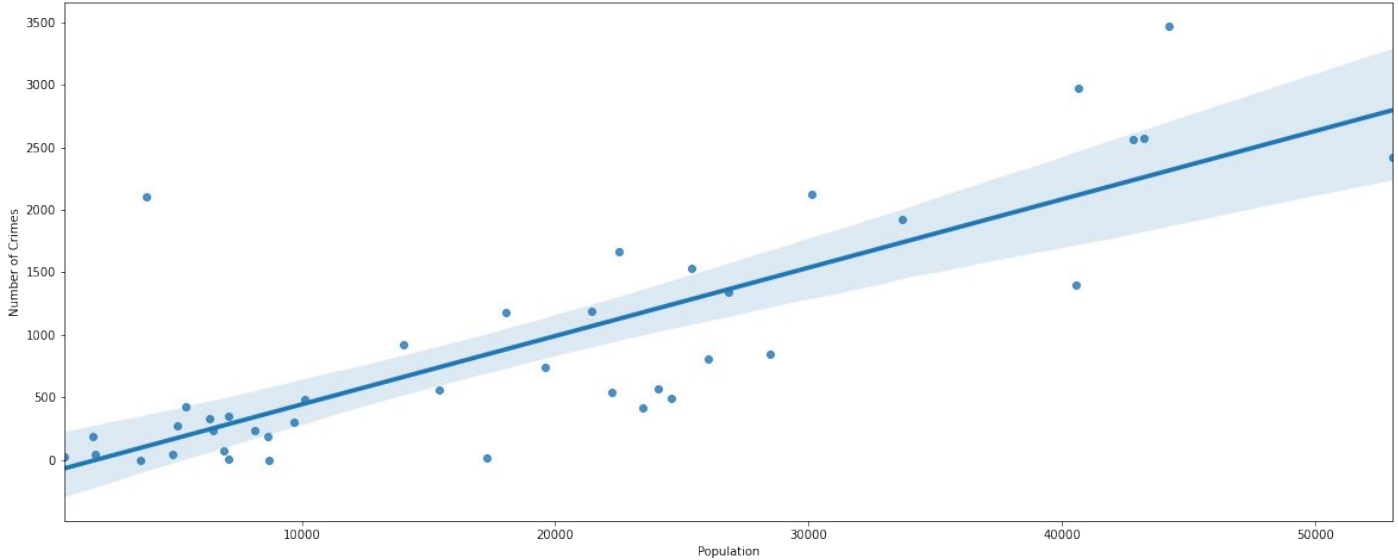
Population and Crime

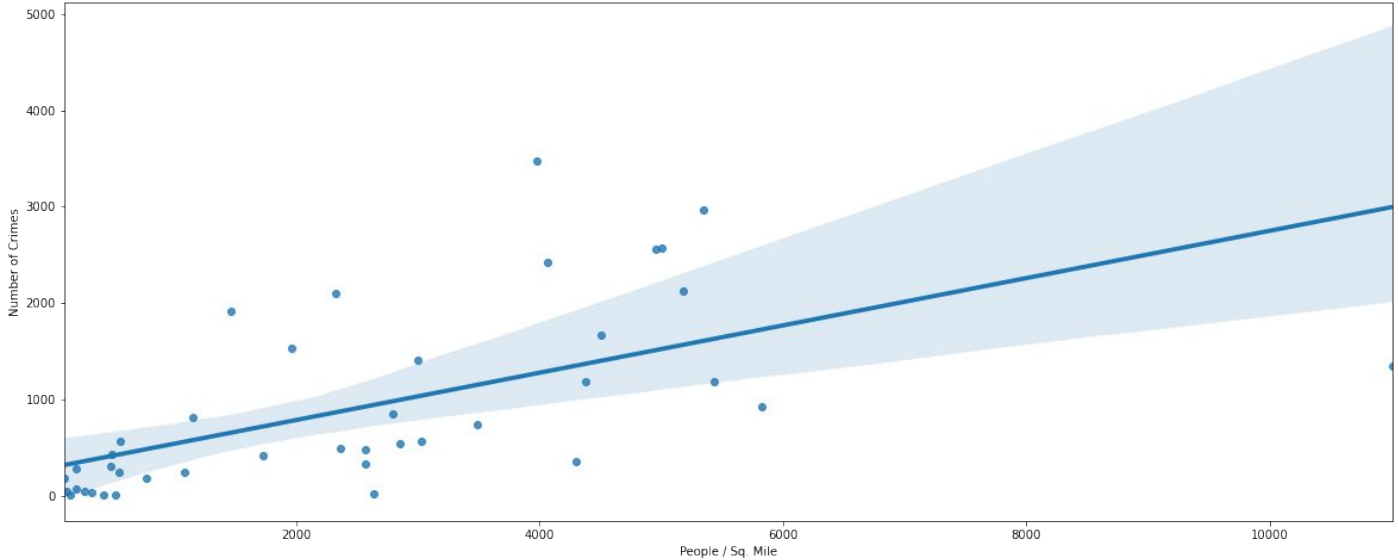
Michael Childs, Ben Shaw

Population and Crimes



Correlation Coefficient: 0.818. P-value: ~ 6.0 * 10^(-11).

