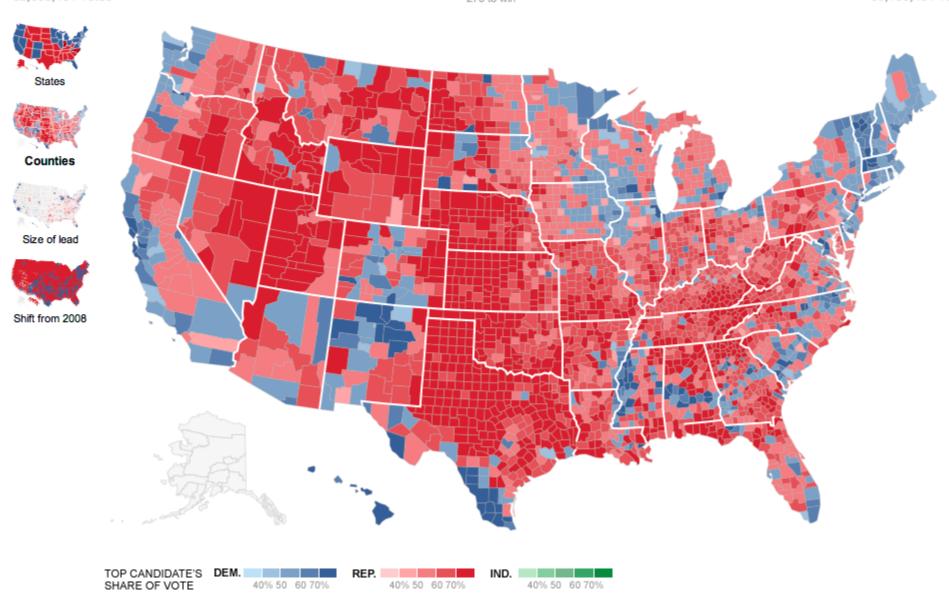
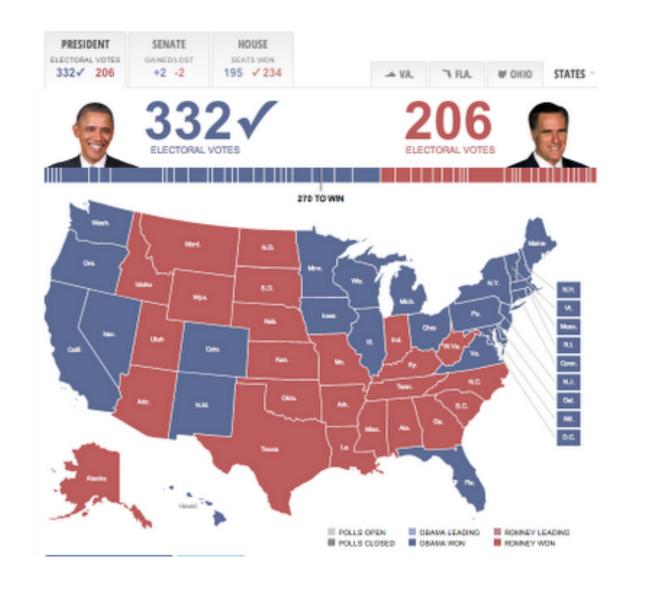
visual narrative

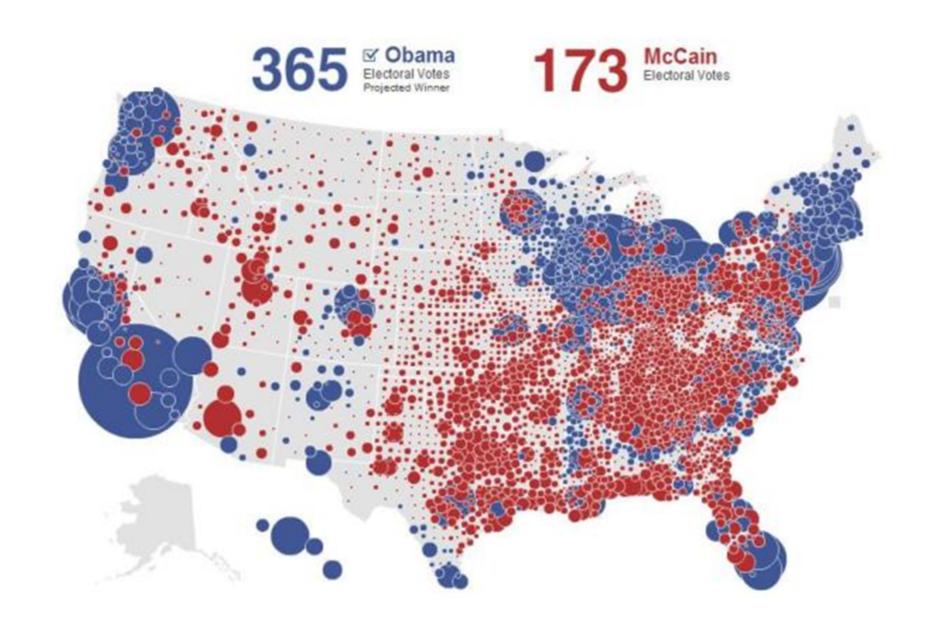
Your data tells a story

Which of these maps tells the story better?

