2021 Crime in Washington, DC



Topic Outline

- Our Project & Data Sources
- When?
- Where?
- What?

Purpose of our Project

Awareness

Understanding patterns of crime in our nation's capital

Safety

 To have second thought when visiting certain areas, or during times of the day to lower potential harm to oneself.

Data Sources

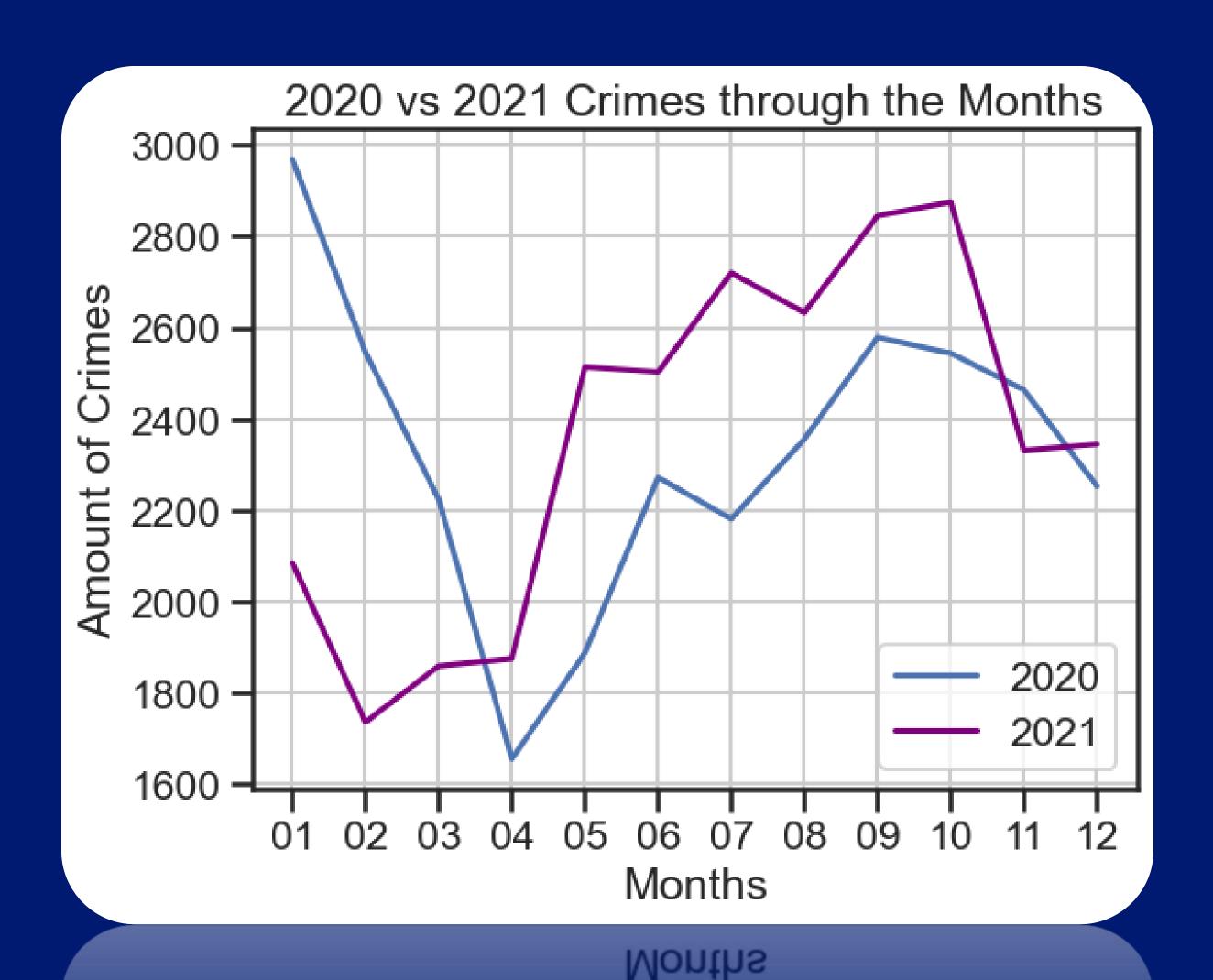
- 2021 Crime Incident Data https://opendata.dc.gov/datasets/619c5bd17ca2411db0689bb0a211783c 3/explore
- DC Wards https://opendata.dc.gov/datasets/wards-from-2022/explore
- 2020 Crime Incident Data https://opendata.dc.gov/datasets/f516e0dd7b614b088ad781b0c4002331_2/explore

