

# Dashboard Plan

## Dashboard Elements

1. Trips over time (line chart)
2. Most popular start and end stations (bar chart)
3. Trip duration distribution (histogram)
4. Heatmap of rides by day of week and hour
5. Weather vs. number of rides (scatter plot or line chart with overlay)

## Guiding Questions & Visualizations

1. **What are the trends in bike usage over time (daily or monthly)?**
  - **Visualization:** Line chart of trips per day/month
2. **Which start and end stations are used most?**
  - **Visualization:** Horizontal bar chart for top 10 stations
3. **What is the distribution of trip durations?**
  - **Visualization:** Histogram of trip duration in minutes
4. **When are bikes used the most during the week/day?**
  - **Visualization:** Heatmap (days of week vs. hours of day)
5. **How does weather affect the number of rides? (*NOAA data*)**
  - **Visualization:** Line chart comparing daily temperature or precipitation with number of rides
  - **Explanation:** Merge ride data with NOAA weather data (e.g., temperature, rainfall) and analyze correlation.