

Crime Time Together With Weather

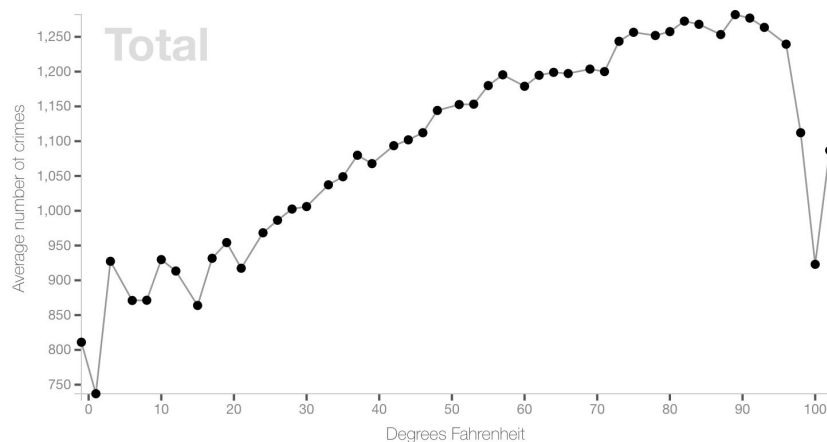
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Project Description

- We will be focusing on crimes and when they occurred in Denver, involving the time of day/week/month/year and where. Interesting questions we intend to answer with the data we find: “What is the correlation (if any) between weather and crime?” and “Is there a correlation between the environment and these crimes?”

Prior Work In This Area

- Hypothesized that crime is more frequent with higher temperatures and rainfall
 - [The New York Times: “Weather and Violence”](#)
- Similar research done for Chicago (Crime vs Temperature)
 - <http://crime.static-eric.com/>



Our Data Sets

- Crime data for Denver Metro area (2012 to current)

- [Denver Police Department](#)

- Weather data for Denver (2012 to current)

- [NOAA](#)

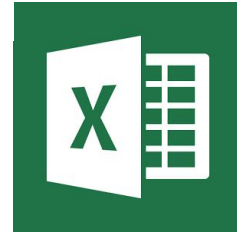


Proposed Work

- Clean Data
 - Remove unnecessary/redundant data (dates, locations)
 - Remove/adjust missing data
- Preprocess Data
 - Reorganize/rearrange into chronological order and group by crimes
- Integrate Data
 - Combine crime and weather data

Tools We Will (Probably) Use

- Excel
- SQL Server
- Weka
- Jing
- Python/Matplotlib



Result Evaluation

- Compare temperatures/weather with crime frequency and vice-versa
- Look for correlation between time of day/month/year with crime frequency
- Look for correlation between locations and crime frequency