

Introduction to Data Science

SKKU University, Summer 2015

Prof. Jevin D. West

University of Washington

Lecture 12 – July 14, 2015

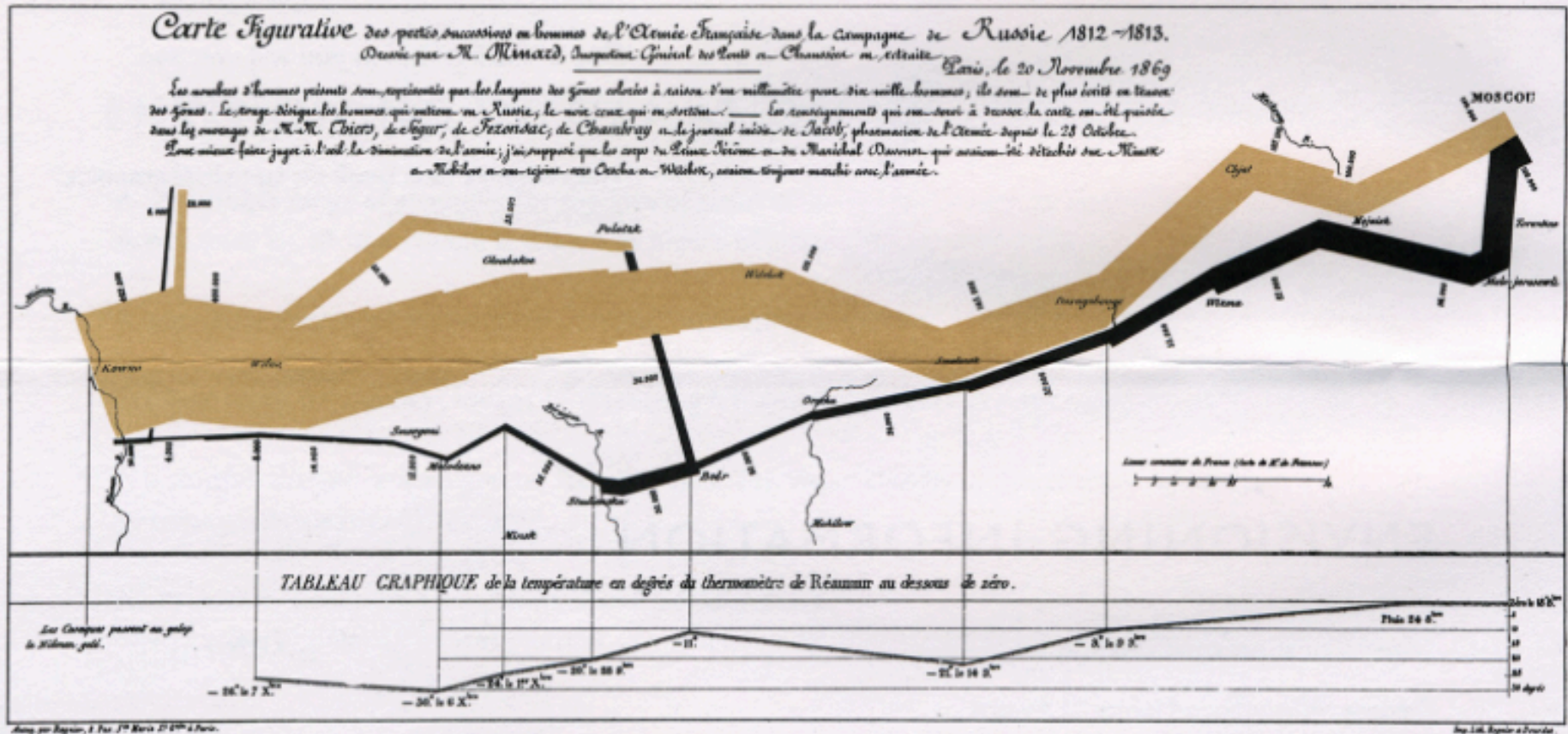
Agenda

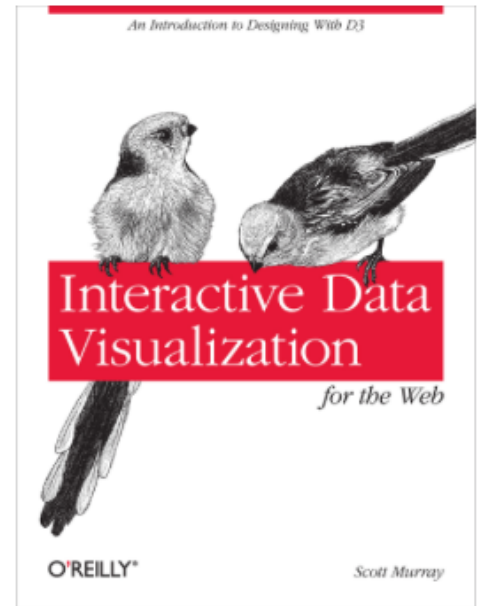
- 9:30 – 11:30 Final Paper Prep
- 11:30 – 12:00 Questions

Week 2

- ~~Tuesday, July 14: Quiz #3~~
- **DUE** Wednesday, July 15 at the beginning of class: Final Paper
- **DUE** Thursday, July 16: Assignment #3
- **DUE** Friday, July 17 at the beginning of class: Final Presentation, make sure to turn in presentation on your group repository

