**Data Analysis Project One Proposal**

**Project Title:** Scott’s Addition Neighborhood Analysis

**Team Members:** Jacky Hoover

**Project Description/Outline:** This project will analyze the drivers behind the gentrification of the Scott’s Addition neighborhood in Richmond, VA. I will use property and community data to see what changes have occurred over the last 10 years that have contributed to the makeover of the neighborhood.

**Research Questions to Answer:**

* Has the neighborhood make-up changed over the last decade?
  + What types of places (restaurant, bars, residential, etc) made up the neighborhood 10 years ago, five years ago, and now?
  + How has the population changed?
  + How has the income level changed?
  + How has the crime level changed?
  + How have the age demographics changed?
  + Has the number of open businesses changed over the last decade?
  + How have property values changed over the last decade?

**Data Sets to Be Used:**

* Possible APIs
  + Google Maps
  + Google Places
  + Census.gov
  + ATTOM Data
    - Aggregated property and community data
    - <https://api.developer.attomdata.com/docs>
* May use compiled property data from State or City government resources if needed.

**Rough Breakdown of Tasks:**

1. Connect to possible APIs and look for most usable data
2. Build datasets for each question via Pandas in Jupyter Notebook
3. Use Matplotlib to build visualizations for data
4. Save visualizations to files
5. Write up analysis
6. Put together presentation