

# Gentrification's Effects on Student Enrollment in DC

# Motivation & Summary

- Analyze gentrification trends in DC over time to see if a correlation between proxies of gentrification and school enrollment exists.
- Gentrification can be loosely defined as the arrival of wealthier individuals to an urban area, which can lead to an increase in housing prices and property values; eventually, this can lead to the displacement of poorer communities.

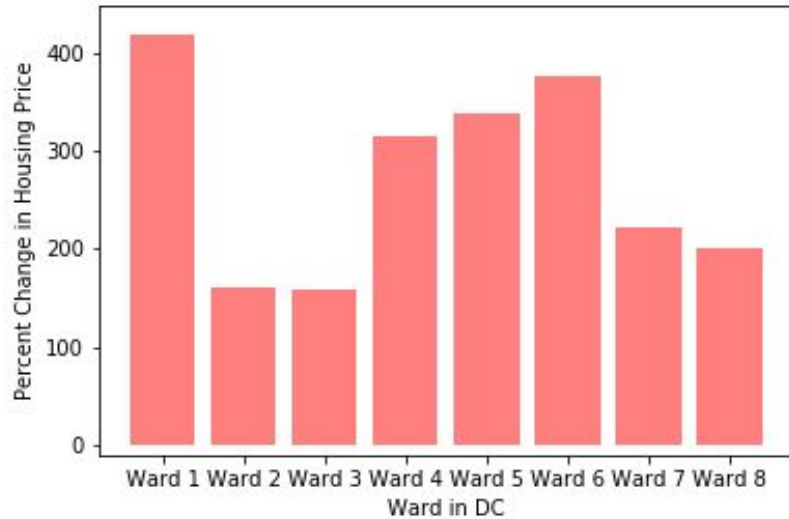
# Questions & Data

1. Which Wards in DC have been affected most by gentrification?
2. What kinds of schools (public vs charter) make up these communities (wards)?
3. Does gentrification make an impact on where students choose to enroll in school?

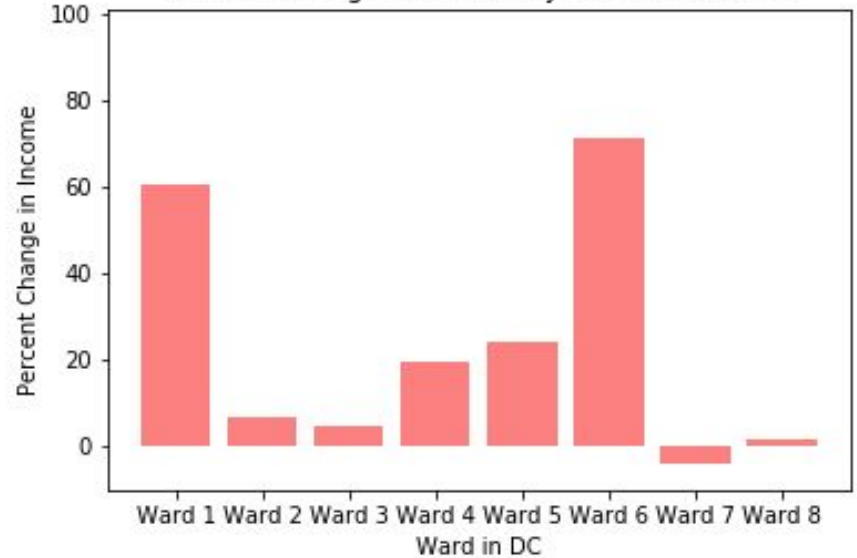
Data Sources: Open Data DC, Urban Institute, DCPS Open Data

