

# Metro Bike Share Analysis

I worked on analyzing why the metro bike share usage was not as expected even despite of Los Angeles being the second most populous city of United States.

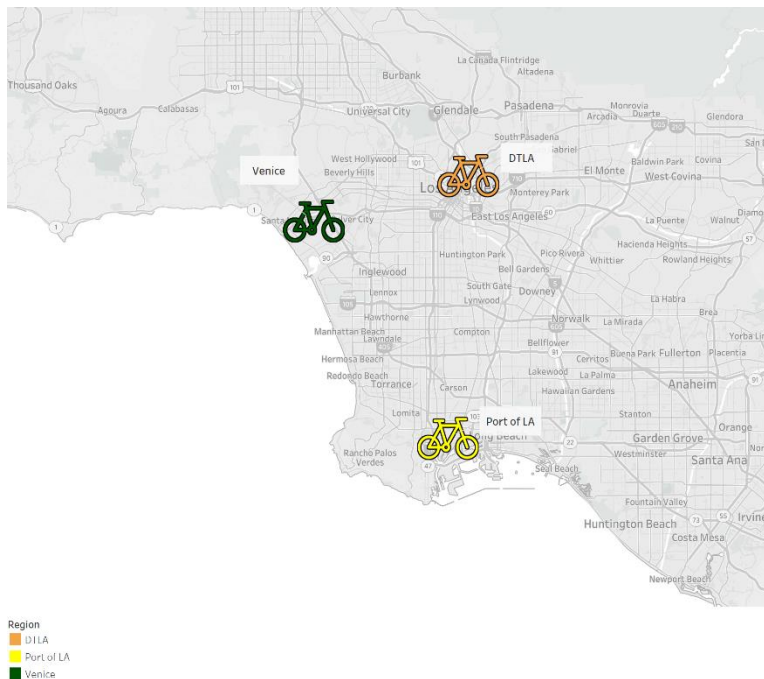
I studied data on 639403 rides from Q3,2016 to Q4,2018 and analyzed the behavior of rides/trip in several thematic sections for bike station, regions, pass usage, traffic and price .

My Study is divided in four categories

- 1) Location service pattern
- 2) Weather based service pattern
- 3) Price analysis
- 4) Traffic analysis

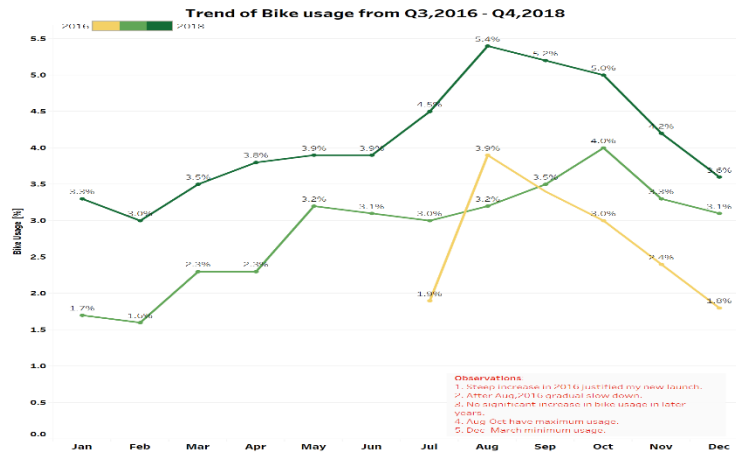
For this project python was used for data pre-processing and tableau was used for data visualization. The data sources are US census, Metro Bike, National Highway Traffic Safety Administration and, National Centre of Environment Information.

