

Individual Final Essay

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ALY 6070: Communication and Visualization for Data Analytics

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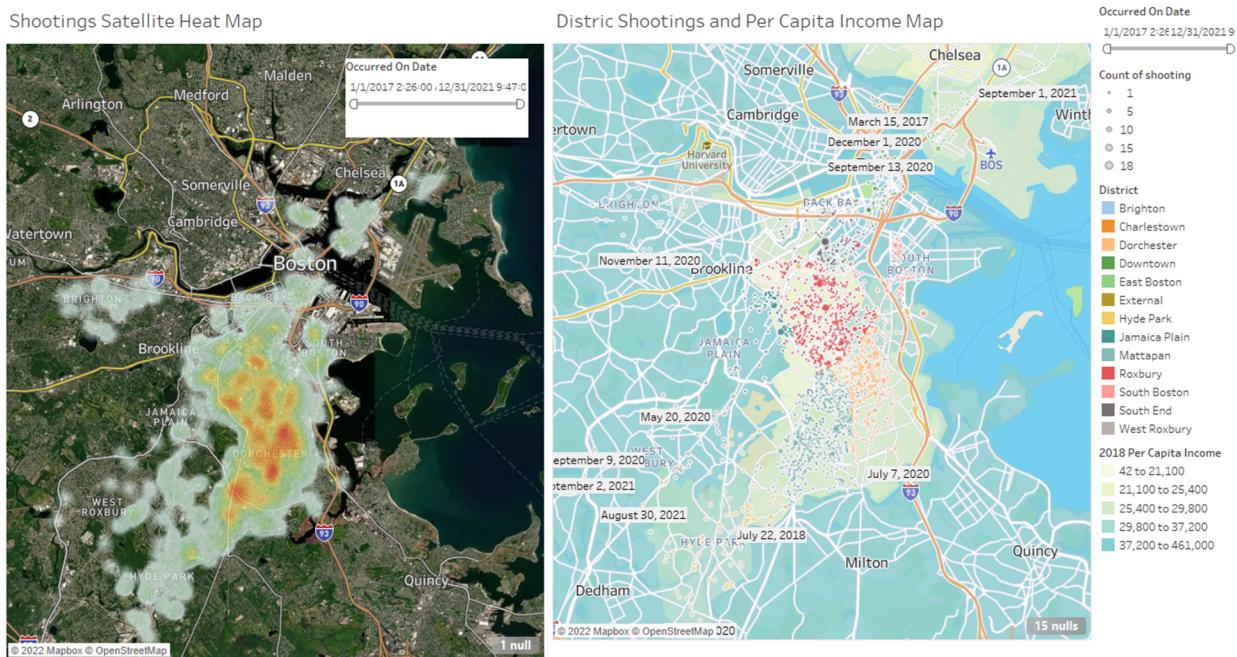
February 19th, 2022

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For the final group dashboard, I created maps such that the viewer can visualization shootings reported by the Boston Police department from 2017 to 2021.

Figure 1

Boston Shootings (2017-2021)



The heat map effectively demonstrates the areas with the highest concentration of shootings. We can see that areas of Dorchester, Mattapan, and Roxbury seem to have the highest concentration of shootings.

The map on the right with markers demonstrating shooting reports that are colored for different neighborhoods is useful for finding specific incidents and further examining the concentration of shootings. I added a per capita income map layer from the 2018 US Census to demonstrate that areas in Boston with low per capita income tend to have high concentration of shootings.

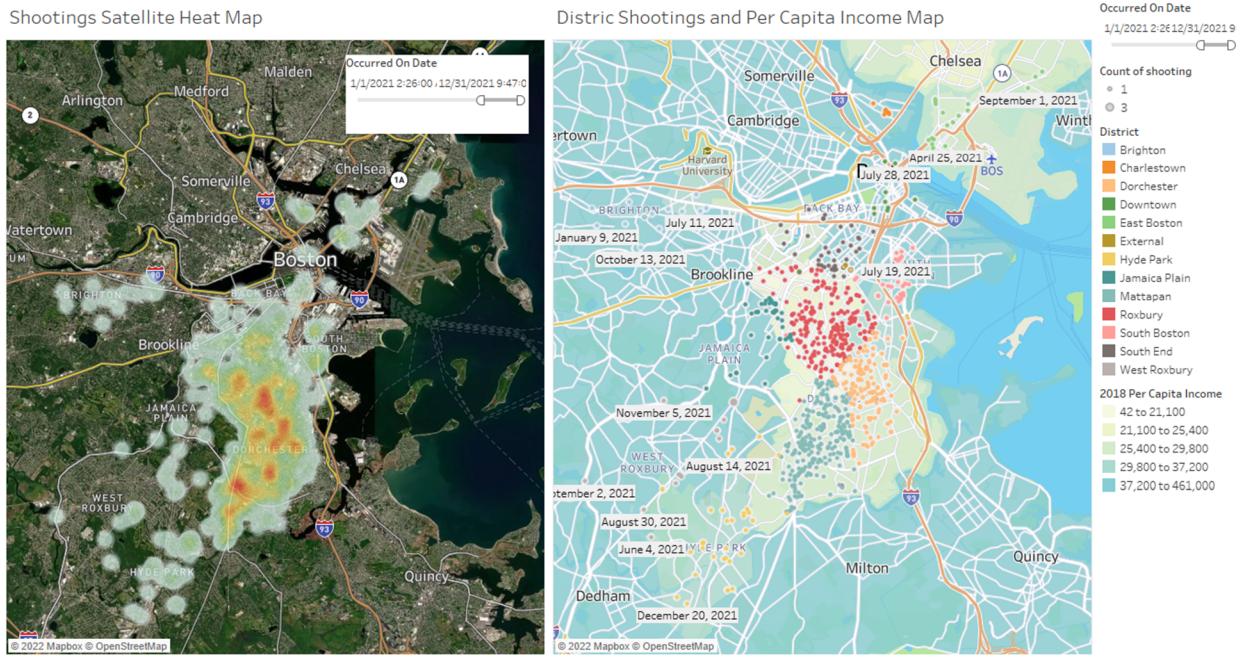
By utilizing the time filter, we can get a better idea of shooting distribution in a particular year, month, week, and day. Furthermore, by interacting with the maps, we can zoom in areas of interest to get a better understanding of the data.

These maps were well complimented by my group members visualizations as well. Tianye created a shooting by district bar graph that displayed total and annual shootings. His bar graph confirmed my assumption that Dorchester, Roxbury, and Mattapan seem to be suffering

the most from gun violence. The graph accompanied by my map has also demonstrated that shootings in these areas have increased in recent years.

Figure 2

Boston Shootings (2021)



Shootings in these neighborhoods have spiked in 2020, and in 2021, they are more than twice what they were in 2017. This is worrisome especially for me who grew up just outside Boston and have friends who live in Dorchester. These areas are especially diverse, which is hard to find in Boston and it is unfortunate to see that per capita income remains low and violent crimes are high. I hope that as datasets like these are utilized, Boston Police Department and others will dedicate resources to improving these neighborhoods.