


Group 7: Mass Ave Pollution

Mia Huebscher, Qianying Hu, Ashvika Boopathy



Datasets



- Boston 311 Program data provided by the city of Boston (<https://data.boston.gov/dataset/311-service-requests>)
 - Commute type prevalence data provided by the United States Census Bureau (<https://data.census.gov/table?q=transportation+in+Boston+city,+Massachusetts&tid=ACSDT1Y2021.B08141>)
 - Air quality data provided by the United States Environmental Protection Agency (<https://www.epa.gov/outdoor-air-quality-data/air-quality-index-daily-values-report>)
- 

Issue and Goal

Issue: Public attachment towards cars leads to streetscape congestion and increases in air and noise pollution

Goal: Quantify the effects of cars on pollution in the neighborhoods surrounding Mass Ave

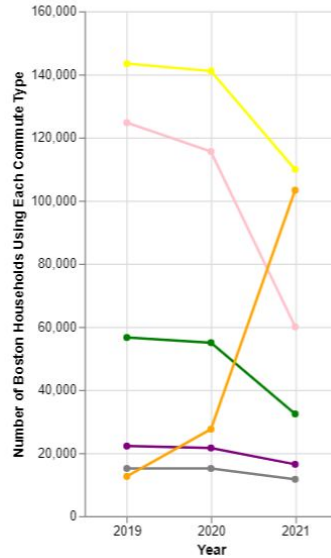


Static Visualization #1

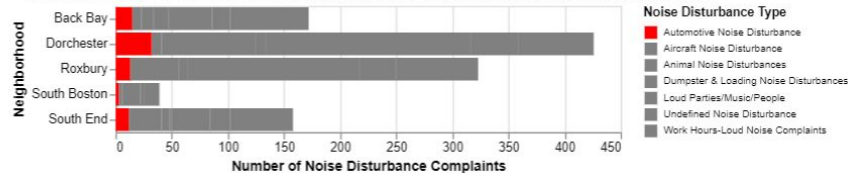
The Relationship Between Air Quality in Boston and the Popularity of Various Types of Commutes During the Years 2019, 2020, and 2021

Commute Type

- Drove Alone
- Carpooled
- Public Transit
- Walked
- Taxicab, motorcycle, bicycle, or other means
- Worked At Home

