

# Data Extraction Results

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Period of Development: To Be Decided

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# Overview

- [Opportunity Zones](#) selected as defined by US Department of The Treasury
  - Data last updated December 14, 2018
- Mapped unique 5 digit ZIP to OZ (ZIP2TRACT) tract numbers using data from [HUD's Office of Policy Development and Research](#)
  - Crosswalk spreadsheet type: ZIP-TRACT
- Extracted and mapped selected demographic data on above

# Metrics Extracted

- Extracted the following demographic fields on each ZIP from [bestplaces](#)
  - Town
  - Violent Crime, scaled between 0 and 100
    - Defined as murder and nonnegligent manslaughter, forcible rape, robbery, and aggravated assault
  - Property Crime, scaled between 0 and 100
    - Defined as burglary, larceny-theft, motor vehicle theft, and arson. The object of the theft-type offenses is the taking of money or property, but there is no force or threat of force against the victim
  - Population of town
  - Population growth of town since 2010
  - Unemployment rate of persons in town
  - Median Real Estate Value
  - Median Real Estate Value 10 year growth
  - Percentage Cost of Living compared to average US

# Performance Summary

- Input data
  - 8764 original OZ Tract Number supplied
  - ZIP to Tract Number (ZIP2TRACT) conversion data retention
    - 8606 retained
    - 18564 zip codes generated
  - Conversion loss due to unavailable ZIP information for Tract Numbers
- Result
  - All fields – 15544 entries
    - 7818 unique tracts
    - 8656 unique zip codes
  - Crime only – 15553 entries
    - 7820 unique tracts
    - 8664 unique zip codes
  - No data – 2848 entries
    - 1777 unique tracts
    - 1594 unique zip codes

