

[DS 5610-20F] Final Project

Living Environments by county in the U.S.



[Team 5] Soyeon Park, Ty Painter, Jay Kim, Tonnar Castellano

Data : U.S. Census in 2015

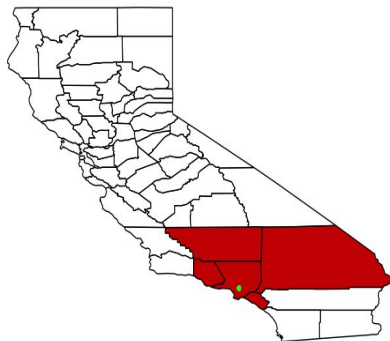
Map of the United States of America

California - New York - Pennsylvania - Texas



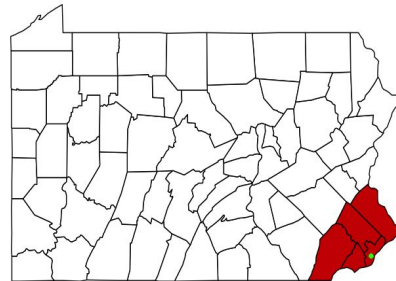
Los Angeles and Suburbs

California



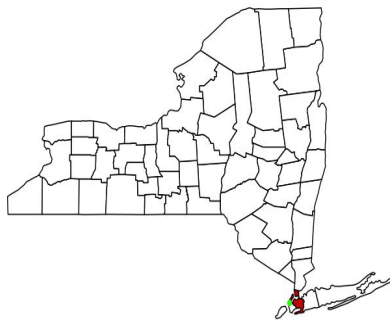
Philadelphia and Suburbs

Pennsylvania



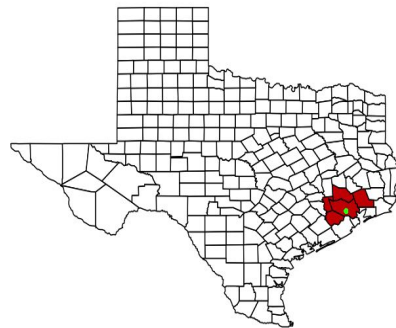
New York City and Boroughs

New York



Houston and Suburbs

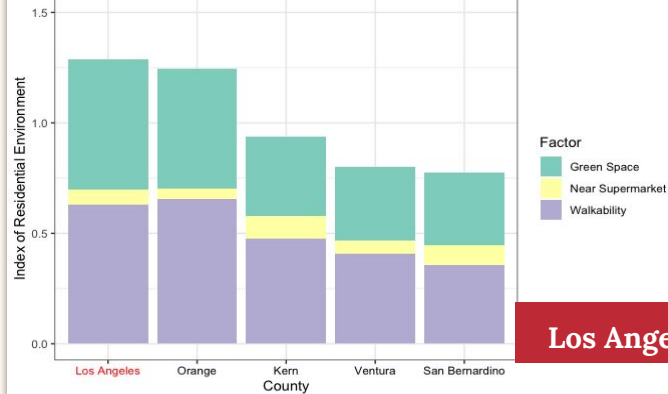
Texas



City vs Suburbs: Living Quality

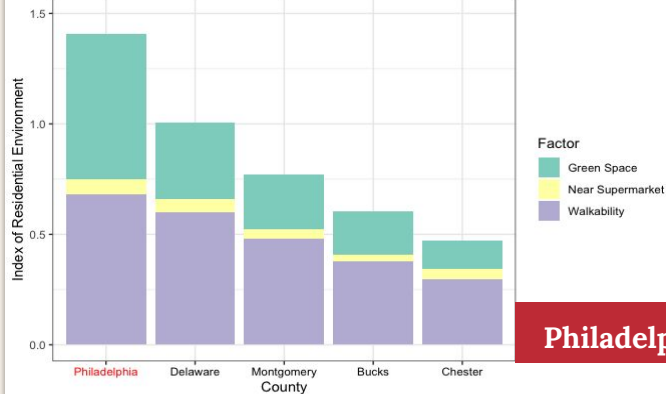
2.Livability

Los Angeles Index of Residential Environment
Livability = Green Space Access + Near Supermarket + Walkability



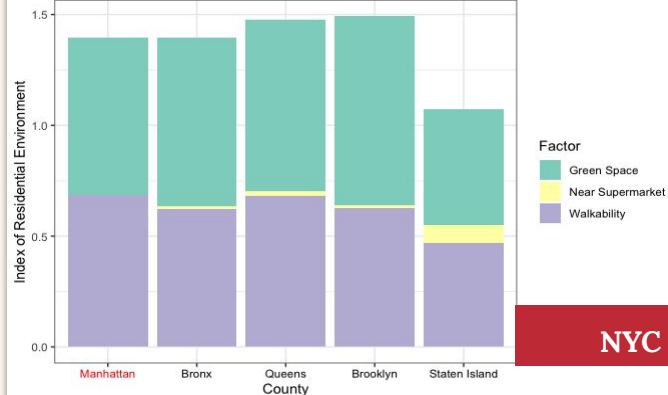
Los Angeles

Philadelphia Index of Residential Environment
Livability = Green Space Access + Near Supermarket + Walkability



