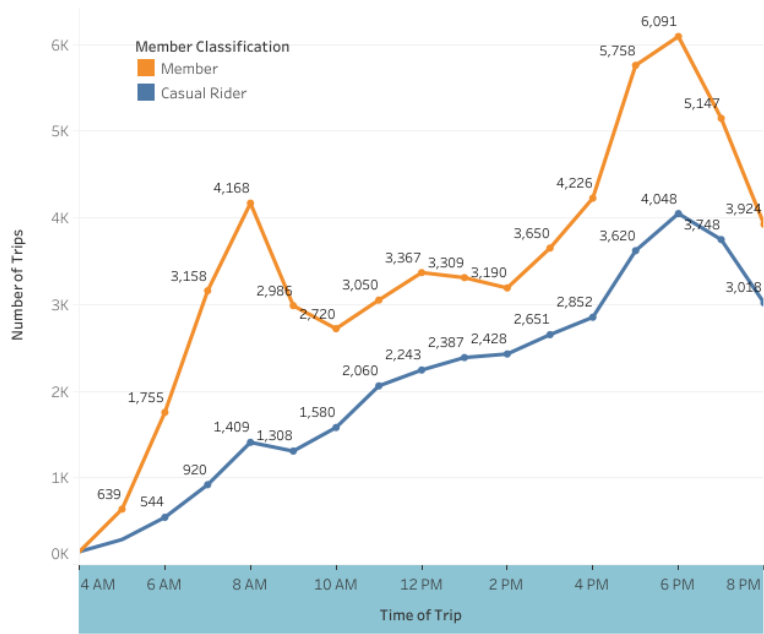
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Peak Hours of Bike Members and Casuals

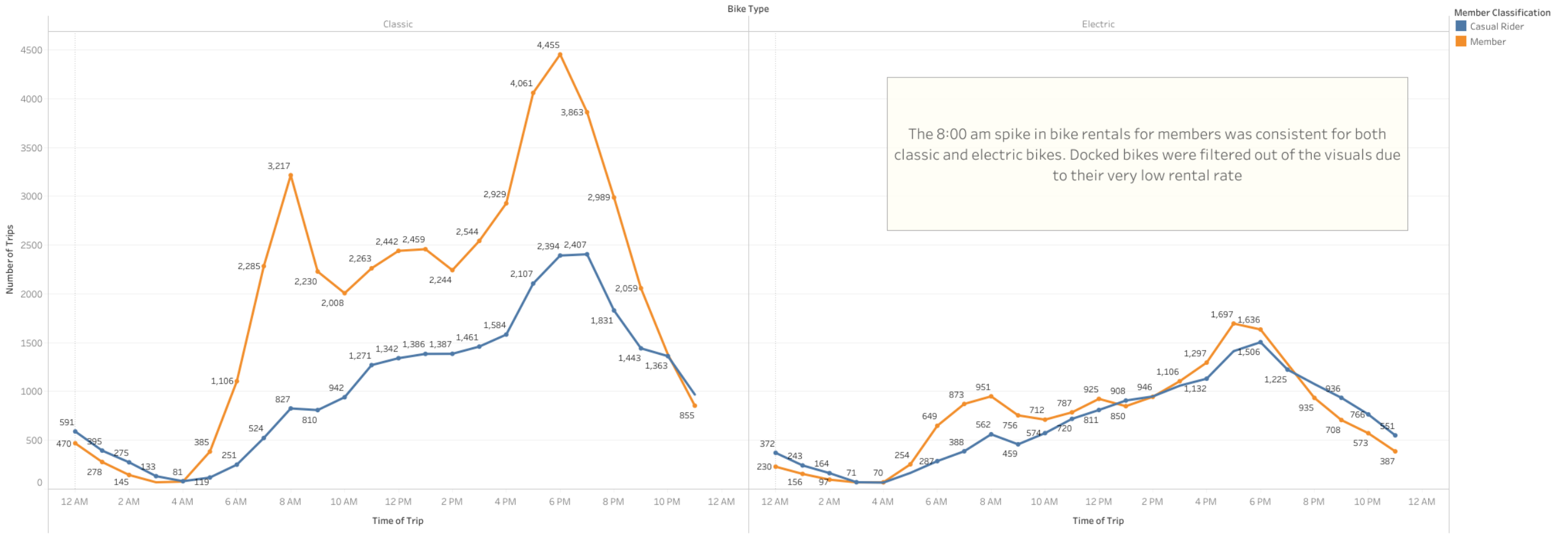
A closer examination of the data reveals another spike in bike rental activity at 8:00 am for individuals with bike memberships with 4,168 bike trips. This spike in rental activity could be attributed to individuals seeking reliable transportation for their morning commute, prompting them to obtain bike rental memberships.

Peak Hours of Members and Casual Riders



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