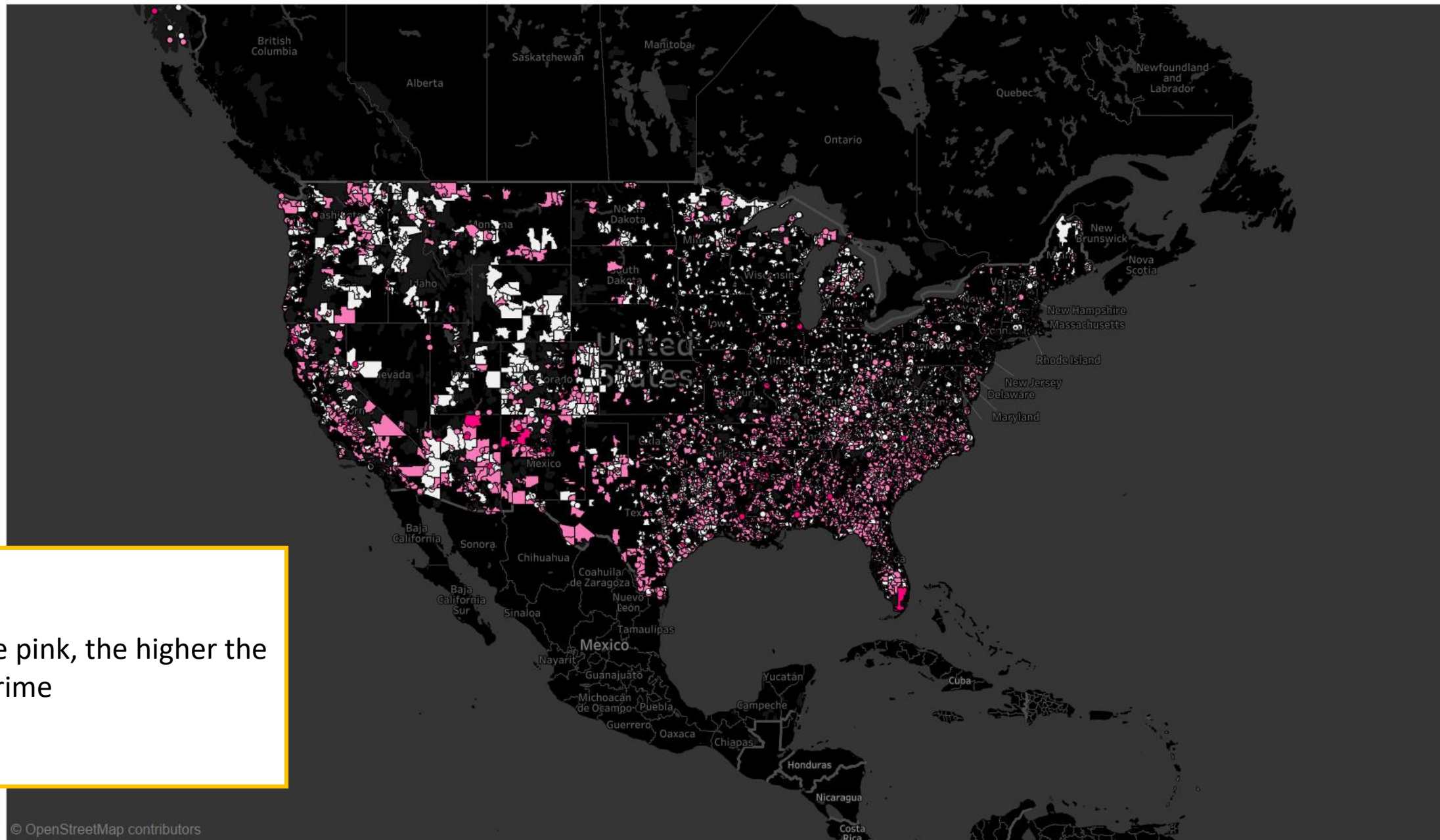
# Selected Observations

- High level trends difficult to identify from the spreadsheet
- So...data visualization tool used to intuitively isolate potential areas of impact
- Observations available for unique ZIP codes within designated unique Tract Zones on US and every state
  - US Level
    - Violent crime
    - Property crime
    - Violent Crime weighted by Cost Of Living
  - State Level - Massachusetts
    - Violent crime
    - Property crime
    - Violent Crime weighted by Cost Of Living

AVG(violentCrime)



