

# Appealing to the Base or to the Moveable Middle? Incumbents' Partisan Messaging Before the 2016 U.S. Congressional Elections

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# Main takeaway

Democrats and Republicans differed in their partisanship:

- Democrats decreased their partisanship, following the “median voter” playbook
- Republicans remained consistent in their messaging, using Twitter to activate and reinforce their base

# Background

- Median Voter Theorem (Downs 1957)
- Activation and reinforcement (Lazarsfeld, Berelson, and Gaudet 1948)
- Direct (Mitchell, Gottfried, Barthel, & Shearer, 2016) and indirect (Shapiro and Hemphill 2017) political audiences on Twitter
- Measuring polarization through tweets (Hemphill, Culotta, and Heston 2016)

# Hypotheses

1. As the election nears, politicians will exhibit **lower** polarization scores.
2. As the election nears, politicians will exhibit **higher** polarization scores.
3. Majority party incumbents will exhibit **lower** polarization scores than minority party incumbents.
4. Candidates in close races will exhibit **lower** polarization scores.

## Why both higher and lower?

1. **Median voter theorem:** reduce partisanship to attract the moveable middle
2. **Activate and Reinforce:** increase partisanship to get base to the polls
3. **Low Congressional approval + unpopular presidential candidate:** reduce partisanship to appear less extreme
4. **Close race:** reduce partisanship to reduce effect of party affiliation

# #Polar Scores for Measuring Partisanship on Twitter

1. Collect tweets
2. Identify “framing” or “positioning” hashtags
3. Create binary hashtag vectors for each MOC
4. Run through feature selection algorithms, where hashtags are features
5. Assign signed scores to tags: #Polar-Hashtag
6. Sum signed tag scores: #Polar-User

# Methods

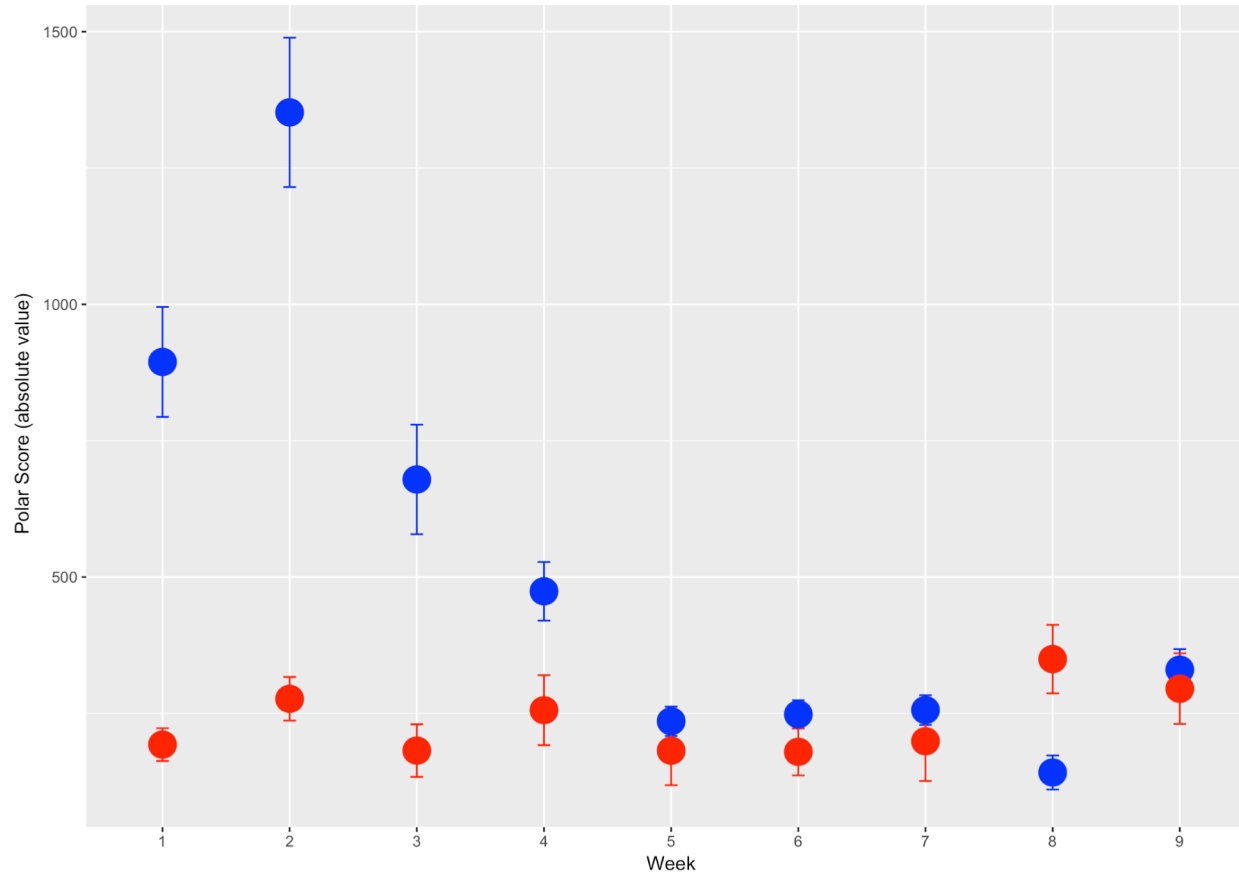
1. Collect tweets from incumbents (**25,483** tweets from **458** accounts)
2. Calculate #polar scores for each week from Labor Day to Election Day
3. Predict #polar scores using individual, party, time, and race measures

