# Cyclistic

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

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

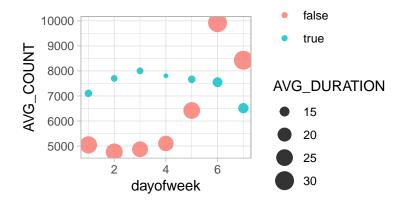
| month_start | $is\_member$ | count | duration |
|-------------|--------------|-------|----------|
| 2020-10-01  | false        | 31    | 24.43123 |
| 2020-10-01  | true         | 31    | 13.25616 |
| 2020-11-01  | false        | 30    | 24.46033 |
| 2020-11-01  | true         | 30    | 12.82754 |
| 2020-12-01  | false        | 31    | 22.21802 |
| 2020-12-01  | true         | 31    | 12.20958 |
| 2021-1-01   | false        | 31    | 21.21272 |
| 2021-1-01   | true         | 31    | 12.66565 |
| 2021-2-01   | false        | 28    | 32.87435 |
| 2021-2-01   | ${ m true}$  | 28    | 17.85411 |
| 2021-3-01   | false        | 31    | 27.38463 |
| 2021-3-01   | true         | 31    | 13.18571 |
| 2021-4-01   | false        | 30    | 27.74138 |
| 2021-4-01   | true         | 30    | 14.00357 |
| 2021-5-01   | false        | 31    | 28.54489 |
| 2021-5-01   | true         | 31    | 14.02661 |
| 2021-6-01   | false        | 30    | 28.49060 |
| 2021-6-01   | true         | 30    | 14.13181 |
| 2021-7-01   | false        | 31    | 26.64278 |
| 2021-7-01   | true         | 31    | 13.85915 |
| 2021-8-01   | false        | 31    | 25.47086 |
| 2021-8-01   | true         | 31    | 13.60916 |
| 2021-9-01   | false        | 30    | 23.81494 |
| 2021-9-01   | true         | 30    | 13.30084 |
|             |              |       |          |

# The Graphs

Aggregate by day of week

### Monthly by weekday

## Overall by weekday



#### Hourly

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