## US Violent Crime

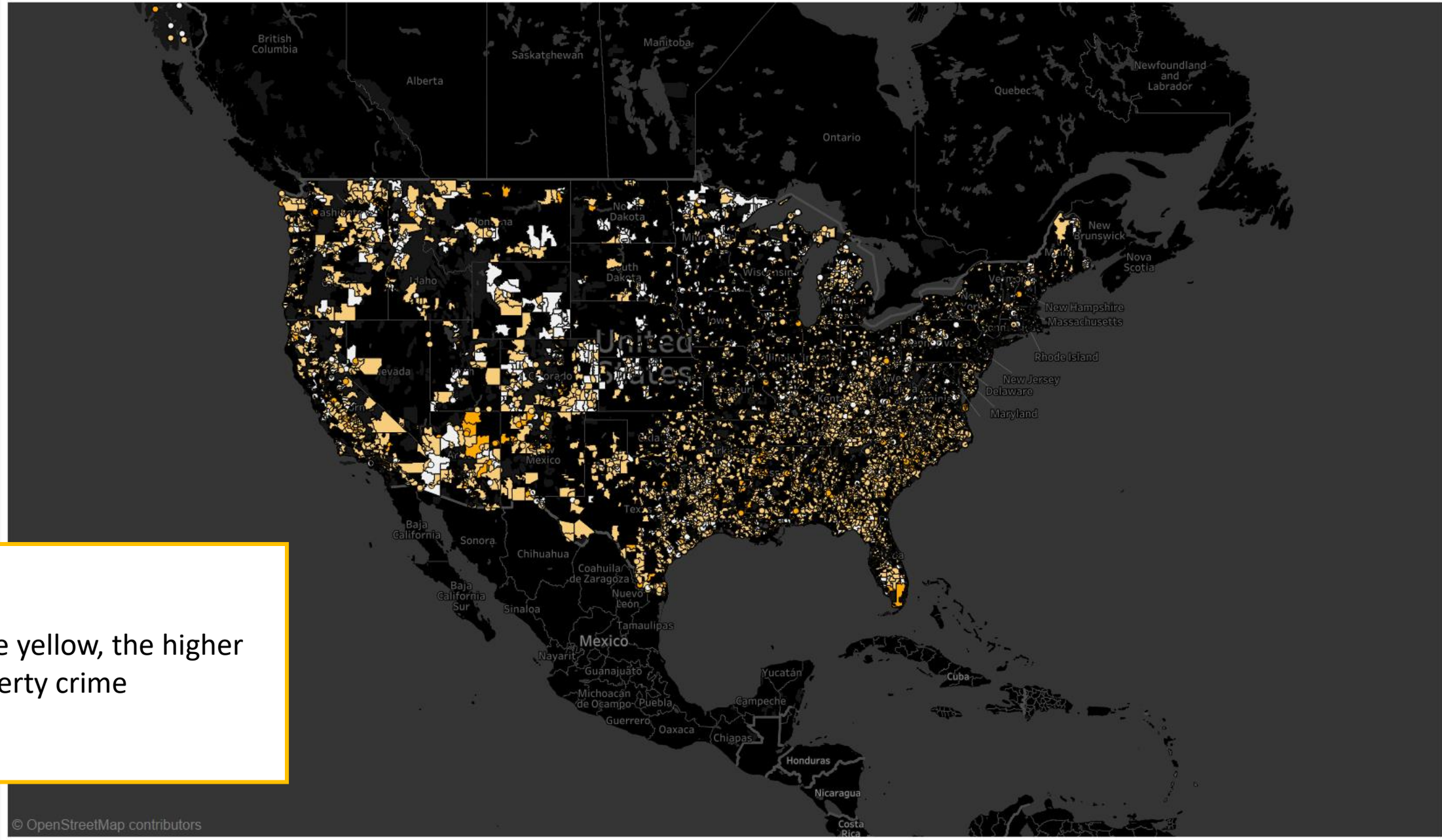


The more pink, the higher the violent crime





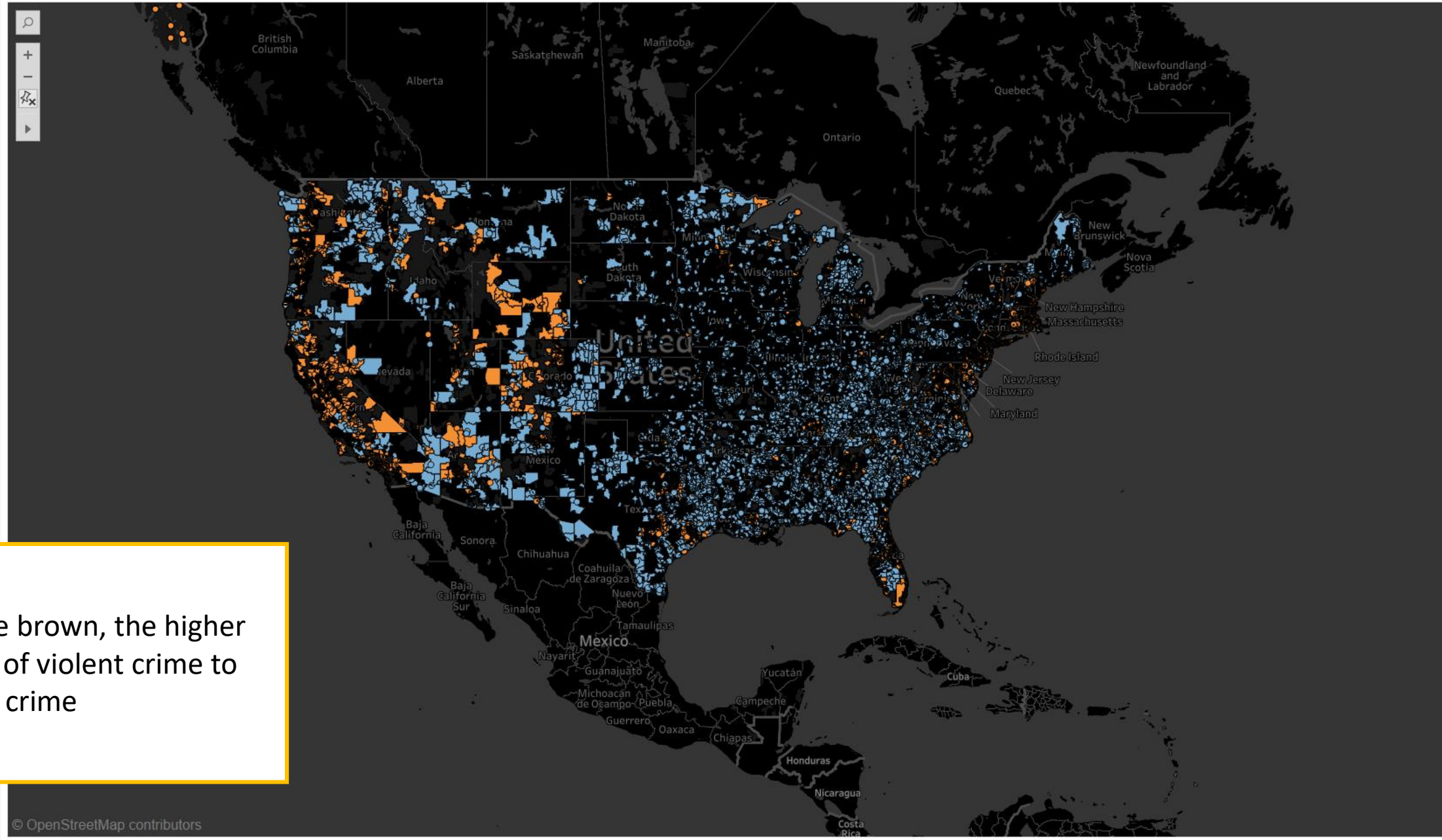
# US Property Crime



The more yellow, the higher the property crime

