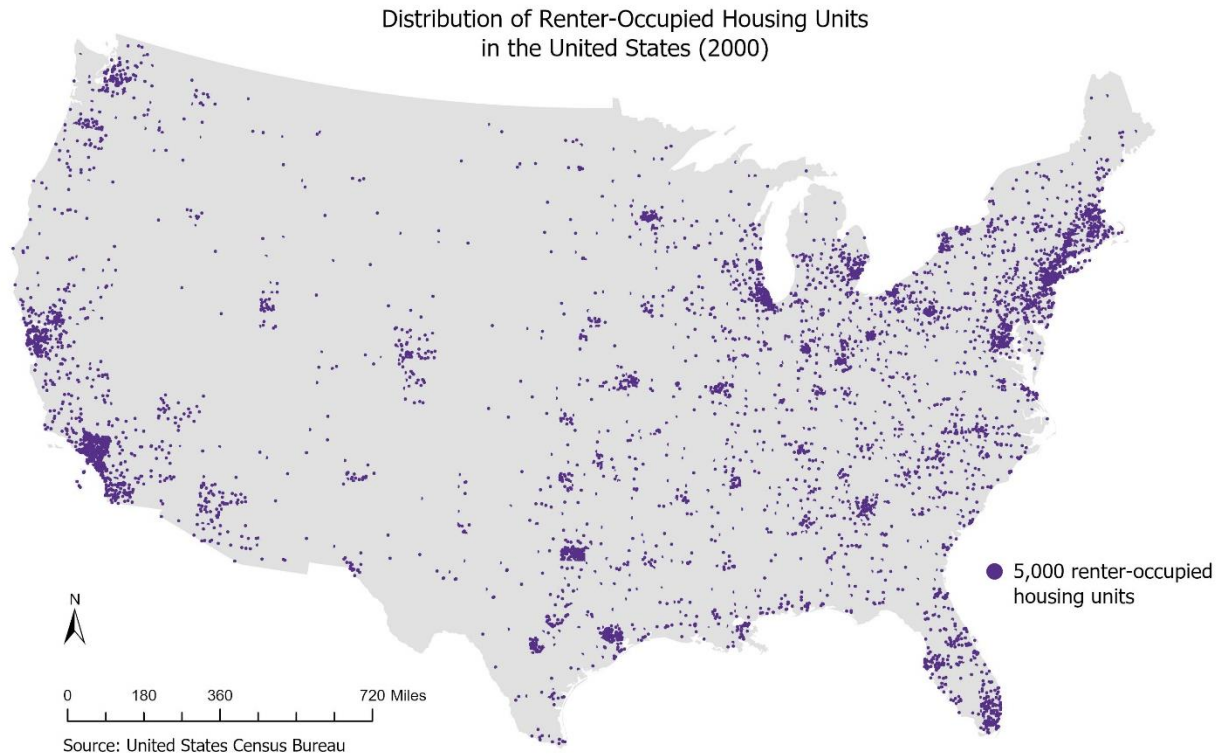


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GEOG 6165
February 20, 2024

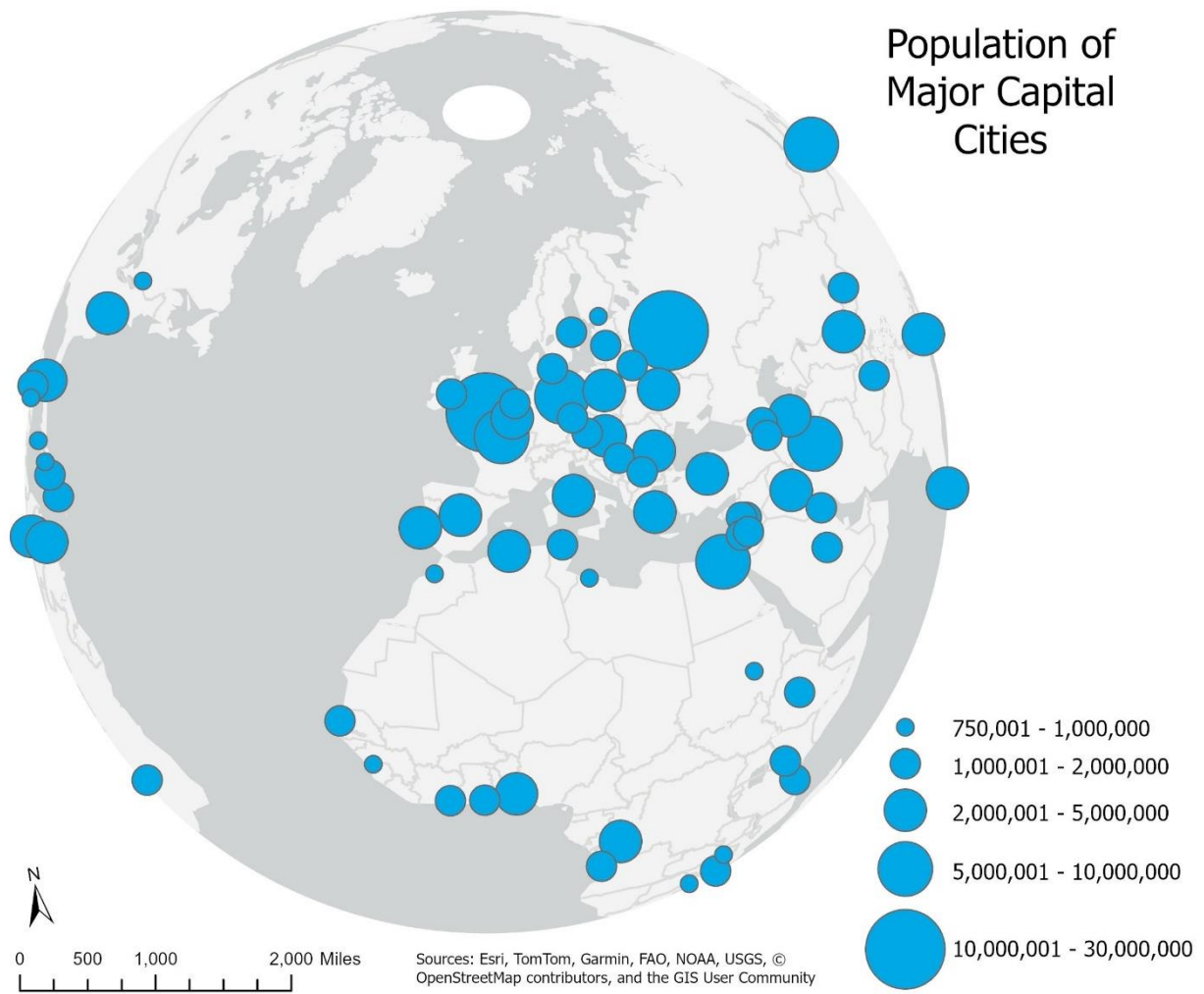
Week 5 Exercise: Map Design

A. Dot Mapping



The dot pattern follows the distribution of the population, with highly populated counties having both more renter-occupied housing units and a higher proportion of such units. I chose 5,000 as the dot value because it was small enough to capture smaller cities in the Midwest and the South and large enough to not completely block out major metropolitan areas.

