

Predicting Political Affiliation of News Journals from Tweets

By: Eric Patterson

Process



Topic Modeling Results

Topic 1						
house	white	staff	speaker	briefing	aide	chief

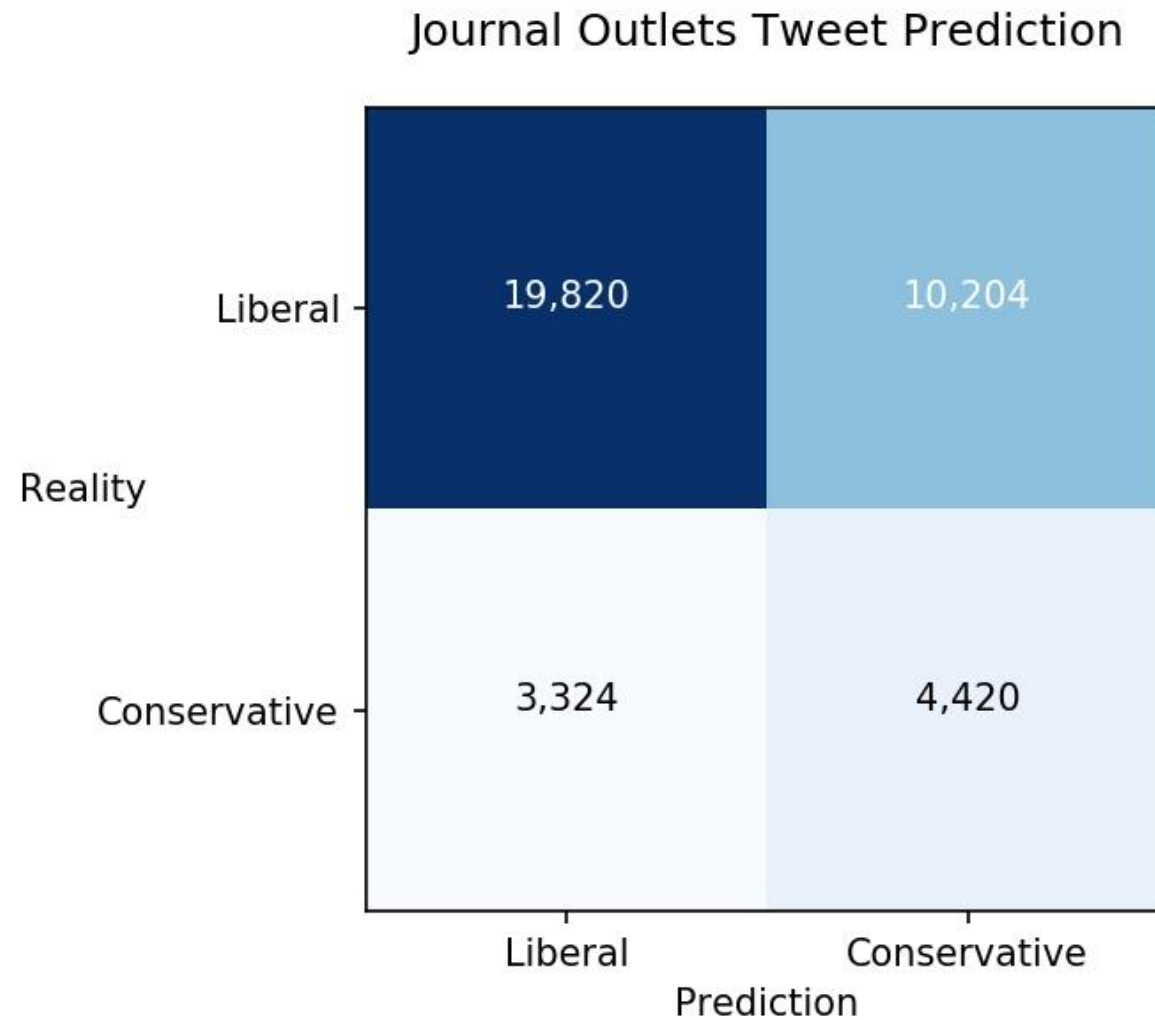
Topic Modeling Results

Topic 1						
house	white	staff	speaker	briefing	aide	chief
Topic 91						
johnson	boris	tory	burqa	woman	face	remarks

Sentiment Analysis

- Applied a polarity score for each tweet using Vader
- Used results to extrapolate sentiment towards each topic

Results



Challenges

- Short length of tweets
- Topics shift drastically with news cycle
- Sentiments are more focused on a specific news item than on a general topic

Topic Modeling –Sentiment Relationship

Topic 63						
immigration	illegal	policy	policies	debate	border	enforcement
Topic 85						
family	separation	border	congress	separations	members	policy

Topic Modeling Results

Topic 63						
immigration	illegal	policy	policies	debate	border	enforcement
Topic 85						
family	separation	border	congress	separations	members	policy
Topic 1						
house	white	staff	speaker	briefing	aide	supremacists
Topic 2						
news	fake	online	local	users	adults	digital