# Case Study 1

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## Which membership tier will be more profitable?

## About the company

In 2016, Cyclistic launched a successful bike-share offering. Since then, the program has grown to a fleet of 5,824 bicycles that are geotracked and locked into a network of 692 stations across Chicago. The bikes can be unlocked from one station and returned to any other station in the system anytime.

Until now, Cyclistic's marketing strategy relied on building general awareness and appealing to broad consumer segments. However, Cyclistic's finance analysts have concluded that annual members are much more profitable than casual riders. Although the pricing flexibility helps Cyclistic attract more customers, Moreno believes that maximizing the number of annual members will be key to future growth.

Business has set a clear goal: Design marketing strategies aimed at converting casual riders into annual members. In order to do that, however, the marketing analyst team needs to better understand how annual members and casual riders differ, why casual riders would buy a membership, and how digital media could affect their marketing tactics. Moreno and her team are interested in analyzing the Cyclistic historical bike trip data to identify trends.

## **Business Tasks:**

- How do annual members and casual riders use Cyclistic bikes differently?
- How can Cyclistic use digital media to influence casual riders to become members?
- Why would casual riders buy Cyclistic annual memberships?

#### About the Dataset:

- The dataset consist of 12 files which consists ride history data for each month
- The data has been made available by Motivate International Inc. under this license (https://ride.divvybikes.com/data-license-agreement)
- The Divvy system data is owned by the City ("Data") and available to the public, thus it is trustable and has integrity
- Data has been improved every time a data analyst makes recommendations after using it to run an analysis

## **Processing Data:**

## 1. Installing and loading the required libraries

```
# Installing packages
install.packages("tidyverse")
##
## The downloaded binary packages are in
    /var/folders/xx/6sjp9g5j07x1hjzv7g3szwwh0000gp/T//Rtmp4HfdtX/downloaded_packages
install.packages("lubridate")
##
## The downloaded binary packages are in
    /var/folders/xx/6sjp9g5j07x1hjzv7g3szwwh0000gp/T//Rtmp4HfdtX/downloaded packages
install.packages("dplyr")
##
## The downloaded binary packages are in
    /var/folders/xx/6sjp9g5j07x1hjzv7g3szwwh0000gp/T//Rtmp4HfdtX/downloaded packages
install.packages("readr")
##
## The downloaded binary packages are in
##
    /var/folders/xx/6sjp9g5j07x1hjzv7g3szwwh0000gp/T//Rtmp4HfdtX/downloaded packages
install.packages("ggplot2")
##
## The downloaded binary packages are in
    /var/folders/xx/6sjp9g5j07x1hjzv7g3szwwh0000gp/T//Rtmp4HfdtX/downloaded_packages
#Loading packages
library(tidyverse)
```

```
## — Attaching core tidyverse packages —
                                                                      – tidyverse 2.0.0 —
## ✓ dplyr
                1.1.2
                           ✓ readr
                                         2.1.4
## ✓ forcats
                1.0.0
                                         1.5.0

✓ stringr

## ✓ ggplot2 3.4.2

✓ tibble

                                        3.2.1
## ✓ lubridate 1.9.2

✓ tidyr

                                         1.3.0
## ✓ purrr
                1.0.1
## - Conflicts -
                                                               — tidyverse_conflicts() —
## * dplyr::filter() masks stats::filter()
## \times dplyr::lag()
                     masks stats::lag()
## i Use the conflicted package (<a href="http://conflicted.r-lib.org/">http://conflicted.r-lib.org/</a>) to force all conflic
ts to become errors
```

```
library(lubridate)
library(ggplot2)
library(dplyr)
library(readr)
```

