BAND Tableau Final Project
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As a native New Yorker who has lived and/or worked in each of the four counties in this analysis, it was important for me to better understand if there are any correlations between the ethnic composition of counties (boroughs) and markers of poverty to better understand what has led to the housing crisis in New York City. Staten Island county, the fifth borough of New York City, was not included in this data set.

References Used:
http://math.uchicago.edu/~selma/DataFoundations/ (White paper only)

Insight #1
https://public.tableau.com/views/BANDCensusProject-PovertyMedianIncome/PovertyChildPovertyinNYC?:language=en-US&publish=yes&:display_count=n&:origin=viz_share_link

This dashboard displays poverty, child poverty, and median income per capita across the four counties of New York City. New York county (Manhattan) leads with a median income per capita of $64,993 and it also has the largest white population with 47.10%. In comparison, the other three counties have a median income per capita below $30,000 and larger Black, Hispanic, and Asian populations. There are many wealthy neighborhoods of New York county with residents sometimes making over $100,000 annual salary that skews this data. This data would imply that mostly wealthier people live in New York county, however this data does reflect the various neighborhoods, including my own home area, that are predominantly Black and Hispanic and have lower median incomes more consistent with the other boroughs. In addition, because of the metropolitan nature of New York county, there are more office and retail locations in this county relative to its size. The Bronx leads the counties with poverty and child poverty at 35.27% and 35.33%, respectively. Kings county follows with 27.30% and 26.70%, respectively.

Design Choices:
- Color-Blind appropriate palette selected for readability
- Use of a circle chart in contrast with bar graphs for diversity of information

Insight #2
https://public.tableau.com/views/BANDCensusProject-Commute/CommutingInNYC?:language=en-US&publish=yes&:display_count=n&:origin=viz_share_link

This dashboard uses two maps to show transit, walking, and driving across the four counties. When comparing the commuting methods of each county, Kings takes the lead in transit use with 61.7% while Queens leads with driving at 31.60%. The sizes of Kings and Queens alone reduce the walkability of these counties in comparison to New York county with 20% of residents walking to work. The Bronx takes second place on both the transit and driving metrics which is

consistent with the lack of walkability in this county as well. New York has a large transit using population of 59.20% while simultaneously having the lowest driving population of 6.10% which implies there may be barriers to car ownership in this county, namely space.

Design Choices:
- Color-Blind appropriate palette selected for readability
- Use of a map to show the area of each county

Insight #3
https://public.tableau.com/views/BANDCensusProject/EmploymentUnemployment?:language=en-US&publish=yes&:display_count=n&:origin=viz_share_link

This dashboard compares employment, self employment, and unemployment across the four counties. The Bronx leads with unemployment and comes in last for employment and self employment, which makes sense given the percentages of poverty in this county. Surprisingly, Kings leads with total employment of 1,167,448 despite the fact it comes in second for poverty and child poverty. The county with the highest self-employment is New York, which could be correlated to having the highest income per capita and largest white population of the four counties. Through first hand experience, New York has the largest concentration of start-up companies with substantial financial backing, Fortune 100s and 500s, and venture capital firms which can account for the high self-employment rate.

Design Choices:
- Color-Blind appropriate palette selected for readability
- Highlight table used to show total employment numbers per county with readability