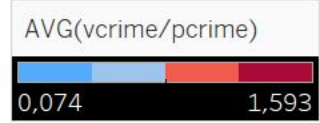


# US Violent Crime weighted by Cost Of Living

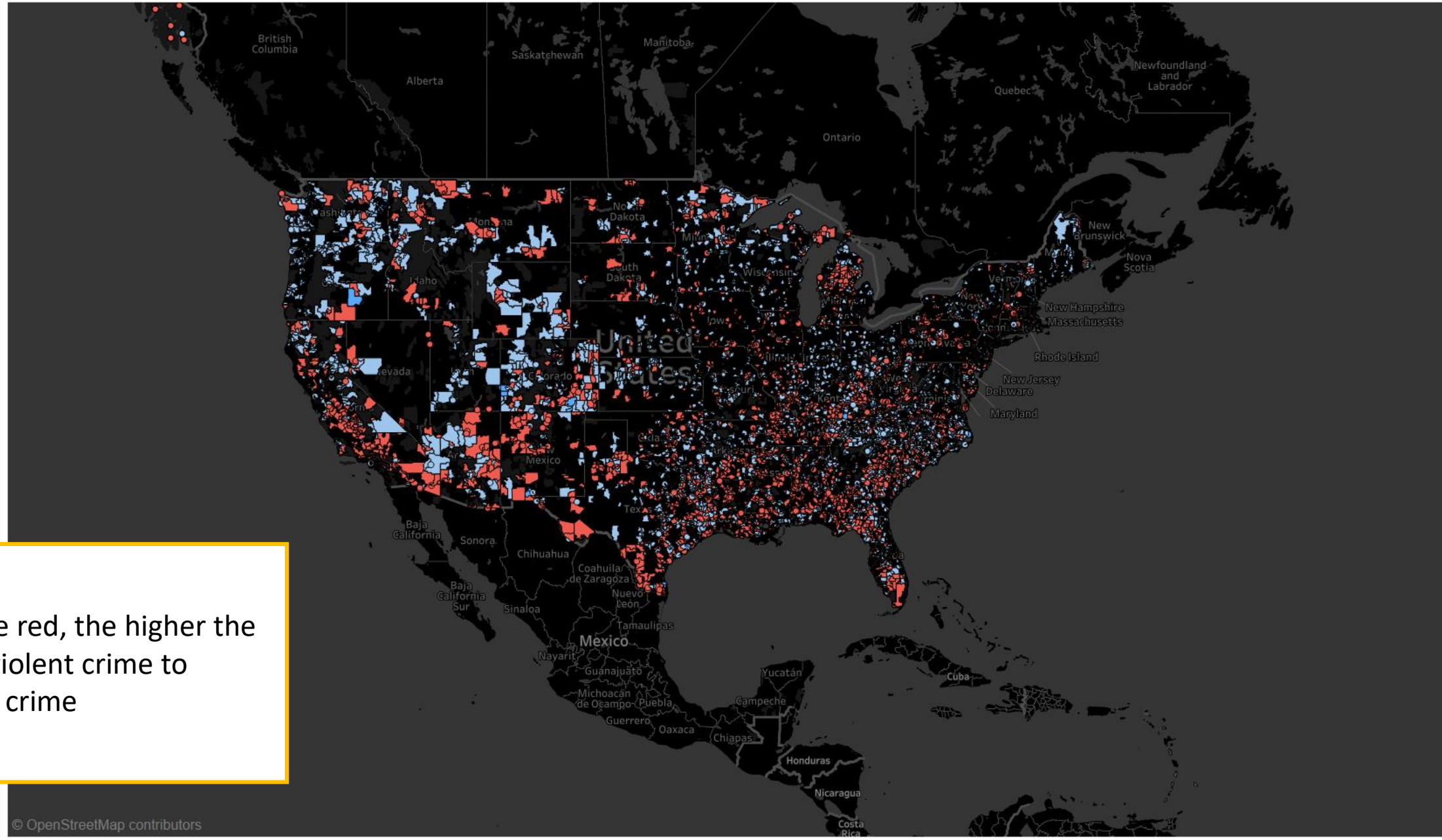


The more brown, the higher the ratio of violent crime to property crime

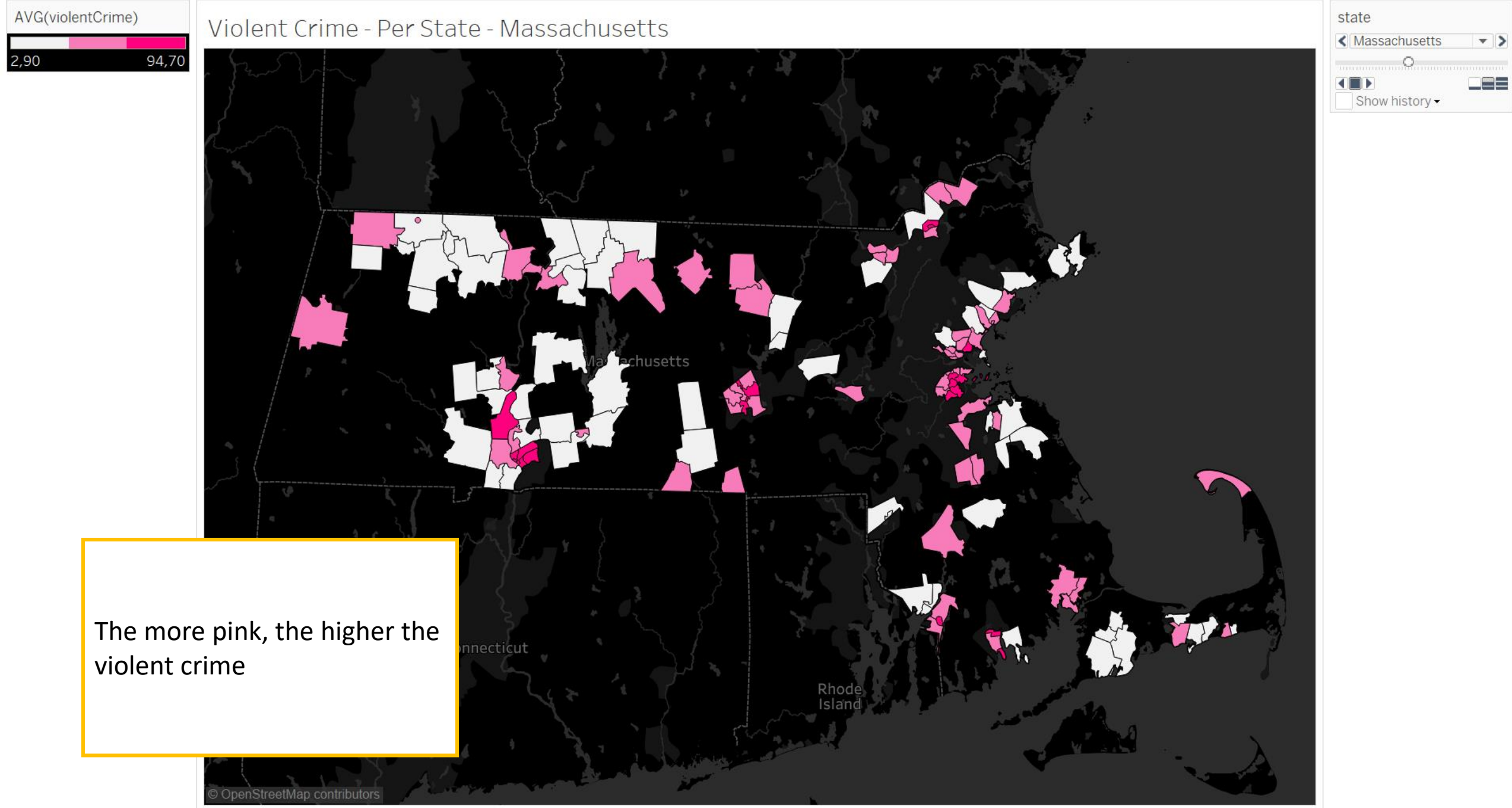