### 2. Loading all the data

```
#Setting working directory
setwd("/Users/MeowMac/Downloads/Case Study/")
```

```
# Create an empty list to store the data frames for each month
fileNames_list <- list()

# Initialize the df_names vector
df_names <- character(length(file_names))

# Initialize the vector to store filenames if they have rows with missing values in e
very column
filenames_with_missing_rows <- character(0)</pre>
```

```
# Loop through each file and load the .csv files
for (i in seq along(file names)) {
  # Read the CSV file and assign it to a data frame
  df_names[i] <- paste0("m", sprintf("%02d", 13 - i), "_", gsub("-", "_", substr(file</pre>
_names[i], 3, 8)))
  fileNames_list[[df_names[i]]] <- read_csv(file_names[i])</pre>
  # Count the number of rows with missing values in all columns
  missing rows count <- sum(apply(is.na(fileNames list[[df names[i]]]), 1, all))
  # Print the result
  cat("Rows with missing values in all columns in", file_names[i], ":", missing_rows_
count, "\n")
  # Check if missing rows count is greater than 0
  if (missing rows count > 0) {
    filenames with missing rows <- c(filenames with missing rows, file names[i])
  }
}
```

```
## Rows: 634858 Columns: 13
## — Column specification
## Delimiter: ","
## chr (7): ride_id, rideable_type, start_station_name, start_station_id, end_...
## dbl (4): start_lat, start_lng, end_lat, end_lng
## dttm (2): started_at, ended_at
##
## i Use `spec()` to retrieve the full column specification for this data.
## i Specify the column types or set `show_col_types = FALSE` to quiet this message.
```

## Rows with missing values in all columns in 202205-divvy-tripdata.csv : 0

```
## Rows: 769204 Columns: 13
## — Column specification
## Delimiter: ","
## chr (7): ride_id, rideable_type, start_station_name, start_station_id, end_...
## dbl (4): start_lat, start_lng, end_lat, end_lng
## dttm (2): started_at, ended_at
##
## i Use `spec()` to retrieve the full column specification for this data.
## i Specify the column types or set `show_col_types = FALSE` to quiet this message.
```

## Rows with missing values in all columns in 202206-divvy-tripdata.csv : 0

```
## Rows: 823488 Columns: 13
## — Column specification
## Delimiter: ","
## chr (7): ride_id, rideable_type, start_station_name, start_station_id, end_...
## dbl (4): start_lat, start_lng, end_lat, end_lng
## dttm (2): started_at, ended_at
##
## i Use `spec()` to retrieve the full column specification for this data.
## i Specify the column types or set `show_col_types = FALSE` to quiet this message.
```

## Rows with missing values in all columns in 202207-divvy-tripdata.csv : 0

```
## Rows: 785932 Columns: 13
## — Column specification
## Delimiter: ","
## chr (7): ride_id, rideable_type, start_station_name, start_station_id, end_...
## dbl (4): start_lat, start_lng, end_lat, end_lng
## dttm (2): started_at, ended_at
##
## i Use `spec()` to retrieve the full column specification for this data.
## i Specify the column types or set `show_col_types = FALSE` to quiet this message.
```

## Rows with missing values in all columns in 202208-divvy-tripdata.csv : 0

```
## Rows: 701339 Columns: 13
## — Column specification —
## Delimiter: ","
## chr (7): ride_id, rideable_type, start_station_name, start_station_id, end_...
## dbl (4): start_lat, start_lng, end_lat, end_lng
## dttm (2): started_at, ended_at
##
## i Use `spec()` to retrieve the full column specification for this data.
## i Specify the column types or set `show_col_types = FALSE` to quiet this message.
```

## Rows with missing values in all columns in 202209-divvy-tripdata.csv : 0

```
## Rows: 558685 Columns: 13
## — Column specification
## Delimiter: ","
## chr (7): ride_id, rideable_type, start_station_name, start_station_id, end_...
## dbl (4): start_lat, start_lng, end_lat, end_lng
## dttm (2): started_at, ended_at
##
## i Use `spec()` to retrieve the full column specification for this data.
## i Specify the column types or set `show_col_types = FALSE` to quiet this message.
```

## Rows with missing values in all columns in 202210-divvy-tripdata.csv : 0

```
## Rows: 337735 Columns: 13
## — Column specification
## Delimiter: ","
## chr (7): ride_id, rideable_type, start_station_name, start_station_id, end_...
## dbl (4): start_lat, start_lng, end_lat, end_lng
## dttm (2): started_at, ended_at
##
## i Use `spec()` to retrieve the full column specification for this data.
## i Specify the column types or set `show_col_types = FALSE` to quiet this message.
```

## Rows with missing values in all columns in 202211-divvy-tripdata.csv : 0

```
## Rows: 181806 Columns: 13
## — Column specification
## Delimiter: ","
## chr (7): ride_id, rideable_type, start_station_name, start_station_id, end_...
## dbl (4): start_lat, start_lng, end_lat, end_lng
## dttm (2): started_at, ended_at
##
## i Use `spec()` to retrieve the full column specification for this data.
## i Specify the column types or set `show_col_types = FALSE` to quiet this message.
```