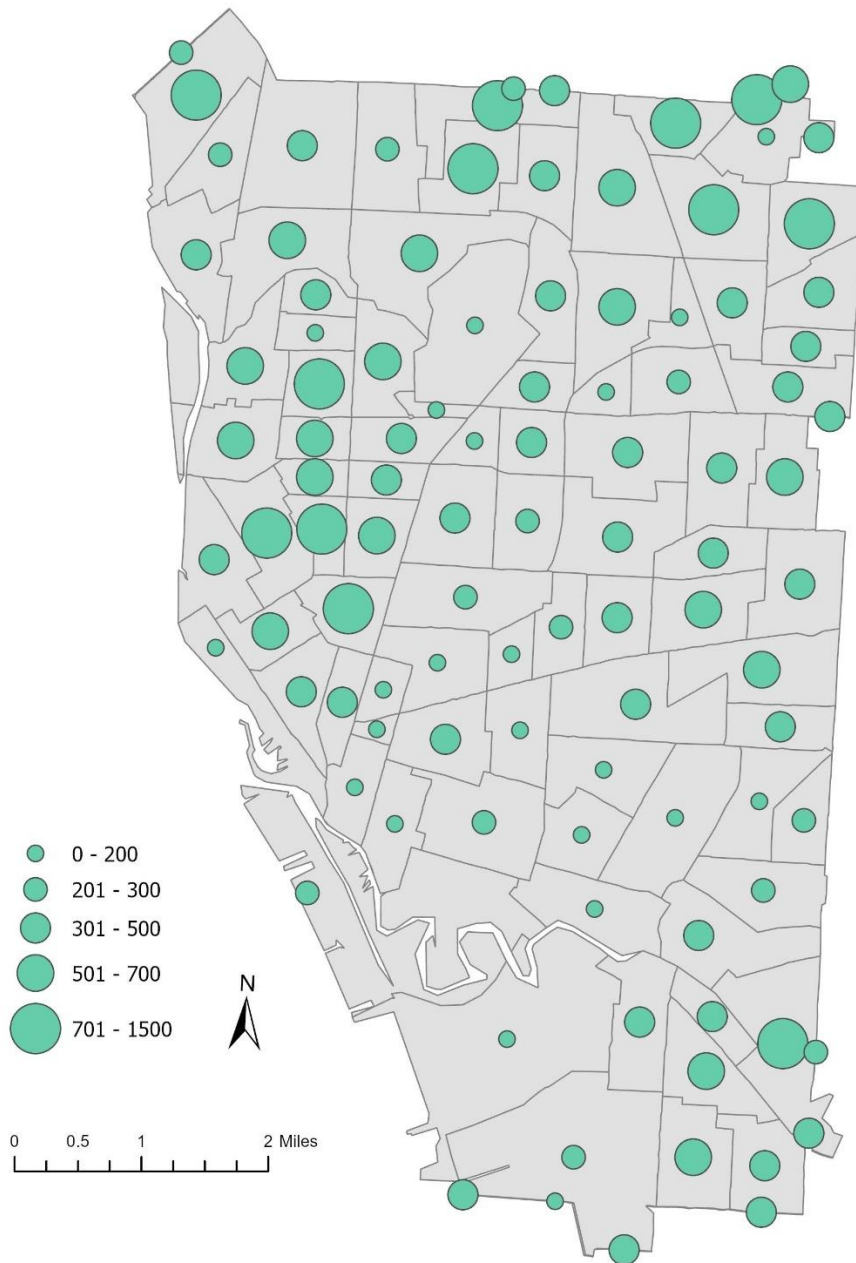
B. Proportional Symbol – World Capitals



There are a handful of very large capitals in Europe, but most European countries have medium large capitals and many African capitals don't appear because they are too small. I made sure to choose a dot size range that clearly illustrated the difference in size. The main challenge was deciding how to organize the map layout around a sphere.

