

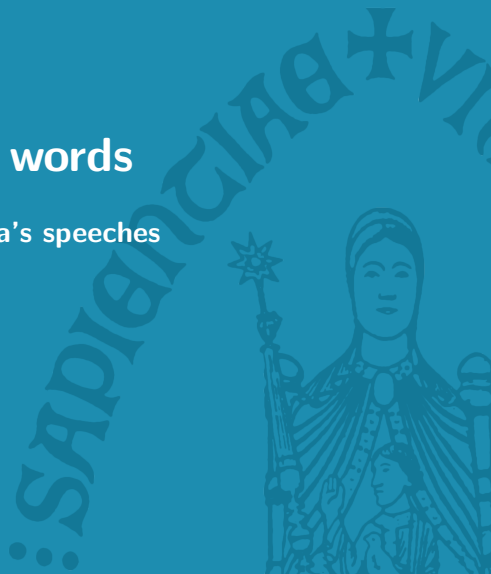
Shaping a leader's words

NLP analysis of Barack Obama's speeches

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0 Outline

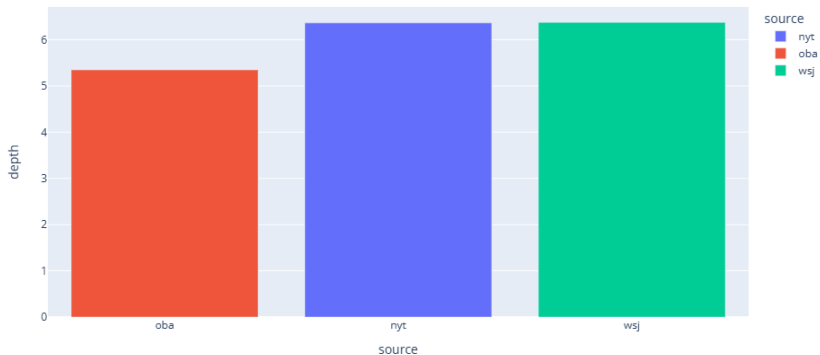
- ① Introduction
- ② Exploring the data
- ③ Sentiment analysis
- ④ PCA Biplot using spacy embeddings
- ⑤ Correspondence Analysis
- ⑥ Future endeavours

1 Introduction

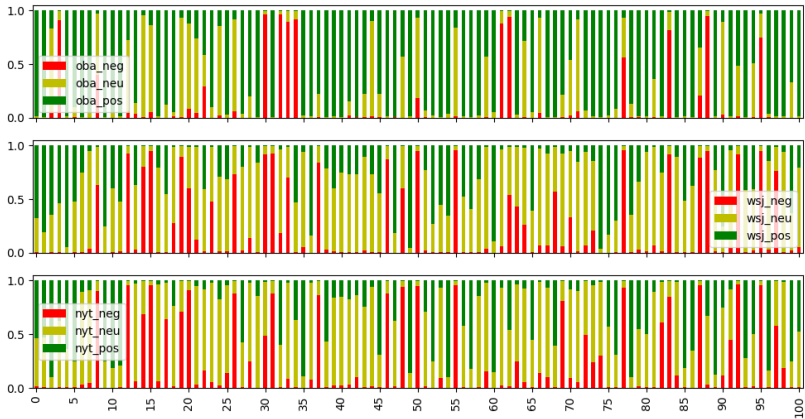
- ▶ Interpret/Analyze speeches
 - Barack Obama speeches
 - American Rhetoric
 - UCSB
- ▶ Compare to
 - New York Times
 - Wall Street Journal

2 Exploring the data

Mean dependency parse tree depth

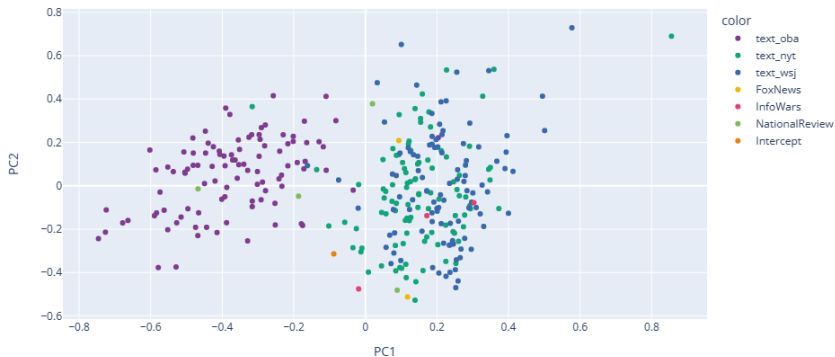


3 Sentiment analysis

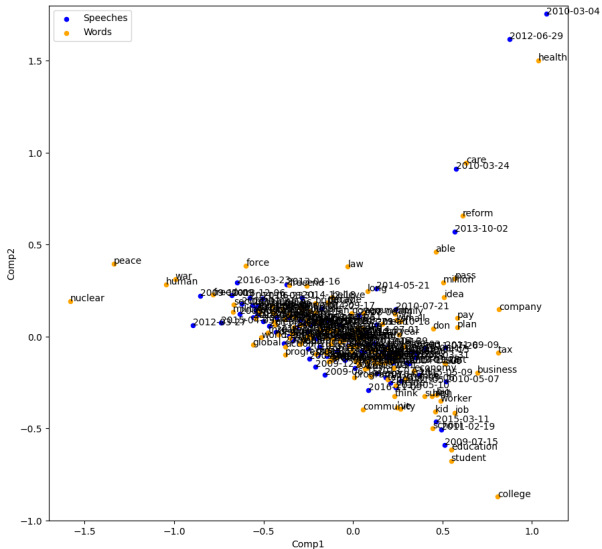


4 PCA Biplot using spacy embeddings

PCA Biplot using spacy embeddings



5 Correspondence Analysis



6 Future endeavours

- ▶ Compare Obama speeches to Bush speeches
- ▶ Fine tune topic modeling
- ▶ Investigate n-grams
- ▶ Continue investigating Doc2Vec embeddings for prediction