

Project 3 - Shards of Delinquency

Website created to
visualize data on
Dallas crime



Agenda

Objective

inspiration

Data source

Hypothesis

Visualizations

Demo

Conclusion

Limitations and Future
Work

[YEAR]

Title





Objective

To create a dynamic webpage showcasing data visualizations pertaining to crime in Dallas during 2020 using different libraries



Inspiration

Crime for the most part is an interesting and spine-chilling topic to see, hear or read about. Take the never-ending popularity of the Netflix specials, documentaries, dramas, podcasts, etc. that follow the crime genre.

Not only is it an interesting, alarming topic, but its also an important and informative topic to tackle beyond entertainment purposes. Hence our project to see what is lurking beyond in Dallas.



Data

Our data source will be coming from City of Dallas Open Data. It will be providing us with information related to crime type and its sub-categories, the location of where the crime was committed, and details of the accused.

APIs and CSVs will be used by Python and JavaScript to clean the data, perform aggregate functions, and create visualizations on the website.

<https://www.dallasopendata.com/>

“

No punishment has ever possessed enough power of deterrence to prevent the commission of crimes.

Hannah Arendt

”



Visualizations

- Leaflet Map – Police involved shootings
- Plotly – 2020 Homicides
- D3 Sunburst – Details of the accused
- D3 Lollipop – 2020 Burglaries and Theft
- Website:
 - https://storage.googleapis.com/bucket-project3-crime/final_website_2/index.html



Limitations:

The homicides and burglary/theft datasets were only covering 2020. More time and research would be needed to capture year over year activity.

Wanted to include more information about crime victims in the sunburst visualization but was not in scope at the time.

Would be interesting to see more map activity outside of the Dallas area, but again, more time and resources would be needed to properly display marker activity.

It would also have been interesting to see the crimes that were being committed in more detail per the NIBRS Crime Category and their subcategories.

Lastly make the website more interactive and aesthetically pleasing.



Data Referenced

Dallas Crime Capstone:
https://github.com/alexarnold630/Dallas_Crime_Analysis_and_Prediction/tree/main/Crime/Notebooks

Data: <https://www.dallasopendata.com/>

Inspiration (movies and shows used in slides):

The Joker

Psycho Pass

Casa de Papel

Dpr Ian No Blueberries

Parasite

The Gentlemen

Visualizations:

<https://plotly.com/javascript/>

<https://d3-legend.susielu.com/>

