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Project 3

https://jwhisler1117.github.io/Project-3---NYPD/

My initial idea was to create an interactive map of NYPD precincts, allowing users to hover over or click on precincts to compare the number and type of misconduct allegations. The goal was to identify patterns across New York City. However, rendering the precinct shapefiles correctly in D3 proved challenging, likely due to projection mismatches or issues with the GeoJSON source. I therefore shifted to a temporal visualization that would still let users explore trends and patterns in the data.

I chose a stacked area chart to visualize changes in the number of allegations over time, divided by the four FADO categories (Abuse of Authority, Force, Discourtesy, and Offensive Language). This design clearly communicates both total volume and category composition over time. Interactivity is provided through checkboxes to filter categories and a brush/slider to select custom date ranges. These controls make it easy to isolate specific trends and time periods.

Below the timeline, I added a bar chart showing the distribution of Civilian Complaint Review Board (CCRB) dispositions (e.g., Substantiated, Exonerated, Unsubstantiated) for the selected range, as well as a summary details section. Together, these components provide a cohesive overview of allegation trends, board outcomes, and detailed breakdowns.

The most time was spent on implementing dynamic interactivity—ensuring that brushing, filtering, and the details view all updated live and consistently. Another major effort was fine-tuning the user experience: making sure scales adjusted smoothly, gridlines and colors were readable, and the layout worked well across different screen sizes.