Major Cities Housing Market in Relation to Crime Rate

1. Project Description: This project is intended to be used as baseline for understanding the housing market economy and the impact of crime on property values across top US cities by population.
2. Research Questions:

* What is the average and median sales price across the major cities?
* What is the average and median crime rate across the major cities?
* What is the correlation between average/median sales price and average/median crime rate crime?
* Do houses stay on the market longer in higher crime areas?
* What type of crime has the biggest effect on home sales? (ex: does robbery have more affect that others?)
* Effect of city demographics on median price and crime rates

1. Data Sets to Used:
   * <https://www.kaggle.com/marshallproject/crime-rates>
   * <https://www.redfin.com/blog/data-center/>
   * Reference Google Maps API
   * Census API
2. Rough Breakdown of Tasks
   * Pull information for Crime API and Housing Market
   * Determine what information is missing from the data pulled based on both APIs. Clean data if applicable.
   * Determine target major cities/capitals for study.
   * Determine price trends per major cities/capitals and time on market.
   * Determine breakdown of crime rate per city by crime type or violent vs non-violent crimes.
   * Determine crime analysis based on factors such as age, ethnicity, gender, etc.
   * Utilize Pandas, Matplotlib, Numpy to analyze the data and visualize.
   * Complete report and prepare presentation based on results.