Population Density Crimes



Correlation Coefficient: 0.598. P-value: ~ 3.0 * 10^(-5).

More Crimes on one side??

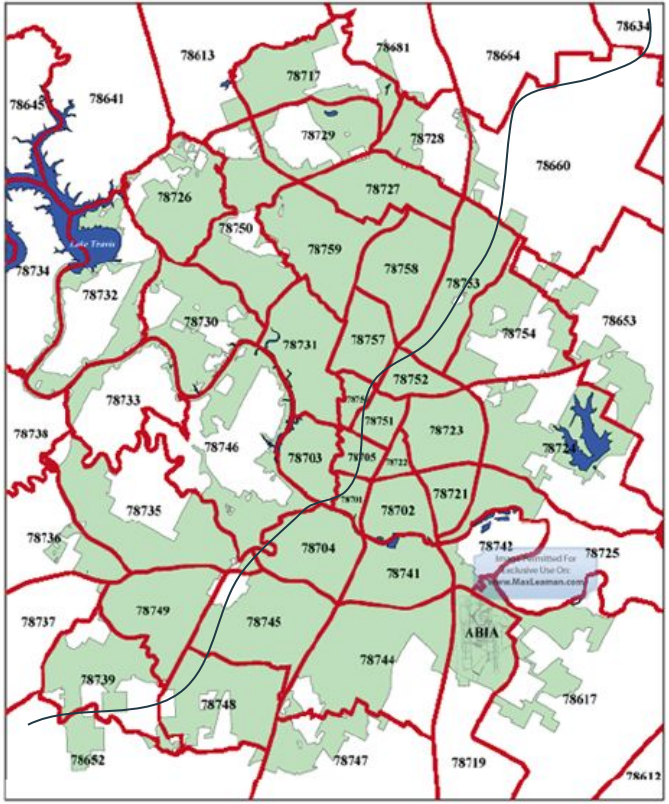
We will now place each Zip code into one of two categories: Right and Left.

We will draw a diagonal line from the top right to the bottom left of the map to segregate.

We will make a histogram of zip codes for the crimes/population (x-axis).

Is there “more crime” on one side of the city? Is there a significant difference?

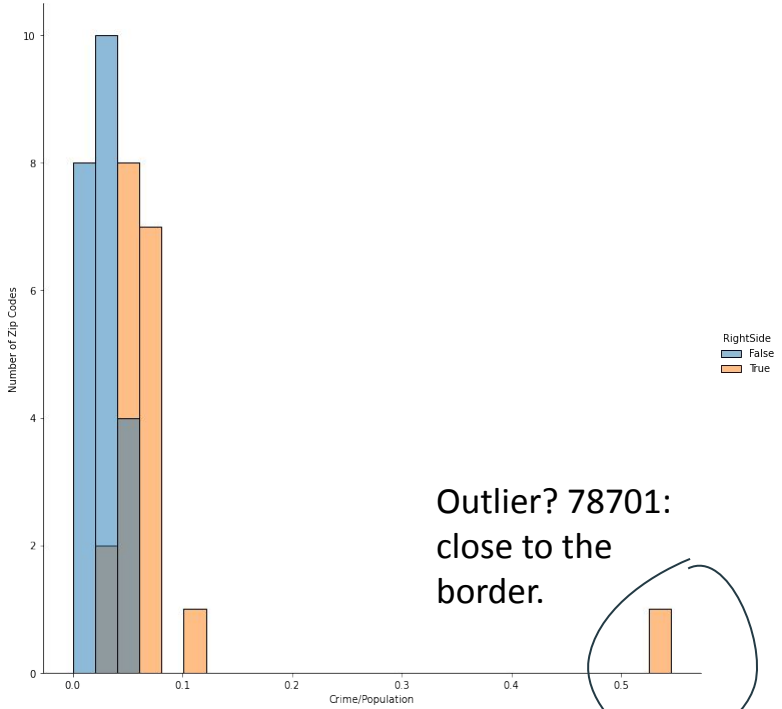
Left zip codes: over and to the left of the blue line.



Right zip codes: under and to the right of the blue line

https://www.maxleaman.com/mortgage-resources/texas-zip-code-maps/city-of-austin-zip-code-map/

More Crimes on one half?



Outlier? 78701: close to the border.

Get rid of outlier: t is 5.988, p is 6*10^(-7). Mean (right): 0.061.

t: 2.477. P-value: 0.018. Mean (Left): 0.026. Mean (Right): 0.086.

Thinking of buying?

There may be less crime in lower population density areas, perhaps especially in the upper left part.

Thank you for your Attention