Austin Bike Sharing

Solving Austin's Biggest Problem











Objectives & Hopeful Outcomes

Efficient Allocation of Bikes

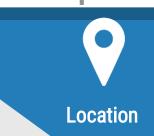
Willingness to Try Less Cars on Roads

Health Benefits





Exploratory Data Analysis



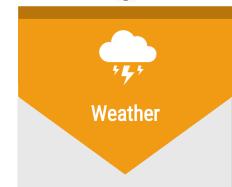
- Location of Bike Stations
- Rides per Station
- Fastest Growing Stations



- Identify Type of Bike Share User
- Local 30 / Local 365
 Programs



- Seasonality
- Spikes in Demand
- Days of the Week
- Time of Day
- SXSW & ACL



- 'Too Hot' & 'Too Cold' Temperatures
- Impact of a Rainy Day on Demand



- Based on Zip Codes of Stations
- Residents that 'Walk to Work'
- Residents between 'Ages 15 & 24'

^{*}Datasets Used: Austin Bikeshare Stations, Austin Bikeshare Trips, Austin Weather, and Austin Traffic Count



Most Popular Stations

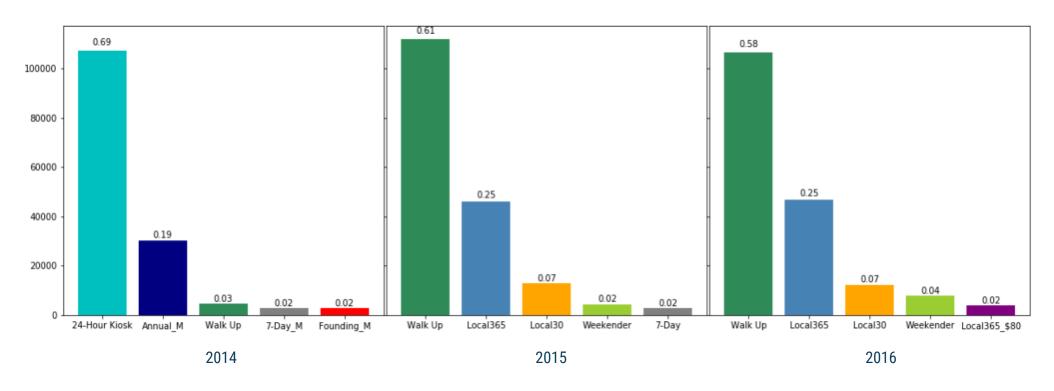
Station Name	Number of Rides	Annual Growth
Riverside @ S. Lamar	8906	23%
Rainey St @ Cummings	7684	12%
City Hall / Lavaca & 2nd	7277	-6%
2nd & Congress	7265	-12%
5th & Bowie	6780	-15%
Davis at Rainey Street	6679	46%
Zilker Park	6315	-16%
4th & Congress	6261	4%
Convention Center / 4th St. @ MetroRail	6260	4%
Pfluger Bridge @ W 2nd Street	6131	23%



