

Title: DC Crime Delta

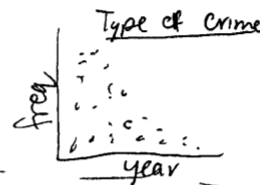
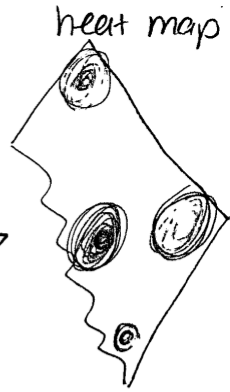
Authors: Julianne + Ben

Date: 3/4 Sheet: 1

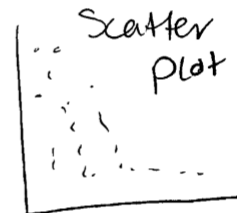
Task: Brainstorming

### 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 day
- Pie chart mapped by ward  
↳ crime type
- ↳ type of day



### Filter



- Heat map

- Pie charts  
↳ 1 for each year (10 total)

### Categorize



Spatial



Pie chart



Fields

### Combine & refine



Pie chart broken down by ward

Heat map + Pie chart

## Layout



Select crime

## Focus Zoom



- Drop down to select crime types or 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

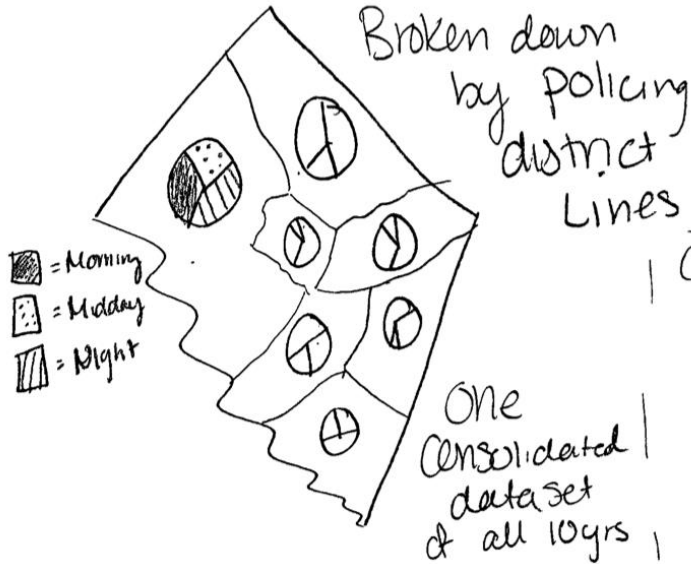
## operations

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

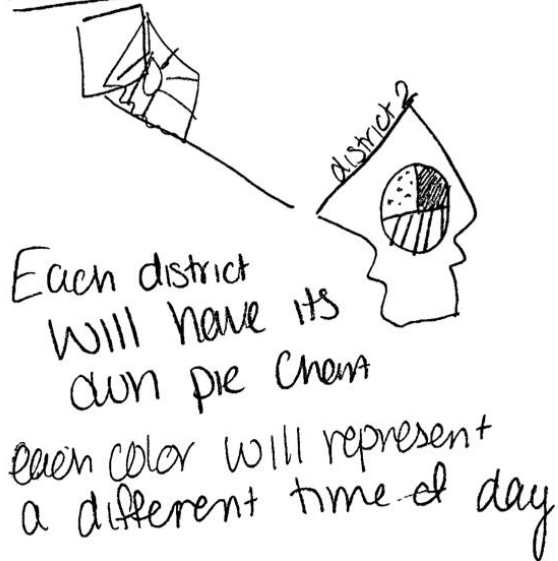
## Discussion

- + interactive
- + appealing, creative visual
- + displays actionable info such as high auto theft areas to avoid parking 100ft car
- 3D
- mountains could hide info

# Layout



## Focus + Zoom



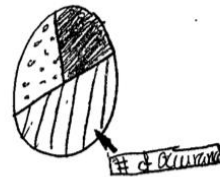
Title: DC Crime Data

Authors: Julian + Ben

Date: 3/5 | Sheet: 3

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

## Operations

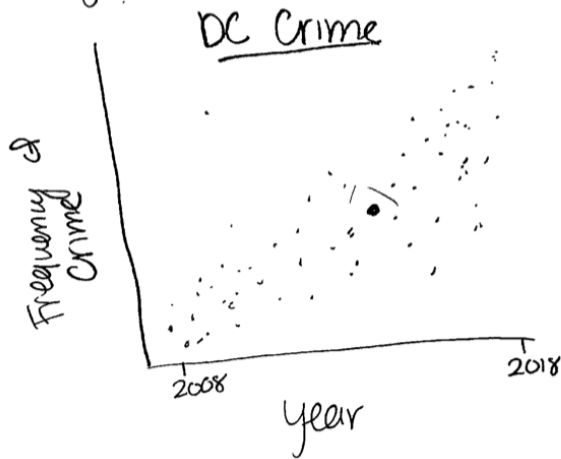


- When user hovers over pie slice the number of occurrences will appear

## Discussion

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

## Layout



district
all
1
2
3
...