When do crimes take place?

- o We can see here that crimes throughout the Evening Shift are greater.
- o The Midnight Shift being lowest for both years.
- o 2021 Day Shift crimes having a larger total amount than 2020's Day Shift.



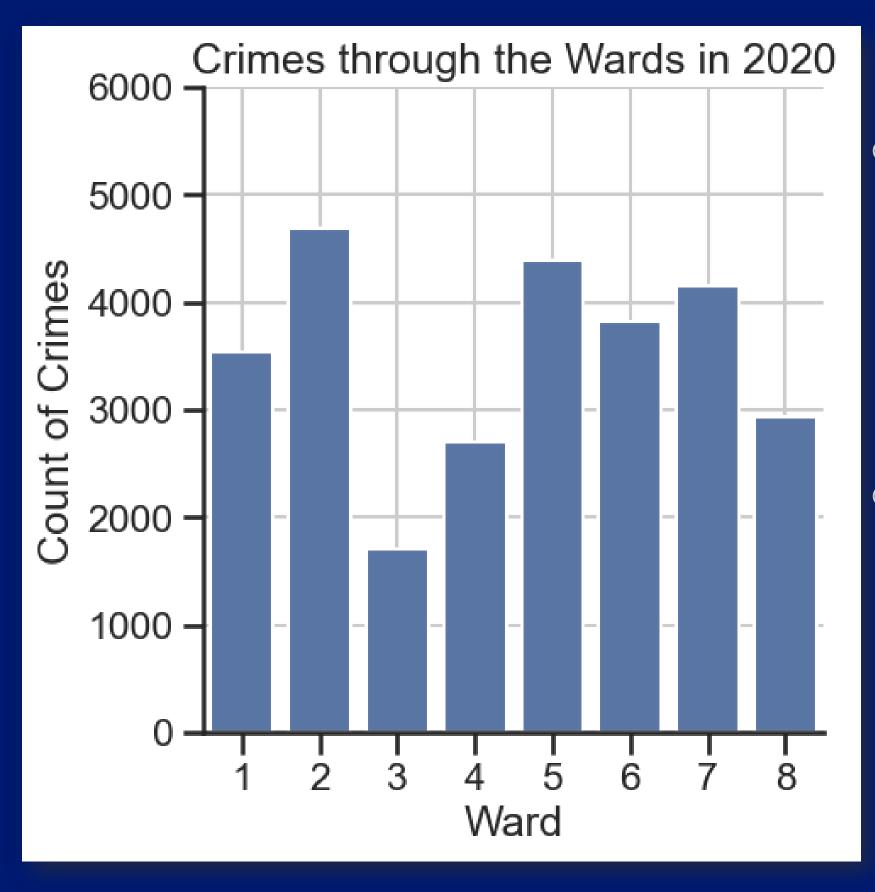
Crime Throughout the Months of 2020 and 2021