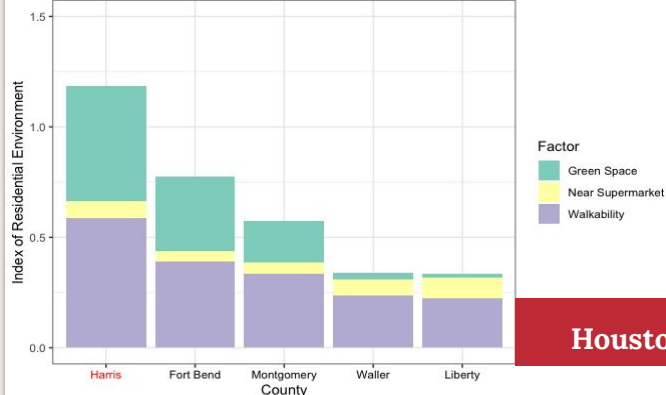
Philadelphia

NYC Index of Residential Environment
Livability = Green Space Access + Near Supermarket + Walkability



NYC

Houston Index of Residential Environment
Livability = Green Space Access + Near Supermarket + Walkability

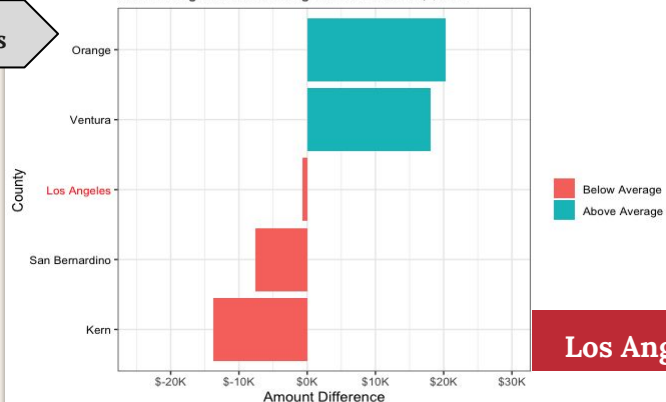


Houston

City vs Suburbs: Household Income

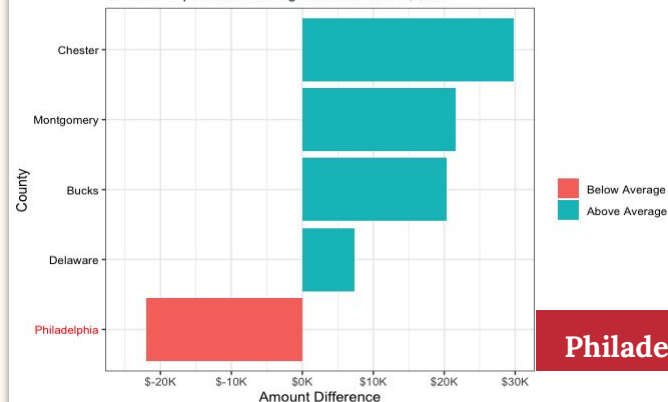
3.Economics

Household Income in Los Angeles
Vs. Los Angeles Area Average Median Income, \$69K



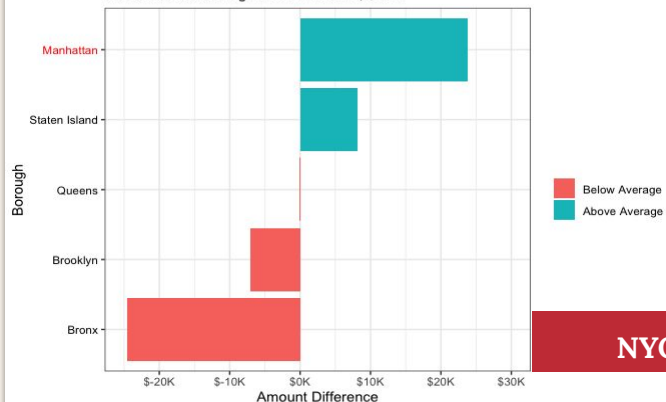
Los Angeles

Household Income in Philadelphia
Vs. Philadelphia Area Average Median Income, \$70K