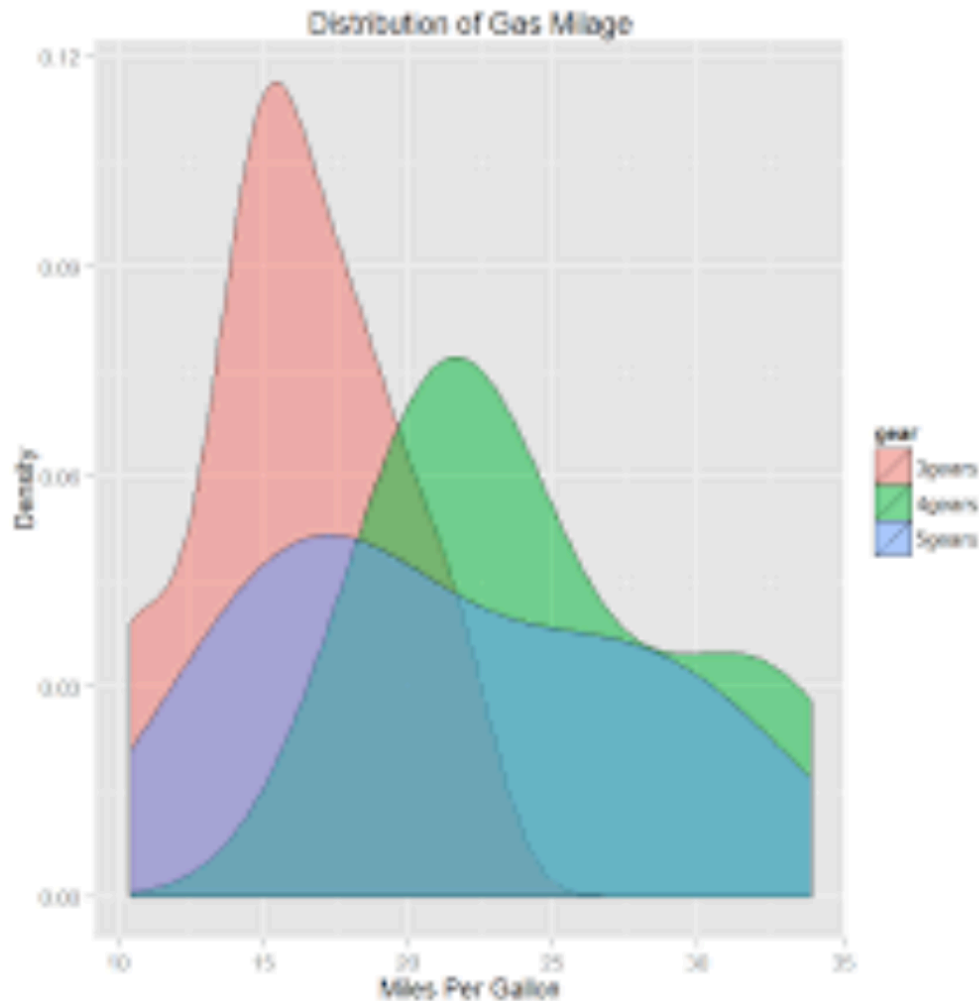
Edward Tufte



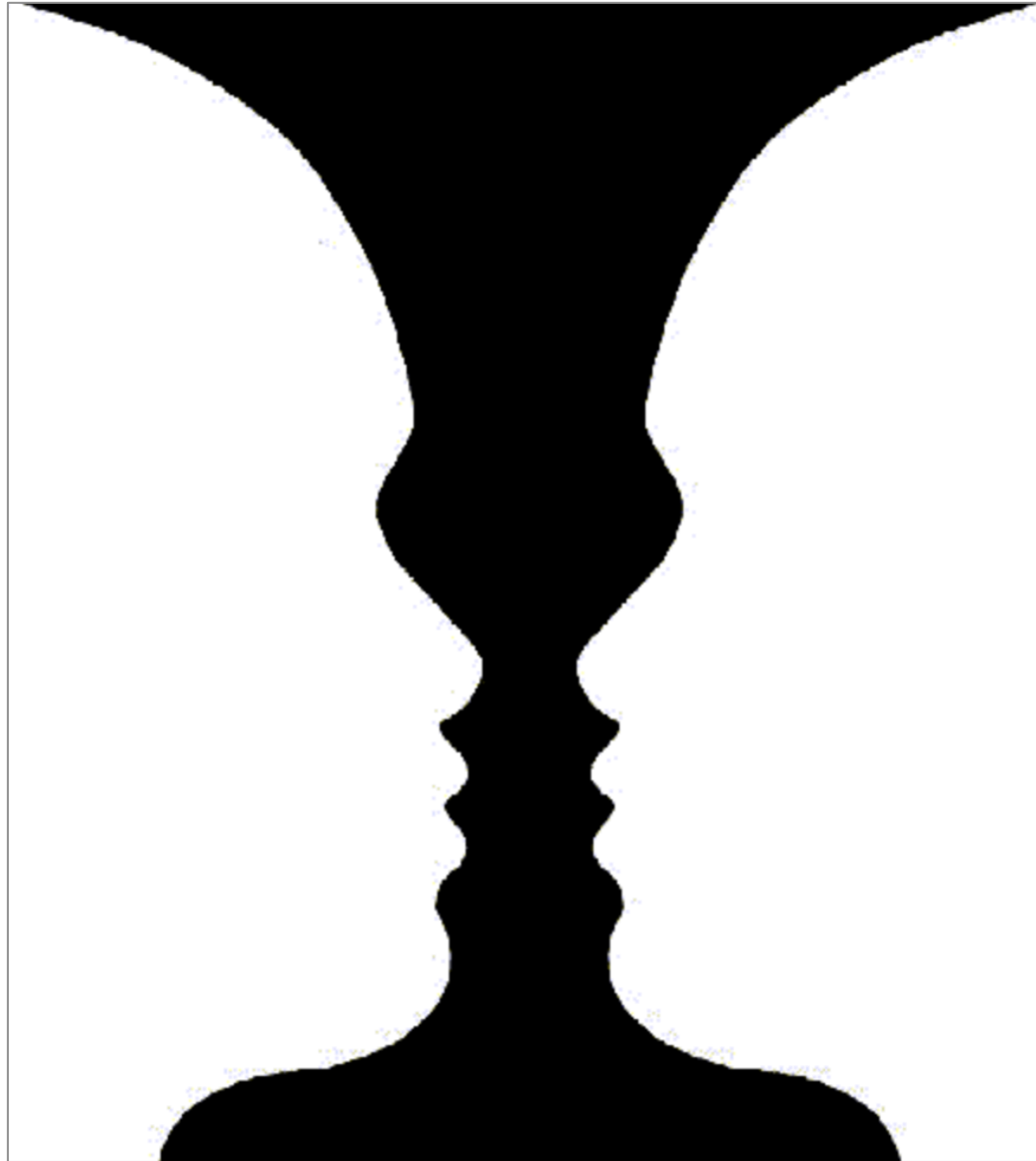


- Elijah Meeks just wrote a D3 book
- Scott Murray wrote a great (free) book on D3 from a designer's perspective
- D3 newsletter: Cool stuff every week