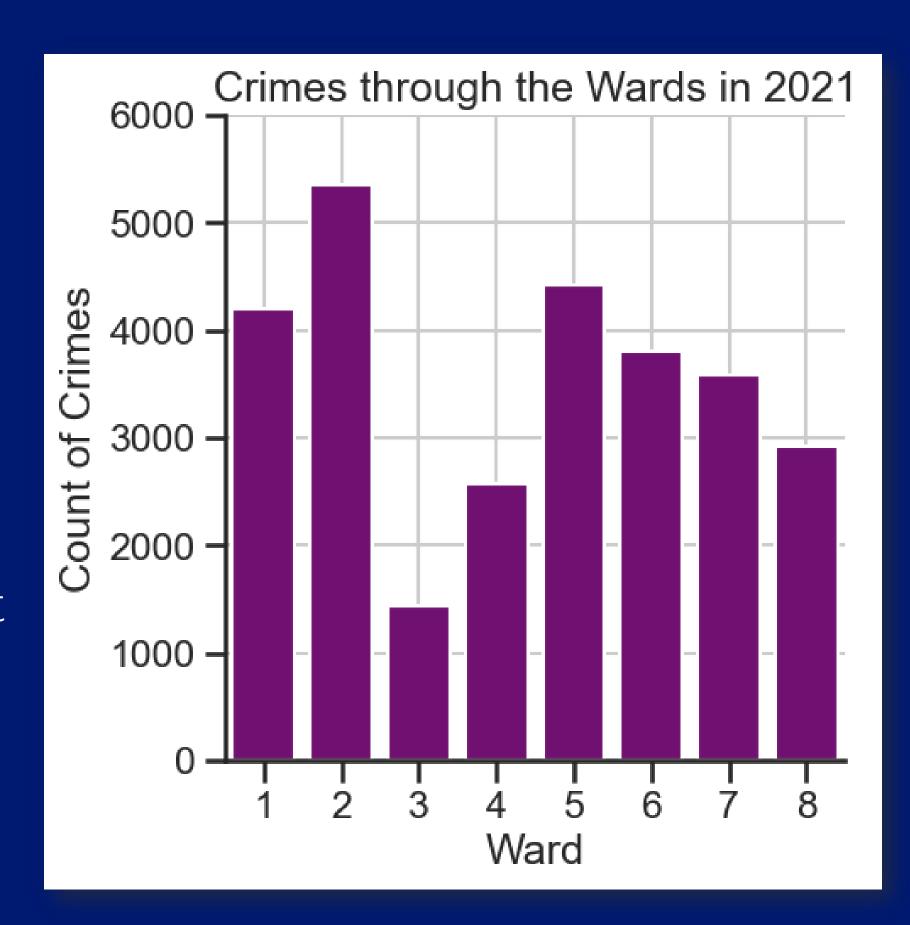
01 02 03 04 05 06 07 08 09 10 11 12

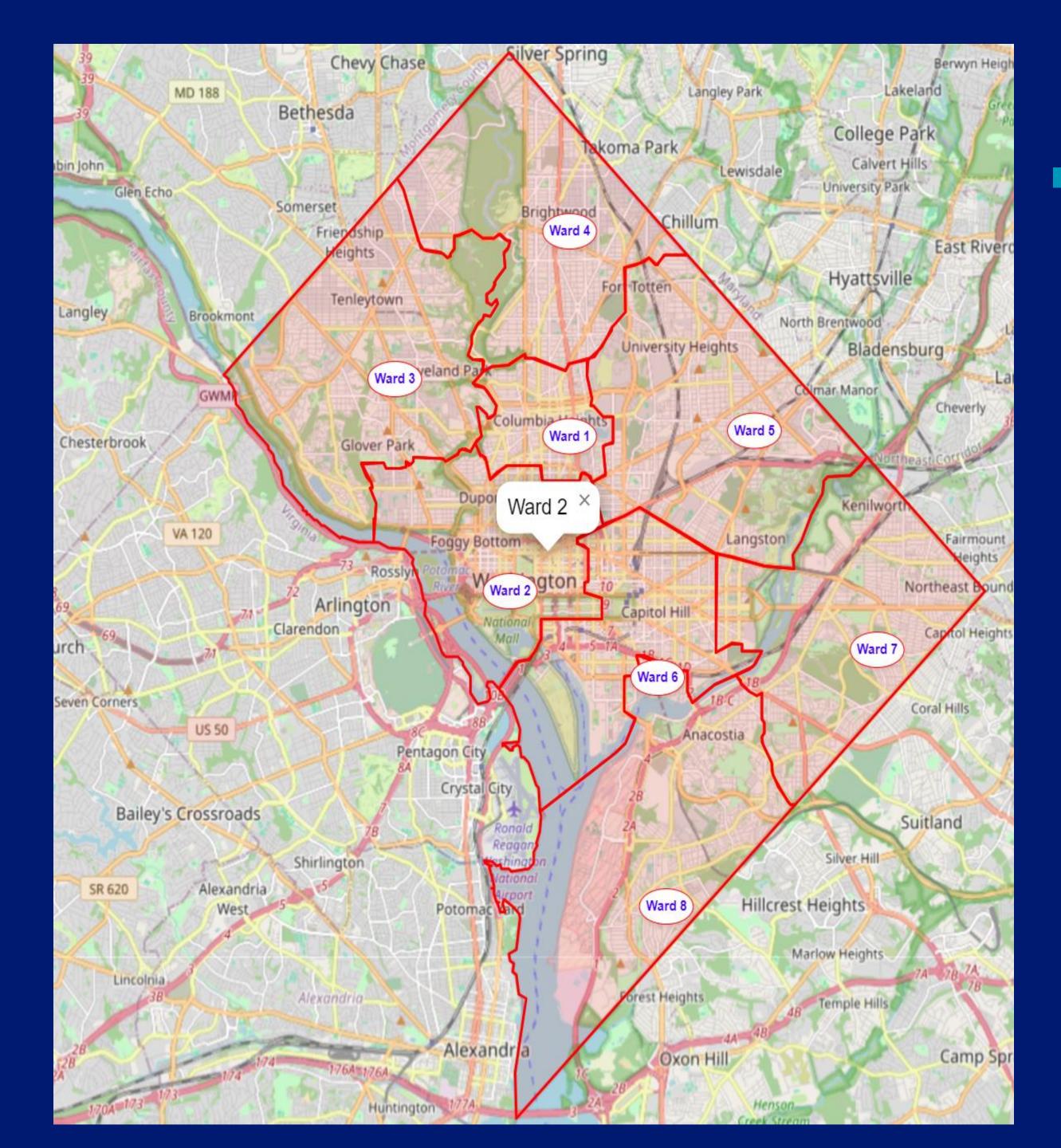
- 2020 had a massive spike at the beginning of the year in January, almost 3,000 reported crimes.
- Throughout the years the crime rates fluctuate while remaining at a higher value till the end of the year.
- April being the lowest in crimes for 2020, while February is lowest for 2021.
- You can dictate that it is safe to witness the Cherry Blossoms blooming when visiting in April.

Ward Crimes Throughout the Years



- Crimes within some Wards have simmered when comparing both years.
- o 2021 having Ward 1 & 2 surpassing 2020 while the rest are equal or lower than the previous year's amount.



