Objective

Improve public health by identifying links between environmental factors, demographics, and public health.
Community Health Status Indicators

Includes up-to-date data on:
- Demographics (including vulnerable populations, birth/death rates)
- Access to health care
- Leading causes of death
- Preventative services used
- Environmental health
- Risk factors for premature death

But... it is very large and highly coded, and is thus difficult to grapple with for health researchers.

It's difficult to identify overall trends in the data.
CHSI GIS

The Good: for one attribute, effectively identifies "Peer Counties" and in-state trends

The Bad: No national comparisons, and no ability to compare disparate attributes

The Ugly: Not pretty, not engaging, not fast, and somewhat broken...
So our visualization will:

○ be beautiful, engaging, and easy to use
○ allow visualization of an attribute across all counties in the dataset
○ enable discovery of correlations between attributes
Demo: http://stanford.edu/~rubylee/cgi-bin/chsi/
Demographics: White
Demographics: Black
Demographics: Native American
Demographics: Asian
Demographics: Hispanic
Risk Factors: No exercise
Risk Factors: Obesity
Risk Factors: Smoker
Risk Factors: Diabetes
Completion Plan:

- Implement correlation browsing
  - scatterplot for comparing attributes
  - multiple maps per page

- Modify color scaling formula
  - maps with outliers currently show very little information

- Prune attribute hierarchy
  - reduce clicks for navigation

- Add multiple color scale options

- Create pre-loaded "stories"
Thoughts?

Overall impression?
How to visualize correlation between more than two attributes?
How to modify color scaling formula?
How to improve navigation?

Thank you!