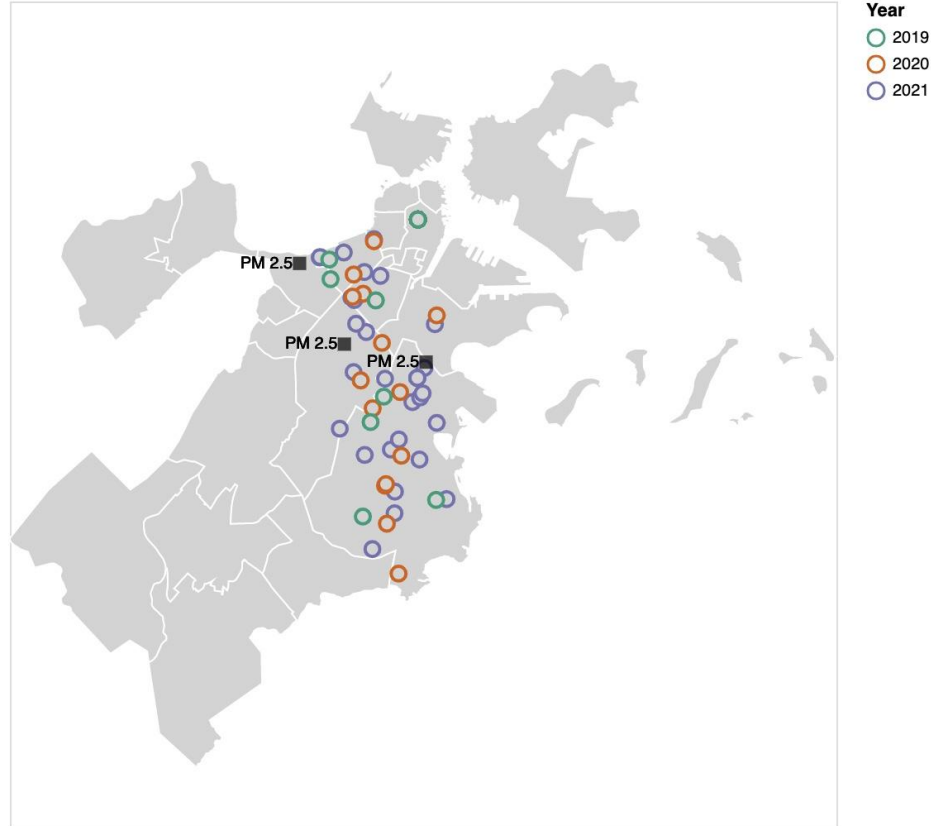


The Portion of Noise Pollution Created by Automobiles in Various Areas Around Mass Ave



Static Visualization #2 - Map

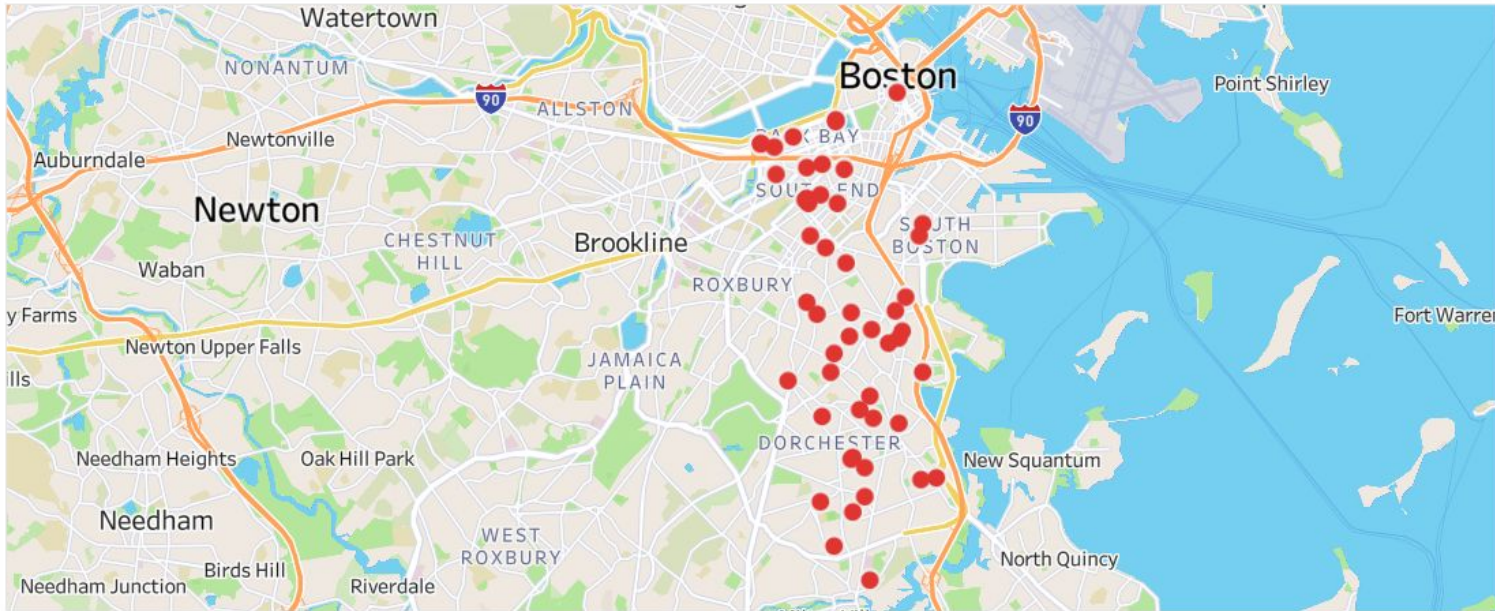
Locations of Noise Complaint by Automobiles & Average PM 2.5 Levels from 2019-2021 in Suffolk County



