

Impact of Austin Growth

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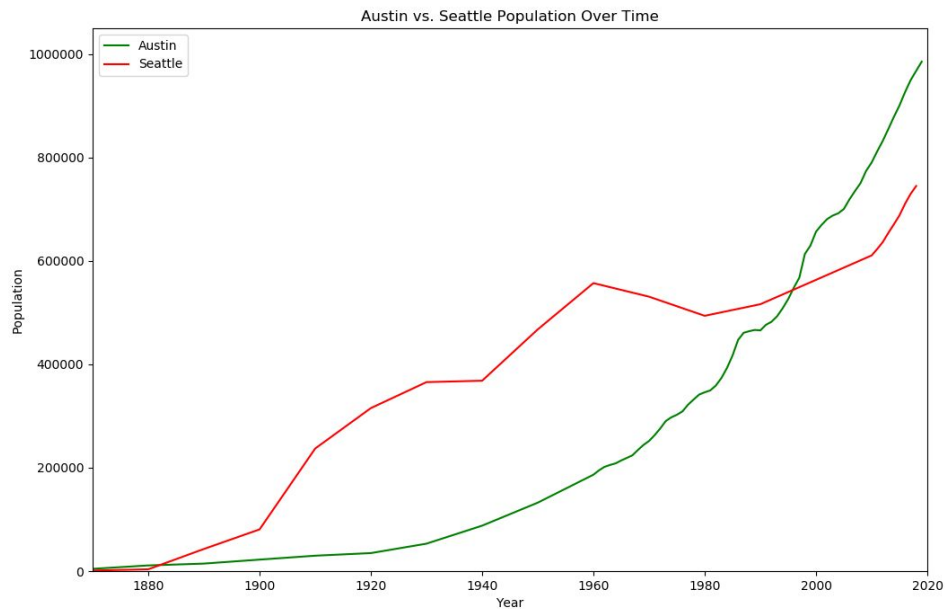
Rolando Navarro, Robert Ottogalli, Travis Tyler

Proposal

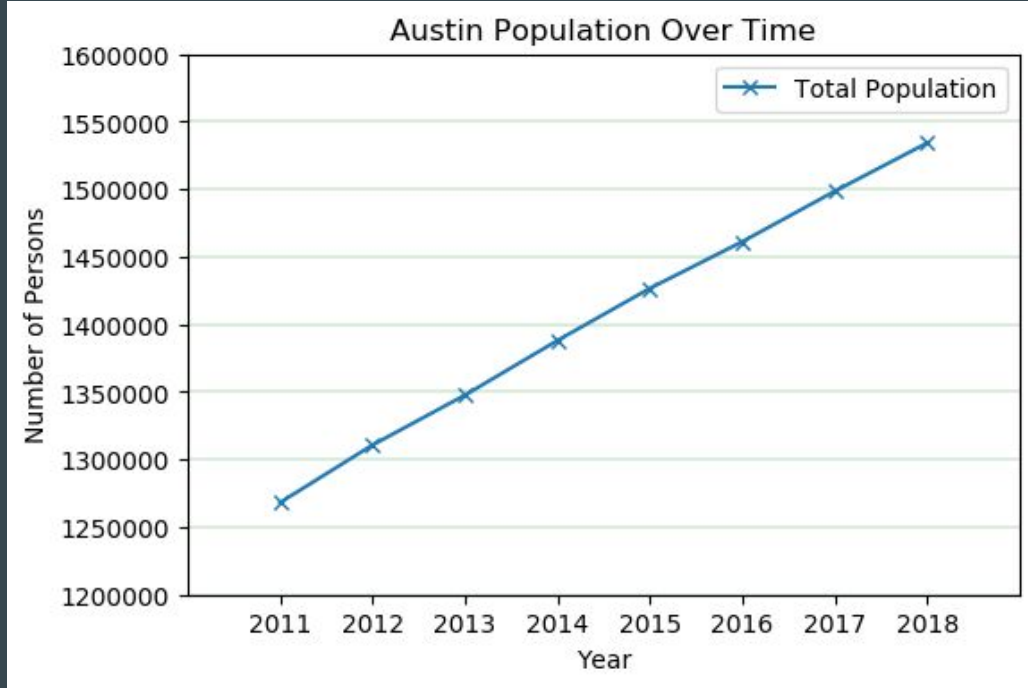
Analyze the population and economic growth of the city of Austin, TX over the last decade and how the trends fit in the broader context of the U.S.

1. What demographic and geographic changes have taken place?
2. How has the population grown?
3. How has growth impacted wealth and income equity?
4. What industries have grown the most over time?

Austin is growing fast!



Austin Metro Population Growth (2011-2018)



Income Equity

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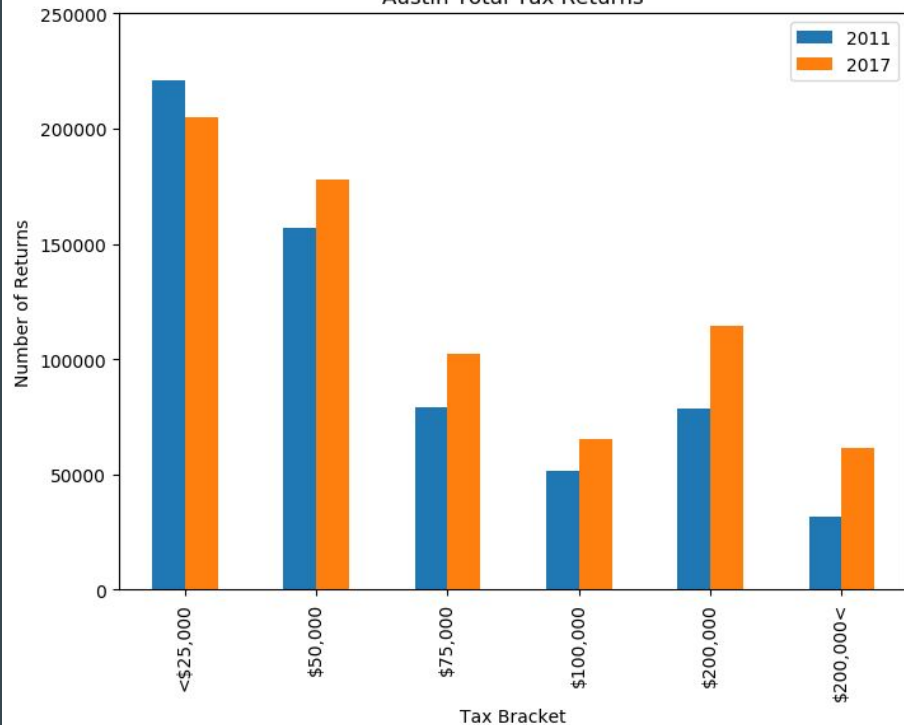
Income analysis

How has Austin's growth affected wealth and income equity?

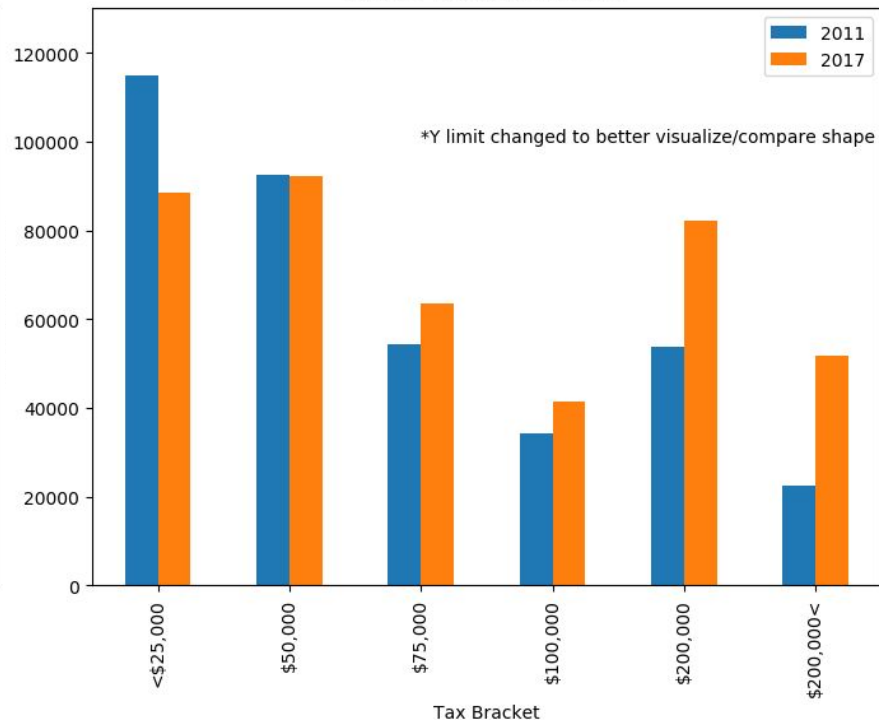
- The rich are getting richer.
- Income trends seem to be in line with U.S. cities with similar populations and industries, such as Seattle.
- Wealth is concentrated in the area of Austin west of I-35.