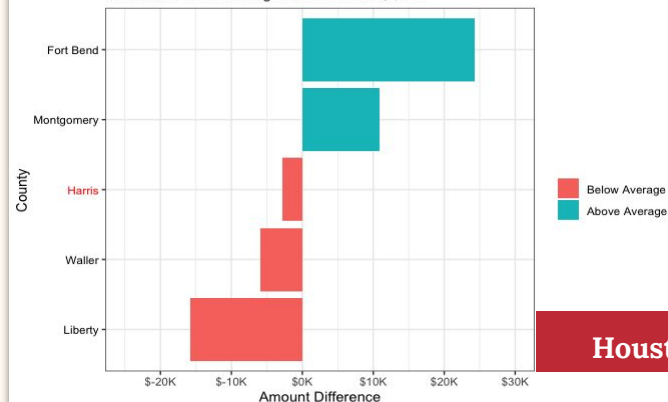
Philadelphia

Household Income in Manhattan
Vs. NYC Area Average Median Income, \$64K



NYC

Household Income in Houston
Vs. Houston Area Average Median Income, \$64K

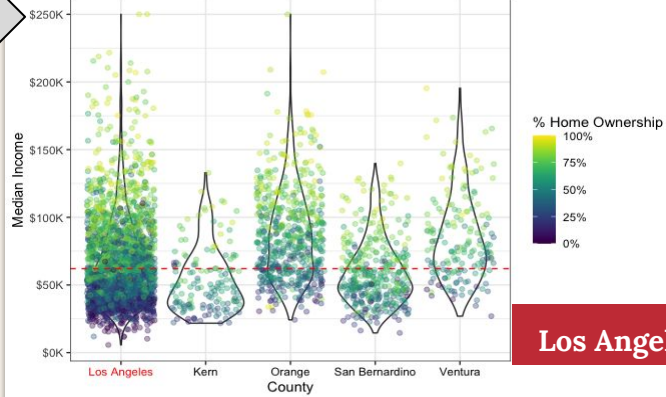


Houston

City vs Suburbs: Home Ownership

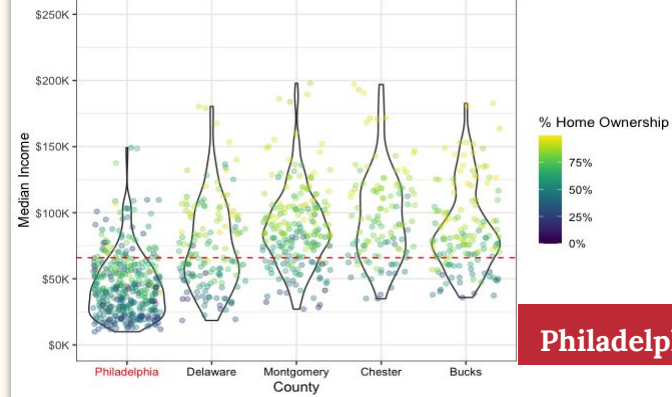
3.Economics

Home Ownership in la and its Suburbs
Vs. Los Angeles Area Median Income



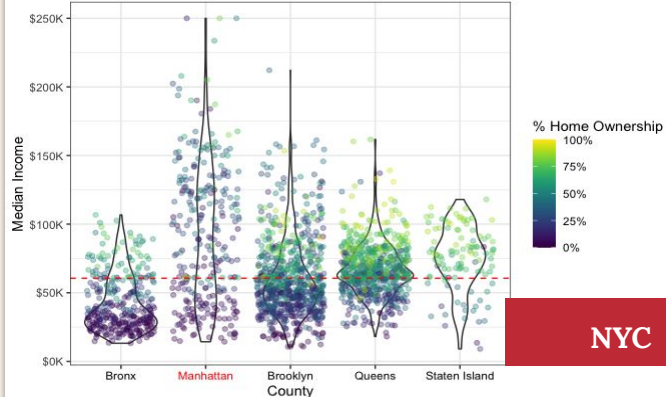
Los Angeles

Home Ownership in Philadelphia and its Suburbs
Vs. Philadelphia Area Median Income