## Rows with missing values in all columns in 202212-divvy-tripdata.csv : 0

```
## Rows: 190301 Columns: 13
## — Column specification
## Delimiter: ","
## chr (7): ride_id, rideable_type, start_station_name, start_station_id, end_...
## dbl (4): start_lat, start_lng, end_lat, end_lng
## dttm (2): started_at, ended_at
##
## i Use `spec()` to retrieve the full column specification for this data.
## i Specify the column types or set `show_col_types = FALSE` to quiet this message.
```

## Rows with missing values in all columns in 202301-divvy-tripdata.csv : 0

```
## Rows: 190445 Columns: 13
## — Column specification
## Delimiter: ","
## chr (7): ride_id, rideable_type, start_station_name, start_station_id, end_...
## dbl (4): start_lat, start_lng, end_lat, end_lng
## dttm (2): started_at, ended_at
##
## i Use `spec()` to retrieve the full column specification for this data.
## i Specify the column types or set `show_col_types = FALSE` to quiet this message.
```

## Rows with missing values in all columns in 202302-divvy-tripdata.csv : 0

```
## Rows: 258678 Columns: 13
## — Column specification —
## Delimiter: ","
## chr (7): ride_id, rideable_type, start_station_name, start_station_id, end_...
## dbl (4): start_lat, start_lng, end_lat, end_lng
## dttm (2): started_at, ended_at
##
## i Use `spec()` to retrieve the full column specification for this data.
## i Specify the column types or set `show_col_types = FALSE` to quiet this message.
```

## Rows with missing values in all columns in 202303-divvy-tripdata.csv : 0

```
## Rows: 426590 Columns: 13
## — Column specification
## Delimiter: ","
## chr (7): ride_id, rideable_type, start_station_name, start_station_id, end_...
## dbl (4): start_lat, start_lng, end_lat, end_lng
## dttm (2): started_at, ended_at
##
## i Use `spec()` to retrieve the full column specification for this data.
## i Specify the column types or set `show_col_types = FALSE` to quiet this message.
```