Tax bracket breakdown (2011 vs. 2018)

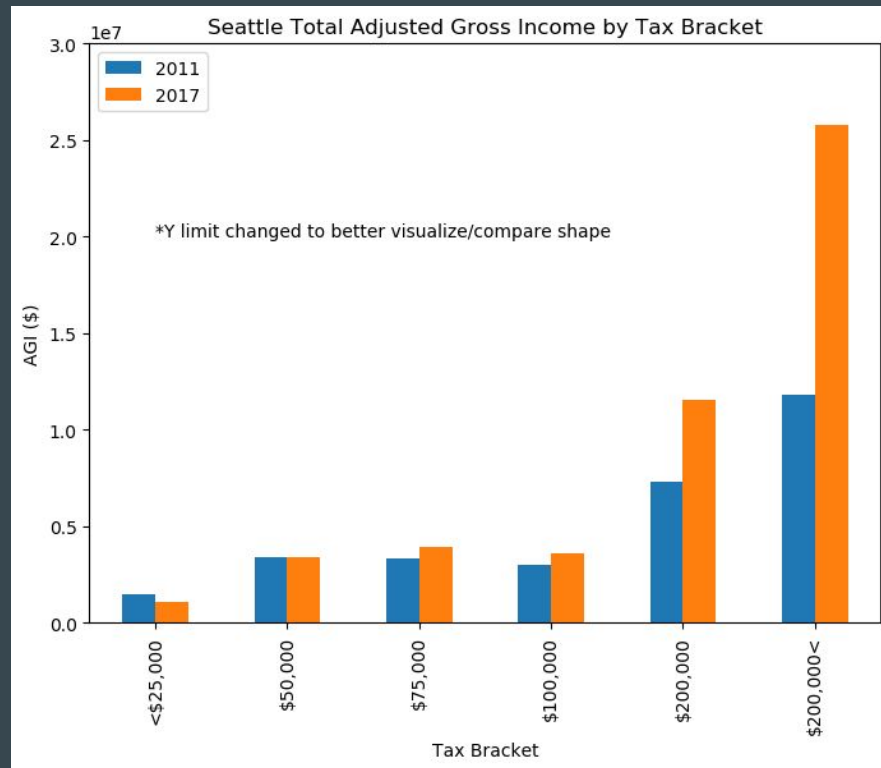
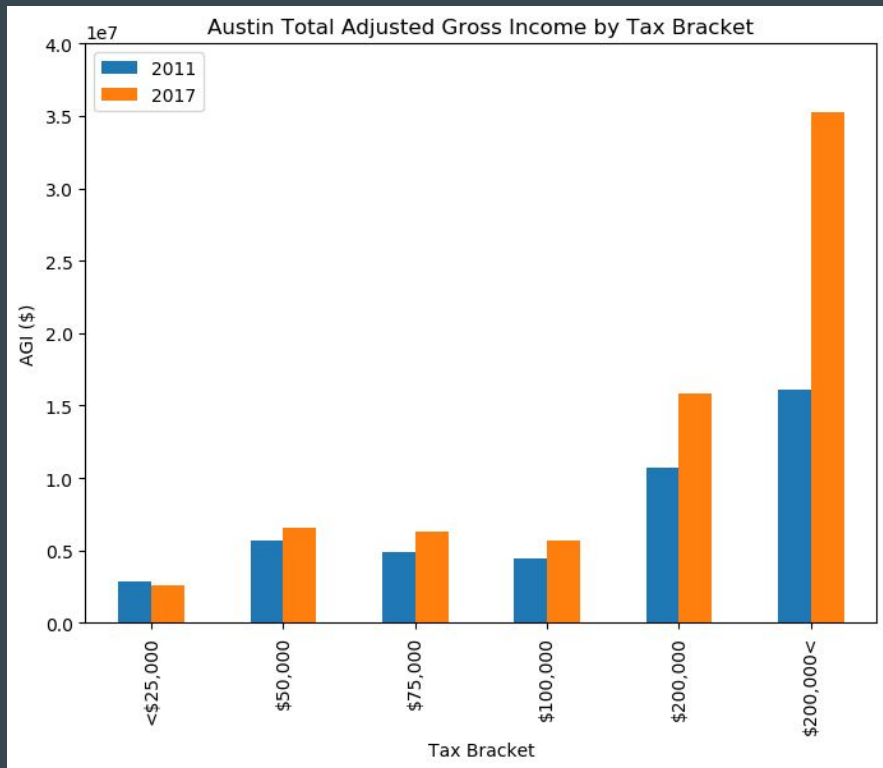
Austin Total Tax Returns



Seattle Total Tax Returns*



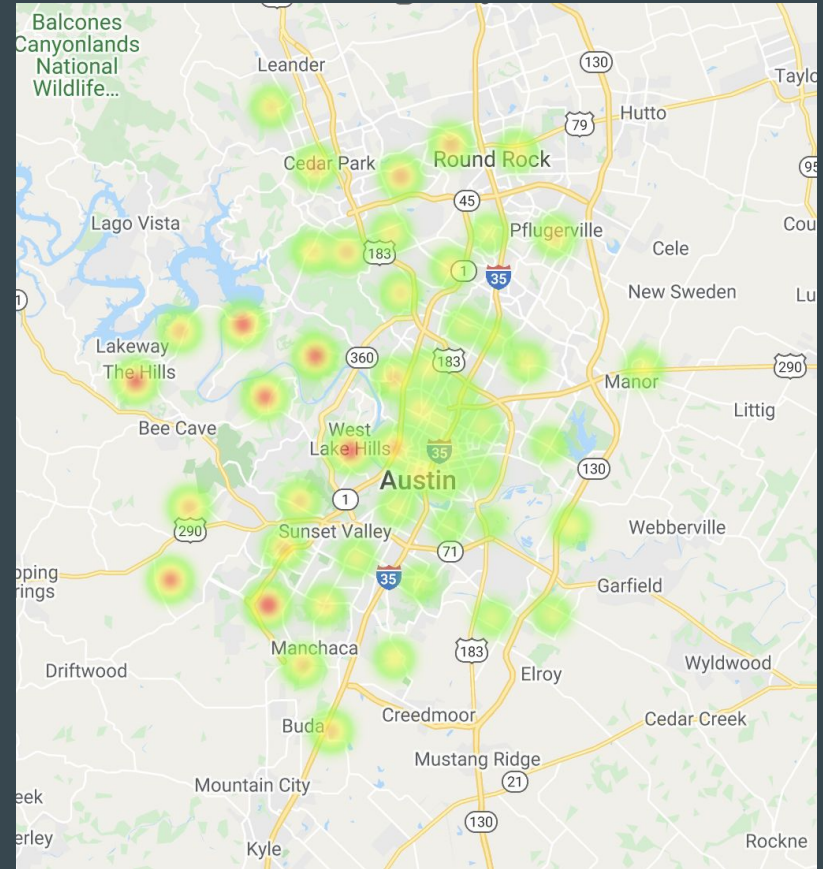
Adjusted gross income by tax bracket (2011 vs. 2018)



The geography of income

Household income by zip code

(Hot spots are zip codes with higher household income)



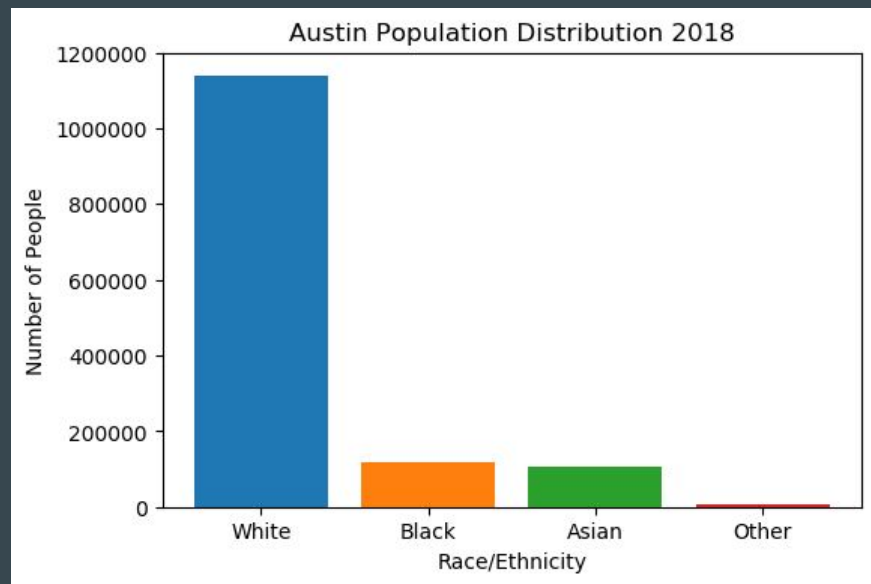
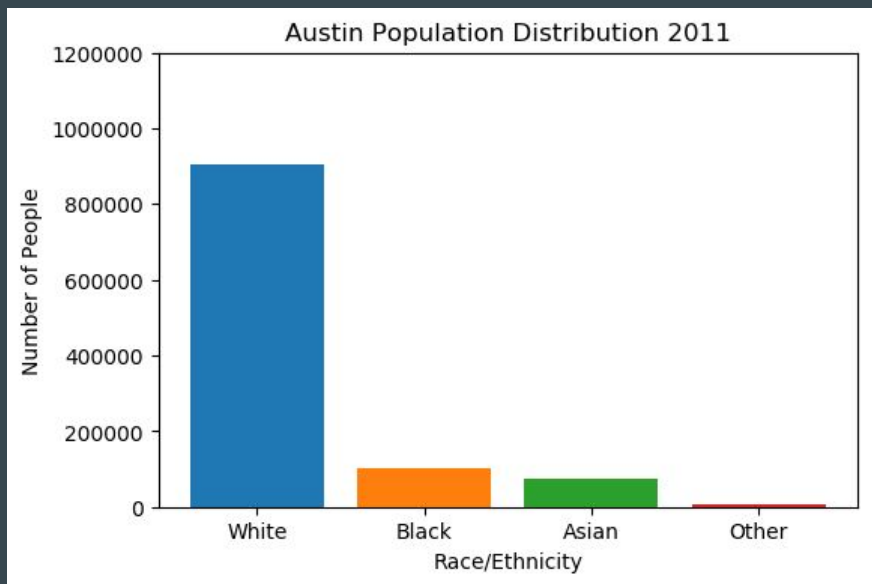
Demographics Trends