- Interactive Data Visualization: <http://chimera.labs.oreilly.com/books/1230000000345>

ggplot in R



Visual Perception



Gridlines

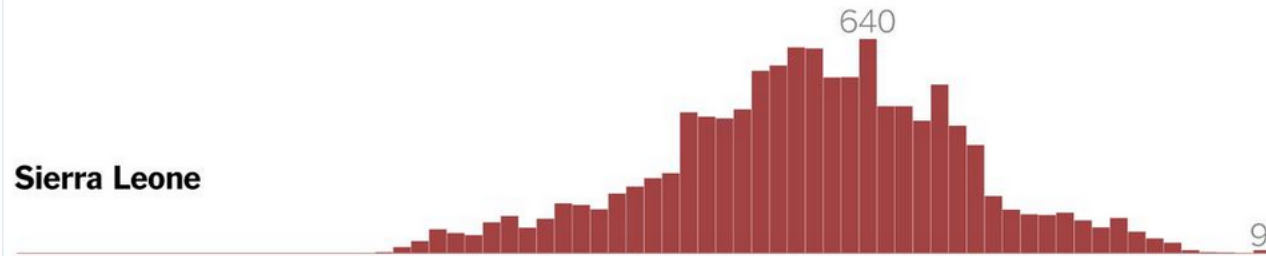
- Gridlines should always be labeled.
- Corollary: One should not use grid lines on any axis that lacks a scale.
- If one does use grid lines, they should be **ONLY** be used to demarcate increments of the dependent variable.
- Grid lines should be subtle elements of the background, and not draw the eye from the foreground elements.

New cases each week

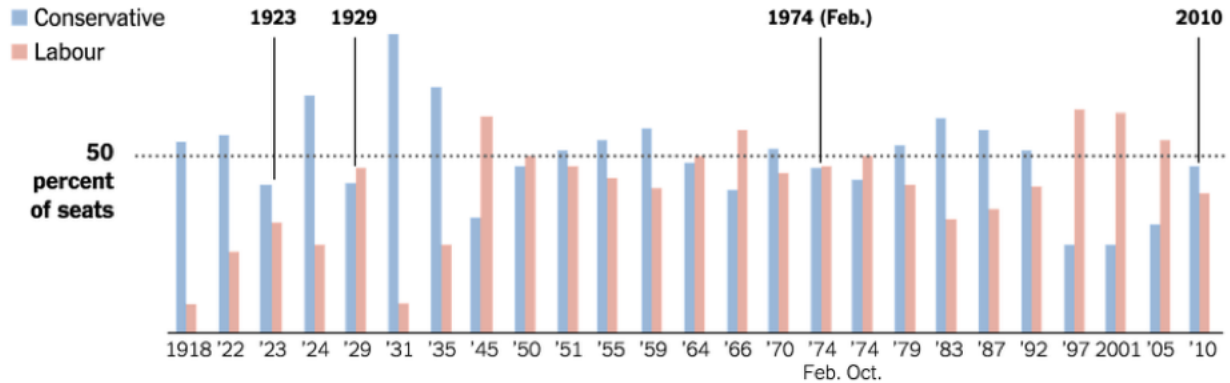
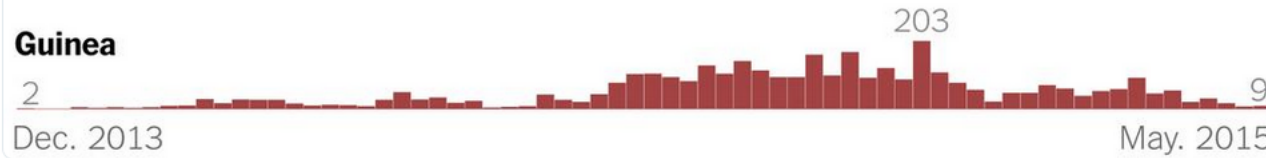
Liberia



