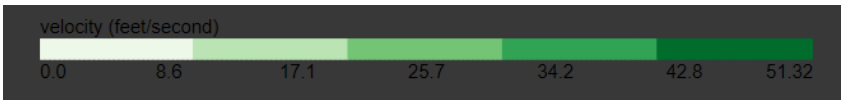
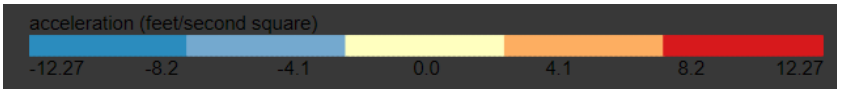
This week I dived into the data analysis & visualization part.

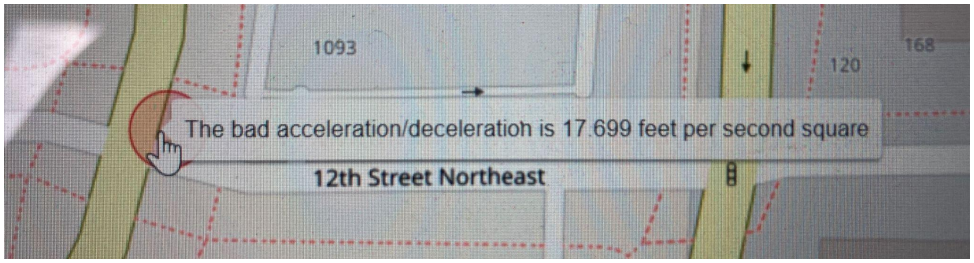
1. Created a list of latitude and longitude pairs to represent the instantaneous points of locations of a vehicle
2. Categorized velocity values into 5 classes (5 sequential colors); created a color coded line based on these 5 classes to visualize velocity of the vehicle



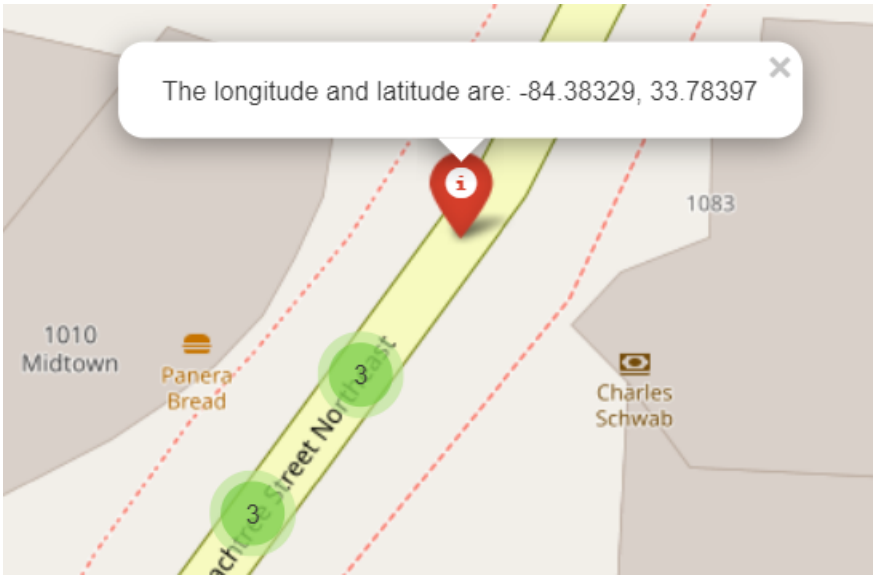
3. Categorized acceleration values into 5 classes (5 diverging colors); created a color coded line based on these 5 classes to visualize velocity of the vehicle



4. Found and identified acceleration values that exceed the safe range; visualized them as red circles with a pop up message



5. Use clustered markers to show the instant locations of the vehicle



Next step:

1. Try to find a basemap that I can zoom in to >=19 levels so I can see the lanes; it would be best if this basemap was free to access
2. Try to implement a scale bar and a legend in this map
3. Try to implement a toggle on/off function to select multiple layers