



# UNEQUAL STOPS

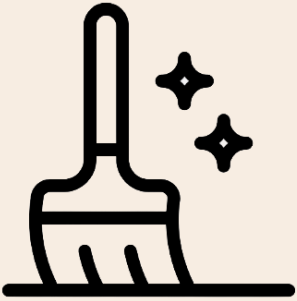
Racial Disparities in Law Enforcement Encounters

# Context

Are *Black drivers* getting stopped  
**more** so than *White drivers*?



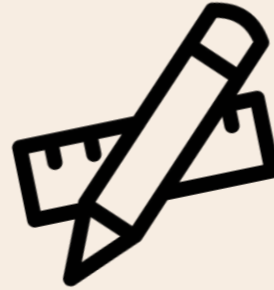
# Project Role



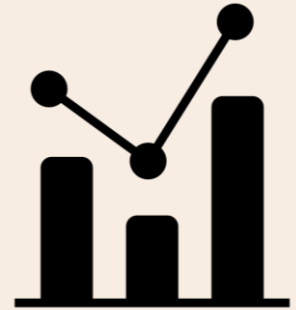
Data Cleaning and  
Manipulation



Geocoding



Measurement



Data  
Visualization

# The Data

Police vehicle stops data  
Neighborhood shapefiles

Demographic details from ACS  
for Census tracts but not  
neighborhood

*Conducted areal interpolation and merged data*

# Areal Interpolation

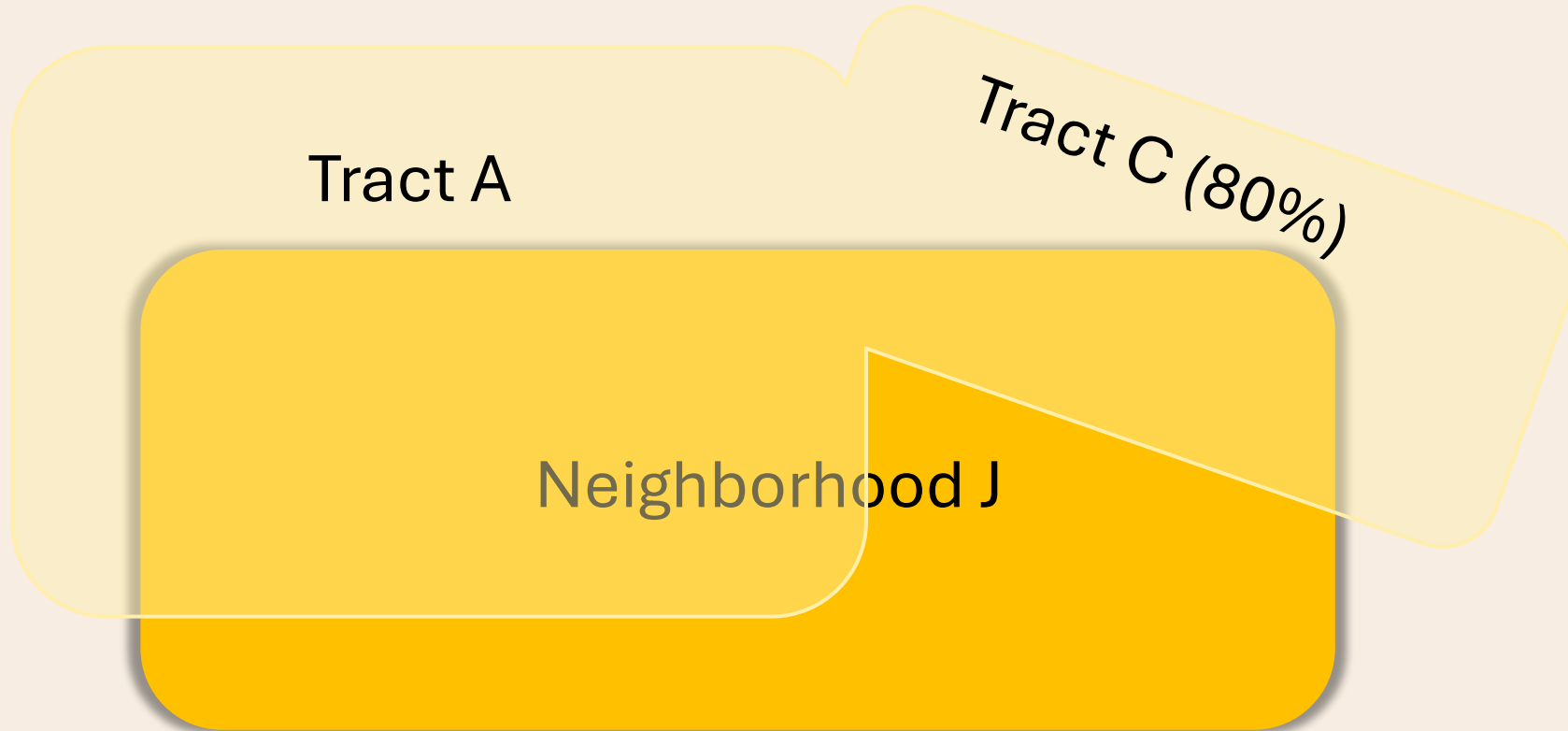
Neighborhood J

# Areal Interpolation

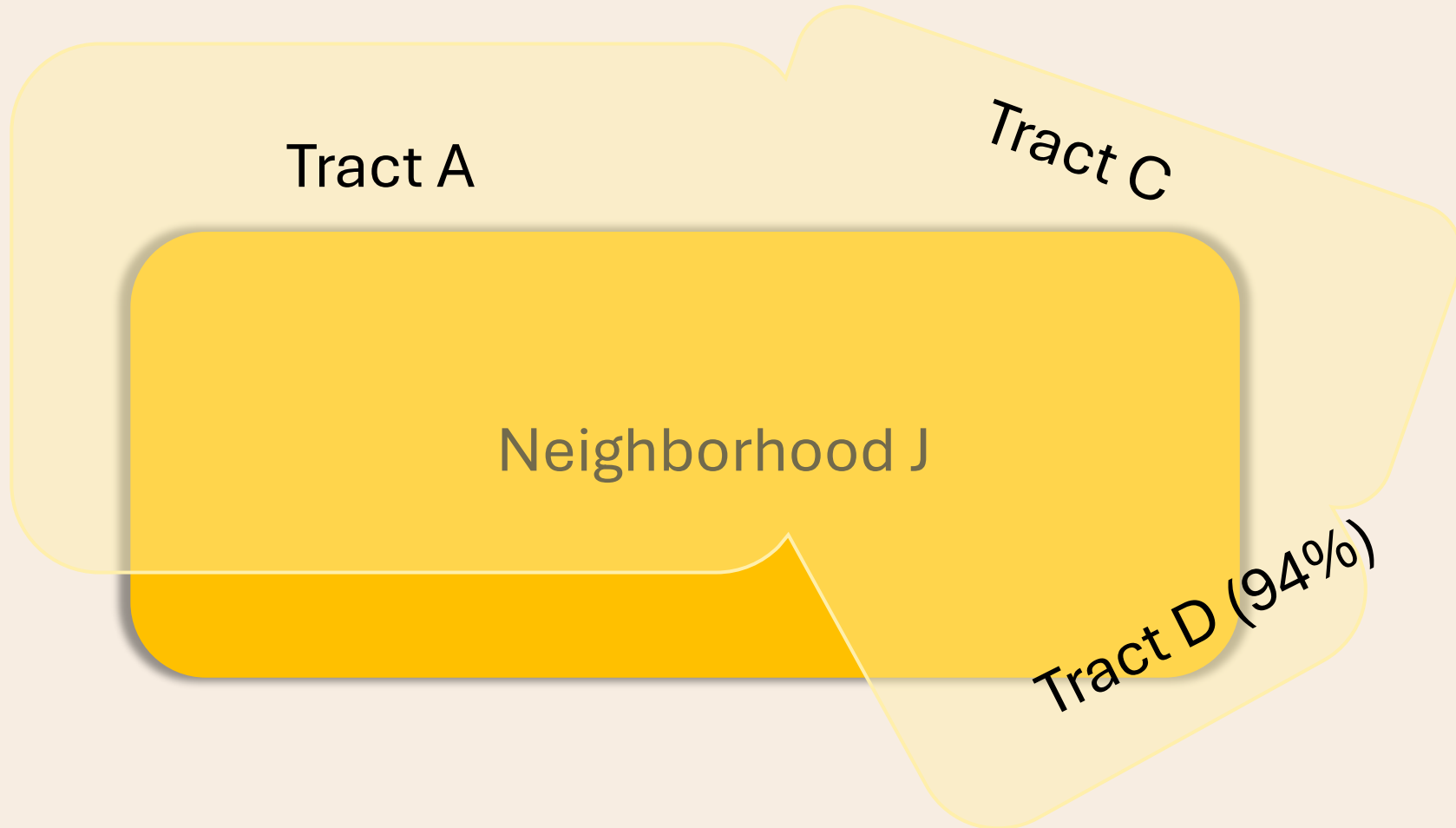
Tract A (90%)