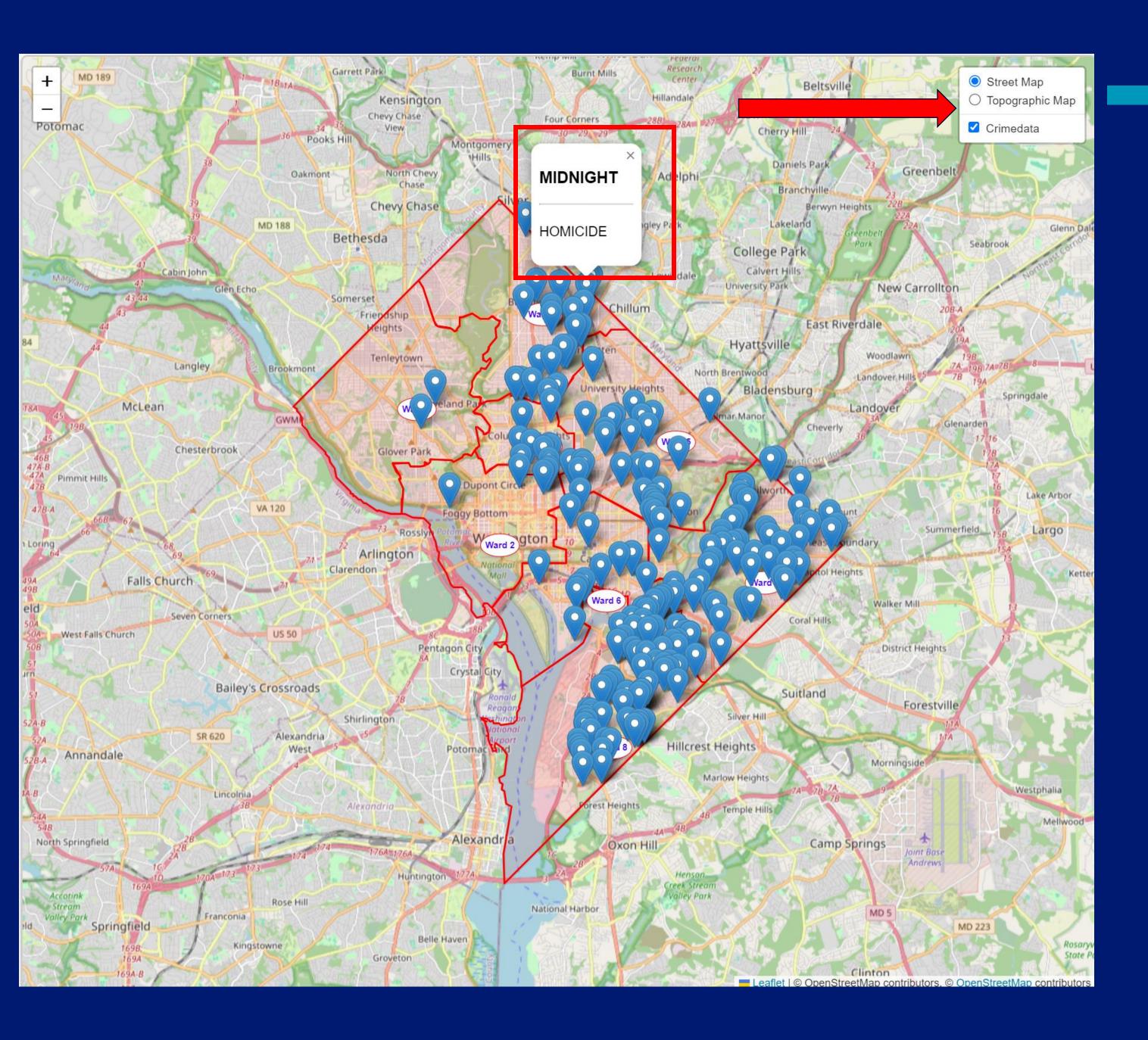


Boundaries Identified

Utilizing geojson to define the polygon params for each Ward, or section of D.C. allows us to incorporate the colored overlay within our research area

Tile Layer Features

- Bind-popup that features Ward name
- event listener to open the modal with ward info
- Geo-json boundaries & color tile Layer