Note: 2016 data has been considered to identify the busiest stations



Types of Users

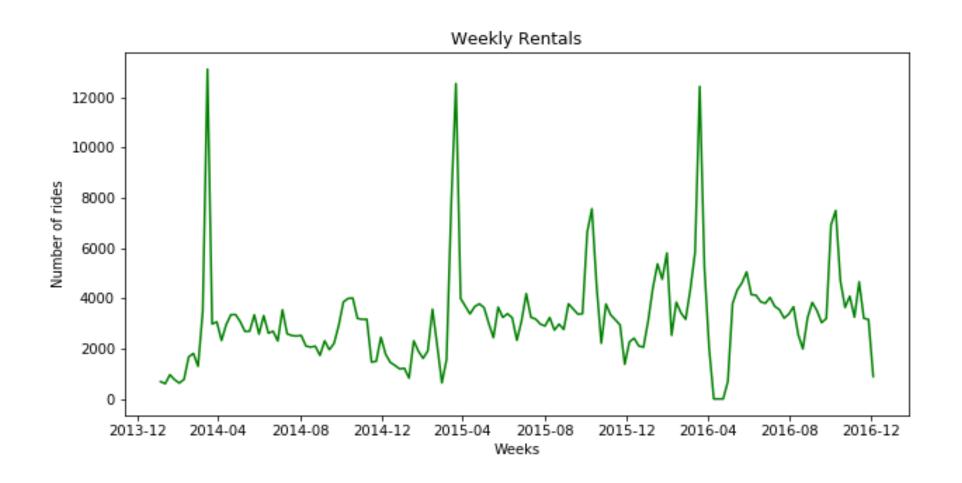


Walk Up: Ad-Hoc Users

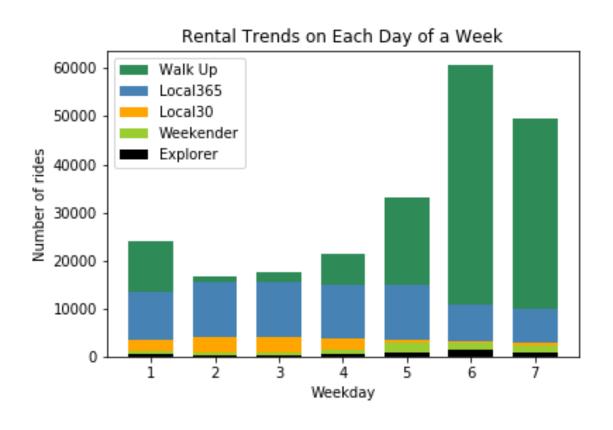
Local365: Annual Membership Local30: Monthly Membership Weekender: 3-Day Access Pass

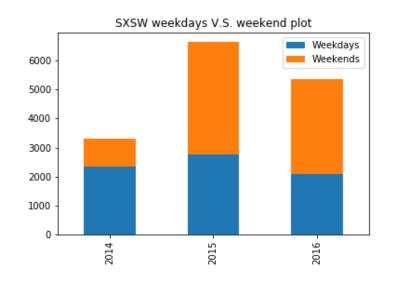


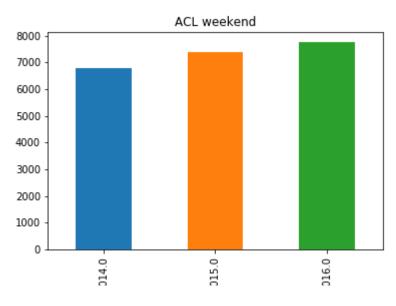
Spikes in Rides during March & October



Day of the Week (Including SXSW & ACL)