# Measures

<b>Variable</b>	<b>Type</b>	<b>Operationalization</b>
abs	outcome	Absolute value of the average partisanship of the member of Congress's Twitter feed for week
handle	predictor	Twitter handle associated with the member of Congress's account
party	predictor	1 = Republican; 0 = Democratic
week	predictor	Number of the week (1 = week beginning Labor Day)
margin of victory	predictor	Ratio of votes separating the winner and the runner-up to sum of votes both candidates received



# #Polar scores over time



	Overall Model	Republicans	Democrats
<b>Fixed Effects</b>			
Week	<b>-117.29***</b> (9.32)	2.82 (4.40)	<b>-110.01***</b> (12.99)
Party (Republican)	<b>-878.60***</b> (95.63)		
Week * Party	<b>125.10***</b> (12.56)		
<b>Random Effects</b>			
Handle	324614	148321	487028
Handle, week	779051	154608	1640135
<b>Model Fit</b>			
AIC	49875	25868	23113

	Week alone	Including race margin
<b>Fixed Effects</b>		
Week	<b>-47.44***</b> (6.91)	<b>-117.27***</b> (9.318)
Party (Republican)		<b>-874.07***</b> (96.155)
Margin		0.653 (1.170)
Week * Party		<b>125.077***</b> (12.563)
<b>Model Fit</b>		
AIC	49962	49877

# Results

<b>Hypothesis</b>	<b>Result</b>
Median Voter: Lower scores	Supported
IPP: Higher scores	Not supported
Unpopular Congress, presidential candidate: Lower scores	Supported
Close race: Lower scores	Not supported

# Takeaways

- Republicans and Democrats employed different strategies.
  - Republicans - stake a moderate claim and stay there (mostly)
  - Democrats - message in line with Congressional action, move to the middle right before the election
- Trump didn't make 2016 unique, at least not on this measure.
- Future work: challengers and campaign accounts

# Supplemental Slides

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## Evaluating #Polar Scores Algorithms

- Split  $D$  into  $k$  equal-sized sets  $D_1 \dots D_k$
- For each set
  - Construct  $D_{train} = D \setminus D_k$ ;  $D_{test} = D_k$
  - Rank features in  $D_{train}$  according to  $F$
  - Retain the top  $m$  features
  - Fit a classifier on  $D_{train}$  using only the selected  $m$  features
  - Predict the class assignments for the held-out observations in  $D_{test}$