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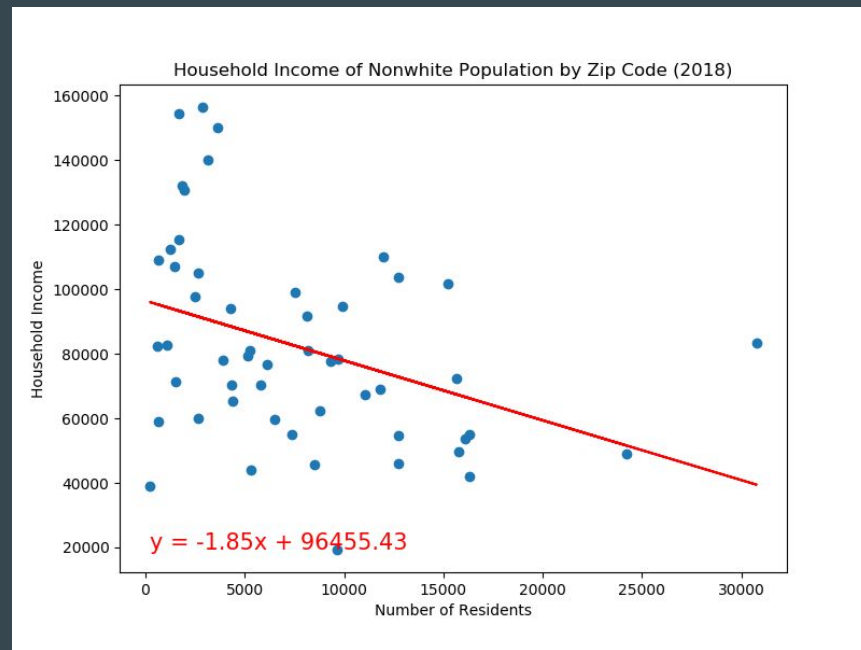
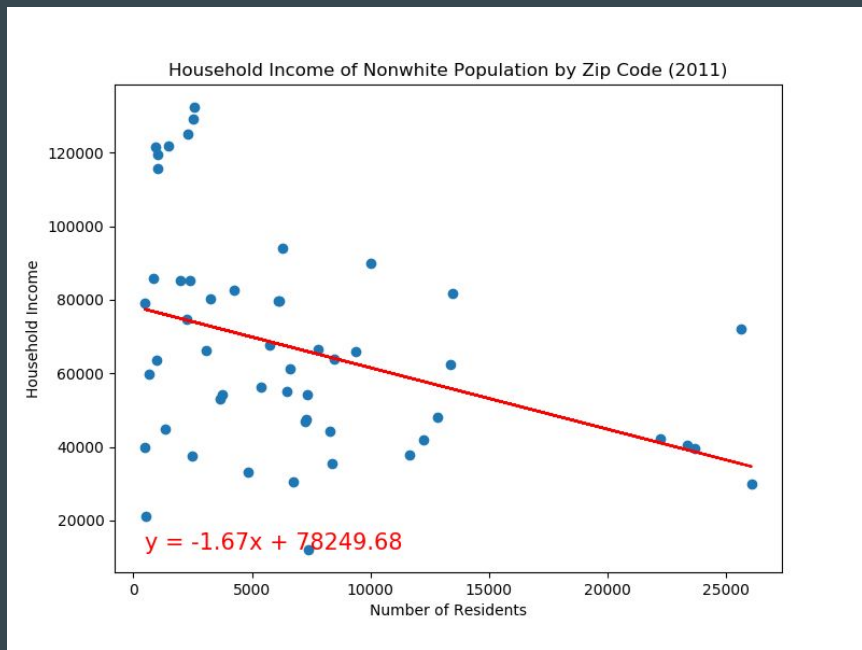
Demographic analysis

- The poverty rate is not distributed evenly across ethnic groups in Austin, with the black population experiencing a higher rate of poverty than white and Asian populations.
- The population growth and economic growth have generally reduced poverty rates across all ethnic groups in Austin.
- Gentrification has taken place between 2011 and 2018 and is especially visible in the east region of Austin.

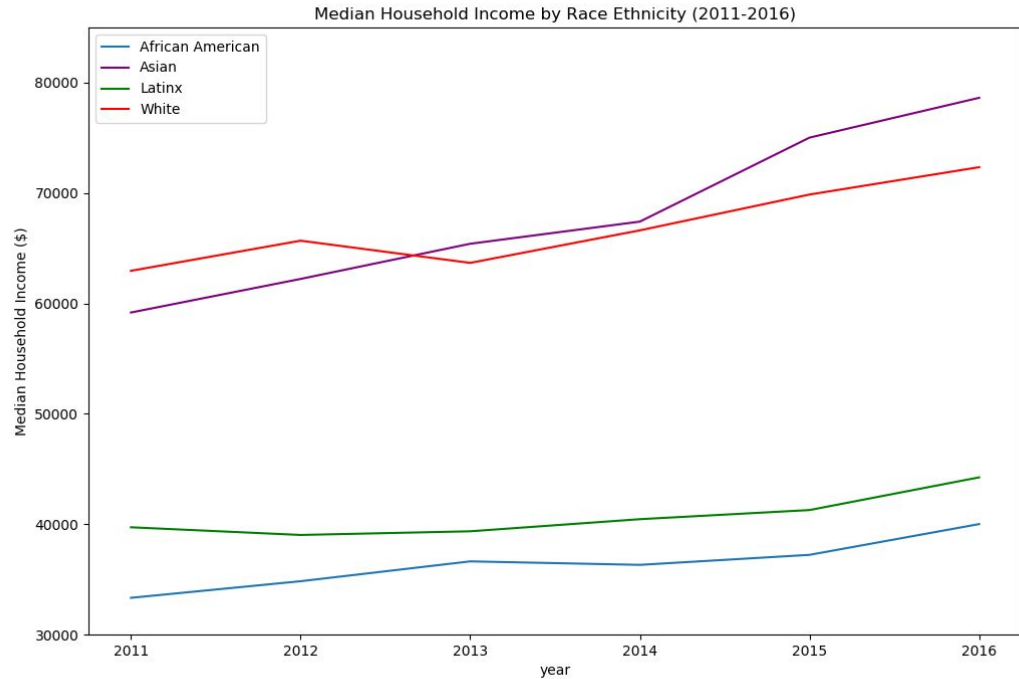
Population Distribution of Ethnicity (2011 vs. 2018)



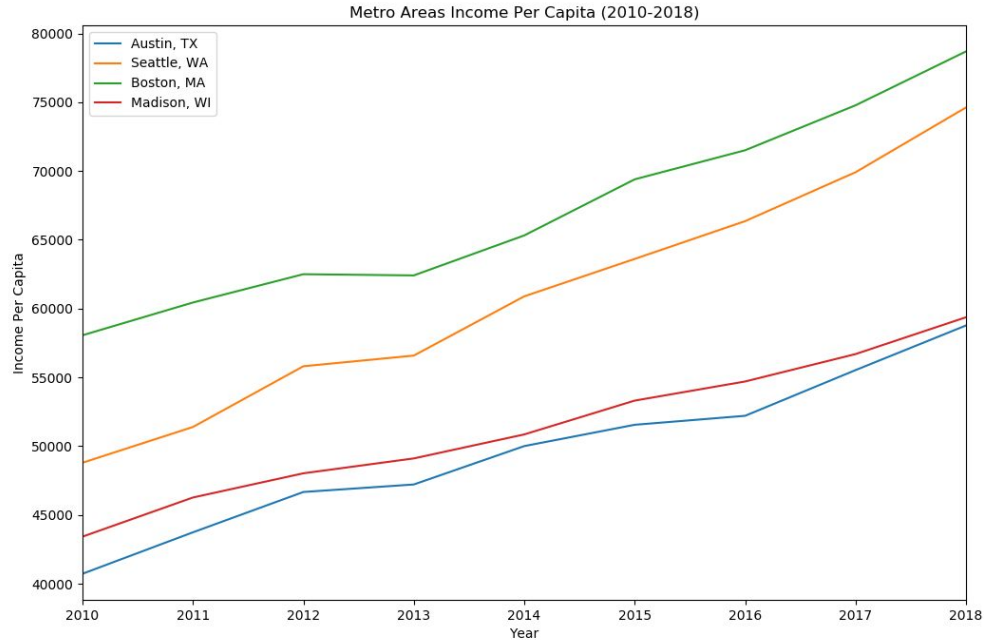
Household income by ethnicity (2011 vs. 2018)



