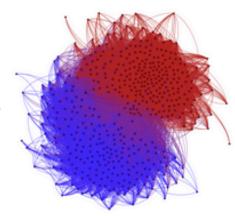
Using Text and Network Analysis to Study Politics

- John Myles White, Department of Psychology, Princeton University
- Drew Conway, Politics Department, New York Univerity



What do we care about in Political Science?

Fundementally, a study of collective action, or decision making among people.

State level

- How and why to people create formal institutions?
- Why to nations go to war?

Individual level

- Why do people join revolutions?
- What motivates someone to vote?

Let's talk about voting.

Specifically, how might we predict how people will vote?

Meaursing political ideology

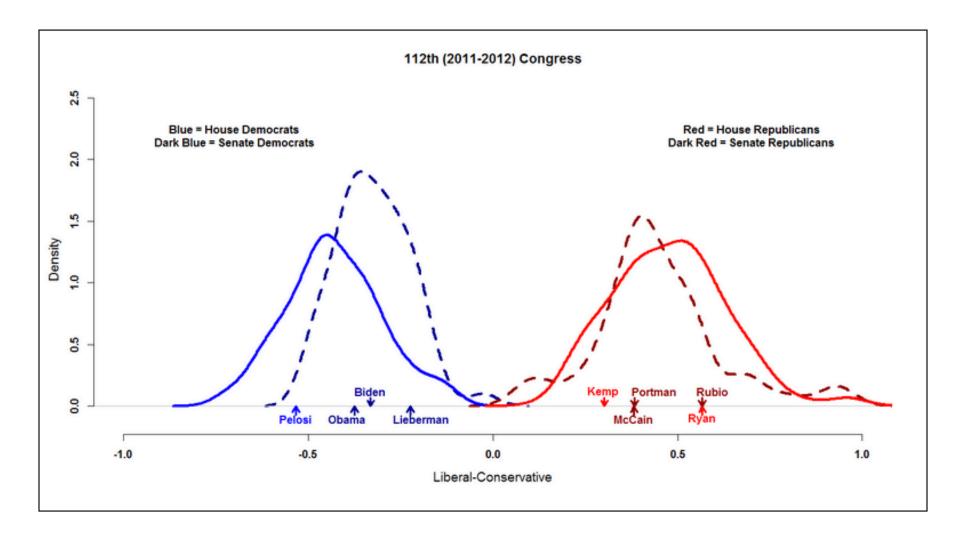
How can we measure political ideology?

DW-NOMINATE Scores

- Developed by Keith T. Poole and Howard Rosenthal in the early 1980s
- Use Roll Call votes to create large N x M matrix of votes
- Use multidemsional scaling
- High-dimensional voting space → two-dimensions

Now we have a numeric representation of the "left-right" scale of politics

DW-Nominate for 112th Congress



[&]quot;Forecasting Polorization in 113th Congress," voteview blog, September 10, 2012, http://voteview.com/blog/?

Moving beyond roll call votes

What's good about roll call votes

- Availability
- Interpretablity

What's **not so** good about roll call votes

- Temporal comparisons
- Single signal

Are there alternative data sources?

Today we have LOTS of alternative sources

Text Data

- Constiuent communication
- Floor and campaign speech transcript
- Social media

Network Data

- Byproduct of social media
- "Who follows who" additional signal
- Many different platform context