

Title: DC Crime Data

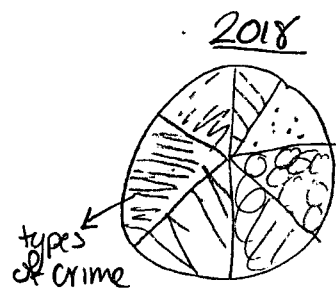
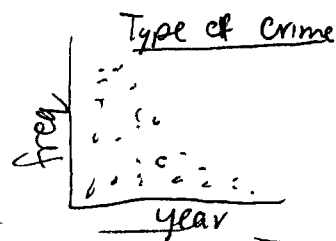
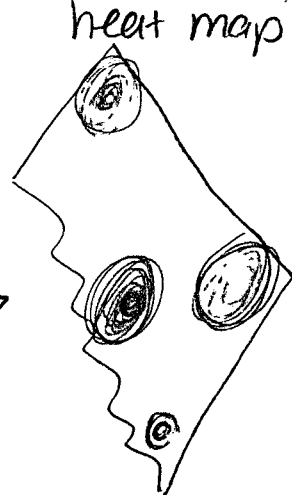
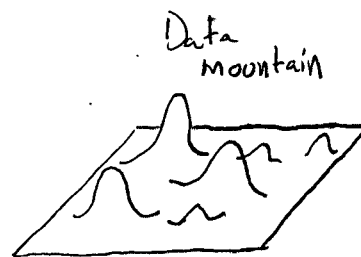
Authors: Julianne + Ben

Date: 3/4 Sheet: 1

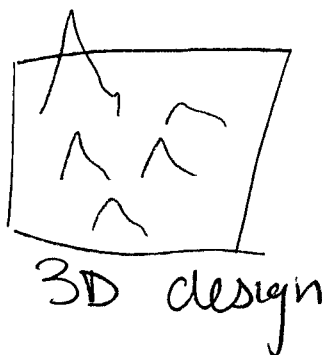
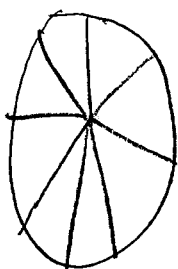
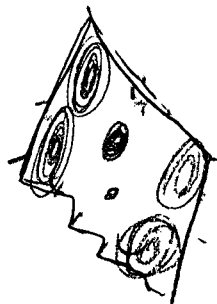
Task: Brainstorming

Ideas:

- 3D Mountain Map
- Heat map → broken down by years
- Scatterplot → frequency of crime over 10 years
- Pie charts → 1 for each year
↳ time of each → type of crime
- Pie chart mapped by ward
↳ crime type
- ↳ type of day



Filter



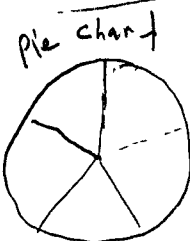
- Heat map

- Pie charts
41 for each year (10 total)