Household income by ethnicity (only Austin)

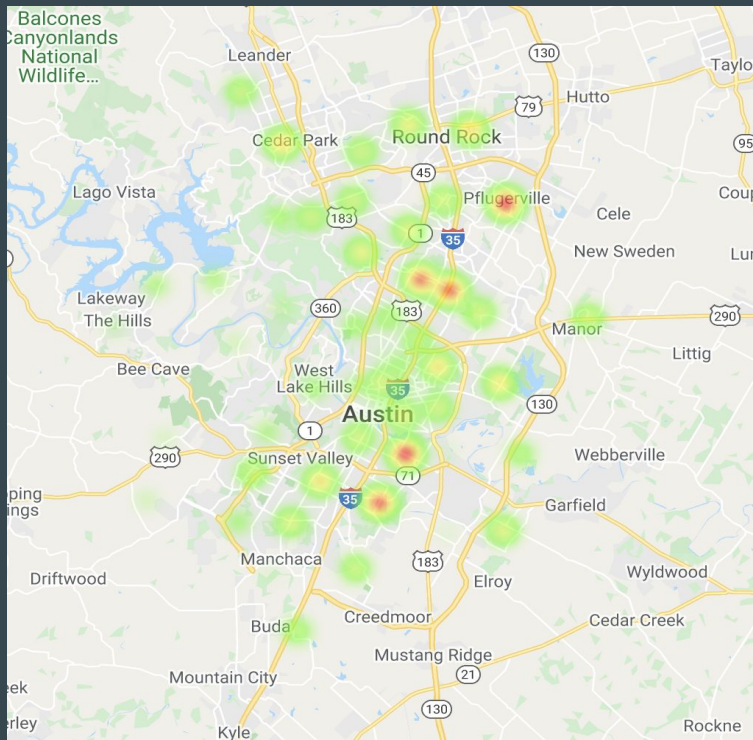


Per capita income by ethnicity (Austin metro area)

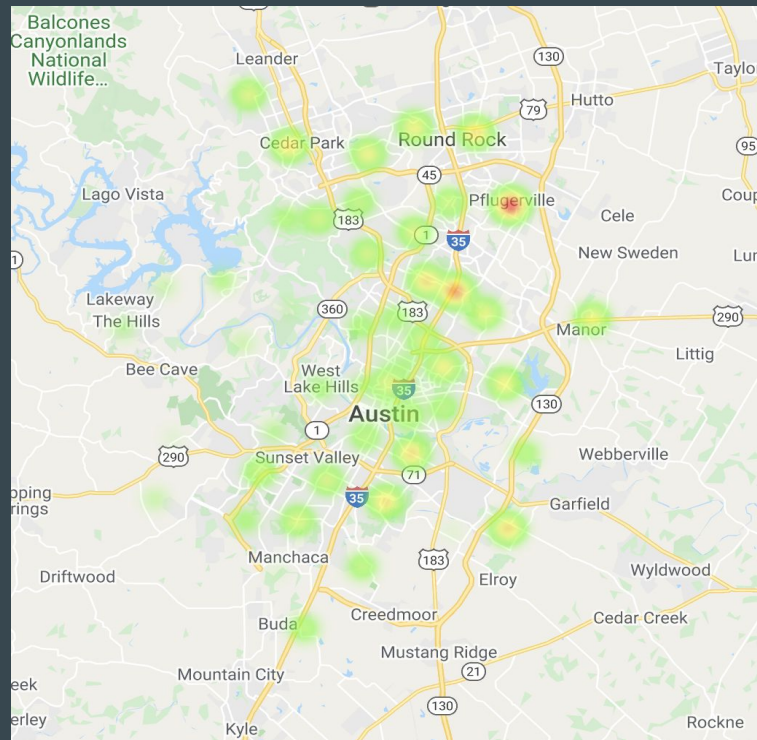


Concentration of nonwhite residents (2011 vs. 2018)

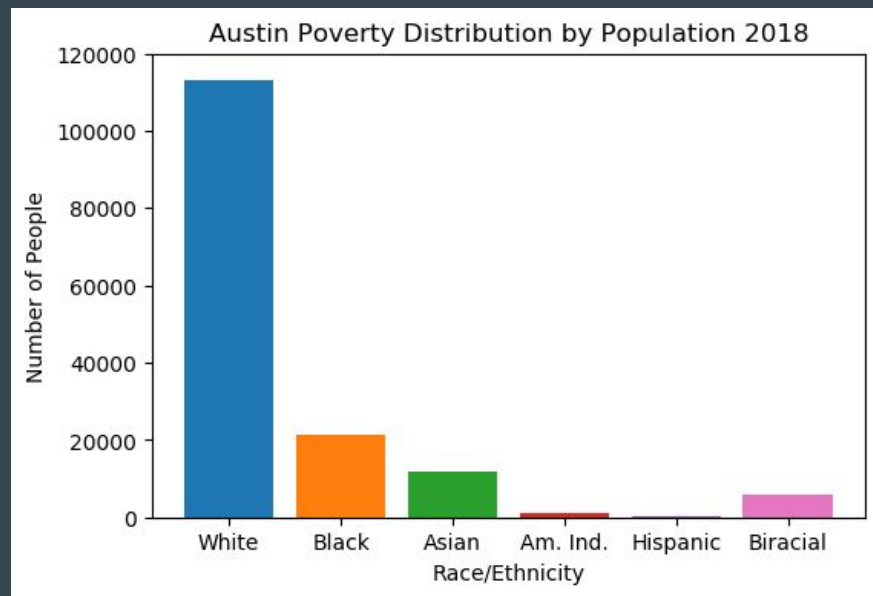
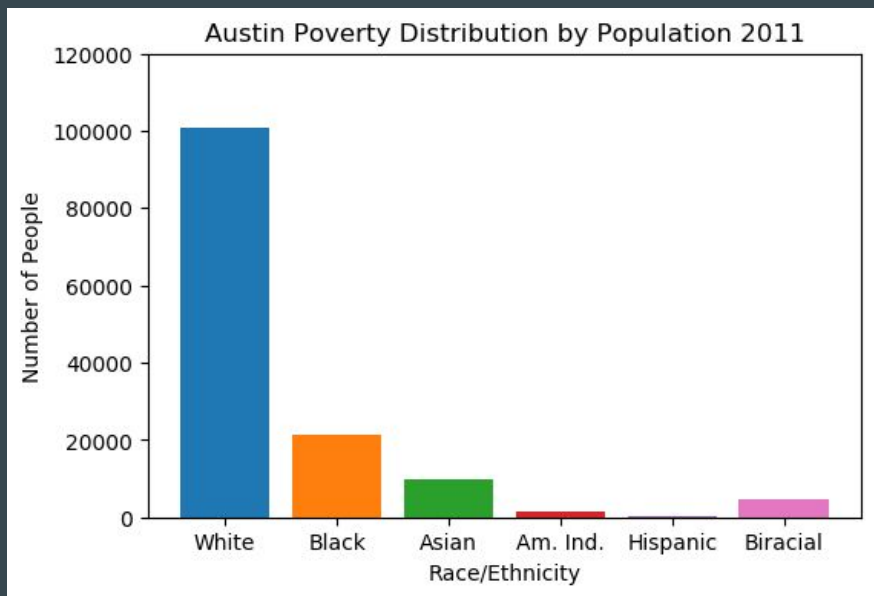
2011