Below are the individual visualizations used for the work

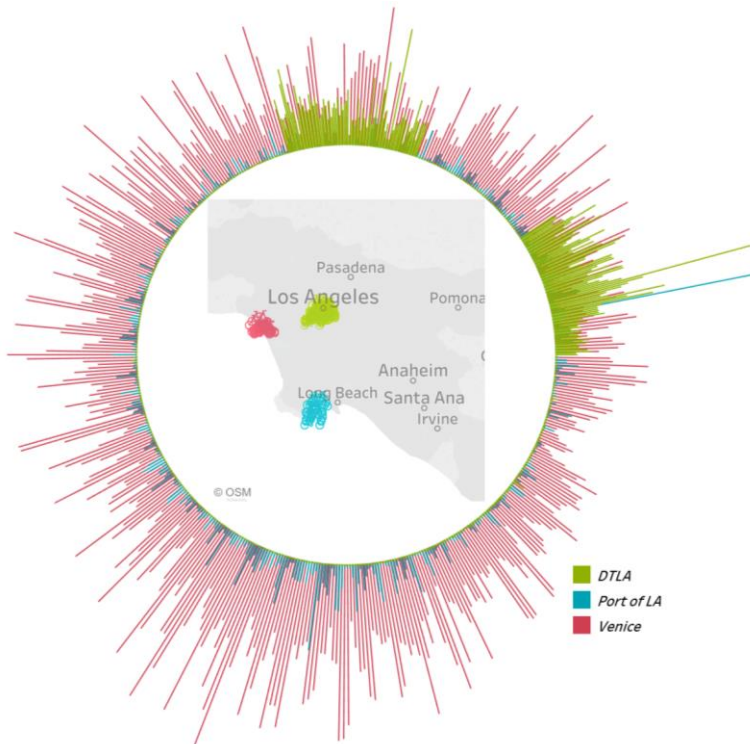


***1 Shows Current Active Regions of Metro Bike Share***

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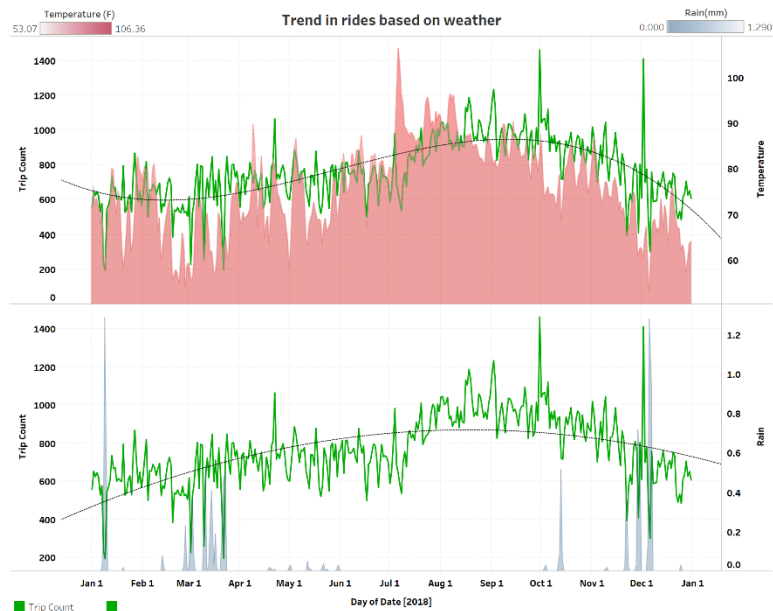