# Data Cleanup & Exploration

Percent Change in Average Housing Price by Ward 2000-2016

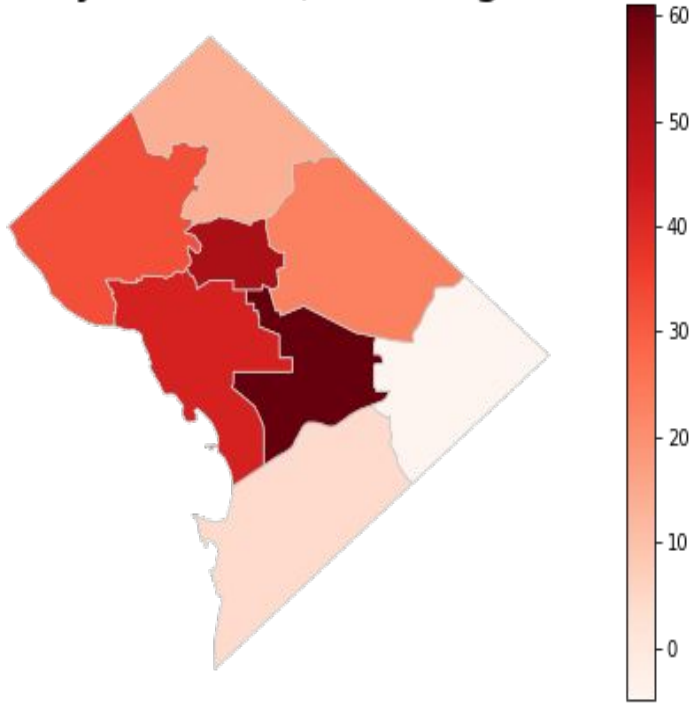


Percent Change in Income by Ward 2000-2016

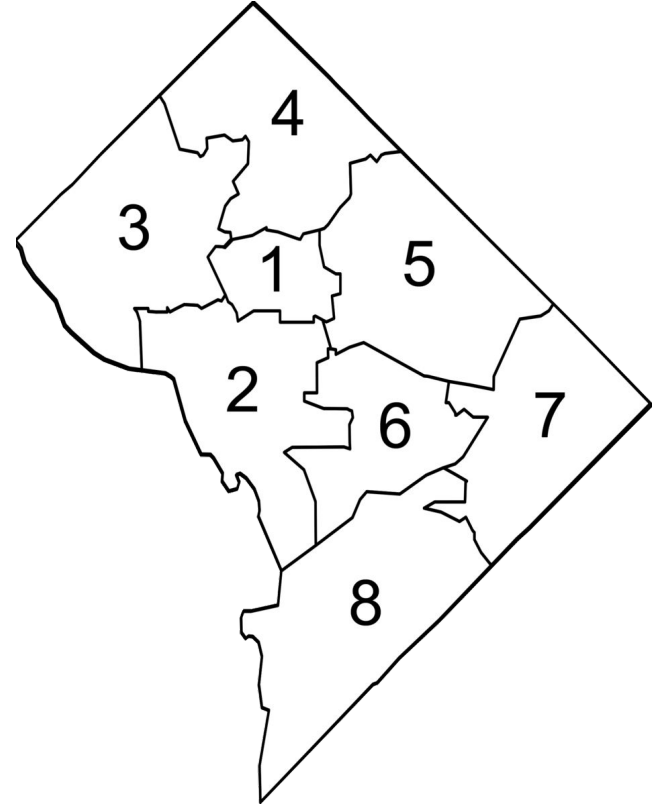


# Data Analysis & Discussion

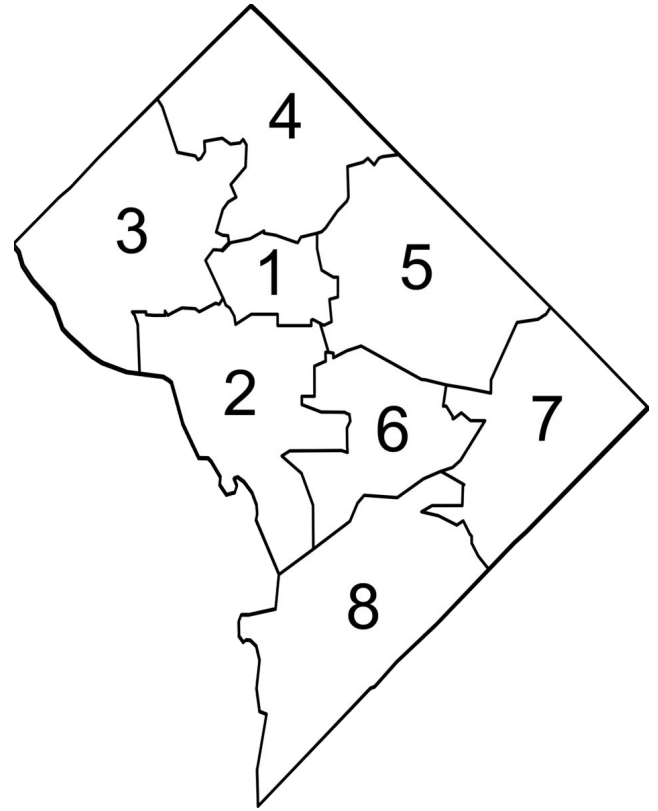
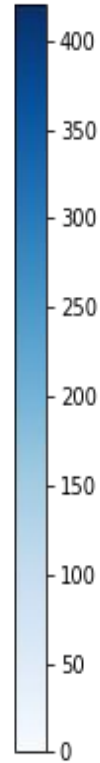
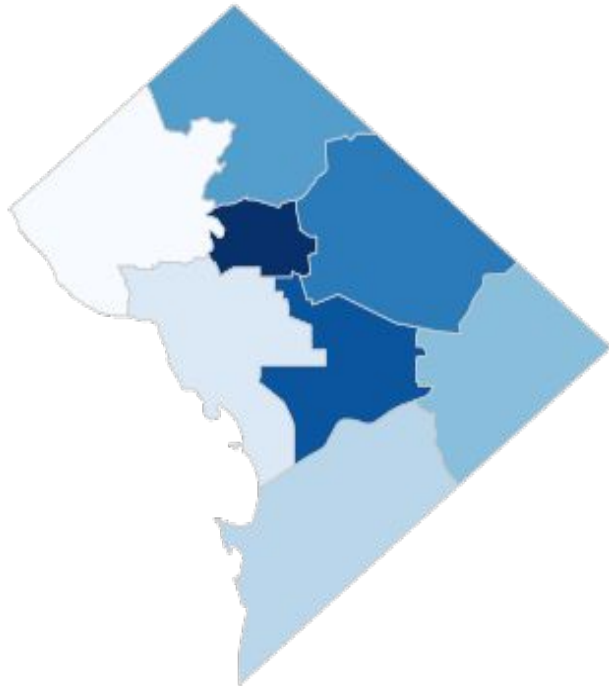
Average Family Income (% change 2000-2016)



