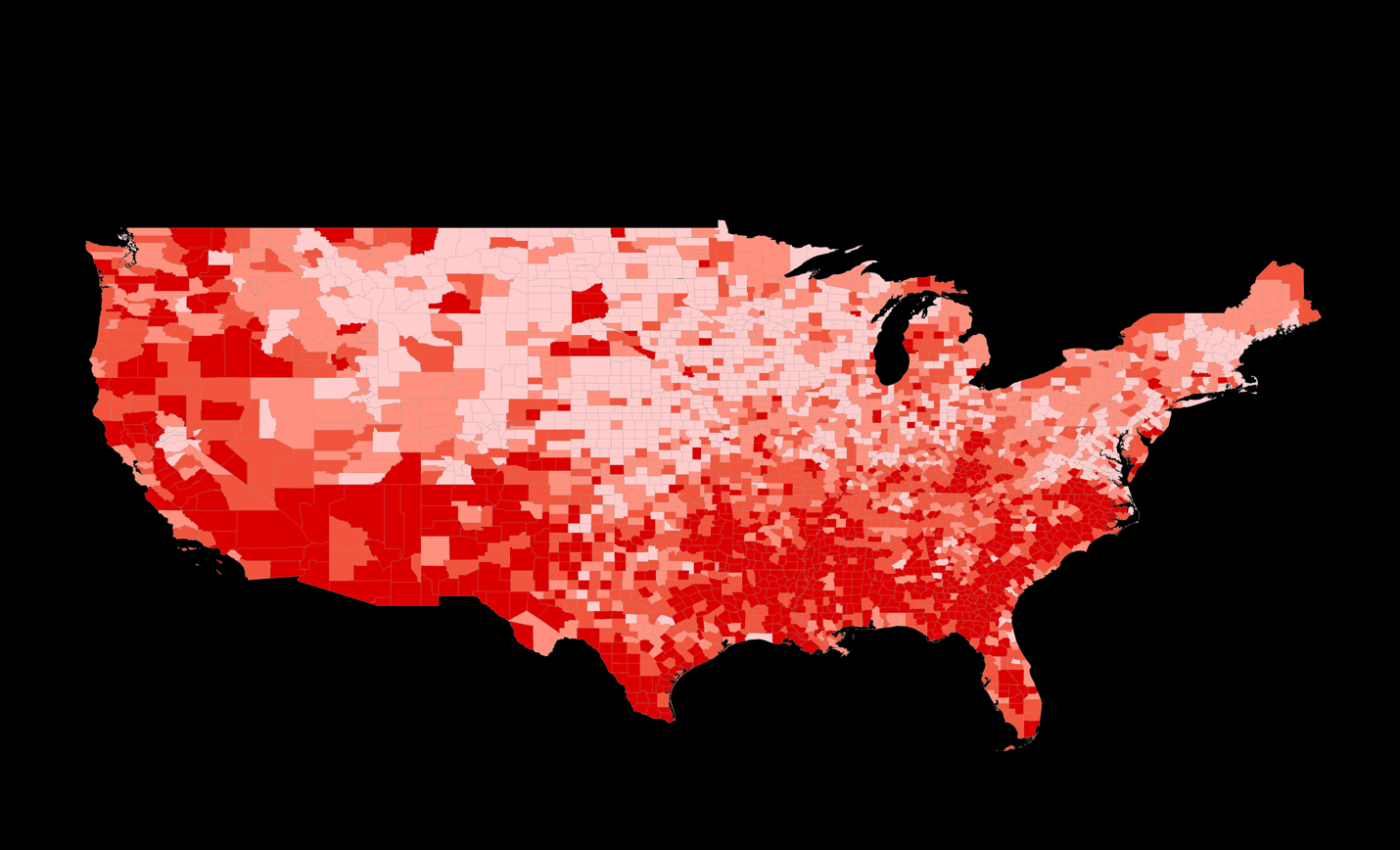
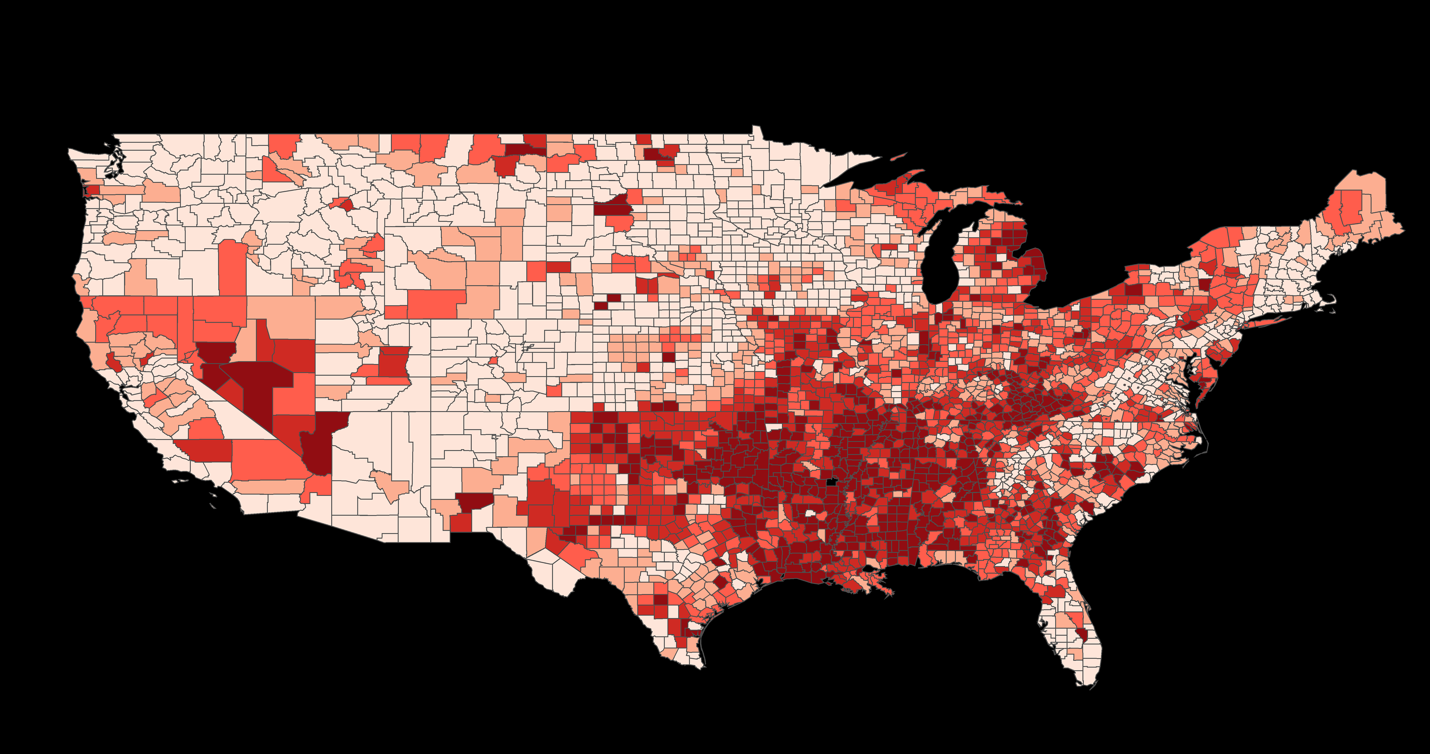
Social Vulnerability Index visualized by county 2012-2014:



Heart Disease related mortalities 2013:



As you can see, there is a high correlation between both heatmaps, and as both of these graphs are not influenced by population density they are not simply heatmaps of population.

Social vulnerability is defined as resilience of communities when confronted by external stresses on human health.

A screenshot of a cell phone

Description automatically generated

It uses these 15 US census variables to determine the Social vulnerability of each county.

We believe that these indicators of social vulnerability also serve as strong indicators of social determinants. Our hypothesis is that the higher the overall vulnerability of a community the less likely they are to live a healthy lifestyle; therefore, their likelihood of coronary-related mortalities sees an increase as a result.

What I plan on doing to further improve the visualization: I plan on making individual maps which only take into account the individual subcategories of social vulnerability such as a map depicting only socioeconomic status, etc. to see how each subcategory affects the coronary disease related deaths.