## Rows with missing values in all columns in 202304-divvy-tripdata.csv : 0

### 3. Combining all data into one data frame

Checking if column names are same in all files \*

```
# Checking if column names are same in all files before combining the data
for (i in seq along(fileNames list)) {
  # Get the dataframe name
 df name <- names(fileNames list)[i]</pre>
 # Print the dataframe name
 cat("Dataframe:", df name, "\n")
  # Print the column names
 cat("Column Names:", colnames(fileNames_list[[df_name]]), "\n")
 # Check if column names match with the first dataframe
 if (i > 1) {
   if (!identical(colnames(fileNames_list[[df_name]]), colnames(fileNames_list[[1]])
)) {
      cat("Column names do not match with the first dataframe.\n")
    } else{
      cat("\n \n Column names do match with the first dataframe.\n\n\n")
 }
}
```

```
## Dataframe: m12 2205 d
## Column Names: ride_id rideable_type started_at ended_at start_station_name start_s
tation id end station name end station id start lat start lng end lat end lng member
casual
## Dataframe: m11 2206 d
## Column Names: ride id rideable type started at ended at start station name start s
tation id end station name end station id start lat start lng end lat end lng member
casual
##
##
    Column names do match with the first dataframe.
##
##
##
## Dataframe: m10_2207_d
## Column Names: ride id rideable type started at ended at start station name start s
tation id end station name end station id start lat start lng end lat end lng member
casual
##
##
    Column names do match with the first dataframe.
##
##
##
## Dataframe: m09 2208 d
## Column Names: ride_id rideable_type started_at ended_at start_station_name start_s
tation_id end_station_name end_station_id start_lat start_lng end_lat end_lng member_
```

```
casual
##
##
    Column names do match with the first dataframe.
##
##
##
## Dataframe: m08 2209 d
## Column Names: ride_id rideable_type started_at ended_at start_station_name start_s
tation id end station name end station id start lat start lng end lat end lng member
casual
##
##
    Column names do match with the first dataframe.
##
##
##
## Dataframe: m07 2210 d
## Column Names: ride_id rideable_type started_at ended_at start_station_name start_s
tation id end station name end station id start lat start lng end lat end lng member
casual
##
##
##
    Column names do match with the first dataframe.
##
##
## Dataframe: m06 2211 d
## Column Names: ride id rideable type started at ended at start station name start s
tation id end station name end station id start lat start lng end lat end lng member
casual
##
##
    Column names do match with the first dataframe.
##
##
##
## Dataframe: m05 2212 d
## Column Names: ride_id rideable_type started_at ended_at start_station_name start_s
tation id end station name end station id start lat start lng end lat end lng member
casual
##
##
##
    Column names do match with the first dataframe.
##
##
## Dataframe: m04_2301_d
## Column Names: ride id rideable type started at ended at start station name start s
tation_id end_station_name end_station_id start_lat start_lng end_lat end_lng member_
casual
##
##
##
    Column names do match with the first dataframe.
##
```

```
##
## Dataframe: m03 2302 d
## Column Names: ride_id rideable_type started_at ended_at start_station_name start_s
tation id end station name end station id start lat start lng end lat end lng member
casual
##
##
##
    Column names do match with the first dataframe.
##
##
## Dataframe: m02 2303 d
## Column Names: ride_id rideable_type started_at ended_at start_station_name start_s
tation_id end_station_name end_station_id start_lat start_lng end_lat end_lng member
casual
##
##
##
    Column names do match with the first dataframe.
##
##
## Dataframe: m01 2304 d
## Column Names: ride id rideable type started at ended at start station name start s
tation id end station name end station id start lat start lng end lat end lng member
casual
##
##
   Column names do match with the first dataframe.
# Check was successful, now combining all files into one
all trips last year <- bind rows(fileNames list)
# Calculate the number of null values in each column
```

```
# Calculate the number of null values in each column
null_counts <- colSums(is.na(all_trips_last_year))

# Calculate the percentage of null values in each column
null_percentages <- (null_counts / nrow(all_trips_last_year)) * 100

# Print the number and percentage of null values for each column
for (i in seq_along(null_counts)) {
   cat("Column:", names(null_counts)[i], "\n")
   cat("Number of null values:", null_counts[i], "\n")
   cat("Percentage of null values:", null_percentages[i], "%\n\n")
}</pre>
```

```
## Column: ride_id
## Number of null values: 0
## Percentage of null values: 0 %
##
```

```
## Column: rideable type
## Number of null values: 0
## Percentage of null values: 0 %
##
## Column: started at
## Number of null values: 0
  Percentage of null values: 0 %
##
## Column: ended at
## Number of null values: 0
## Percentage of null values: 0 %
## Column: start_station_name
## Number of null values: 832009
##
  Percentage of null values: 14.20038 %
##
## Column: start_station_id
## Number of null values: 832141
  Percentage of null values: 14.20263 %
##
##
## Column: end station name
## Number of null values: 889661
## Percentage of null values: 15.18436 %
##
## Column: end station id
## Number of null values: 889802
## Percentage of null values: 15.18677 %
##
## Column: start lat
## Number of null values: 0
## Percentage of null values: 0 %
##
## Column: start lng
## Number of null values: 0
## Percentage of null values: 0 %
##
## Column: end_lat
## Number of null values: 5973
## Percentage of null values: 0.1019447 %
##
## Column: end lng
## Number of null values: 5973
##
  Percentage of null values: 0.1019447 %
##
## Column: member casual
## Number of null values: 0
## Percentage of null values: 0 %
```

#### Errors and Inconsistencies in the Data

- Station Name and id columns have a lot of null values which accounts for almost 15% of total data
- Trip end latitude and longitude data are also missing in 5953 rows which is very negligible as it accounts for 0.1% of total data
- Latitude and longitude data is unnecessary and will be removed from the dataset

