

Multivariate Wellness Dashboard

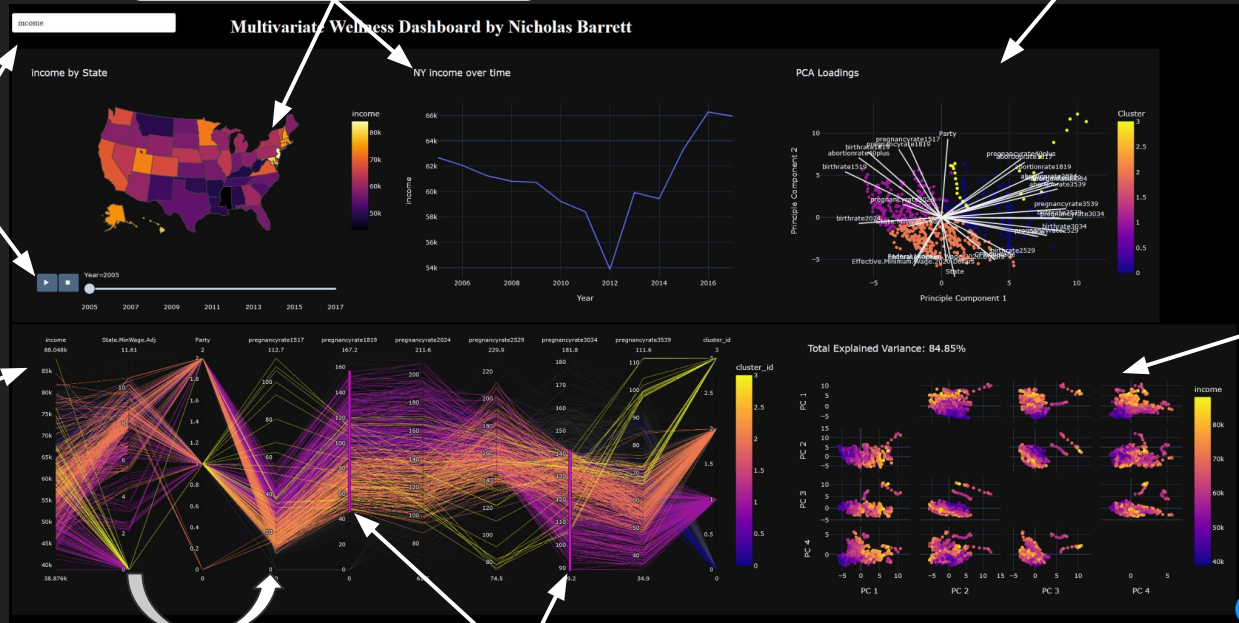
By Nicholas Barrett
CSE 564 Final Project

Goal: Evaluate potential wellness indicators and extrapolate with data reduction techniques, with a dashboard to investigate the multivariate relationships.

Selecting a State shows the States performance over time for a given factor in the line plot

On this **Biplot** We can investigate our variables correlation based on their loadings on the first 2 principal components. Allows zooming in to investigate the relationships.

Choropleth plot of the United States, showing a selected variable **animated** over time.



Can **reorder** coordinates

Brushing on multiple dimensions

Scatterplot Matrix of our **principle components**, with coloring based on selected variable, to explore how our PC are dividing up the space of variables

Principal coordinate plot allows us to interactively investigate the relationships between our variables and how our clustering algorithm performed. Can move the variables and filter on multiple variables.