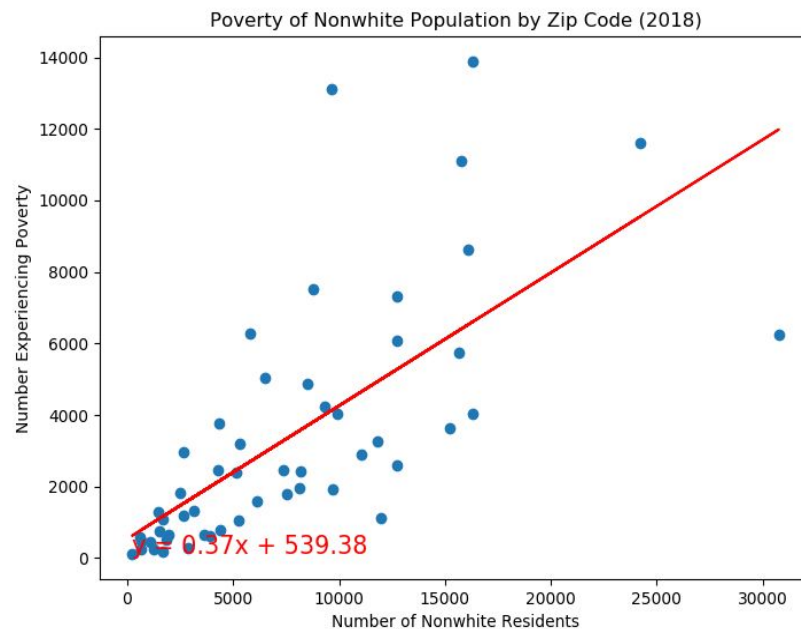
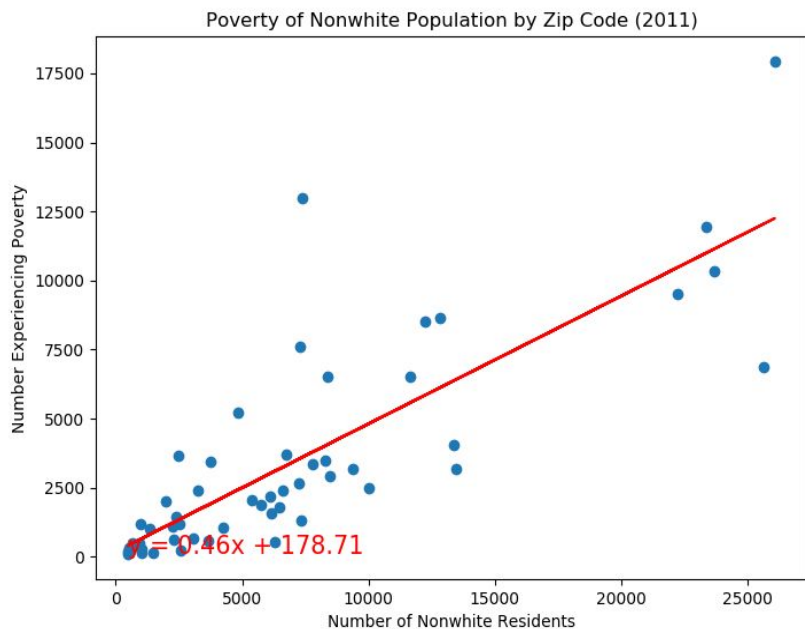
2018



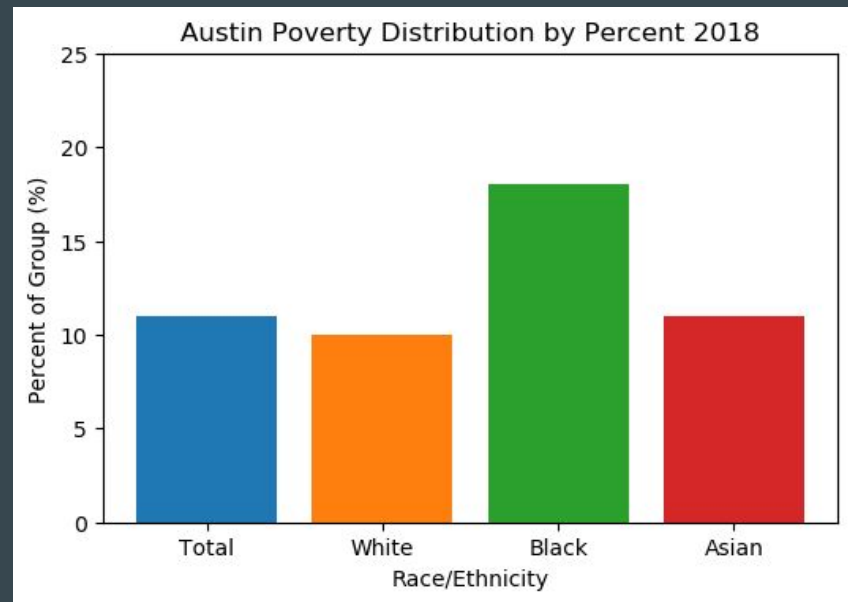
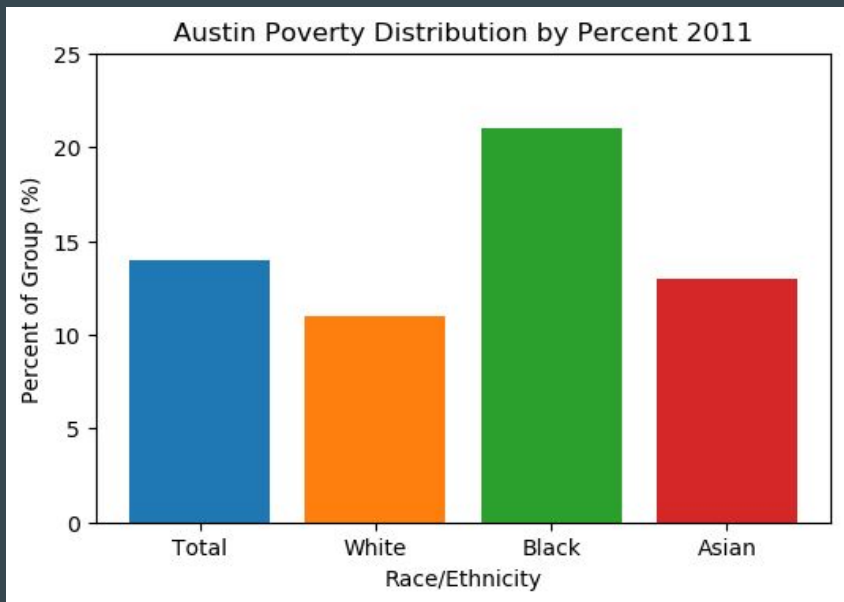
Poverty Distribution by Ethnicity (2011 vs. 2018)



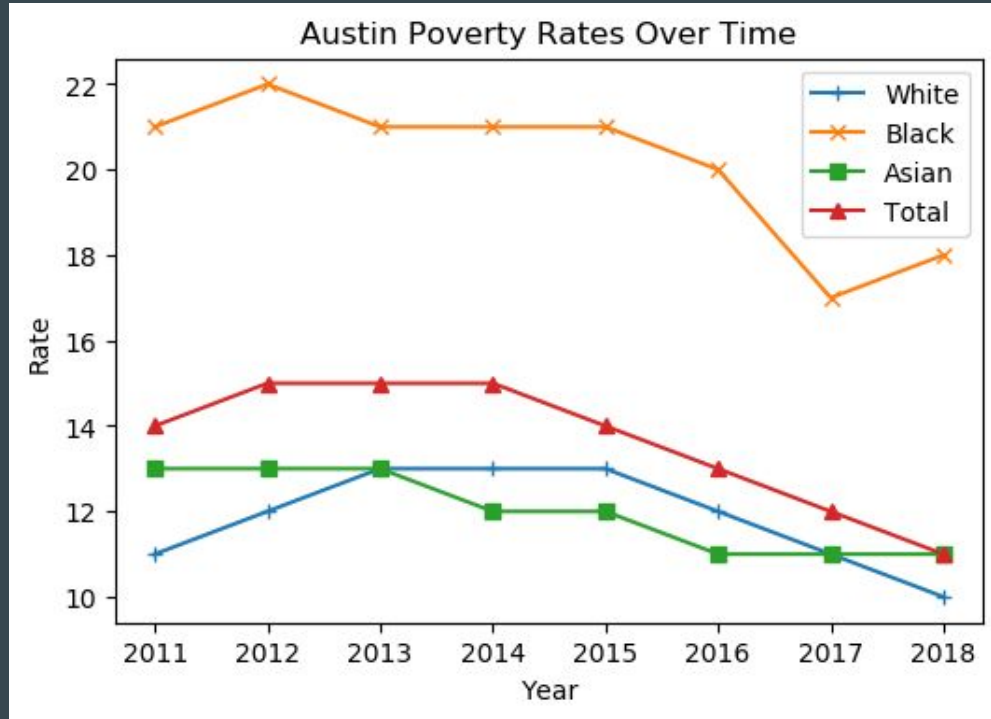
Ethnicity's relationship to poverty (2011 vs. 2018)



Poverty Rate by Ethnicity (2011 vs. 2018)