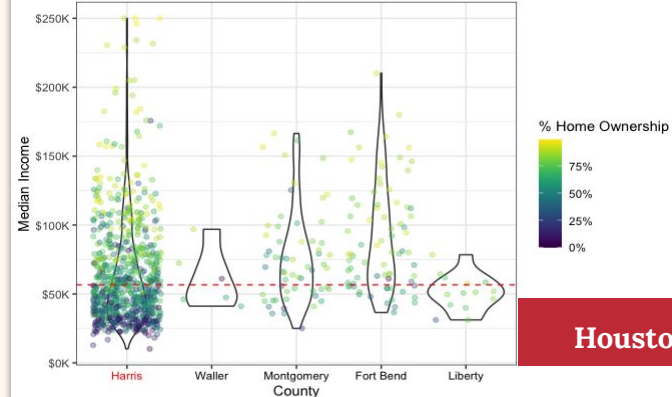
Philadelphia

Home Ownership in Manhattan and its Boroughs
Vs. NYC Area Median Income



NYC

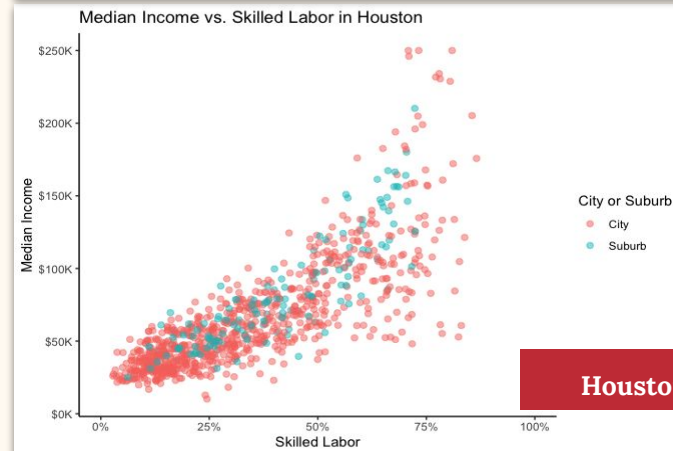
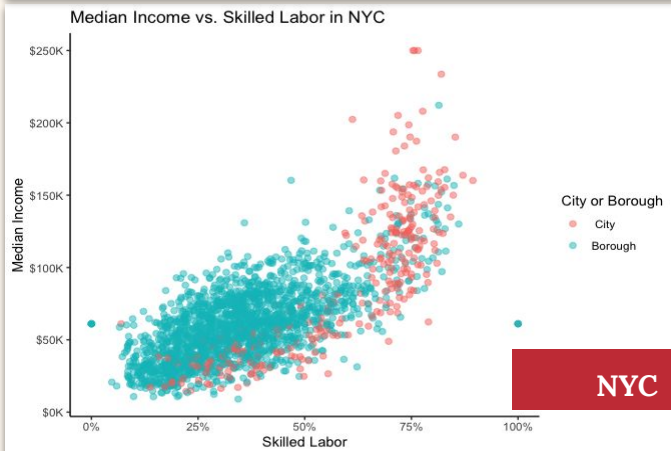
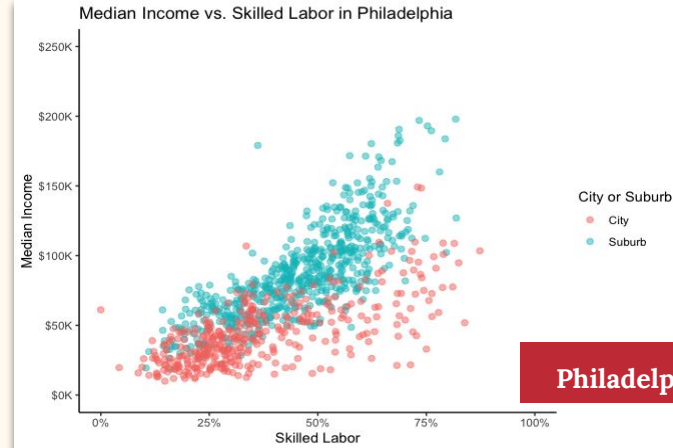
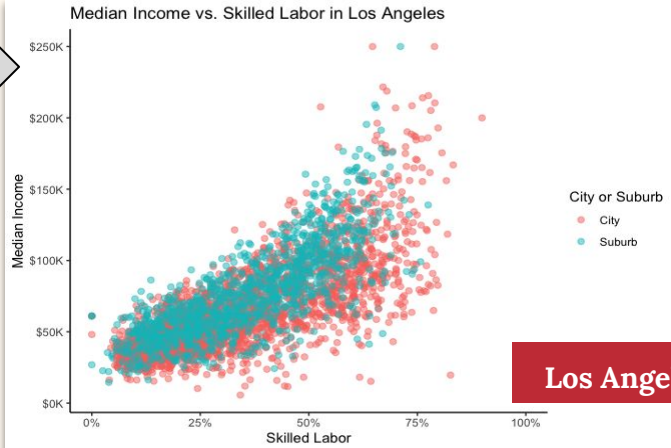