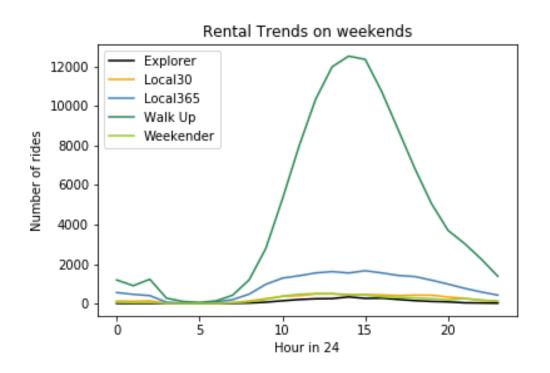


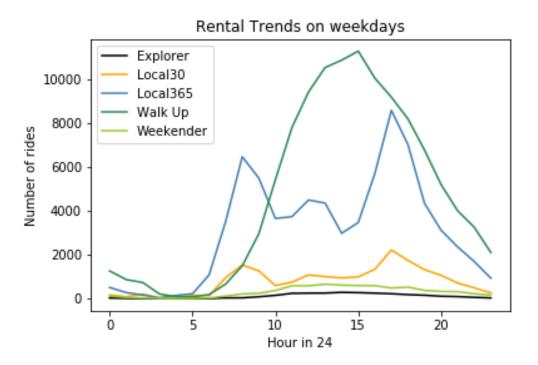






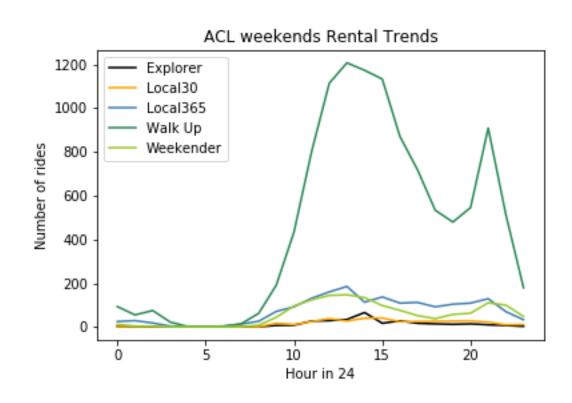
Hour of the Day







Hourly Trends During ACL







Impact of Weather on Bike Sharing

Rainy Days

Hot Days

Cold Days



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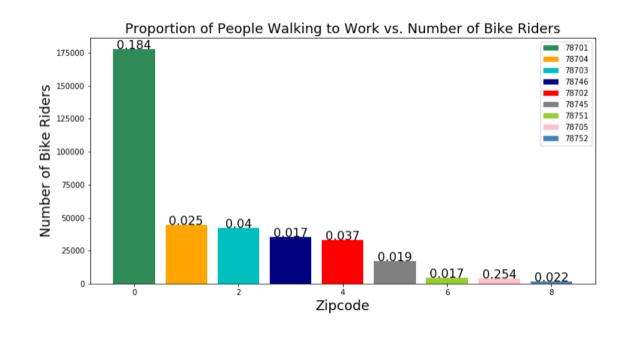
% Drop in Rides