C. Proportional Symbols – Buffalo Census Tracts

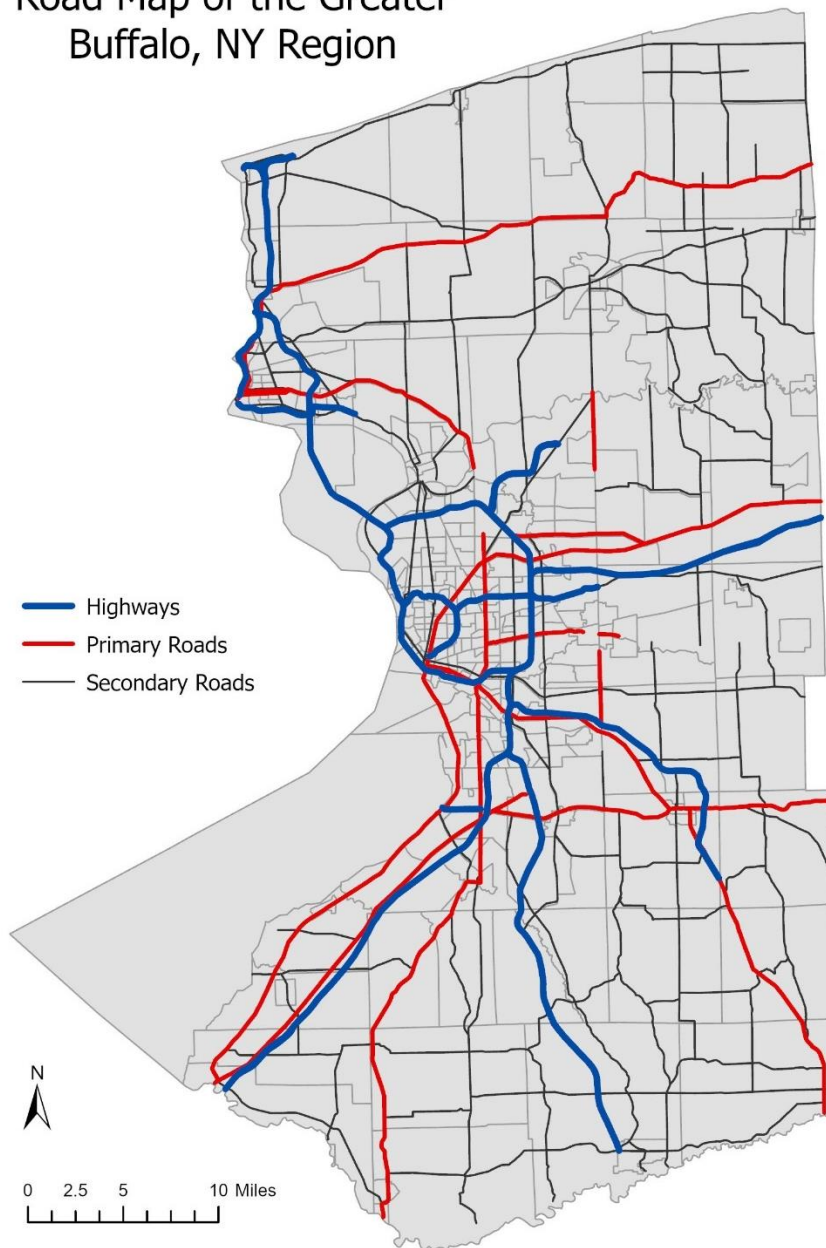
Number of Adults Ages 22-29 Per Census Block in Buffalo, NY



Younger adults tend to live in the western and northern parts of Buffalo, which may indicate that those neighborhoods have more nightlife or are considered to be trendier. I adjusted the dot sizes so that smaller blocks weren't overwhelmed, but otherwise I did not have any difficulties creating the map.