Multi –Layered Maps

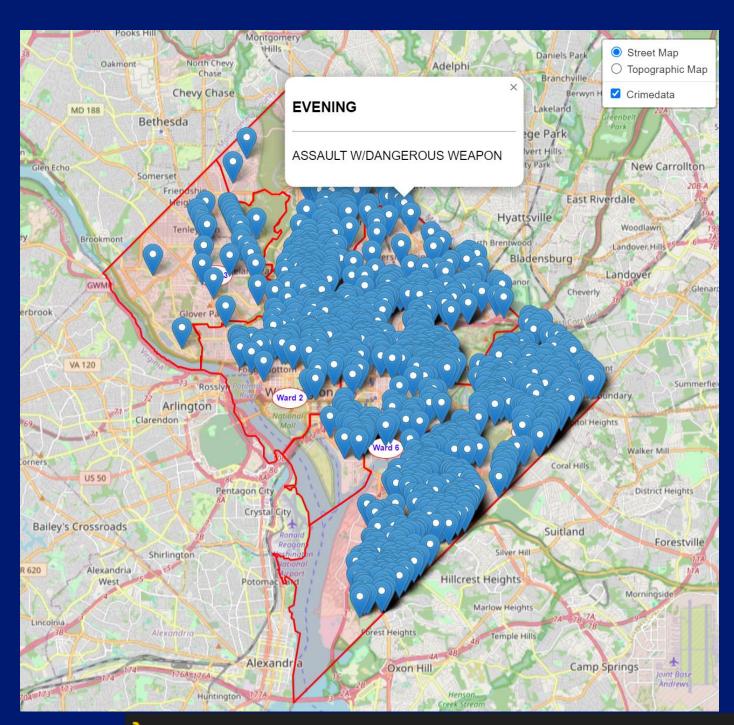
- Utilizing Offense Type as a Filter we can reduce our dataset of over 27K data points to a more consumable visual aid when reviewing one offence type at a time
- Adding the Ward Boundaries, we can then further analyze trends and location within Washington D.C.
- Unfilter/filter by crime Data
- Bind-popups that display time of day for each Offense and Offense Type

