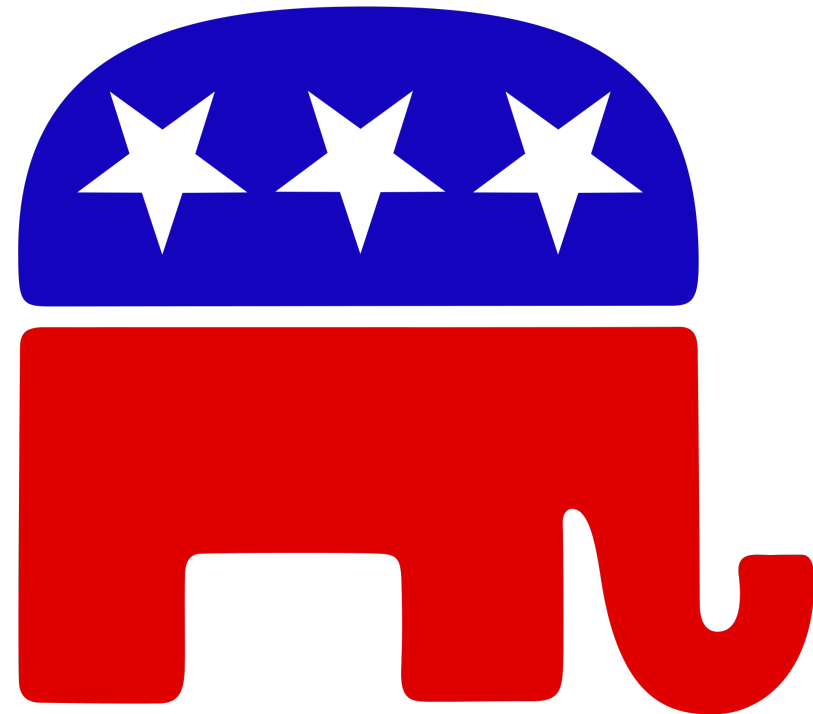


Kevin Kesicki.1
Matt Kujawinski.2
Erik Thiem.3

Partisan Speech
Analysis



**What can we learn about
political parties from their
candidate's speeches?**

Data

- 2 parties
- 3 elections
- 36 candidates
- 1,015 speeches
- 145,417 sentences



Naive Bayes

- TODO: Matt

Perceptron

- Python
- SciPy and NumPy data structures
- NLTK word tokenizing

Perceptron Results

Iterations	Accuracy	Time
1	0.637	1m59.430s
5	0.643	3m9.371s
10	0.652	4m40.839s
20	0.649	7m24.509s
50		

Perceptron Weights

- Top 10 Democratic words:

hillaryclinton.com : 44.0

bullying : 42.0

richardson : 40.0

michelle : 39.0

ideological : 38.0

partnering : 38.0

blows : 36.0

detection : 36.0

intending : 36.0

nurses : 35.0

Perceptron Weights

- Top 10 Republican words:

entitlement : -47.0

conservatives : -40.0

marshal : -39.0

entitlements : -39.0

enterprises : -39.0

rancor : -38.0

statehood : -38.0

unborn : -37.0

socialized : -36.0

I. : -36.0

N-Gram

- TODO: Kevin

Questions?