Home Ownership in Houston and its Suburbs
Vs. Houston Area Median Income



Houston

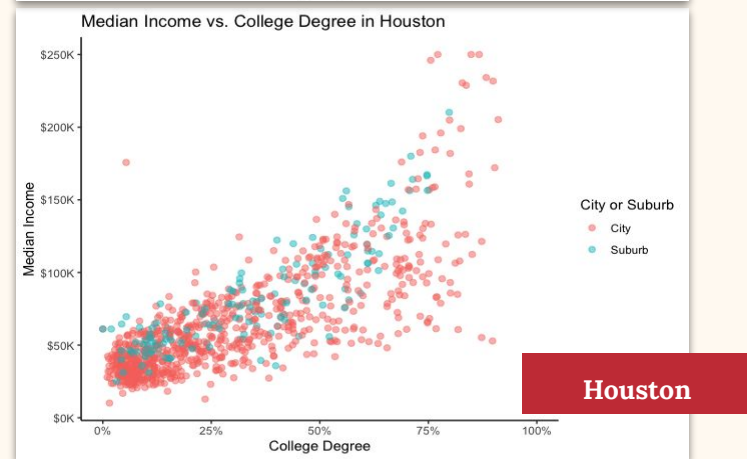
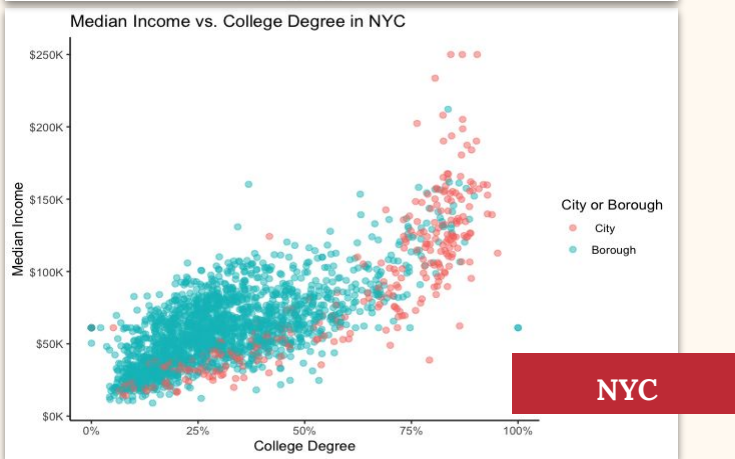
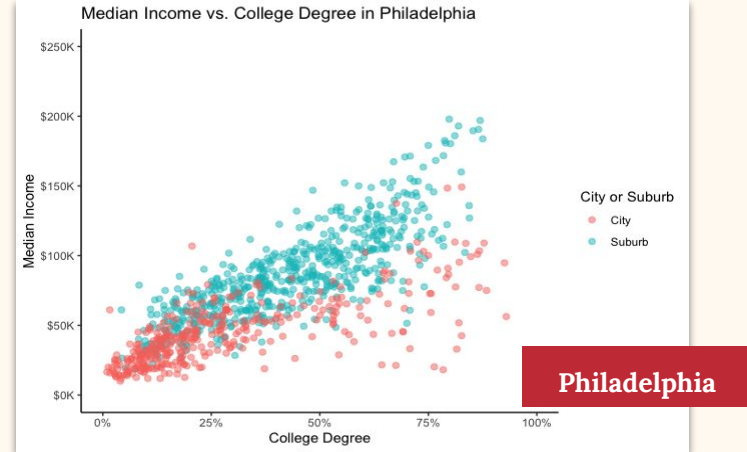
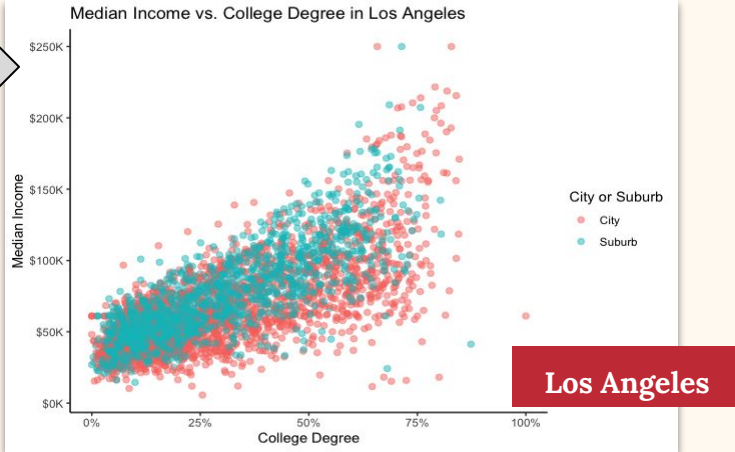
City vs Suburbs: Skilled Labor