Source: Open Data DC

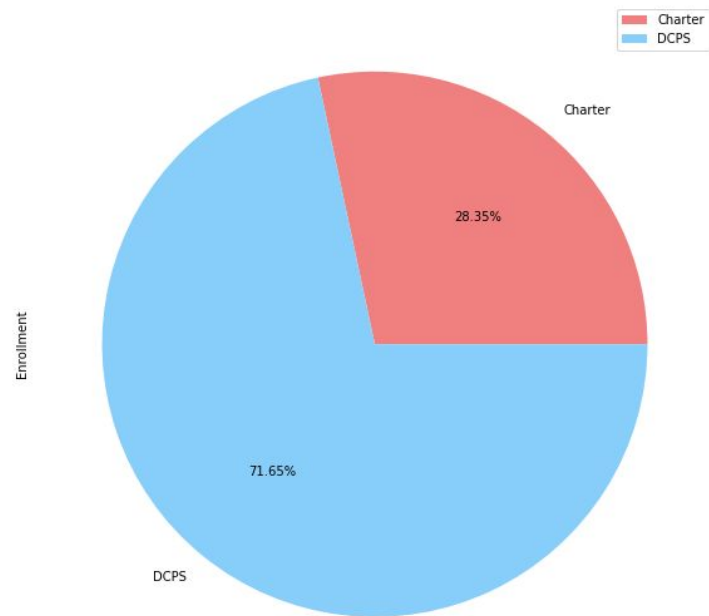


## % Change Housing Prices

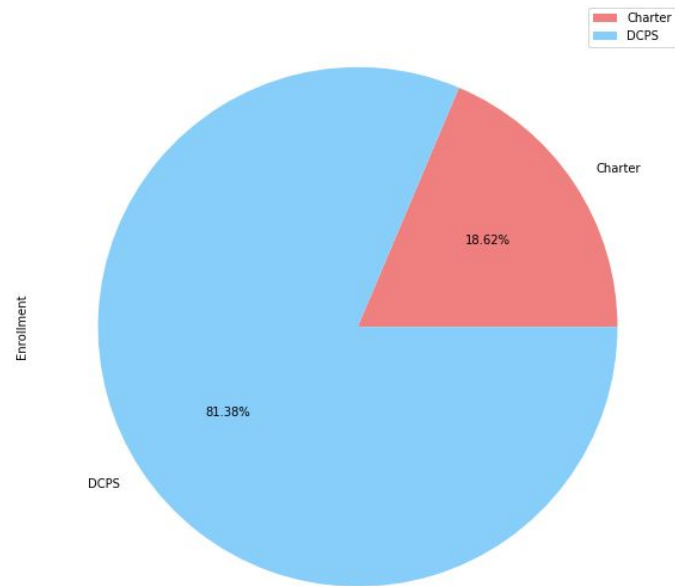


Source: Open Data DC

Ward 1 Charter vs. Public schools



Ward 6 Charter vs. Public schools

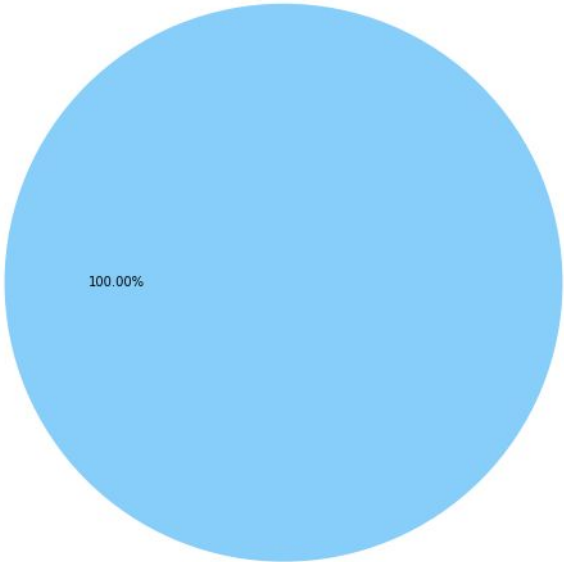


Ward 3 Charter vs. Public schools

DCPS

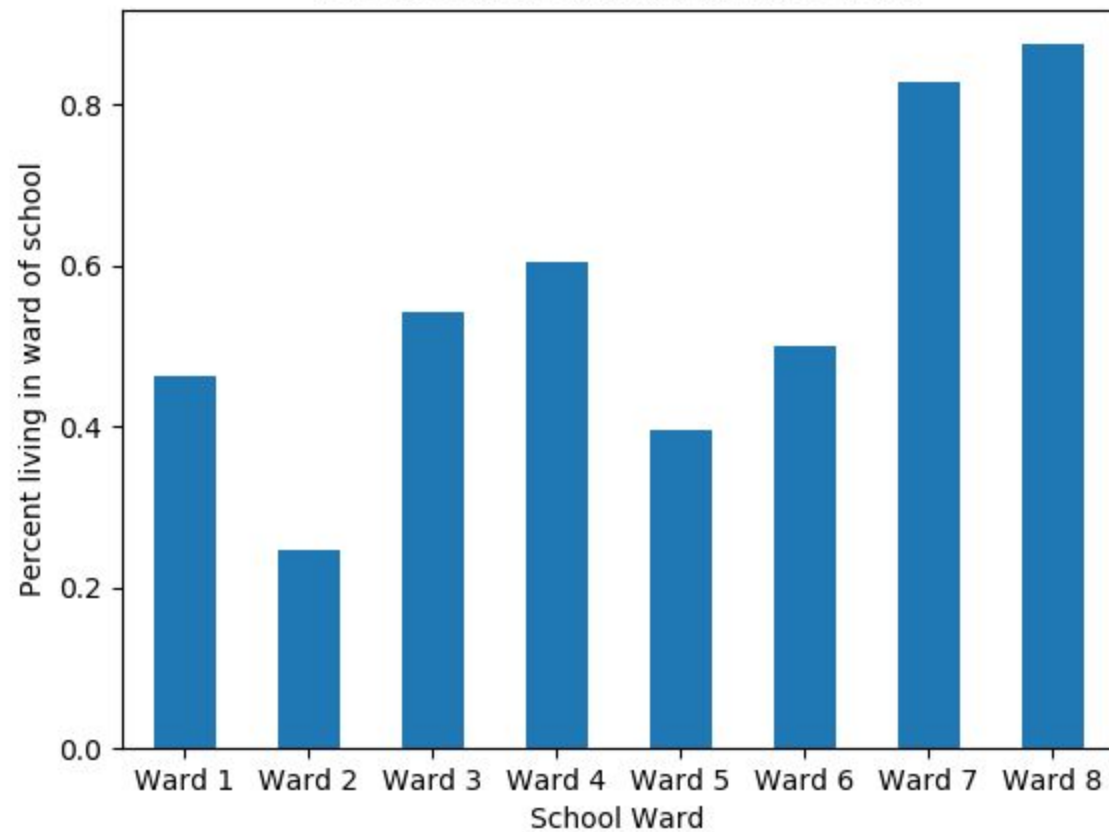
Enrollment

DCPS





Percent enrolled living in same ward



# Post Mortem

- Struggled with picking a question and sticking to it
- Determining what variables were worth analyzing
- Finding data in the timeframe we wanted (inconsistent timeframes)
- Additional Questions - do some statistical analysis to determine whether or not our findings were statistically significant

Questions?