Categorize

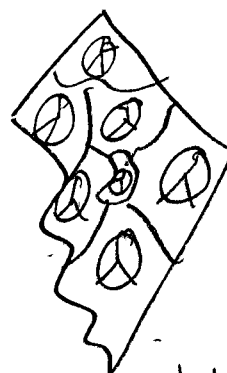


Spatial



fields

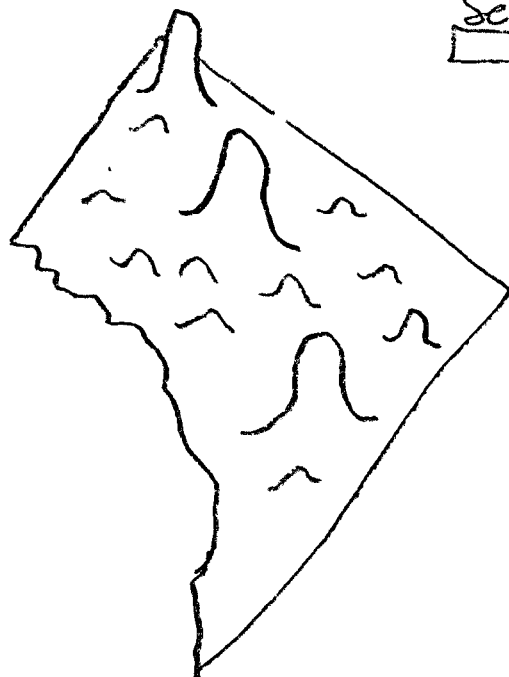
Combine & refine



Pie chart broken down by ward

Heat map
+
Pie chart

Layout



Select crime

Focus Zoom



- Drop in to select crime types of all
- hover cursor over mountain to display total volume at that peak

Title: DC Crime Data
Authors: Julianne + Ben
Date: 3/5 Sheet: 2
Task: frequency of crime on specific spatial coordinates
high volume crime = high volume visual

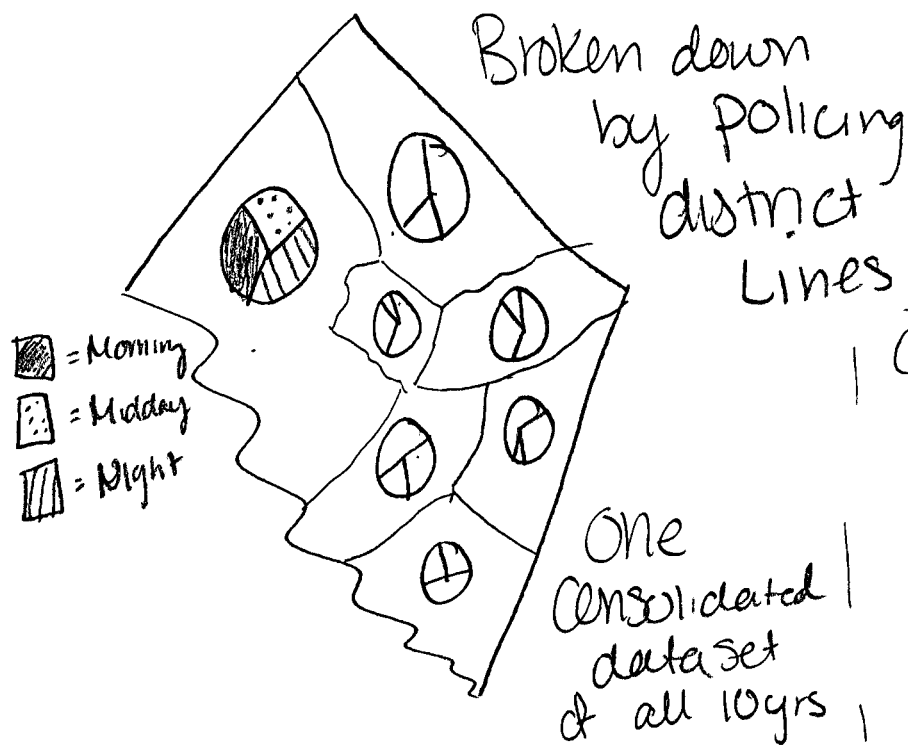
operations

- Browse
- Hover feature to record stats
- locate areas to drive, avoid, park car

Discussion

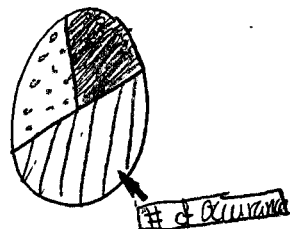
- + interactive
- + appealing, creative visual
- + displays actionable info such as high auto theft areas to avoid parking 1000 car
- 3D
- mountains could hide info

Layout



■ = Morning
● = Midday
▨ = Night

operations



- When user hovers over pie slice the number of occurrences will appear

Discussion

- + visually stimulating
- + includes all 7 policing districts
- + each district has its own pie chart
- doesn't specify type of crime