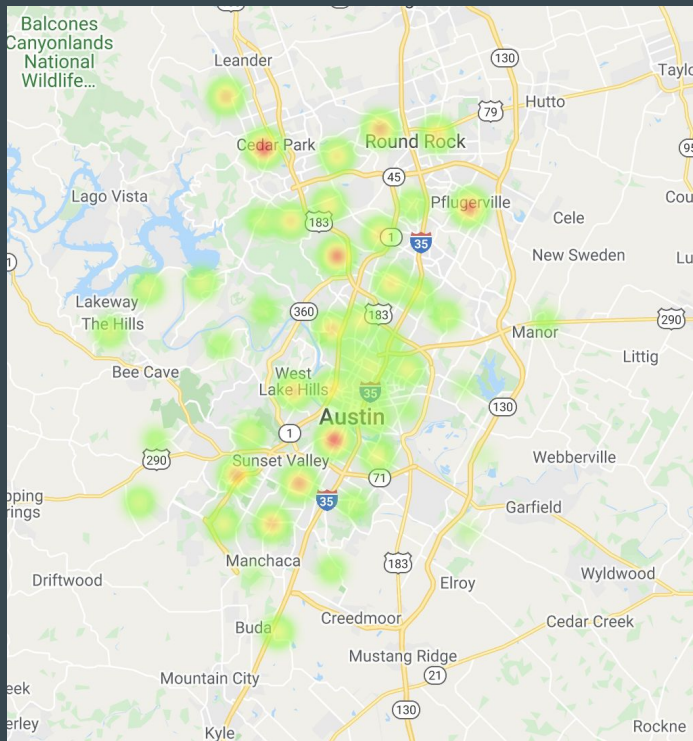


Poverty Rate over Time (2011 vs. 2018)

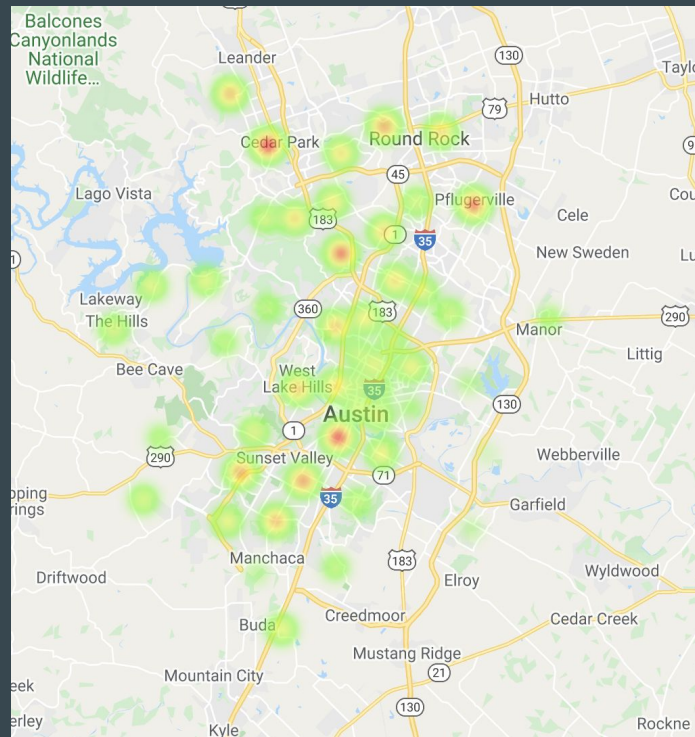


What areas of Austin are most impoverished?

2011



2018



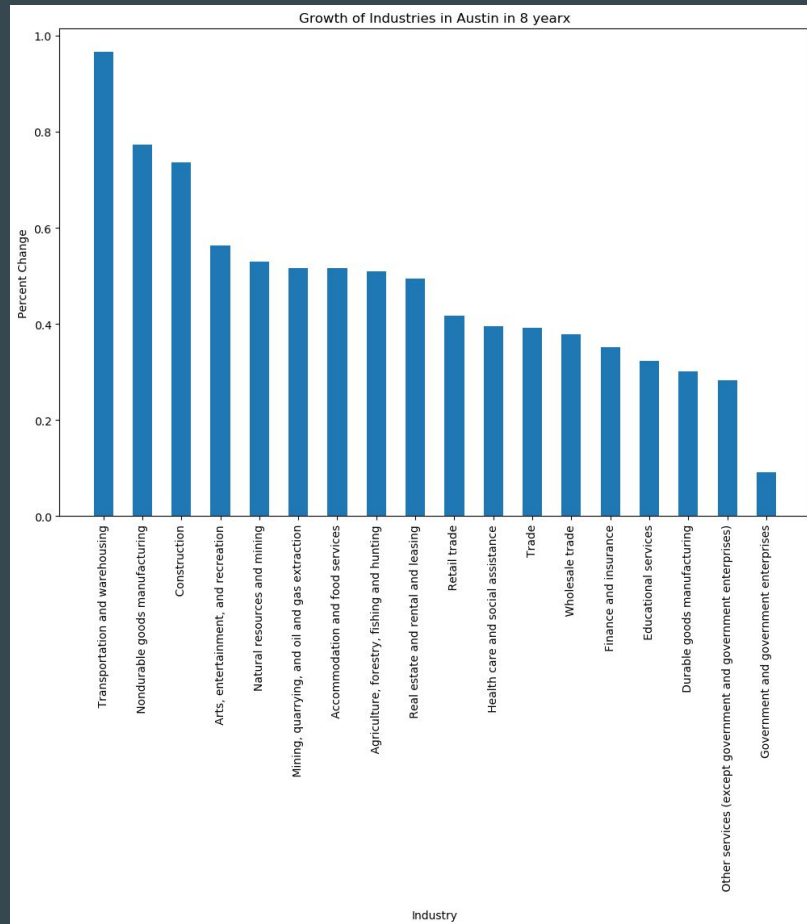
Industry Trends

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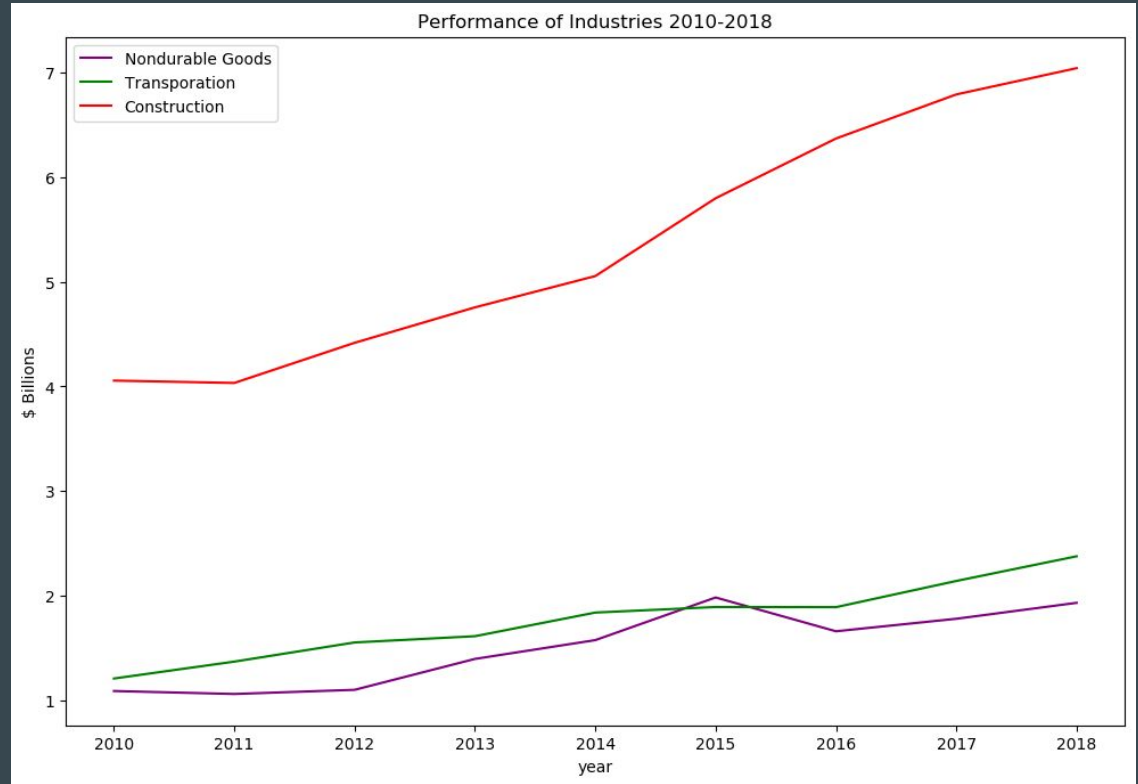
Industry analysis

- Transportation/warehousing is the fastest growing industry in Austin.
- Most construction is happening downtown and in the region between I-35 and MOPAC, with zip code 78704 experiencing by far the most.
- Income across most occupations has increased between 2011-2018, with tech jobs increasing the most.
- Legal occupations remain the highest paid
- Income and workforce of farming, fishing and forestry jobs have decreased by far the most.