Neighborhood J

# Areal Interpolation

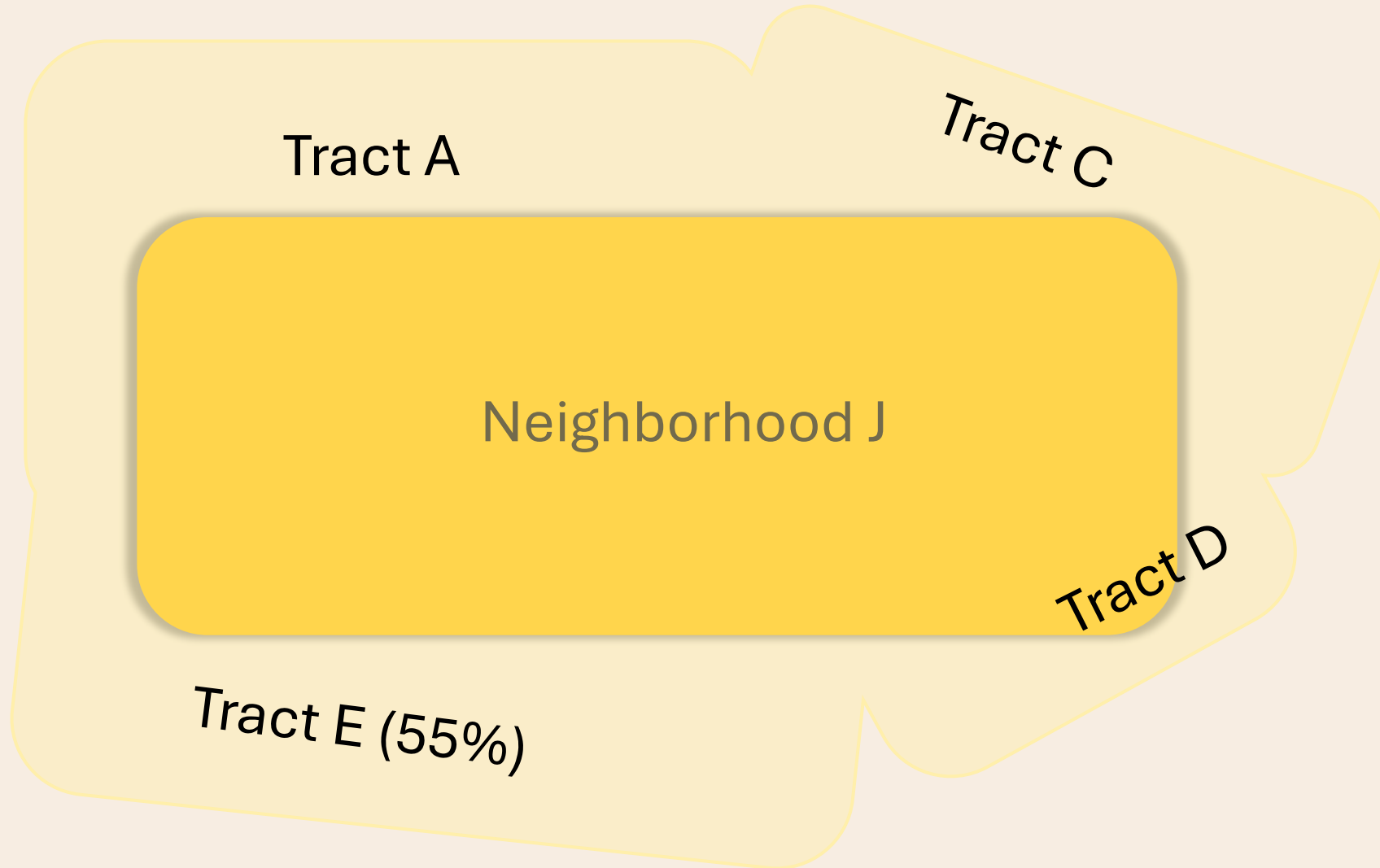


# Areal Interpolation





# Areal Interpolation



# The Data

Police vehicle stops data  
Neighborhood shapefiles

Demographic details from ACS  
for Census tracts but not  
neighborhood

*Conducted areal interpolation and merged data*

Final dataset  
 $N = 54,398$

# Data Pipeline

Clean addresses

Identify  
neighborhoods

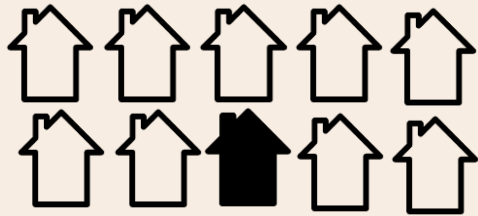
Areal  
Interpolation

Index creation

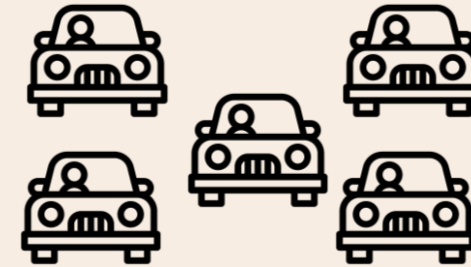
Data  
visualization

$$\textit{Disparity Index} = \frac{\textit{vehicle stop rate of group}}{\textit{population proportion of that given group}}$$

