



Drug Overdose Crime

Presented by: Sean Rubin, Christina Gabriel, David Schaffer, Sarah Arif

107,000

32.1 deaths per 100,000 people each year.



Datasets

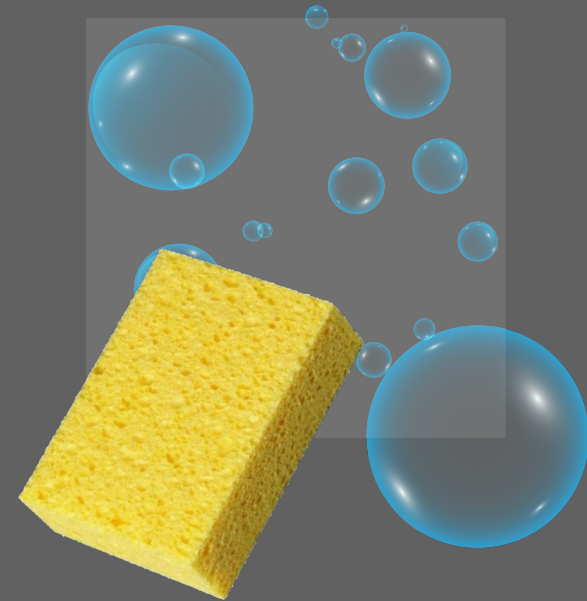
- National Overdose Monthly Provisional drug overdose death count in the 50 states including the District of Columbia.
- CORGIS, collaboration with the U.S Department of Justice and the FBI.

Ethical Considerations

- **Strict Regulations:** Government agencies follow stringent laws like HIPAA, ensuring strict privacy and security standards for personal health information.
- **Transparency and Accountability:** Adherence to transparent practices with published privacy policies and procedures, ensuring responsible data handling and public accountability.

Data Cleaning

- **Verified Data Sources:** Cross-referenced data with reliable sources to validate its accuracy and integrity.
- **Hardcoded Corrections:** Manually corrected known errors and inconsistencies in the data to maintain accuracy.
- **Dropped Irrelevant Columns:** Removed unnecessary columns that did not contribute to the analysis to streamline the dataset.



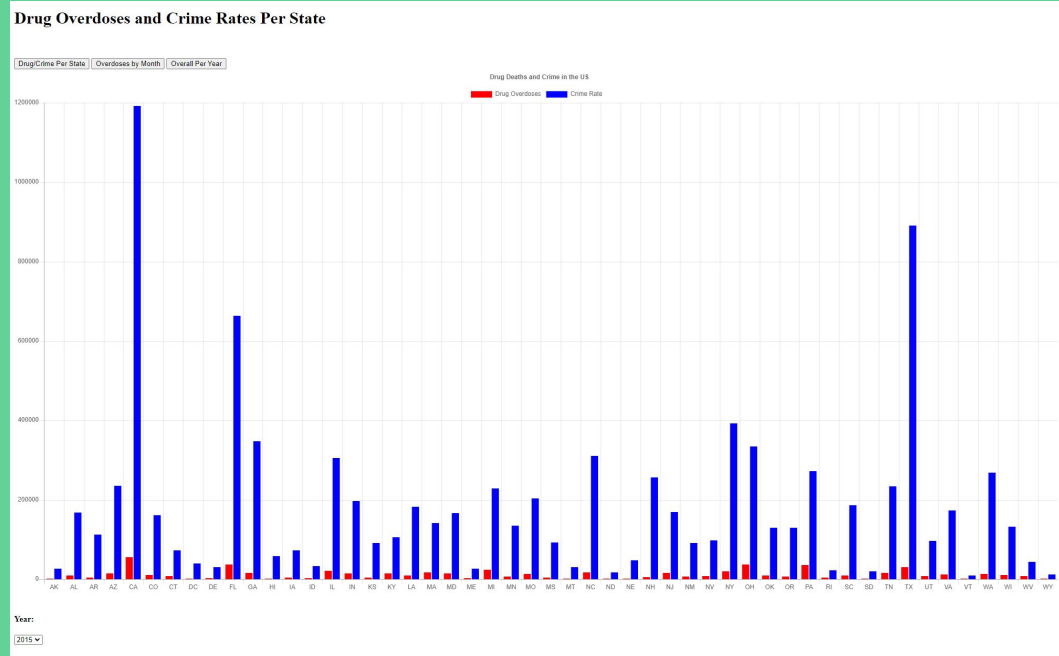
Drug Overdoses and Crime Rates Per State

- **Visualization:**

- We chose a bar chart so we could see the data of each state side by side and make it the simplest way to visualize the comparison of the states

- **Outcome:**

- The states with the highest amount of crime also had the highest amount of overdoses