Static Visualization #3

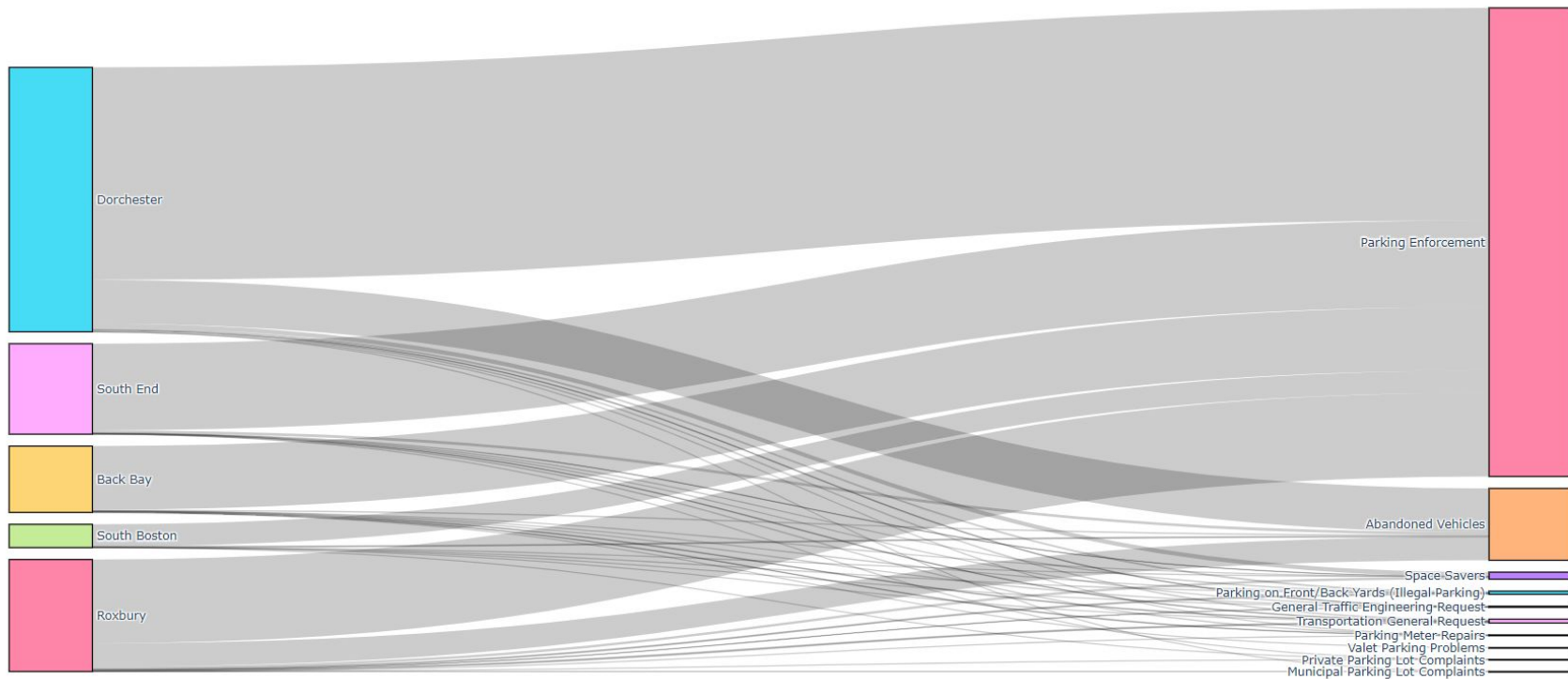
Locations of Noise Disturbances Regarding Automobiles Reported Around Massachusetts Avenue

Type of Complaint
■ Automotive Noise Dis...



Static Visualization #4

Sankey Diagram Mapping Neighborhoods to Complaints Regarding Parked Vehicles, Abandoned Vehicles, and the Flow of Traffic





Link to Website



<https://pages.github.khoury.northeastern.edu/miahuebscher/miahuebscher.github.io/>