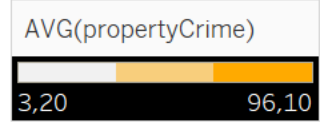


# US Violent/Property Crime

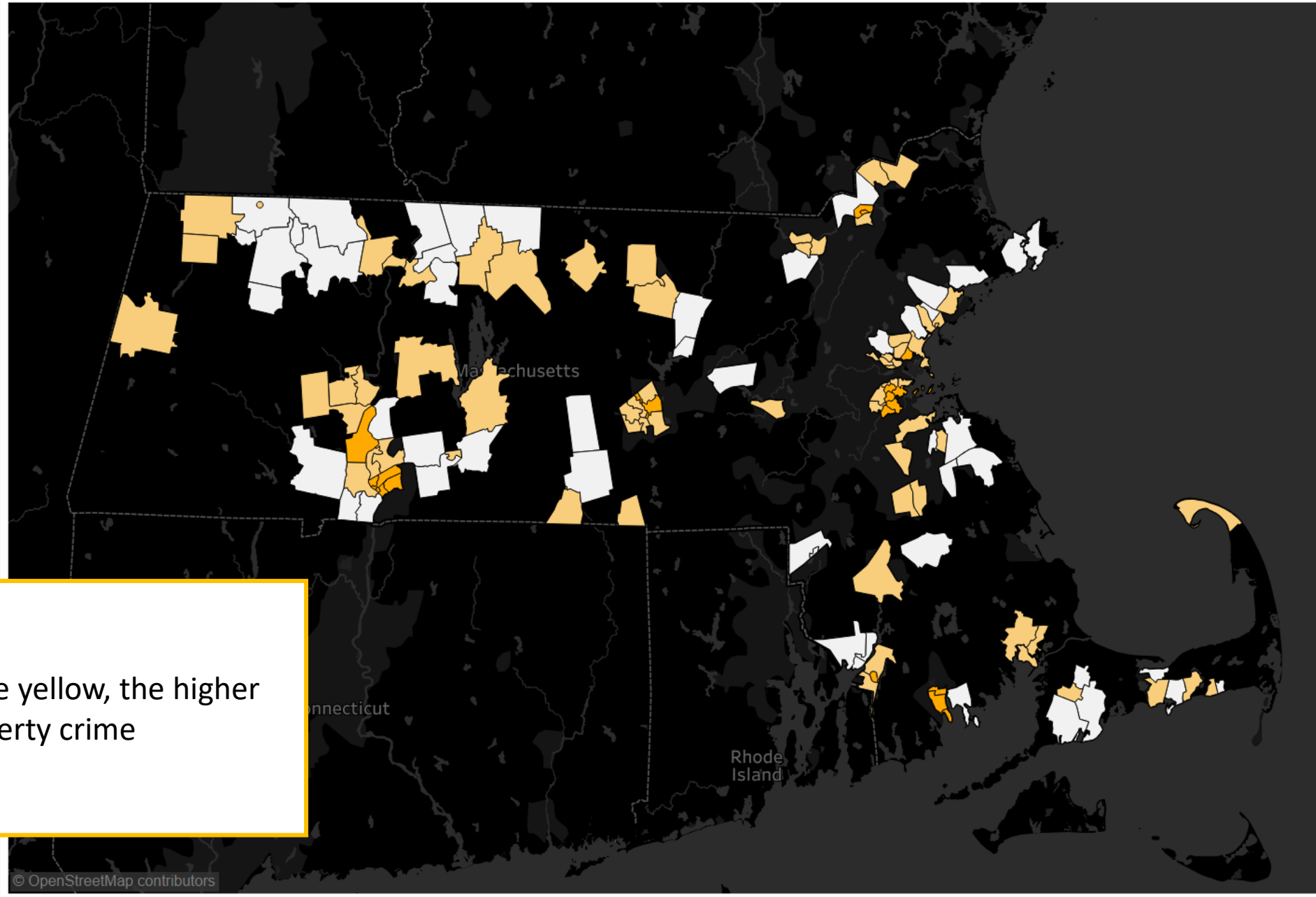


The more red, the higher the ratio of violent crime to property crime





# Property Crime - Per State - Massachusetts



state