3.Economics



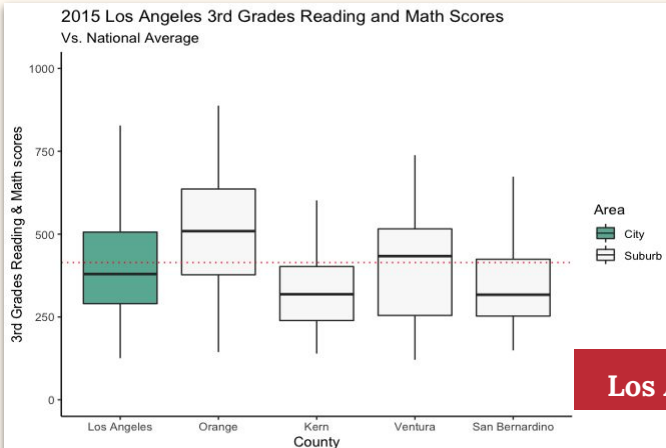
City vs Suburbs: College Degree

3.Economics

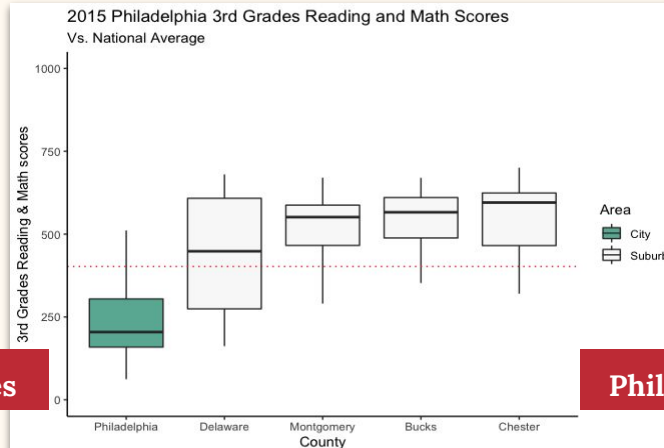


City vs Suburbs: Young Children's Math and Read Ability

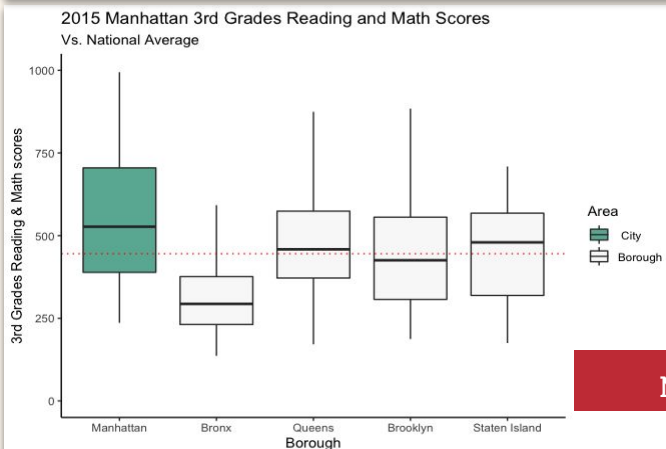
4.Education



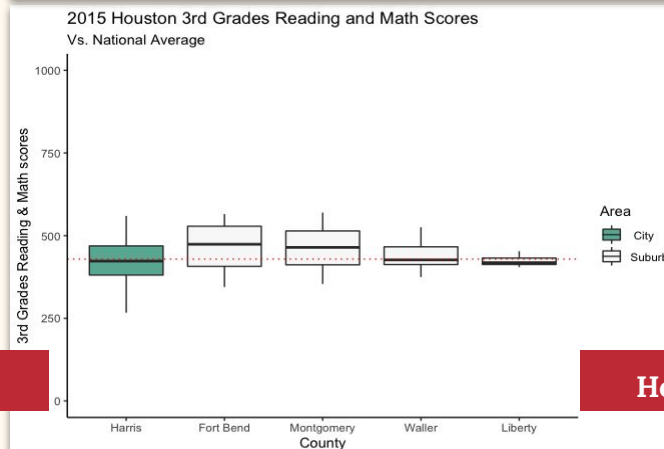
Los Angeles



Philadelphia



NYC

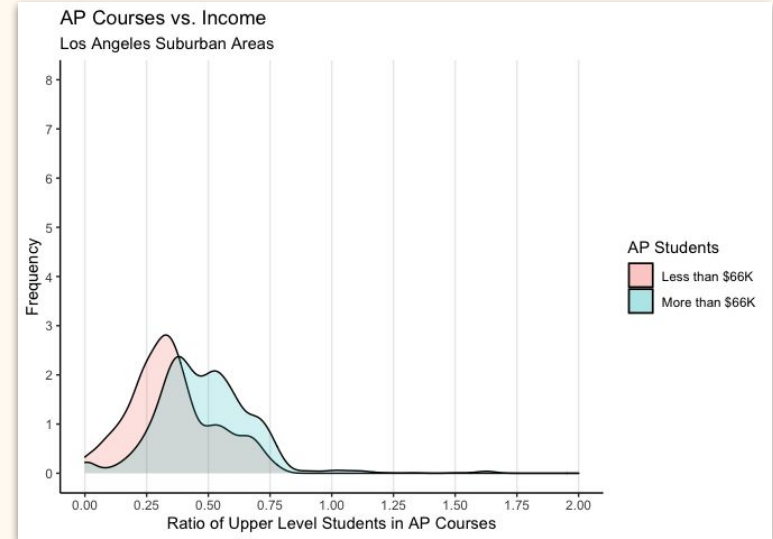
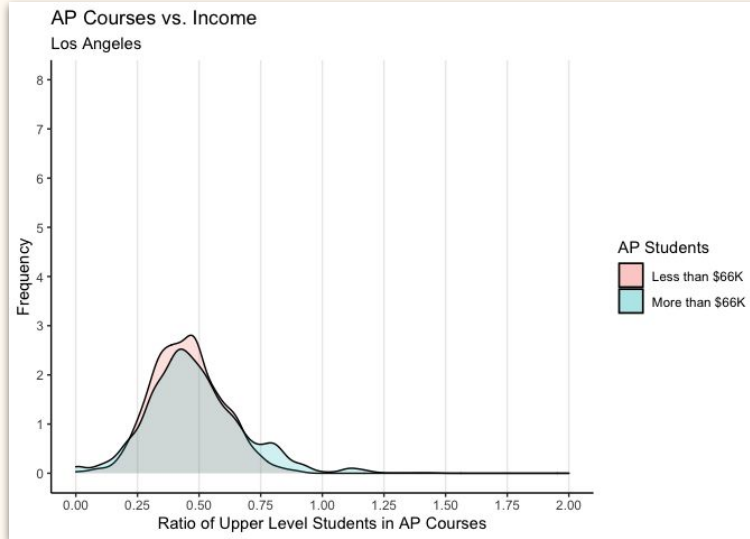


Houston

City vs Suburbs: Advanced Placement vs Income

4.Education

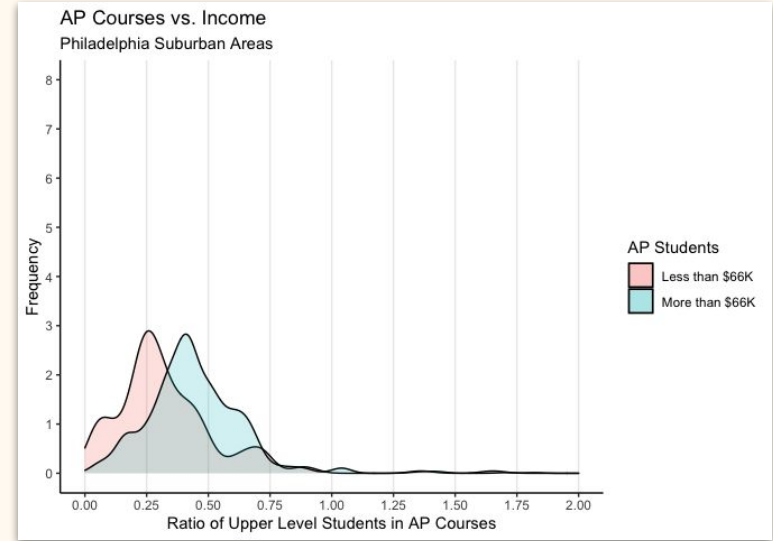
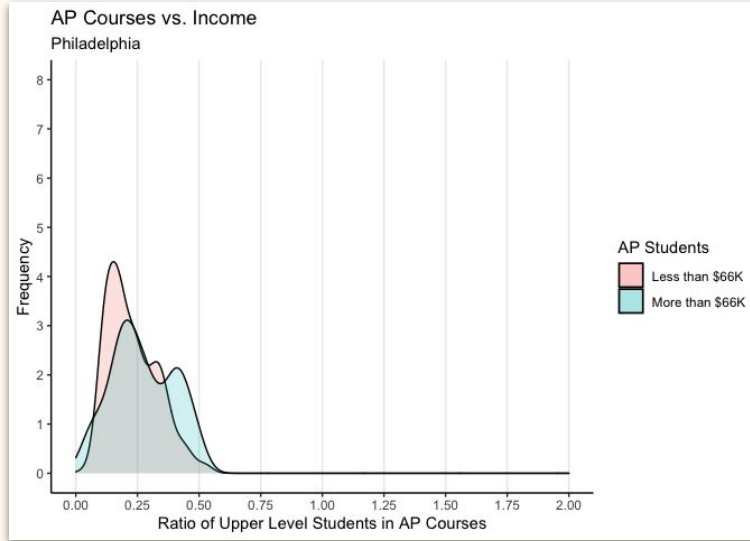
Los Angeles