# **Data Cleaning**

#Checking the structure of dataset
str(all\_trips\_last\_year)

```
## spc_tbl_ [5,859,061 × 13] (S3: spec_tbl_df/tbl_df/tbl/data.frame)
## $ ride_id
                        : chr [1:5859061] "EC2DE40644C6B0F4" "1C31AD03897EE385" "1542
FBEC830415CF" "6FF59852924528F8" ...
## $ rideable type : chr [1:5859061] "classic bike" "classic bike" "classic bike
" "classic_bike" ...
                    : POSIXct[1:5859061], format: "2022-05-23 23:06:58" "2022-05-
## $ started at
11 08:53:28" ...
   $ ended at
                      : POSIXct[1:5859061], format: "2022-05-23 23:40:19" "2022-05-
##
11 09:31:22" ...
   $ start_station_name: chr [1:5859061] "Wabash Ave & Grand Ave" "DuSable Lake Shor
e Dr & Monroe St" "Clinton St & Madison St" "Clinton St & Madison St" ...
   $ start_station_id : chr [1:5859061] "TA1307000117" "13300" "TA1305000032" "TA13
05000032" ...
   $ end station name : chr [1:5859061] "Halsted St & Roscoe St" "Field Blvd & Sout
h Water St" "Wood St & Milwaukee Ave" "Clark St & Randolph St" ...
   $ end_station_id : chr [1:5859061] "TA1309000025" "15534" "13221" "TA130500003
##
0" ...
## $ start_lat
                      : num [1:5859061] 41.9 41.9 41.9 41.9 ...
## $ start lng
                      : num [1:5859061] -87.6 -87.6 -87.6 -87.6 -87.6 ...
                      : num [1:5859061] 41.9 41.9 41.9 41.9 ...
## $ end lat
## $ end lng
                      : num [1:5859061] -87.6 -87.6 -87.7 -87.6 -87.7 ...
   $ member casual
                      : chr [1:5859061] "member" "member" "member" ...
##
    - attr(*, "spec")=
##
##
     .. cols(
         ride id = col character(),
##
         rideable_type = col_character(),
##
##
         started_at = col_datetime(format = ""),
##
         ended at = col datetime(format = ""),
##
         start station name = col character(),
         start station id = col character(),
##
##
         end station name = col character(),
     . .
##
         end_station_id = col_character(),
##
         start lat = col double(),
##
         start lng = col double(),
##
         end lat = col double(),
         end_lng = col_double(),
##
         member_casual = col_character()
##
##
     .. )
##
    - attr(*, "problems")=<externalptr>
```

#### Data clean up plan:

- New columns will be added for better analysis
  - Extracting date column from started\_at
  - Extracting day, month and year from the date column
  - Adding Day of the week name to identify weekday vs weekend trend
- Checking the range of data and find out if they are not within the selected 12-month range
- Calculate ride\_length to identify trends in how long riders use the bikes

```
#Adding new columns
all_trips_last_year$date <- as.Date(all_trips_last_year$started_at)
all trips last year $month <- format(as.Date(all trips last year $date), "%m")
all trips last year$monthName <- month(as.Date(all trips last year$date), label = TRU
E, abbr = FALSE)
all_trips_last_year$day <- format(as.Date(all_trips_last_year$date), "%d")</pre>
all_trips_last_year$year <- format(as.Date(all_trips_last_year$date), "%Y")
all trips last year$day of week <- format(as.Date(all trips last year$date), "%A")
# Check if the trip times are within the range
cat("Earliest Trip Start: ", as.character(min(all_trips_last_year$started_at)))
## Earliest Trip Start: 2022-05-01 00:00:06
cat("\nLatest Trip Start: :",as.character(max(all trips last year$started at)))
##
## Latest Trip Start: : 2023-04-30 23:59:05
cat("\n\nEarliest Trip End: ",as.character(min(all_trips_last_year$ended_at)))
##
##
## Earliest Trip End: 2022-05-01 00:05:17
cat("\nLatest Trip End: ",as.character(max(all_trips_last_year$ended_at)))
## Latest Trip End: 2023-05-03 10:37:12
# Add a "ride_length" calculation to all_trips (in seconds)
all_trips_last_year$ride_length <- difftime(all_trips_last_year$ended_at,all trips la
st_year$started_at)
# Convert "ride length" to numeric so we can run calculations on the data
all_trips_last_year$ride_length <- as.numeric(as.character(all_trips_last_year$ride_l
is.numeric(all trips last year$ride length)
```

```
#Checking the range of ride_length
print(min(all_trips_last_year$ride_length))

## [1] -621201

print(max(all trips last year$ride length))
```

```
## [1] 2483235
```

```
cat("Count of Negative values: ", sum(all_trips_last_year$ride_length < 0))</pre>
```

```
## Count of Negative values: 103
```