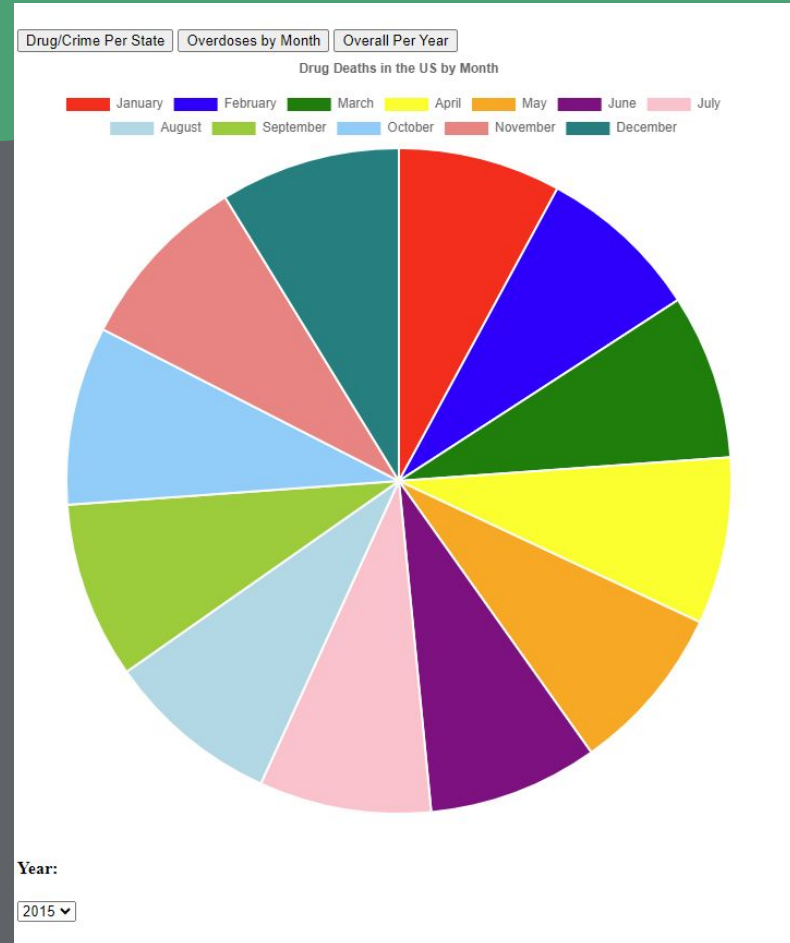
Overdoses by Month

- **Visualization:**

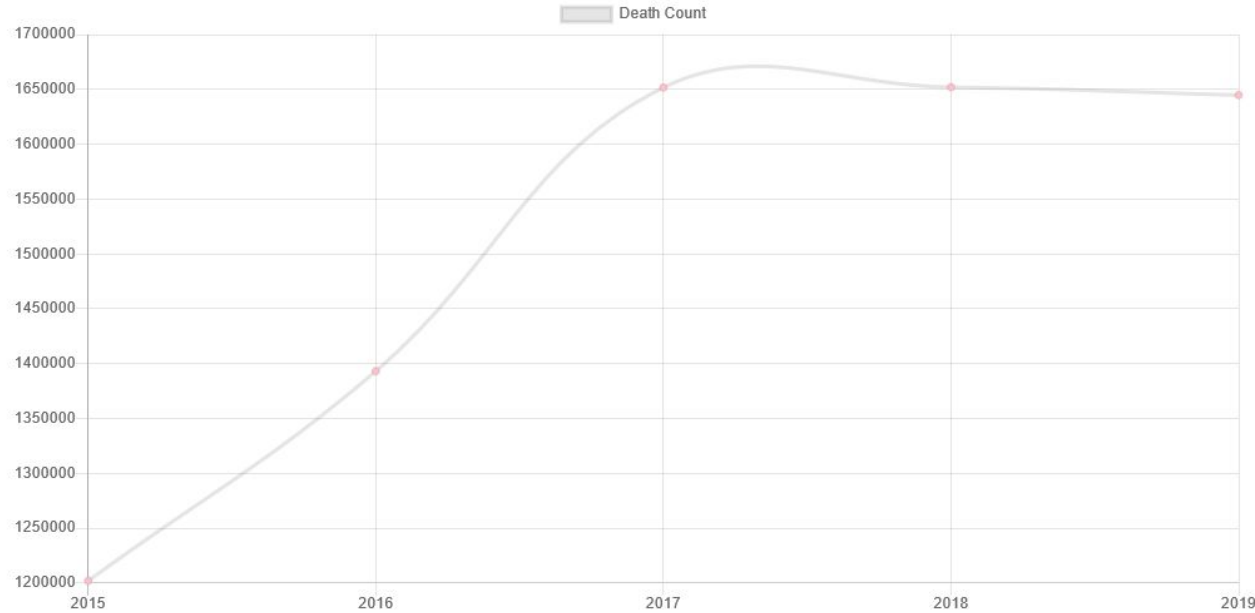
- We created an interactive pie chart to illustrate the 12 months in a calendar year at a glance. We aimed to use percentages to represent parts of the data and as a whole to determine if they differed.

- **Outcome:**

- Per the data, there was not a significant difference in overdose deaths by month between 2015 to 2019.



Drug Overdose Count per Year 2015-2019



Conclusion:

Drug-related deaths seemed to have climbed at a fast pace until 2017. After that point, they slowly dropped.

Visualization:

- A line graph was chosen for this portion because we thought it would be the best way to show the yearly total changing over time.

Changes to the Data Going Forward

- Data that is more current, due to the major shift caused by the pandemic.
- Per capita statistics instead on the general population of a state.

