How we prepared the data for our analysis:

**Weather**:

* We grabbed the historical weather data for 2017 from Open Weather Map
* Data was provided on an hourly basis
* We aggregated the data per day to get the following information:
  + Average temperature
  + Average precipitation
  + Most common weather description for each day (cloudy, mist, rain, etc.)

**Bike** **Share** **Data**:

* Bike Share data provided the following information per each trip:
  + Trip ID
  + Trip duration in seconds
  + Start location as street intersection
  + End location as street intersection
  + User Type (member/casual)
* Bike Share data contained information on about 1.5 million trips
* We used Google API to lookup latitude and longitude for distinct list of drop off / pick up bike stations (about 300-400 API calls)
* We used the above coordinates to calculate the distance (linear straight line) between the unique combinations of drop off / pick up locations (about 60,000 calculations)

**Analysis**

Once we had all 3 data sets, we merged the data and calculated the following:

* + Total number of trips per day
  + Total trip duration per day
  + Average trip duration per day
  + Total distance traveled per day
  + Average distance travelled per day
  + Average temperature per day
  + Average precipitation per day
  + Weather description per day