10% Black residents



$\frac{50}{100}$  of stops are Black drivers



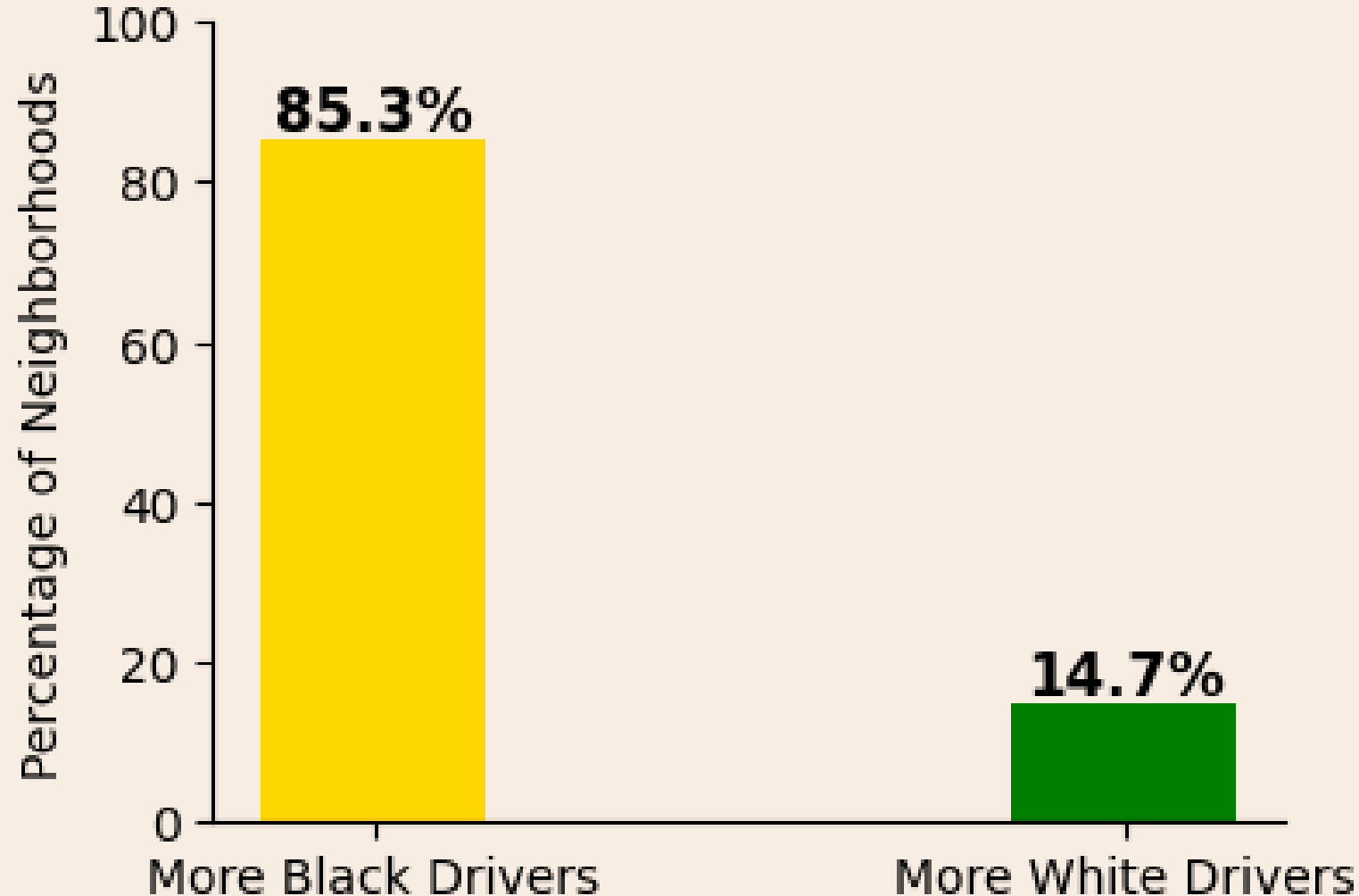
**Disparity Index = 5.0**

*Interpretation: Black drivers are stopped 5× more than their population size.*

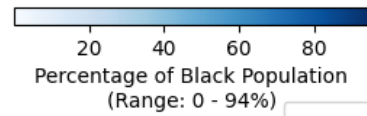
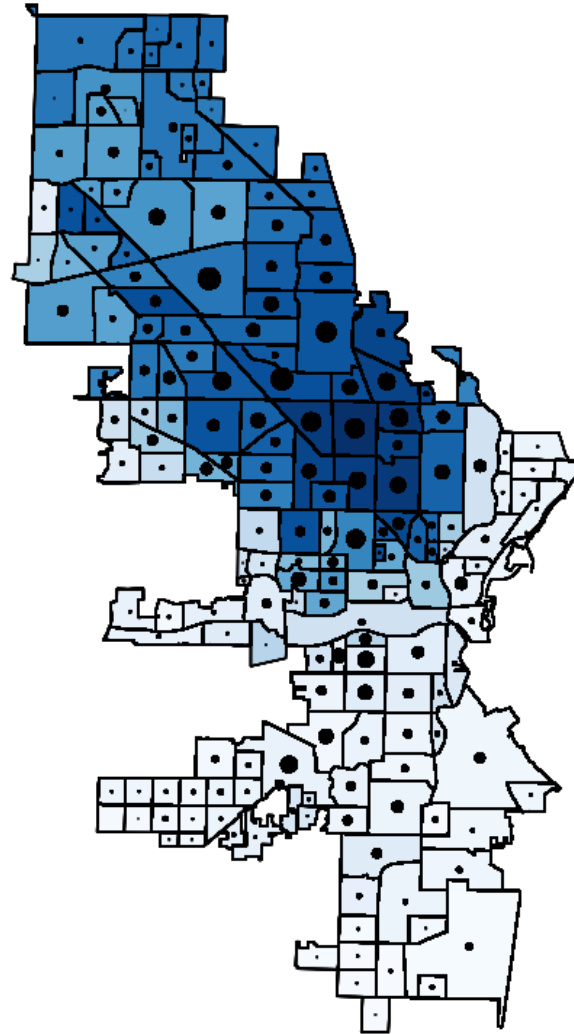
For the 150 neighborhoods...

	<b>Black Individuals Disparity Index</b>	<b>White Individuals Disparity Index</b>
Min	0.90	0
Max	702.33	13.82
Mean	9.50	0.94

There are more neighborhoods where Black drivers get stopped more often than White drivers.



Percentage of Black Population &  
Black Vehicle Stops



Percentage of White Population &  
White Vehicle Stops