62,608,181 votes 270 to win 59,130,484 votes

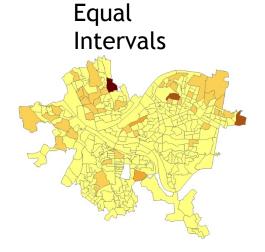




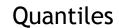


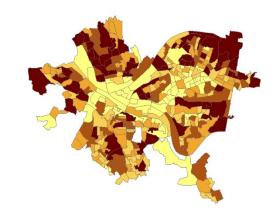
By emphasizing integrity of the wrong element (geography versus population density here), you may mislead your audience.

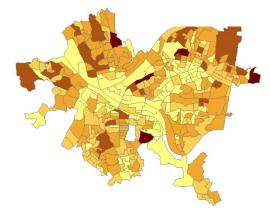
WHAT PATTERN DO YOU SEE?



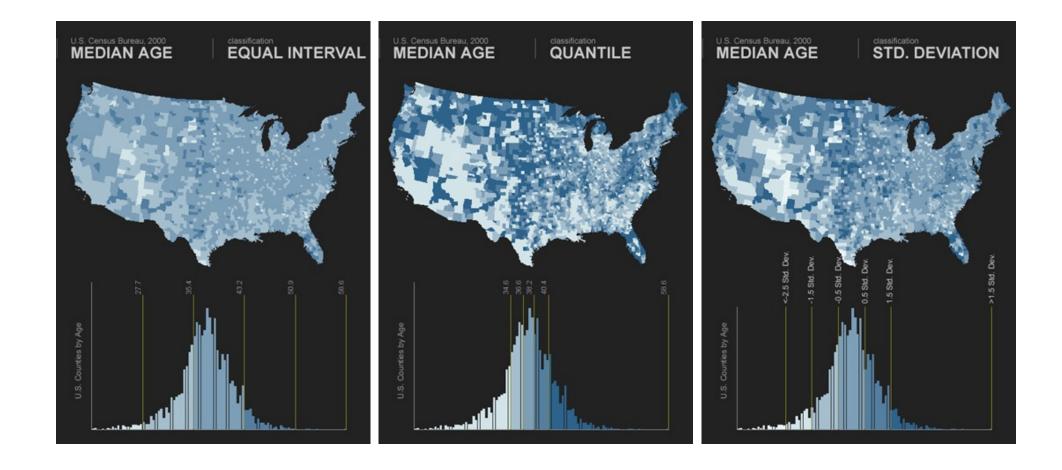
These maps are all made with the same data using different intervals for the break points.







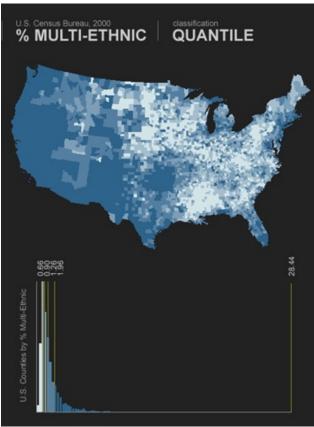
Geometric

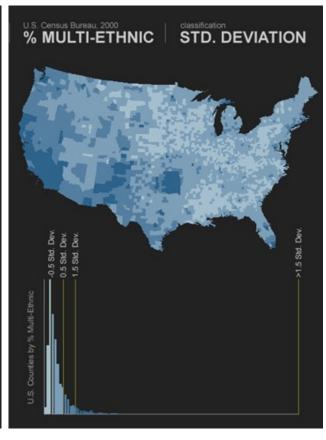


http://uxblog.idvsolutions.com/2010/03/crazy-world-of-range-breaks.html

BREAK POINTS FOR SKEWED DISTRIBUTIONS







RULES OF THUMB:

- 1. First Rule: use common sense! What do your groups represent, and are they meaningful? Are you misleading your audience with unreasonable breaks?
- 2. Binning by quantiles is typically a safe way to create breaks to show low, medium, and high values.
- 3. If a lot of your data is bunched together (for example, half of your values are close to zero), quantiles will not be meaningful because it will imply differences that do not exist.
- 4. If your distribution is skewed, consider increasing-interval or exponential scales.

For example, define the first group as 0-2, second as 2-6, third as 6-14, next as 14-30 (your interval size doubles each break).

Recall from Lab 2

 Natural breaks on continuous variable