Sierra Leone



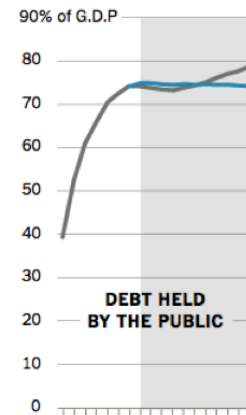
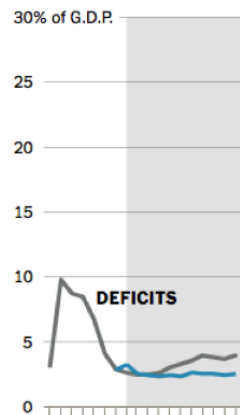
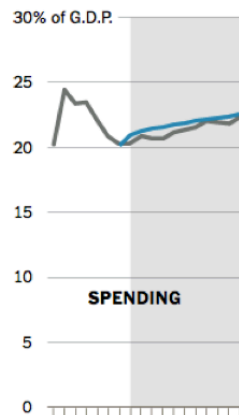
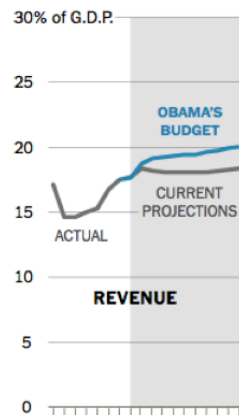
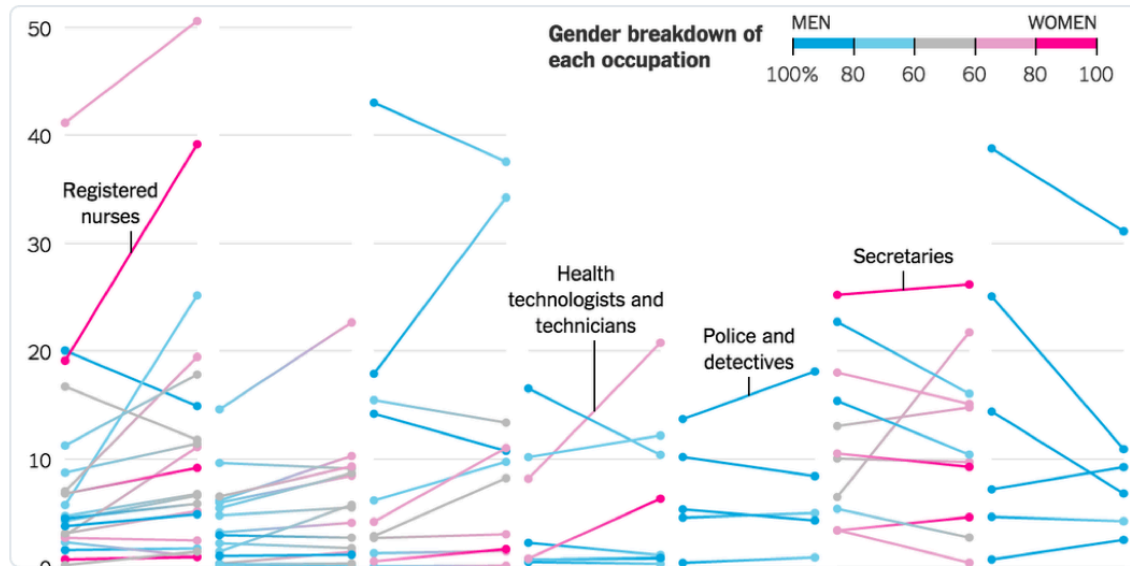
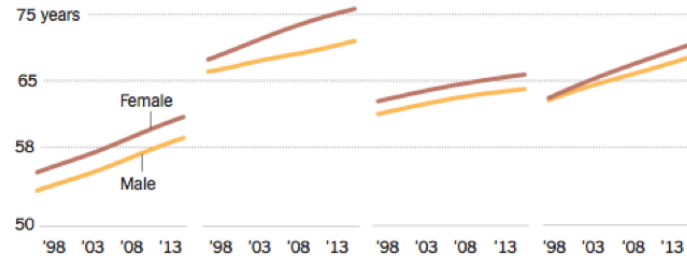
Guinea



