Cyclistic

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- Capstone project | Google Data Analytics course #8 | Coursera

Data

Basic stats, etc.

Analysis

1. Members ride more often, casual users ride for longer.

Overall stats TODO. Mini charts TODO. February outliers. Summer months #C > #M.

Average ride duration (minutes)

| Status | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Casual | 24 | 24 | 22 | 21 | 33 | 27 | 28 | 29 | 28 | 27 | 25 | 24 |
| Member | 13 | 13 | 12 | 13 | 18 | 13 | 14 | 14 | 14 | 14 | 14 | 13 |

Average daily rides (count)

| Status | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|------------------|-----|-----|-----|-----|-----|-----|-----|-----|----------------------|-----|-----|-----|
| Casual Member | , | , | | | | , | , | * | , | | , | , |

2. Members ride all week, casual riders prefer weekends.

Members' usage remains nearly flat, falling on Sunday. Casual users do most riding starting on Friday and through the weekend, peaking on Saturday.

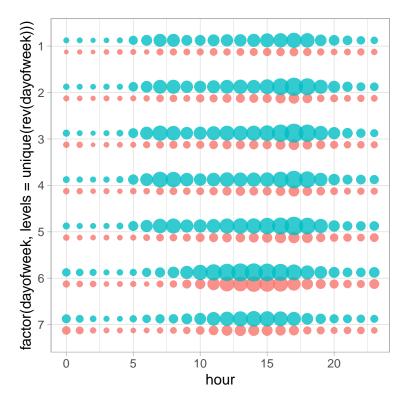
By weekday

Average daily duration (minutes)

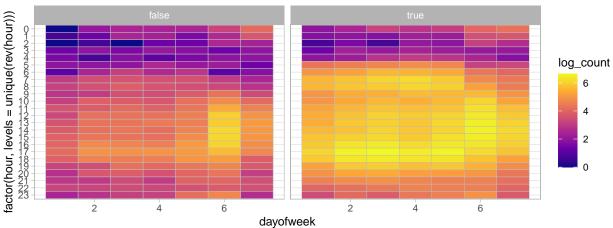
| Status | Mon | Tue | Wed | Thu | Fri | Sat | Sun |
|--------|-----|-----|-----|-----|-----|-----|-----|
| Casual | 28 | 25 | 24 | 24 | 26 | 30 | 32 |
| Member | 13 | 13 | 13 | 13 | 13 | 15 | 16 |

Average daily rides (count)

| Status | Mon | Tue | Wed | Thu | Fri | Sat | Sun |
|------------------|-----|-----|-----|-----|-----|-----|-----|
| Casual Member | , | , | , | , | , | , | , |



Hourly



The Graphs

Monthly by weekday

Weekly Counts and Average Duration Full year, weekly.

Note: not weighted average for the graph above.

Monthly by bike type

The Weather

Weekly TODO — either use a weather-only dataset or show trips alongside weather.

TODO: Recompute on new daily aggregates.

Temperature In degrees C.

Rain (mm) vs ride count

Wind Wind (m/s) vs ride count.

Second graph is scaled to 100% to show member vs casual share.

The Geography

Stations 1288 stations. Following: casual vs members, 8am vs 4pm, Monday-Friday.

Each dot is a bike docking station. Stations highlighed **yellow-red** have more arrivals than departures for the given hour, suggesting an influx of bike traffic at that location.

Friday, 4pm, casual vs members

8am, Monday-Sunday, casual vs members

4pm, Monday-Sunday, casual vs members