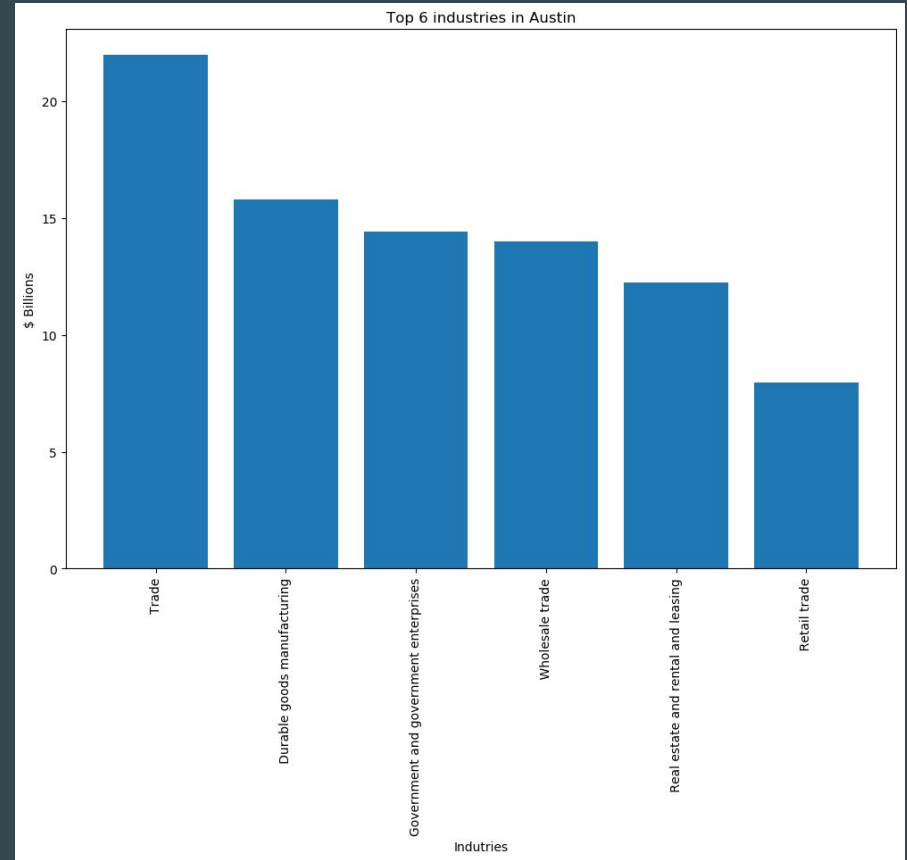
Industries that experienced the most growth (2010-2018)