City vs Suburbs: Advanced Placement vs Income

4.Education

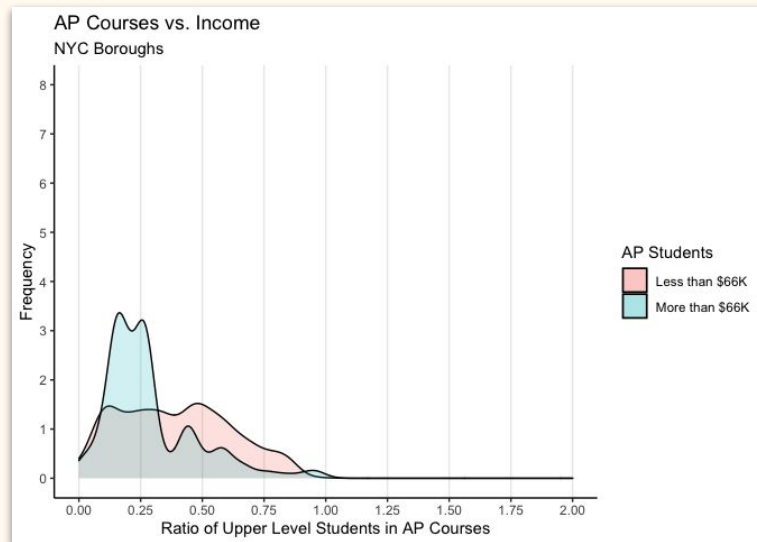
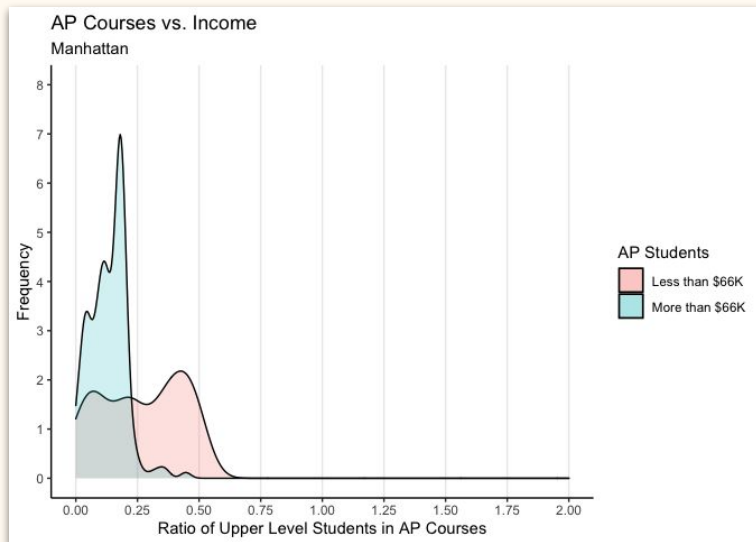
Philadelphia



City vs Suburbs: Advanced Placement vs Income

4.Education

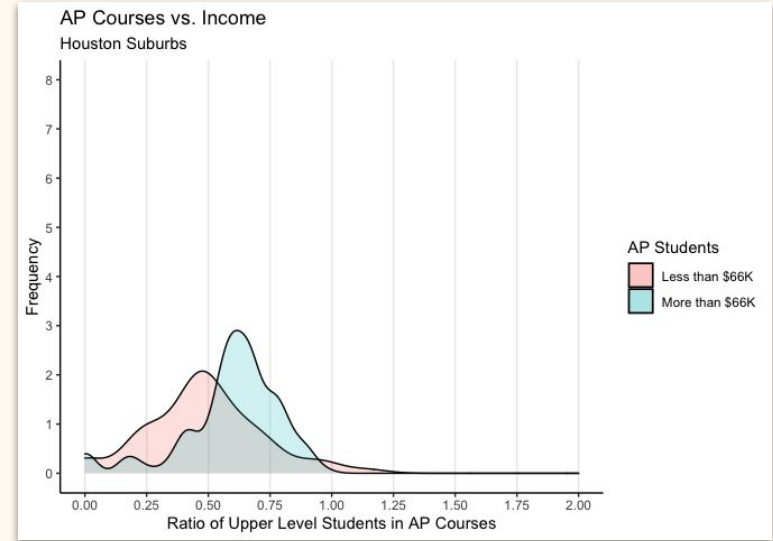
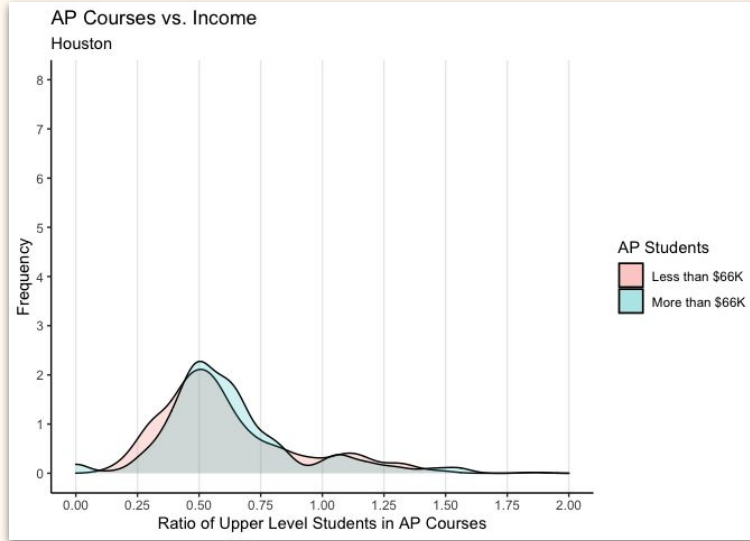
New York City