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

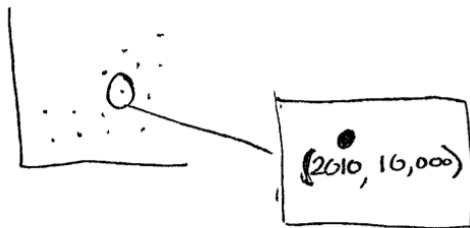
all
1
2
3
4
5
6
7

- Pick list of each district

Stats

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

## Focus + Zoom

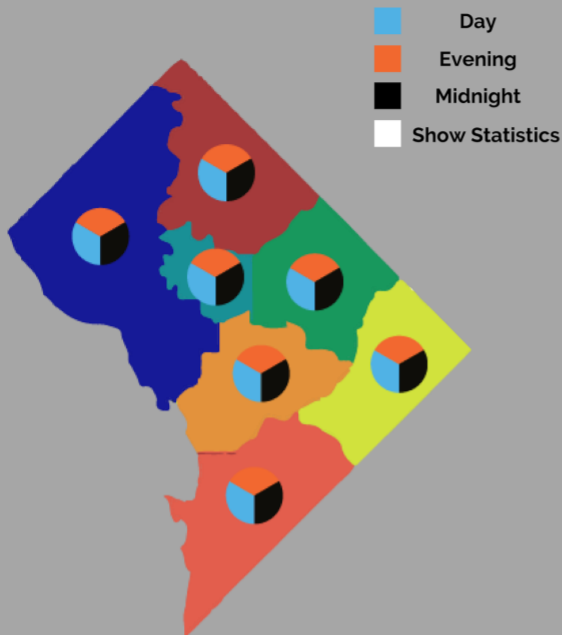


- Roll over a data point to see coordinates
- X axis: year
- Y axis: Crime reported
- 70 total data points

## Discussion

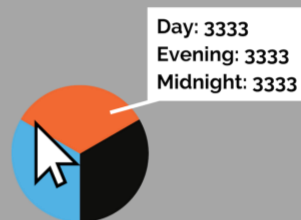
- + Represents all 10 years + all 7 districts
- + good Statistical Analysis
- Not Visually Stimulating
- disregards type of crime

## Layout



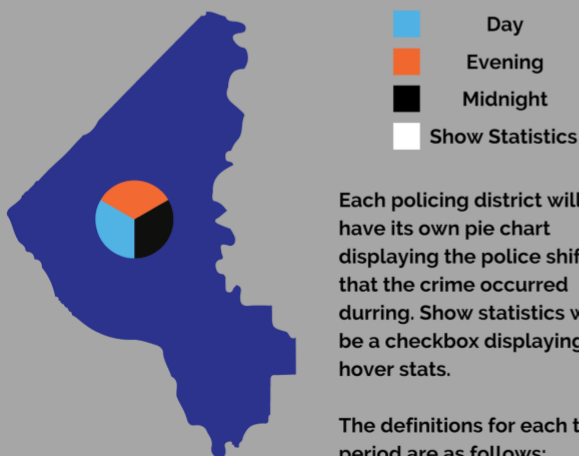
Title:	DC Crime Data: 2008 - 2018		
Authors:	Ben Doiron & Julianne Delia		
Date:	3/6/2019	Sheet:	5
Task:	To represent volume of crime by time of day, broken down in pie charts by district		

## Operations



Hover - When a user hovers over a pie chart the number of occurrences will appear for statistical analysis

## Focus/Zoom



Each policing district will have its own pie chart displaying the police shift that the crime occurred during. Show statistics will be a checkbox displaying all hover stats.

The definitions for each time period are as follows:  
Day - 7:01am to 3:00pm  
Evening - 3:01pm to 11:00pm  
Midnight - 11:01pm to 7:00am

## Details

Cost: Opportunity

Time Constraint: Conclusion of the spring semester

Pixel Constraint: 576px x 768px (6in x 8in)

Dependencies: D3.js methods including but not limited to -  
d3.arc(), d3.scaleOrdinal(), d3.pie()