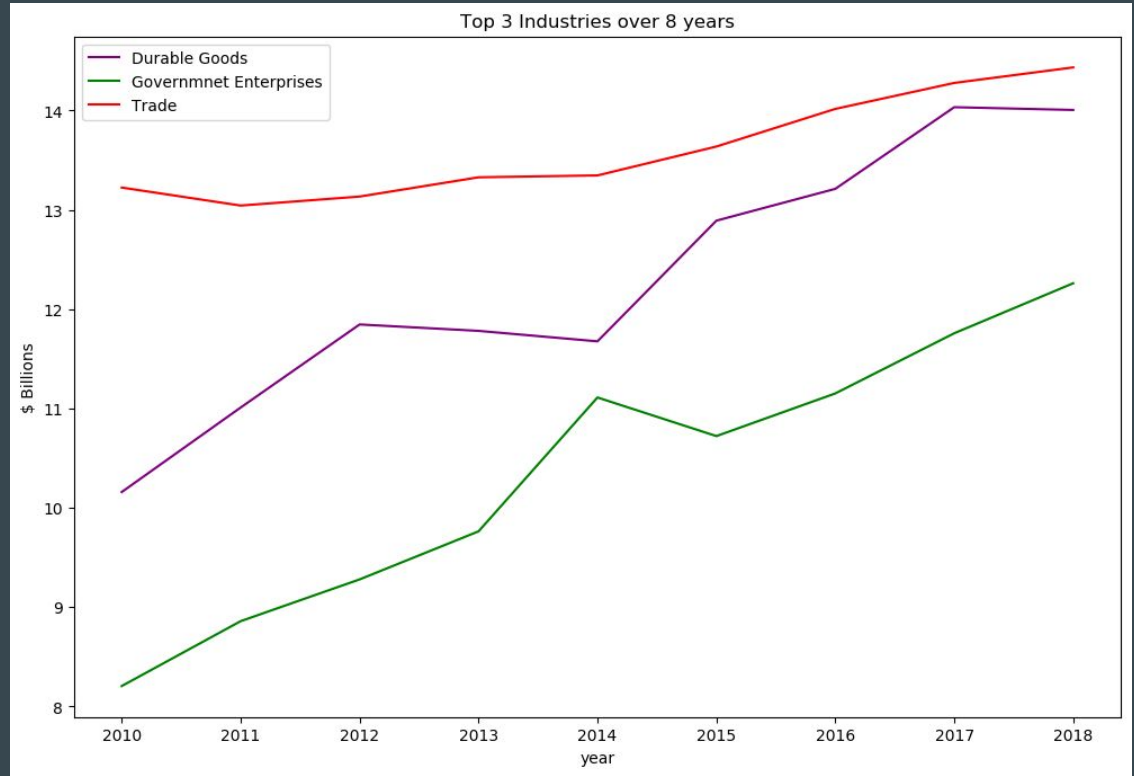
Industry in Austin



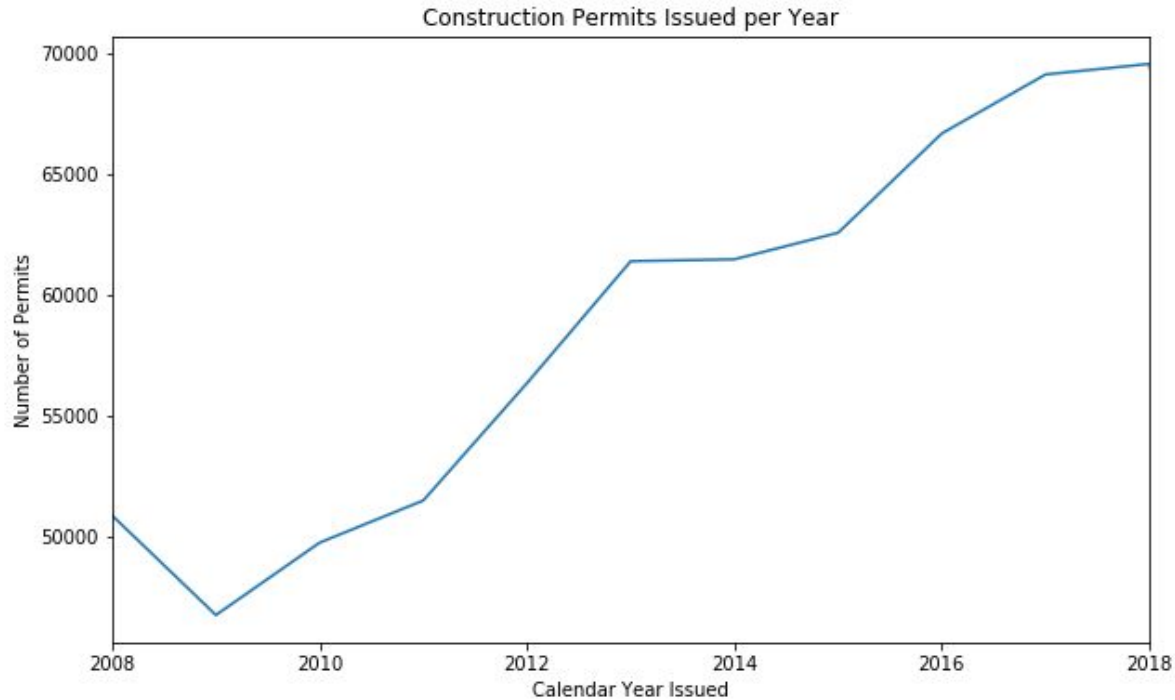
Dominant Industries



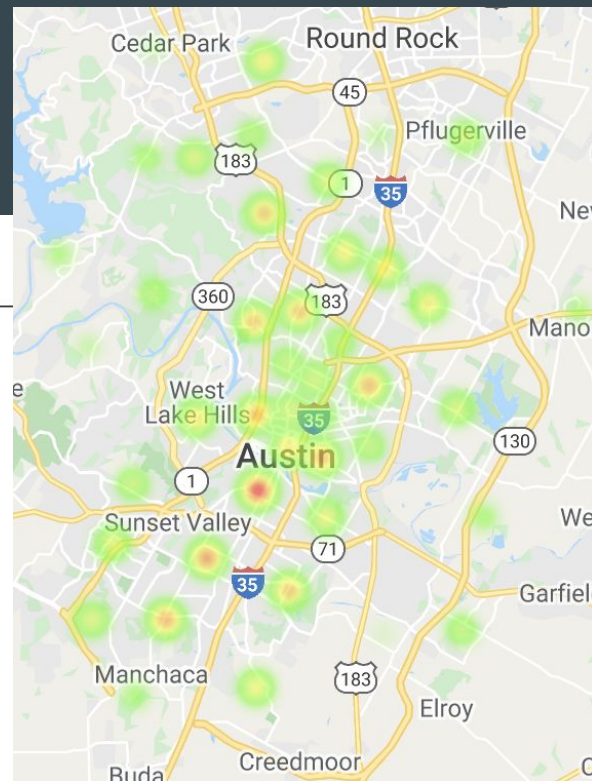
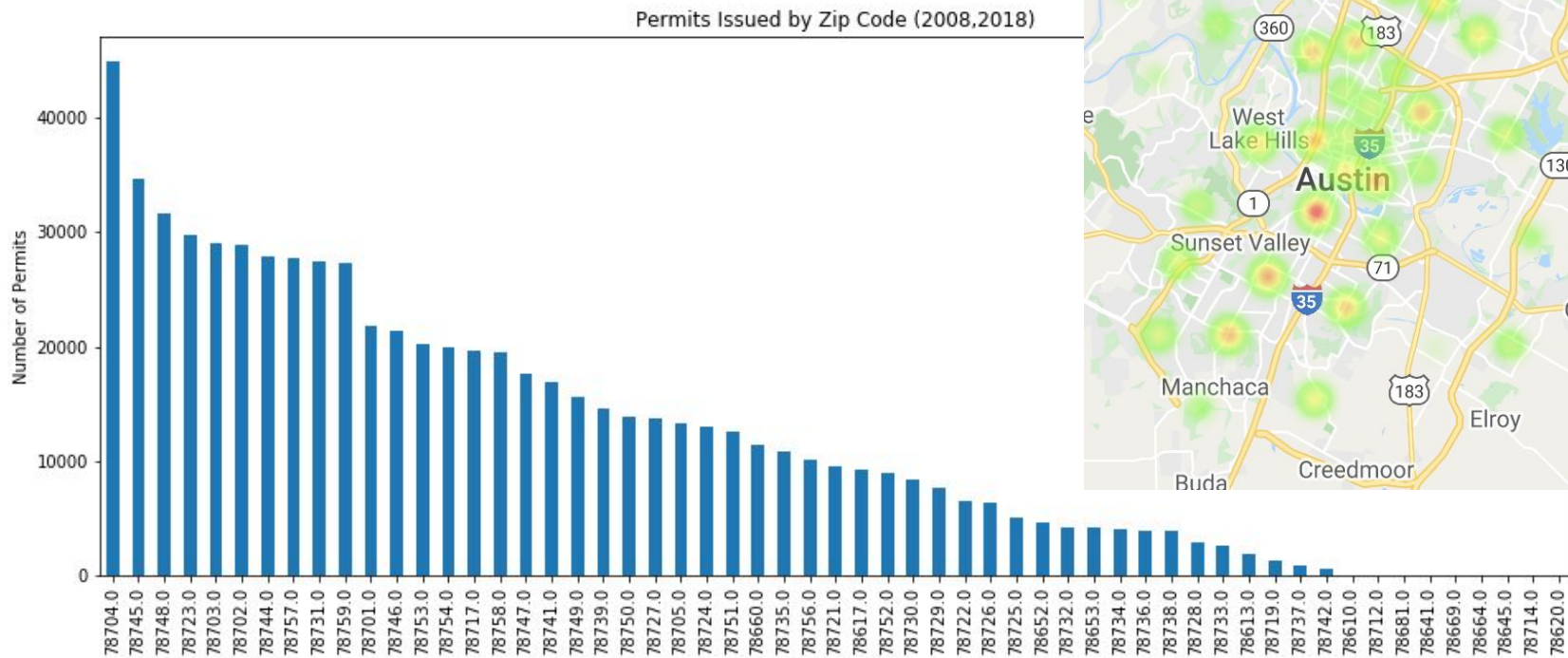
Growth of top 3 industries (2010-2018)



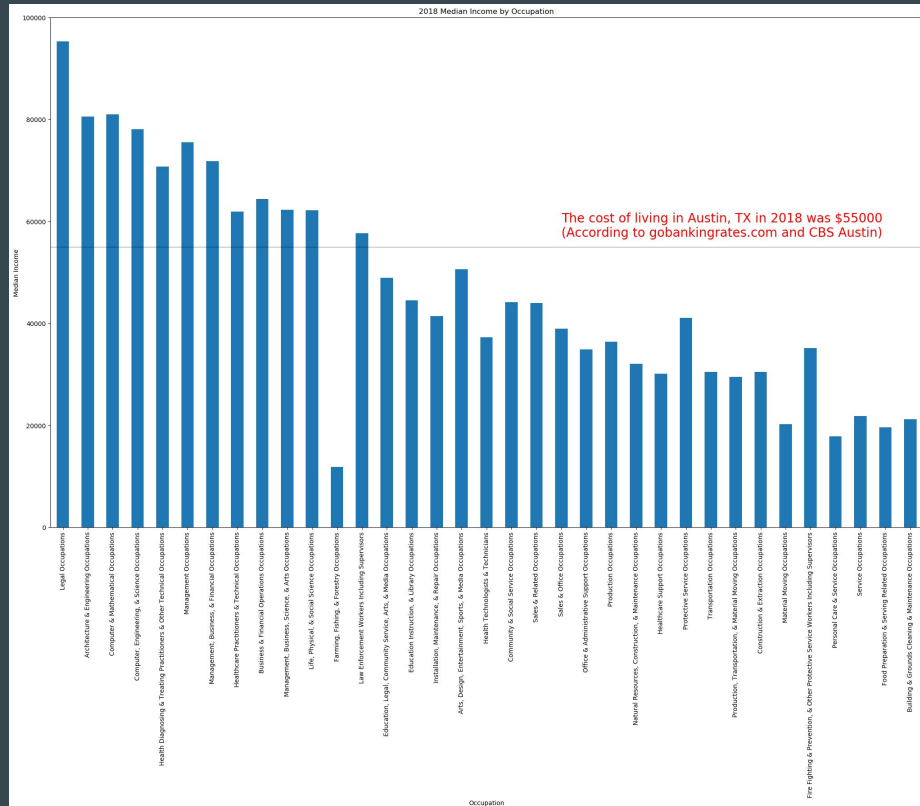
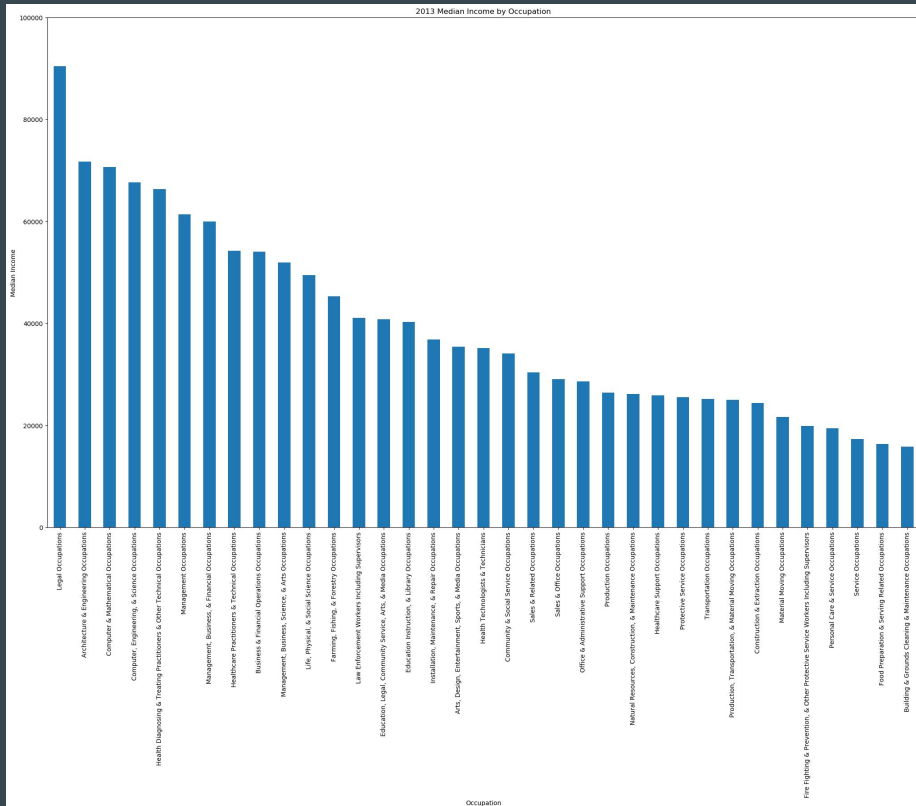
Constructions permits issued by year



Where is construction happening?



How do Austinites make money? (2013 vs. 2018)



Conclusion

1. Austin's changing technological and industrial landscape has contributed to increased income across all ethnic groups in Austin.
2. It has also led to greater inequity between the top income brackets and lower income brackets, and can be observed in the gentrification on Austin's East side.
3. There is a strong correlation between wealth/poverty and ethnicity.

Data sources

- U.S. Bureau of Labor Statistics
(https://www.bls.gov/oes/2018/may/oes_12420.htm) (CSV)
- U.S. Bureau of Economic Analysis
(<https://www.bea.gov/data/by-place-county-metro-local>) (CSV)
- U.S. Census Bureau (<https://www.census.gov/>) (API call)
- U.S. Internal Revenue Service (<https://irs.gov>) (CSV)
- City of Austin (<https://data.austintexas.gov/>) (CSV)