City vs Suburbs: Advanced Placement vs Income

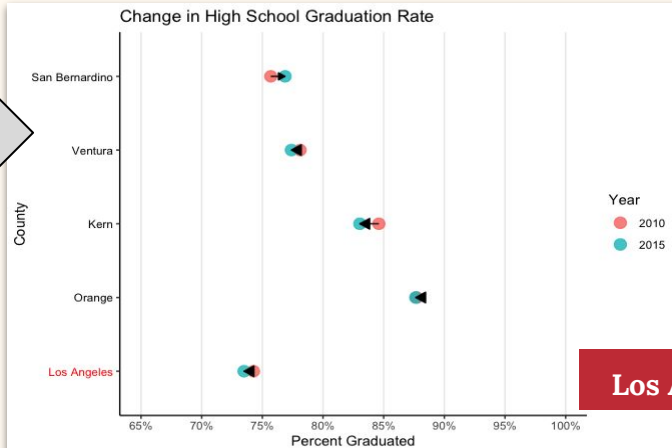
4.Education

Houston

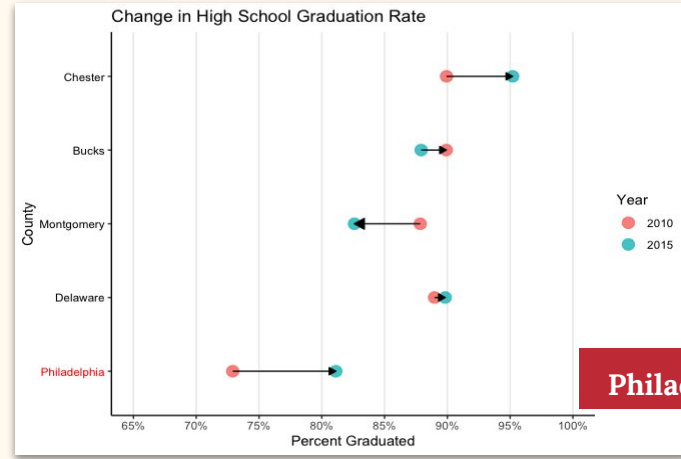


City vs Suburbs: High School Graduation Rate(2010, 2015)

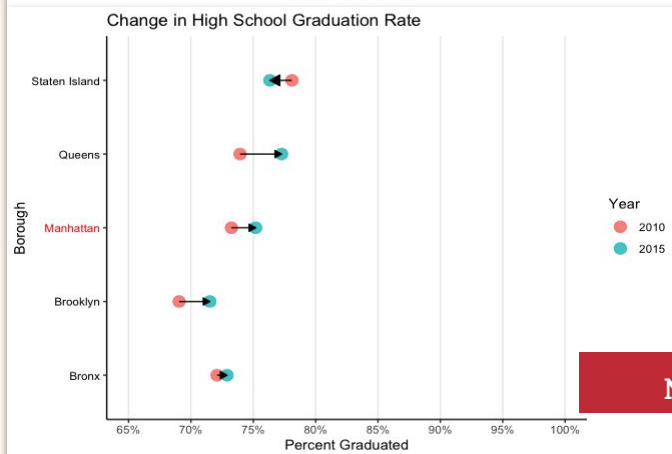
4.Education



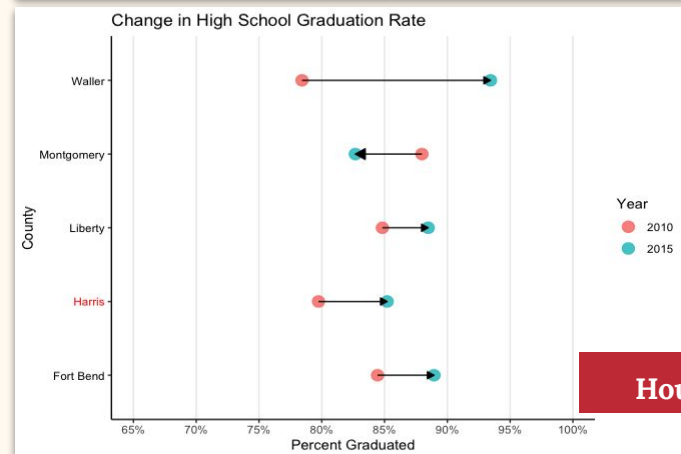
Los Angeles



Philadelphia



NYC



Houston

Machine Learning: K-Means Clustering

5. Clustering