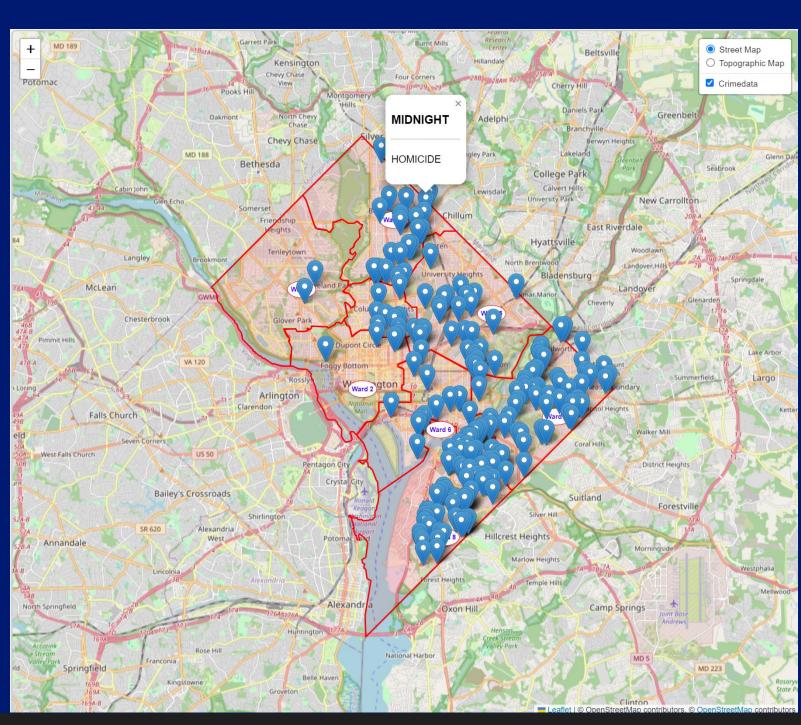
By Offense filtering

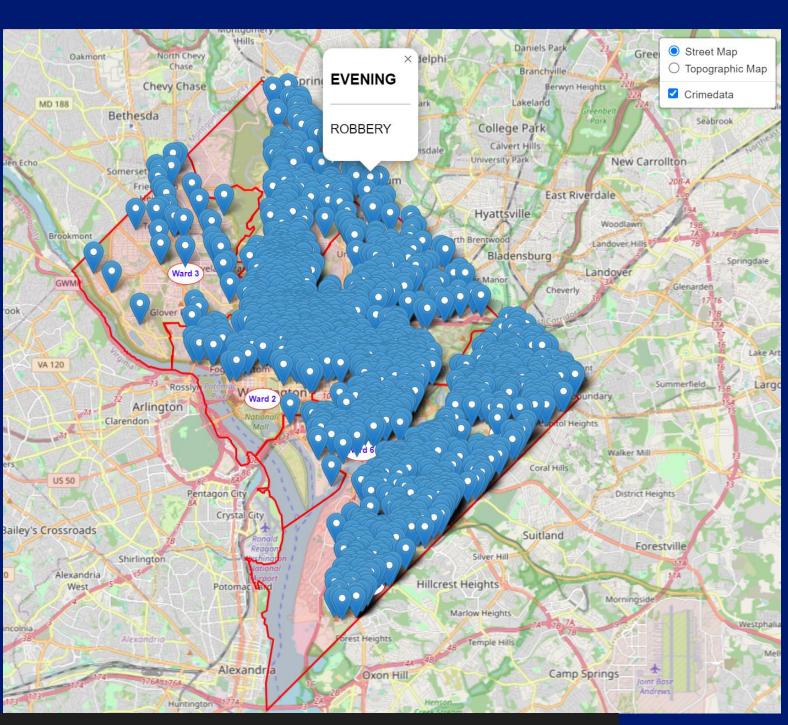
Assault W/Dangerous Weapons

<u>Homicide</u>

Robbery







```
function createFeatures(crimeData) {
  console.log(crimeData)
  // Define a function that we want to run once for each feature in the features array.
  // Give each feature a popup that describes the crime data and time of day as an example.
  function onEachFeature(feature, layer) {
    layer.bindPopup(`<h3>${feature.properties.SHIFT}</h3><hr>}{feature.properties.OFFENSE}
  if(feature.properties.OFFENSE==="ASSAULT W/DANGEROUS WEAPON") return true
}
```

Ethical Considerations

- Potentially skewed data on who's reporting crimes by racial/demographic biases
- Use of data in a discriminatory manner
- Crime reporting how personal information is gathered on victims and if/how publicized

Questions?

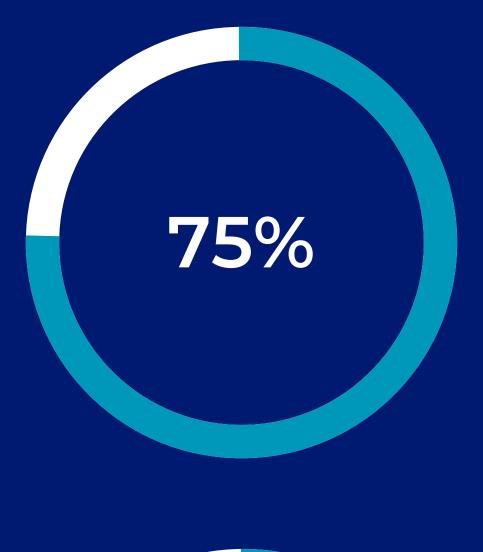
Survey Results

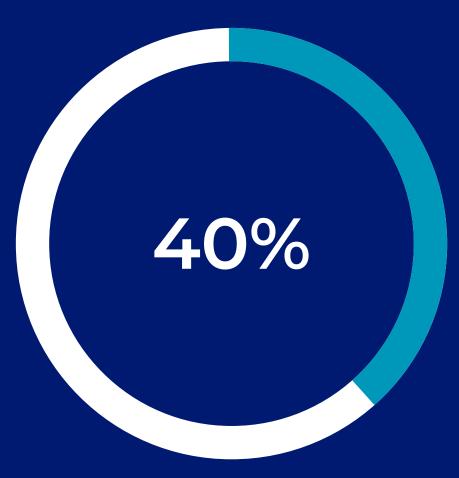
Product should meet a certain consumer demand, or it should be so compelling that consumers believe they need it.