Acknowledgement: slides and discussions around gridlines with Carl Bergstrom

Life Expectancy

Worldwide, women are generally expected to live longer than men. This is true in Afghanistan as well. But life expectancy in Afghanistan is still well behind other countries in the region.

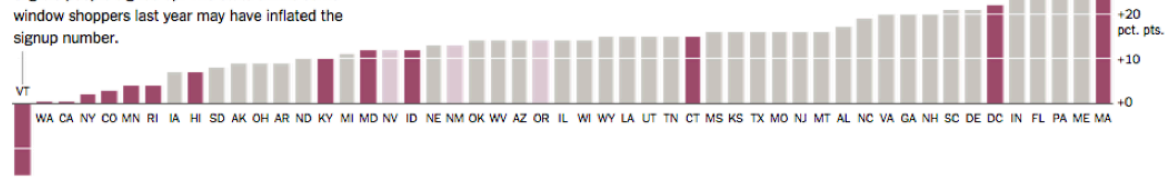


Change in share of potential market enrolled, 2014-15

Federal-run marketplace State-run, using HealthCare.gov State-run

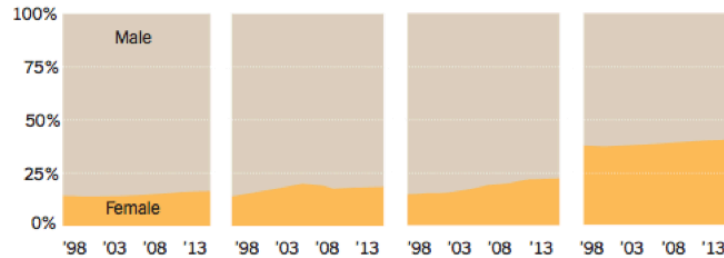
Vermont still has the highest percentage of eligible people signed up. The state thinks some window shoppers last year may have inflated the signup number.

Massachusetts had the greatest increase; the state signed up almost no one in 2014 because of computer glitches.

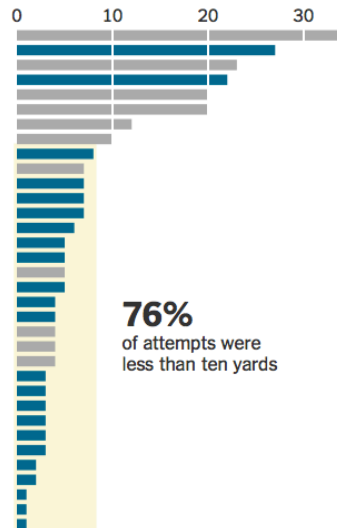


Labor Market Composition

Women have yet to find their footing in Afghanistan's labor market. Women make up just 16 percent of the country's labor force, slightly less than Iran, at 18 percent, and far less than Bangladesh, at 40 percent.