## 2 Trend in Bike Usage from 2016 to 2018

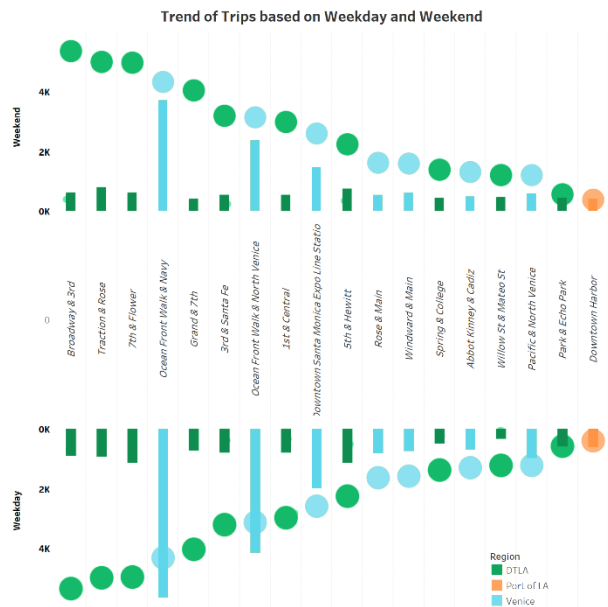


## 3 Shows the Active Regions and the duration of Usage

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## 4 Trend in bike Usage based on Weather

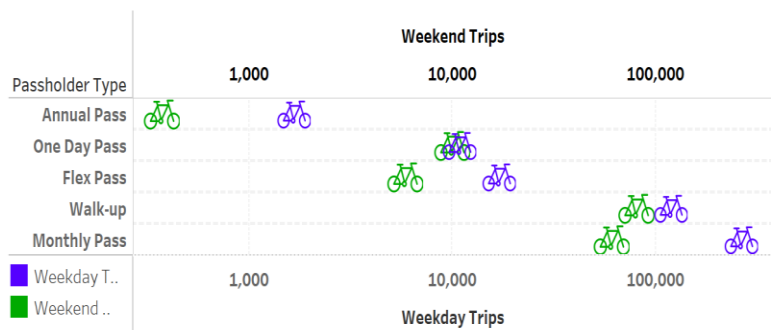


## 5 Trend in bike trips based on days (Round trips are denoted by circle whereas bars represent one-way trips)

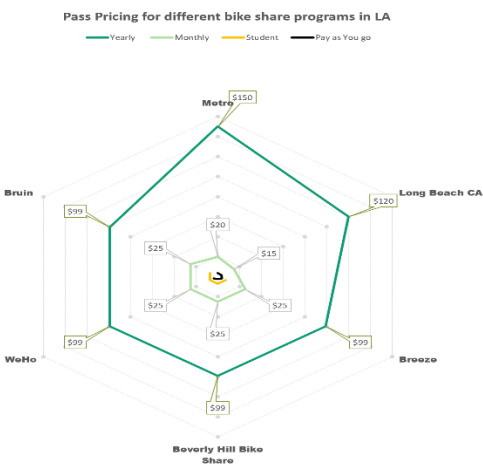
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## 6 Top 5 round and one-way trips

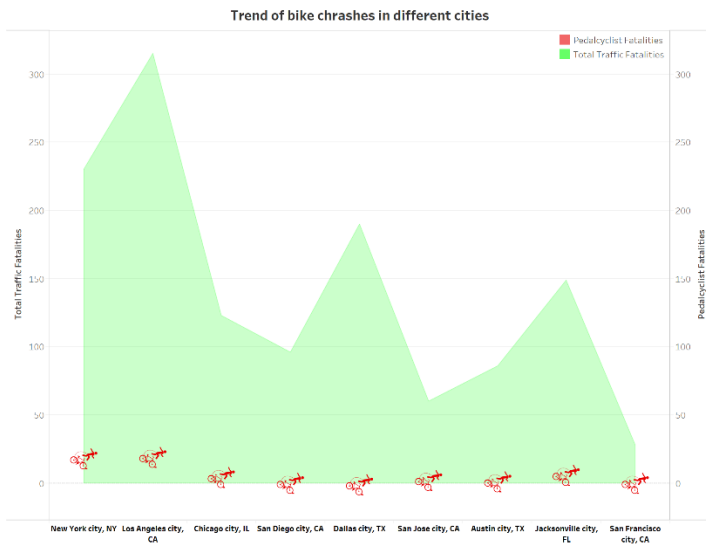


## 7 Trend of usage of different types of passes



## 8 Price analysis of different bike shares in LA

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## 9 Traffic crash Analysis of major cities

The final poster presentation of the work is below