Massachusetts

Show history

The more yellow, the higher the property crime

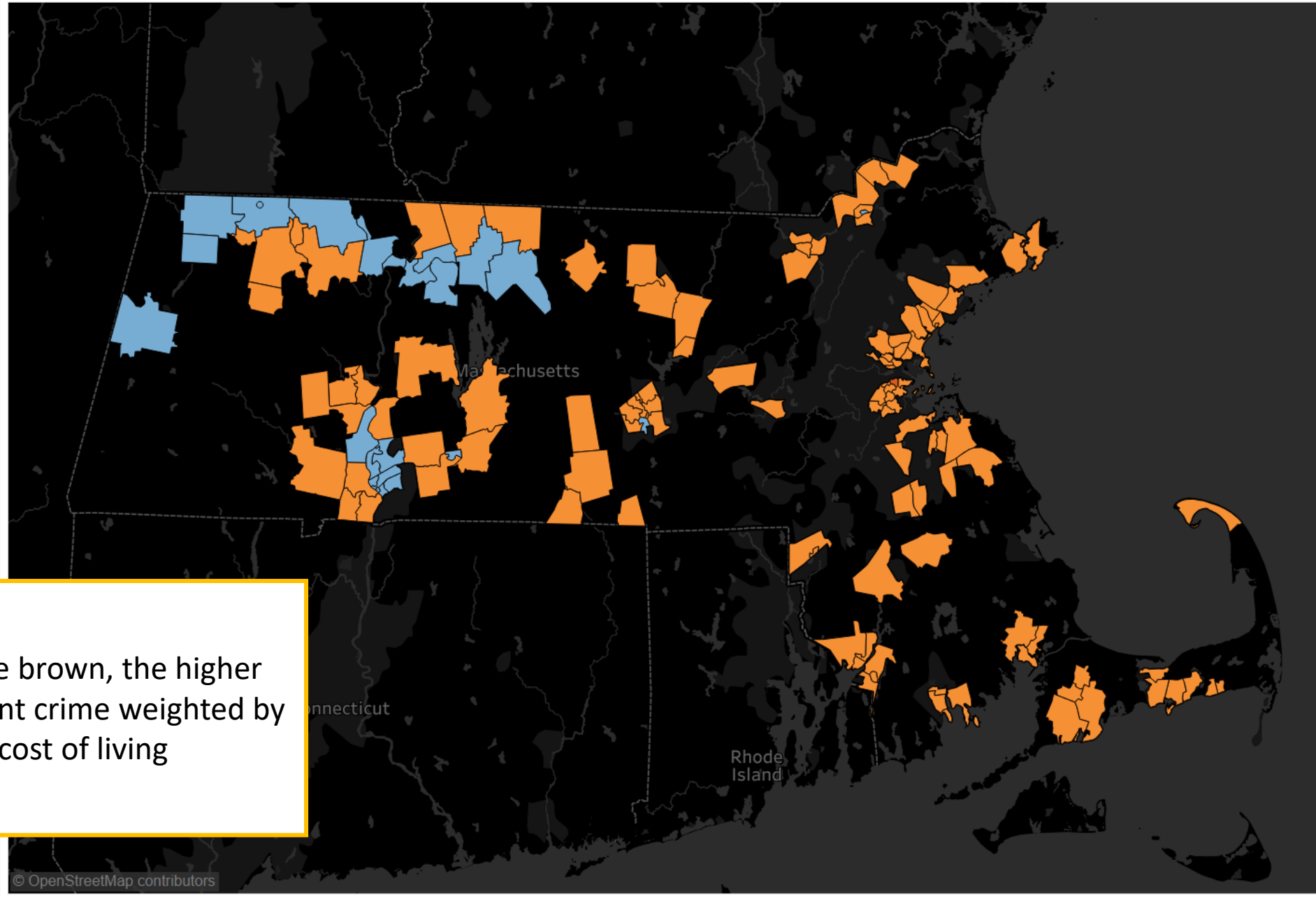


# Violent Crime weighted by Cost Of Living - Per State - Massachusetts

state

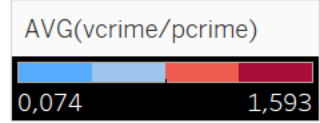