Asset Mix By Actual Value

Product should meet a certain consumer demand, or it should be so compelling that consumers believe they need it.





Investment Report

5

Write Your Title

Your Title

Refers to a good or service being offered.

Your Title 90

Refers to a good or service being offered.



Washington DC Crime Analysis Timeline 2019 2020 2021

Pre-election Year

Election Year

Post Election Year

Investment Pros

Make sure you promote it in the right place. It's no secret that you need to be visible online that's where.

Investment Cons

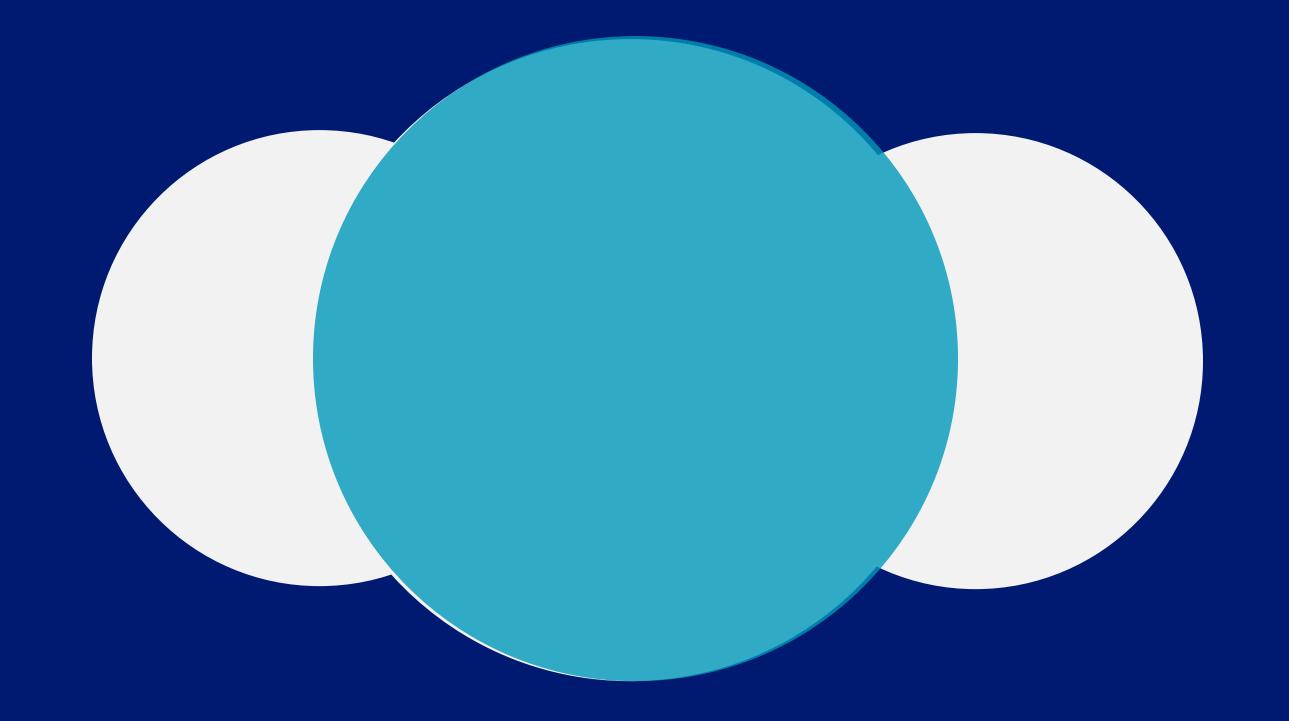
Product should meet a certain consumer demand, or it should be so compelling that consumers believe they need it.



The United Financial Team

Write Your Title

Refers to a good or service being.



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Refers to a good or service being.

Contact Us



Write Your Title

Refers to a good or service being offered by a company.



Write Your Title

Refers to a good or service being.

Make sure you promote it in the right place.