- It is found that ride\_length values are negative, which should be zero or more
- Only 103 entires are found negative, which is very negligible

```
# Columns with "HQ QR" values in start_station_name is for QA purposes which needs to
be removed along with negative ride_length values
# Creating a new version of the dataframe (v2) since data is being removed
all_trips_last_year_v2 <- all_trips_last_year[!(all_trips_last_year$start_station_nam
e == "HQ QR" | all_trips_last_year$ride_length < 0), ]</pre>
```

```
# Count rows where every column has missing values
print(sum(rowSums(is.na(all_trips_last_year_v2)) == ncol(all_trips_last_year_v2)))
```

```
## [1] 831984
```

```
# Remove rows with missing values in every column
all_trips_last_year_v2 <- all_trips_last_year_v2[!rowSums(is.na(all_trips_last_year_v
2)) == ncol(all_trips_last_year_v2), ]
# Count rows where every column has missing values
print(sum(rowSums(is.na(all_trips_last_year_v2)) == ncol(all_trips_last_year_v2)))</pre>
```

```
## [1] 0
```

## Data Analysis Stage:

- ride\_length attribute will be the main focus of this analysis
- We will aggregate the data to find out the mean, max and min of ride\_length by member type (Casual or Member)

- We will identify how many times bike services are used by month or by day of the week
- We will also identify the nature of the ride\_length based on month, day of the week and membership type

```
# Notice that the days of the week are out of order. Let's fix that.
all_trips_last_year_v2$day_of_week <- ordered(all_trips_last_year_v2$day_of_week, lev
els=c("Sunday", "Monday", "Tuesday", "Wednesday", "Thursday", "Friday", "Saturday"))
all_trips_last_year_v2$monthName <- ordered(all_trips_last_year_v2$monthName, levels=
c("May", "June", "July", "August", "September", "October", "November", "December", "J
anuary", "February", "March", "April"))
all_trips_last_year_v2$monthName <- ordered(all_trips_last_year_v2$monthName, levels=
c("January", "February", "March", "April", "May", "June", "July", "August", "Septembe
r", "October", "November", "December"))</pre>
```

```
#Summarizing data for ride_length columnm
summary(all_trips_last_year_v2$ride_length)
```

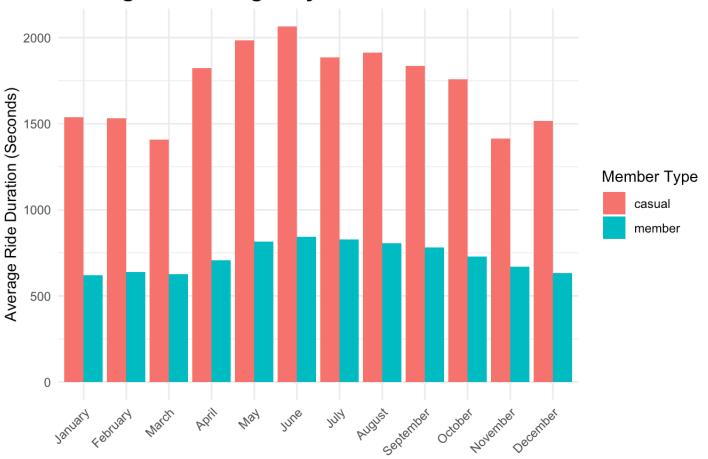
```
## Min. 1st Qu. Median Mean 3rd Qu. Max.
## 0 347 611 1196 1099 2483235
```

```
## # A tibble: 2 × 4
     member_casual number_of_rides average_duration total_duration
##
                                                <dbl>
##
     <chr>
                              <int>
                                                                <dbl>
## 1 member
                                                 755.
                                                           2275366275
                            3015036
## 2 casual
                            2011938
                                                1858.
                                                           3738293609
```

```
## Member Type Max Ride Length
## 1 casual 2483235
## 2 member 93580
```

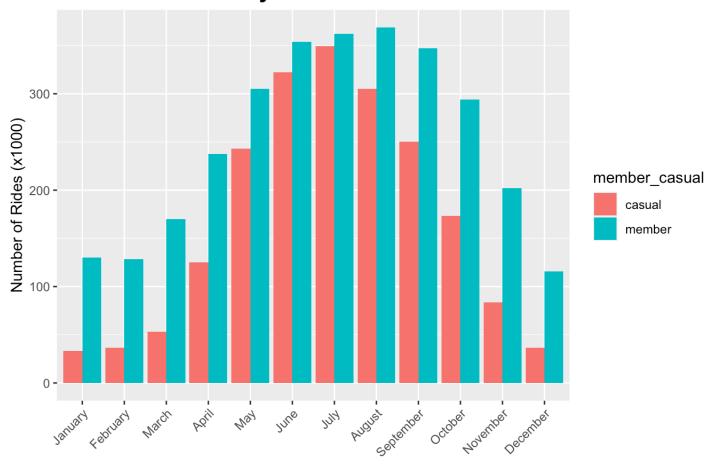
```
## Member Type Min Ride Length
## 1 casual 0
## 2 member 0
```

