

Homework Week 10 25/10/2020

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url: <https://ailuropanda.github.io/FIT3179/Assignment/Website/>

Domain Why and Who:

The domain of this dashboard is the crimes in Washington DC and the relationship between crimes committed and possible extenuating factors that may influence the crime rates in different census areas. This visualisation and website aims to capture the attention of any individual possibly interested in how poverty and low incomes may possible influence and determine the crime rates within different sectors of a large city. The aim of this visualisation is to allow any individual slightly interested in the topic to see the basic relationships between crime and poverty as well as seeing crime as a whole within Washington DC.

What Data was Used:

The data used for this website was from the opendata.dc.gov website run by the government of Washington DC, and was provided with both shapefiles as well as CSV files which were then transformed accordingly to their required states. The aim of the original dataset was to provide individuals an understanding of the city they had lived in for as long as the census data was running. The dataset utilised had many different dimensions of data however they were often split in multiple CSV's and were often not in uniform formats, requiring extensive data transformation to blend the data together. This was found with the case of Crime data being individual crimes and often not referring to the correct Census Key whilst ACS data being poverty, income and unemployment data had different census keys, to combat this a python script was written to transform the data multiple times into formats feasible to be visualised together.

Utilisation of different idioms, marks and channels and their purpose (How):

Chloropleth Maps

Screenshots

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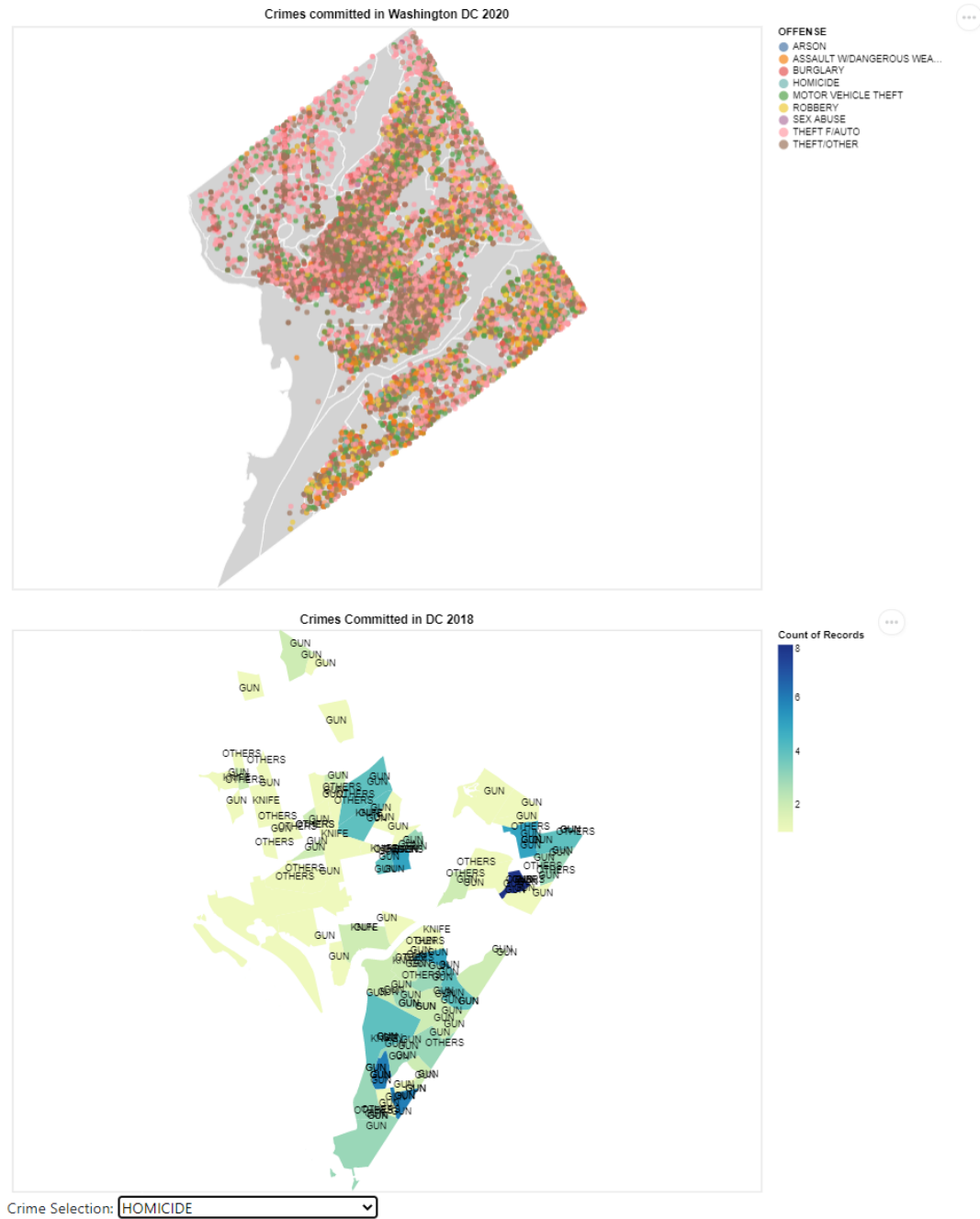


Figure 1: Visualisation Screenshot