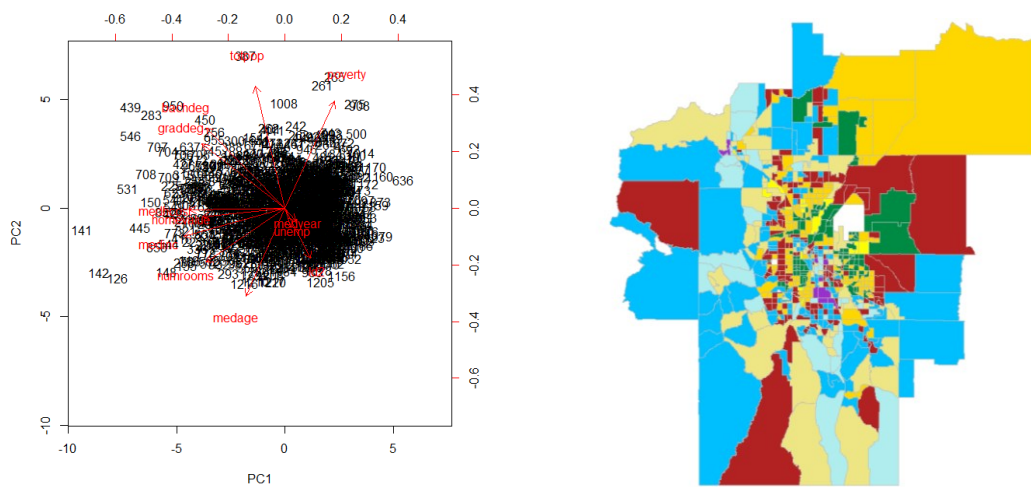


# Neighborhood Analysis in Denver, Colorado

by Robert Thiewes

I plan to move from Madison to another city with my wife within a year or so. When we move, we are looking to buy an affordable home or townhouse in a city we won't have any experience with. In order to generate an estimate of defining qualities of some of the neighborhoods that we could potentially live, my goal is to generate a principal components analysis to find defining traits and similar neighborhoods within Denver and then apply the findings to a k-means clustering analysis.



Census tract information will be used to approximate neighborhoods. Information on census tracts will be acquired from American Fact Finder. Shapefiles for the census tracts will be acquired from the census department as well via their TIGER/Line program.

To do this analysis, a principal components analysis will be performed in order to determine which neighborhoods are alike and in terms of what qualities. K-means clustering will then separate neighborhoods into similar groups, where important components can be compared.