D. Linear Features

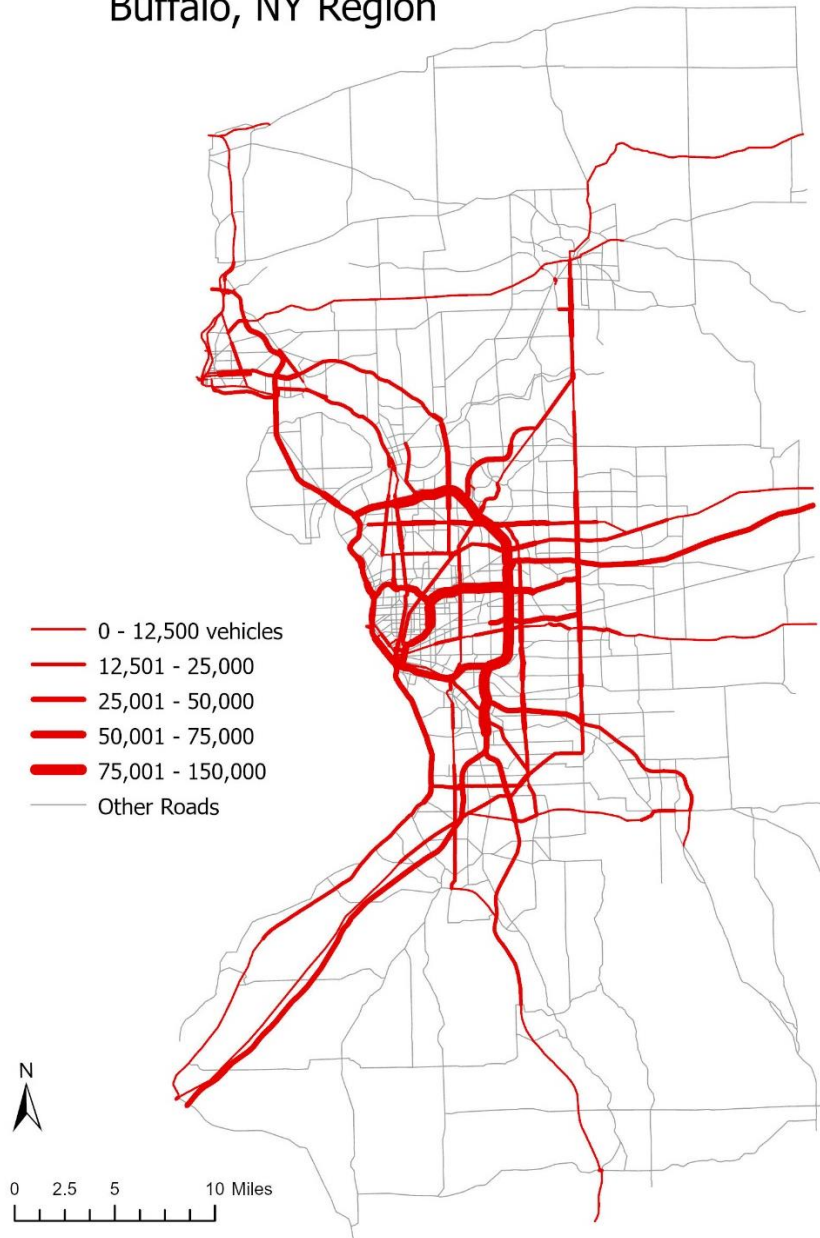
Road Map of the Greater Buffalo, NY Region



Highways enter the Buffalo region from several different directions and form two radial routes around the main city. Primary roads generally mirror the highways and create some new connections. I used three different line weights to indicate their hierarchy and I mimicked the colors found in a traditional road atlas. The main challenge was ensuring that the Census tract boundaries did not stand out more than the secondary roads.

E. Flow Mapping

Traffic Volumes in the Greater Buffalo, NY Region



The traffic volumes generally mirror the road classifications shown in the previous map. The outer radial highway has a significantly higher volume of traffic than the other highways, however. I used red for the line color since it traditionally indicates busier roads. The main challenge was choosing a maximum line width that did not overlap with other roads near the roads with the highest volumes.