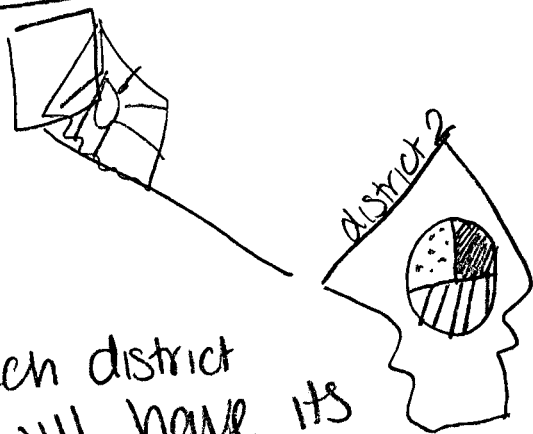
Title: DC Crime Data

Authors: Julian + Ben

Date: 3/5 | Sheet: 3

Task: Represent Volume of Crime by Time of day broken down in pie charts by district

Focus + Zoom

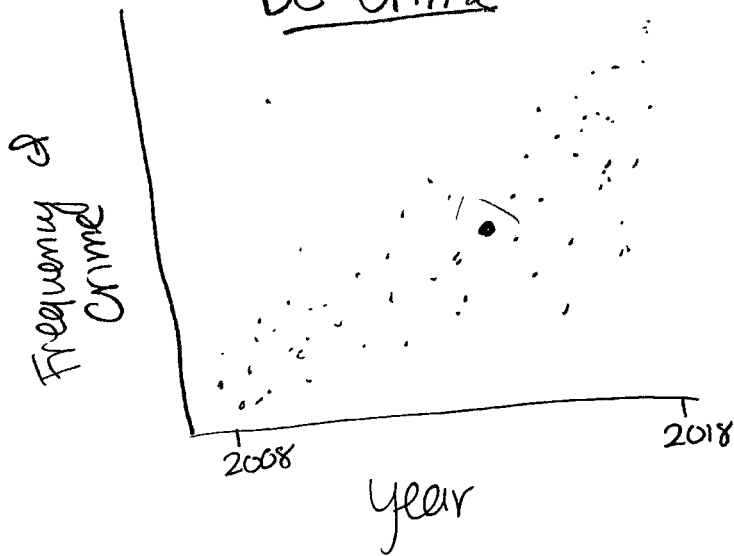


Each district will have its own pie chart

Each color will represent a different time of day

Layout

DC Crime



District
all <input type="checkbox"/>
1 <input type="checkbox"/>
2 <input type="checkbox"/>
3 <input type="checkbox"/>
...

Stats ☐

Title: DC Crime Data

Author: Julianne + Ben

Date: 3/5 Sheet: 4

Task: Frequency of all Crime over 10 years in 7 scatter plots. One per district.

Operations

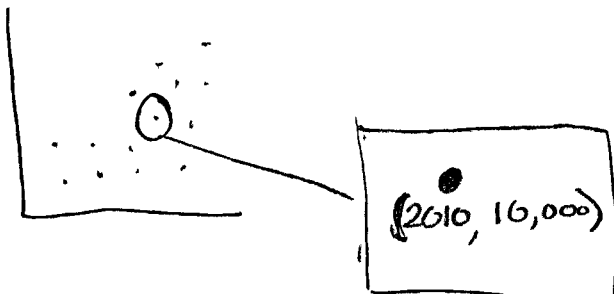
all
1
2
3
4
5
6
7

- Pick list of each district

Stats ☐

- Click stats button to see min, max, mean, std dev, etc.

Focus + Zoom



- Roll over a data point to see coordinates
- X axis: Year
- Y axis: Crime reported
- 70 total data points

Discussion

- + Represents all 10 years + all 7 districts
- + good Statistical Analysis
- Not Visually Stimulating
- disregards type of crime