Crime rates in different parts of Salt Lake City Linear Algebra 2270-004 project outline by Bryce Fairbanks and Jared Harmer

- Comparisons of crime rates to different variables:
 - Time of day
 - Day of week
 - Type of crime (ranges of crimes as categorized by the SLCPD)
 - Area in SLC
 - Police district or arbitrarily defined geographical area
 - Average income in Area
 - Homeless population
- Methodology
 - Explain the categories of crime and the types of crime within each
 - Show how areas are defined
 - Explain how linear algebra was used to construct regression lines for each variable
- Presentation
 - Graphs
 - Linear regression output for different variables
 - Possible non-linear regression to find best fit
 - Tables
 - Geographical area vs crime rate
 - Discuss possible correlation/causation between variables
 - Our interpretations of the results
- Sources
 - <u>https://opendata.utah.gov/salt-lake-city</u>