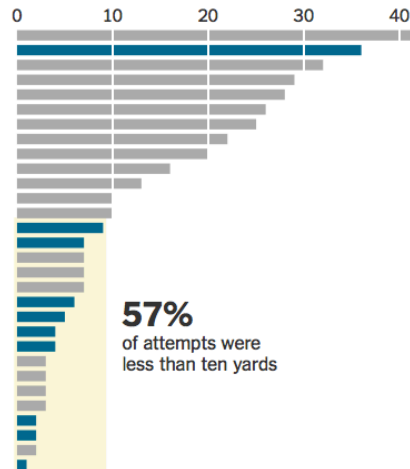


NEW ENGLAND PATRIOTS

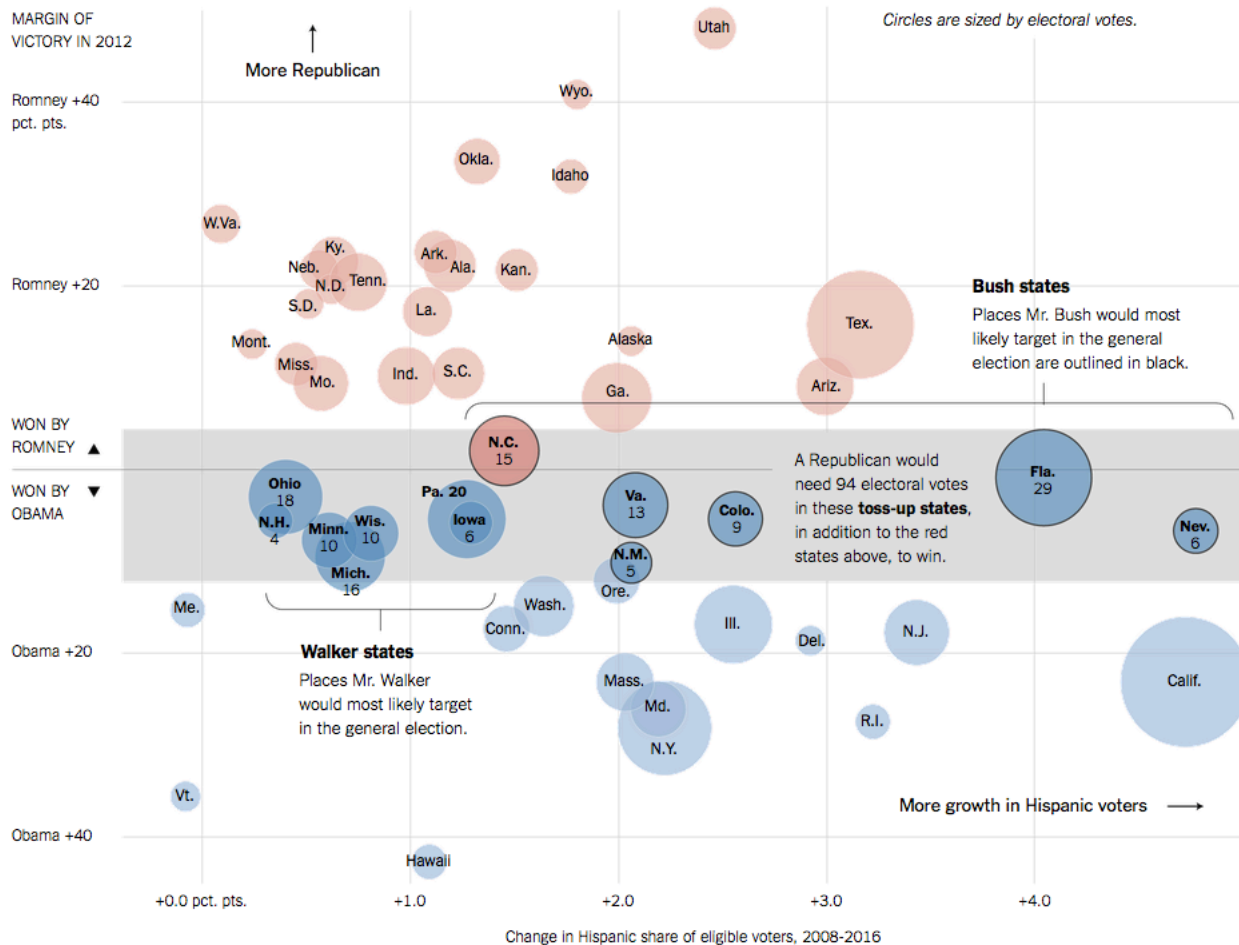


76%
of attempts were
less than ten yards

INDIANAPOLIS COLTS



57%
of attempts were
less than ten yards



The utility of metaphors in navigating large corpora

