

STEPHAN GRIMM

Tagging Podcasts

using Natural Language Processing (NLP)

Agenda

- 1 Task
- 2 Methodolgy and Steps
- 3 Results

Task

TAGGING PODCASTS

Why do we want to tag podcasts?

- better categorize by main topics
- help listeners hone into specific episodes or podcasts
- draw audiences not exposed to a podcast before

Podcasts used

 4 episode from 'The Argument' by The New York Times

Methodoligy and Steps

FOR TAGGING PODCASTS

Remove alphanumeric characters and lowercase everything...

michelle goldberg i'm michelle goldberg. michelle cottle i'm michelle cottle. jamelle bouie i'm jamelle bouie. frank bruni and i'm frank bruni and this is the argument. the democratic convention is finally here if you can even call it a convention. like all else about a presidential campaign conducted in the shadow of a pandemic it's nothing like what happened in years past. does that negate its usefulness? what can and should democrats accomplish through this socially distanced virtual extravaganza? [...]

Remove stopwords

michelle goldberg i'm michelle goldberg. michelle cottle i'm michelle cottle. jamelle bouie i'm jamelle bouie. frank bruni and i'm frank bruni and this is the argument. the democratic convention is finally here if you can even call it a convention. like all else about a presidential campaign conducted in the shadow of a pandemic it's nothing like what happened in years past. does that negate its usefulness? what can and should democrats accomplish through this socially distanced virtual extravaganza? [...]

Lemmatization and keeping Nouns

Grouping words with similar meaning

BEFORE

michelle

goldberg

argument

democratic

convention

finally

even

call

AFTER

argument

democratic

convention

call

What is left to do?

Building the topic model

generate word clouds per topic

Results

WORDCLOUDS VS. DESCRIPTIONS

What Biden must do

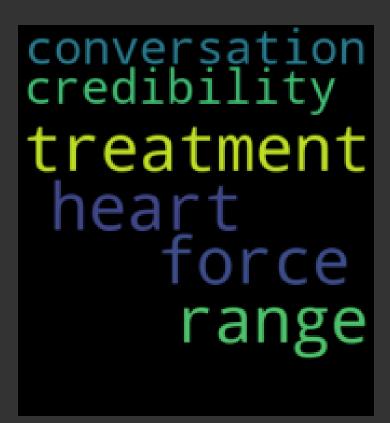
A special round-table episode on what's at stake during this week's Democratic convention. Plus: a requiem for the "nerd Coachella."



Election, Convention



Coalition, Future



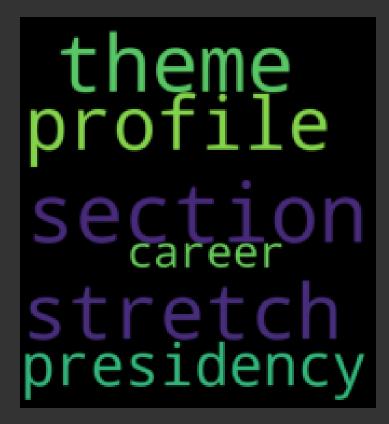
Treatment, Range

Can Republicans sell a whole new Trump?

The Bulwark's Charlie Sykes joins the podcast to debate whether or not the convention will bring voters to Trump.



Time, People



Presidency, Section



Nominee, Path

Is Individualism America's Religion?

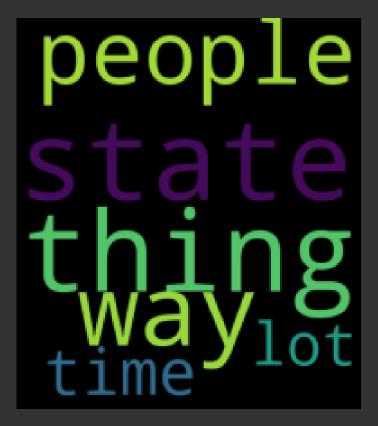
church

result state

recognition existence reflection spokesman

The case for a One-State solution

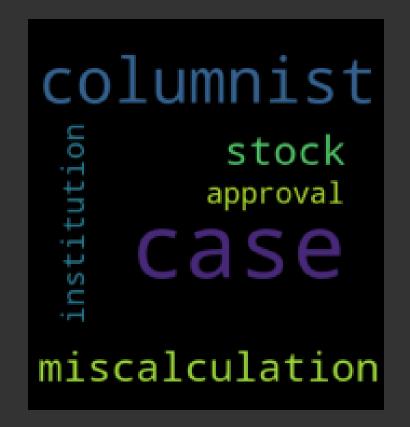
Peter Beinart joins the podcast to debate the future of Israelis and Palestinians.



State, People



Establishment, Citizen



Case, Institution

Conclusion

Pros

- Word clouds resemble summary
- Tag words help categorization

Improvements

- Remove more words (eg. people)
- add adjectives for sentiment