### **Average Ride Length by Month**



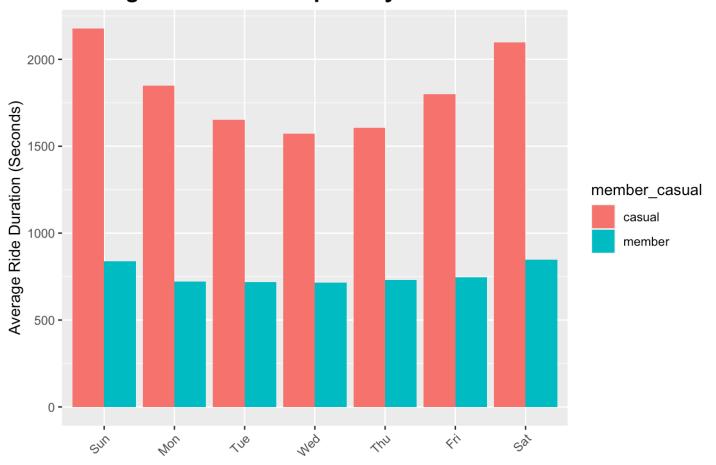
## `summarise()` has grouped output by 'member\_casual'. You can override using the
## `.groups` argument.

#### **Number of Rides by Month**

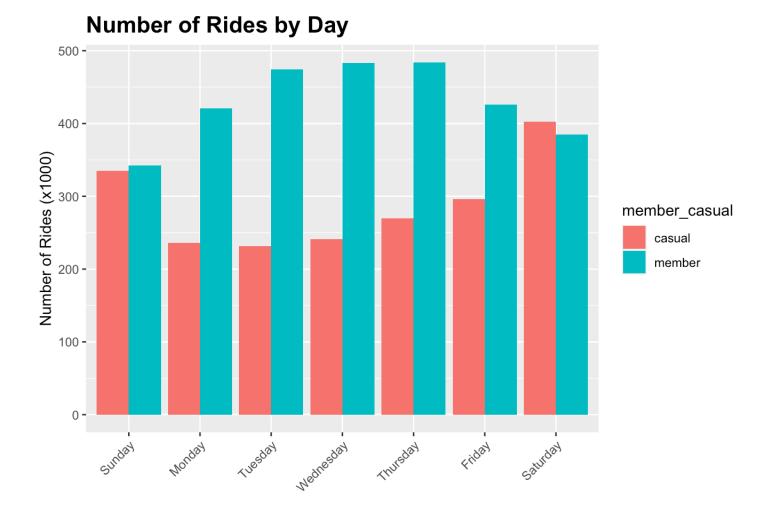


## `summarise()` has grouped output by 'member\_casual'. You can override using the ## `.groups` argument.

#### **Average Ride Duration per Day**



 $\mbox{\#\#}$  `summarise()` has grouped output by 'member\_casual'. You can override using the  $\mbox{\#\#}$  `.groups` argument.



## **Recommendations to Buinsess:**

# How do annual members and casual riders use Cyclistic bikes differently?

- It appears that casual riders are most active in the summer season and their ride length is twice as long as the members
- Members use the service consistently throughout the week as well as throughout the year; while casual riders use the service mostly on weekends and are most active during summer
- Members are generating a higher number of rides while casual riders generate longer rides

# How can Cyclistic use digital media to influence casual riders to become members?

- They should launch summer passes and attract them to become a regular member for straight four months and then slowly attract them to buy a new extension pass for the fall season
- They should offer a discounted price to casual riders to buy summer passes, and an even more lucrative offer to buy an extension to the fall season

# Why would casual riders buy Cyclistic annual memberships?

- Discounted offers should encourage them to buy a season pass, which should bend their mind to think about using bike share on a regular basis
- When members accept lucrative offers to extend their pass to the fall season, they would get used to using the service on a semi-annual basis
- Riders who will be using bike service for exercise will surely use this to stay fit and will nurture this new habit
- Riders will also realize the potential to use this service for their commute and might think of switching to this mode of transportation to save money and will become a member