**PROJECT:** 2020 NYC Motor Vehicle Crash

**Project Description/Outline**

An overview of the 2020 Motor Vehicle Crashes in NYC. The dashboard will host 3 visualizations of data – double bar/line chart, a double pie chart, a bar chart, and a mapbox iframe.

**Libraries/Languages**

* JavaScript (VS Code)
  + JQuery
  + D3
  + Chart.js/AMCharts
* HTML (VS Code)
* Python/Pandas (Juptyer Notebook)
* PostGresQL/MySQL

**Datasets to be used**

* [NYC Open Data - Motor Vehicle Crashes](https://data.cityofnewyork.us/Public-Safety/Motor-Vehicle-Collisions-Crashes/h9gi-nx95/data)
  + Use an API call with JQuery
  + Supplied CSV file [here](../../Downloads/Motor_Vehicle_Collisions_-_Crashes-2.csv) to check data used quickly
* GeoJSON File of NYC borough boundaries
  + <https://data.cityofnewyork.us/City-Government/Borough-Boundaries/tqmj-j8zm>
  + Using boundaries to create borough specific colors and customization for map

**Outline:**

1. Preprocessing data – Pull CSV from NYC OpenData
2. Extract/Transform – Use Python to clean crash data
3. Use PostGresQL as database to hold tables
4. Use VS Code to create HTML and Javascript Files for Dashboard
5. Host via Gitlab Pages or Heroku

**Dashboard Output:**

1. BarChart/Line Chart of Crash/Injury Totals with Normalization User Selection
2. Map with all 5 boroughs and crash locations
3. Bar Chart of Contributing Factors
4. Double Pie Chart of borough Crash totals with user selected borough