Massachusetts

Show history



The more brown, the higher the violent crime weighted by a higher cost of living



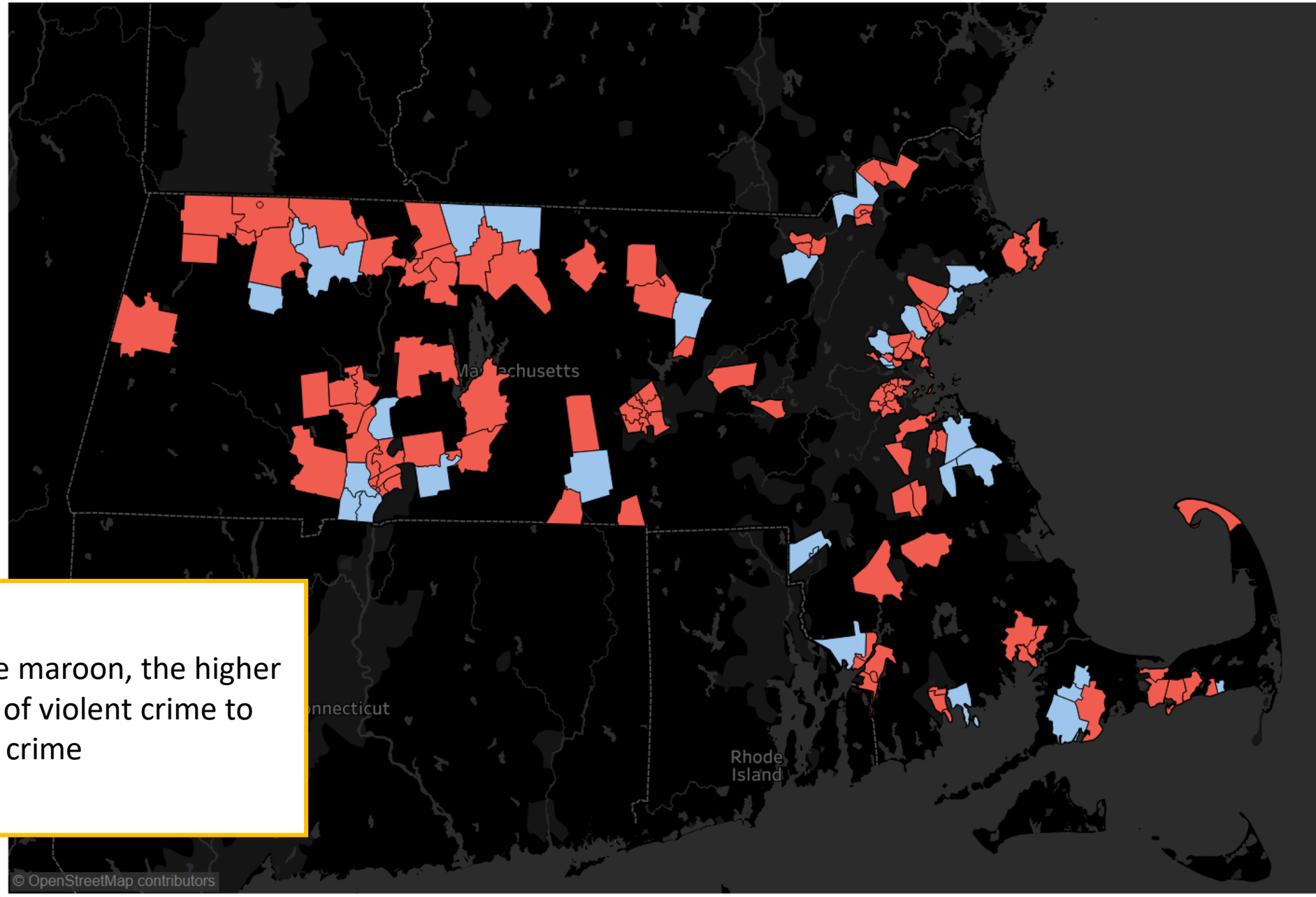


# Violent/Property Crime - Per State - Massachusetts

state

Massachusetts

Show history



The more maroon, the higher the ratio of violent crime to property crime



# Next Steps

- Above visualizations available for every other metric extracted
- Where can the best impact be made?
  - Other metrics to consider for scraping