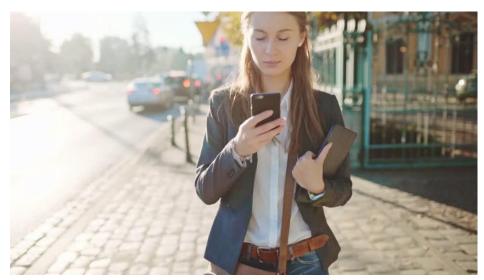
67%

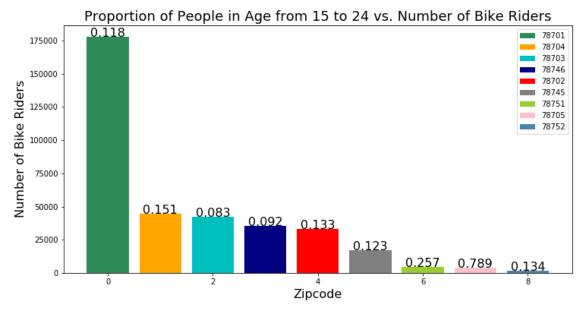
36%

72%

Demographic Factor





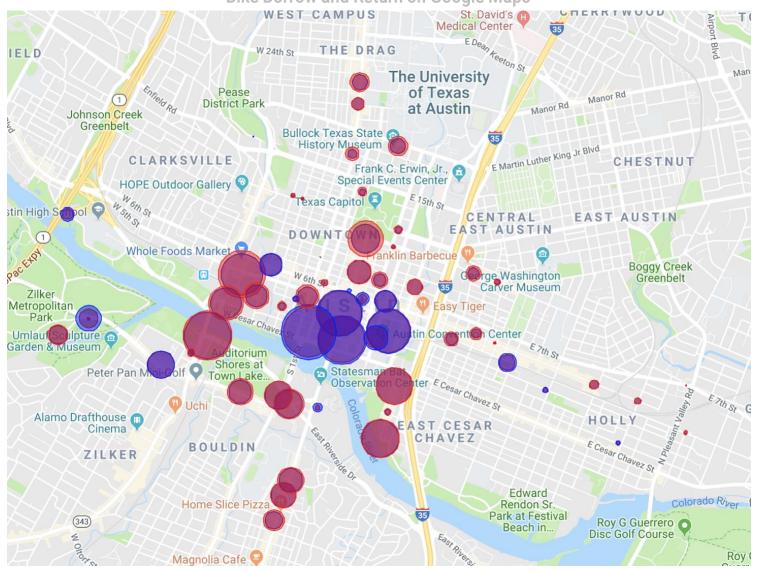


Insights - Trend in General

Bike Borrow and Return on Google Maps

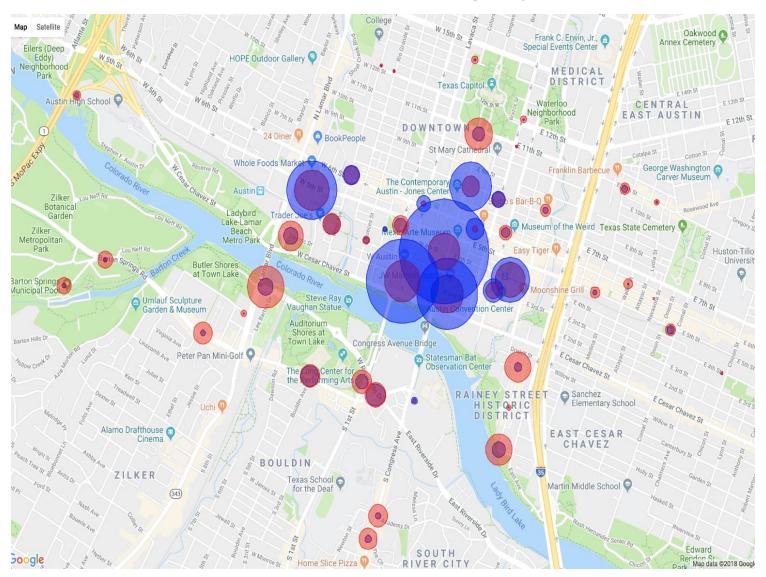
More Borrow

More Return



Rush Hour Sunny Day

Bike Borrow and Return on Google map



More Borrow

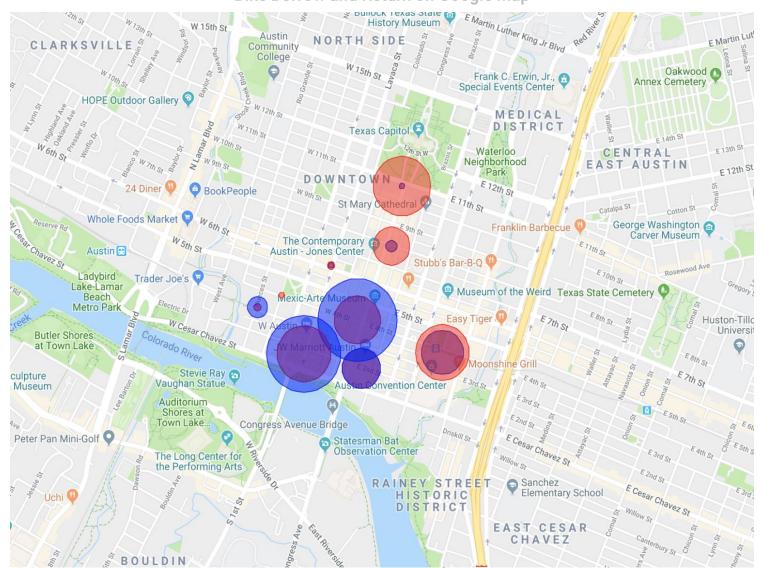
More Return

Rush Hour Rainy Day

Bike Borrow and Return on Google map

More Borrow

More Return



Thank You



