REDDIT USER ANALYTICS

NATURAL LANGUAGE PROCESSING

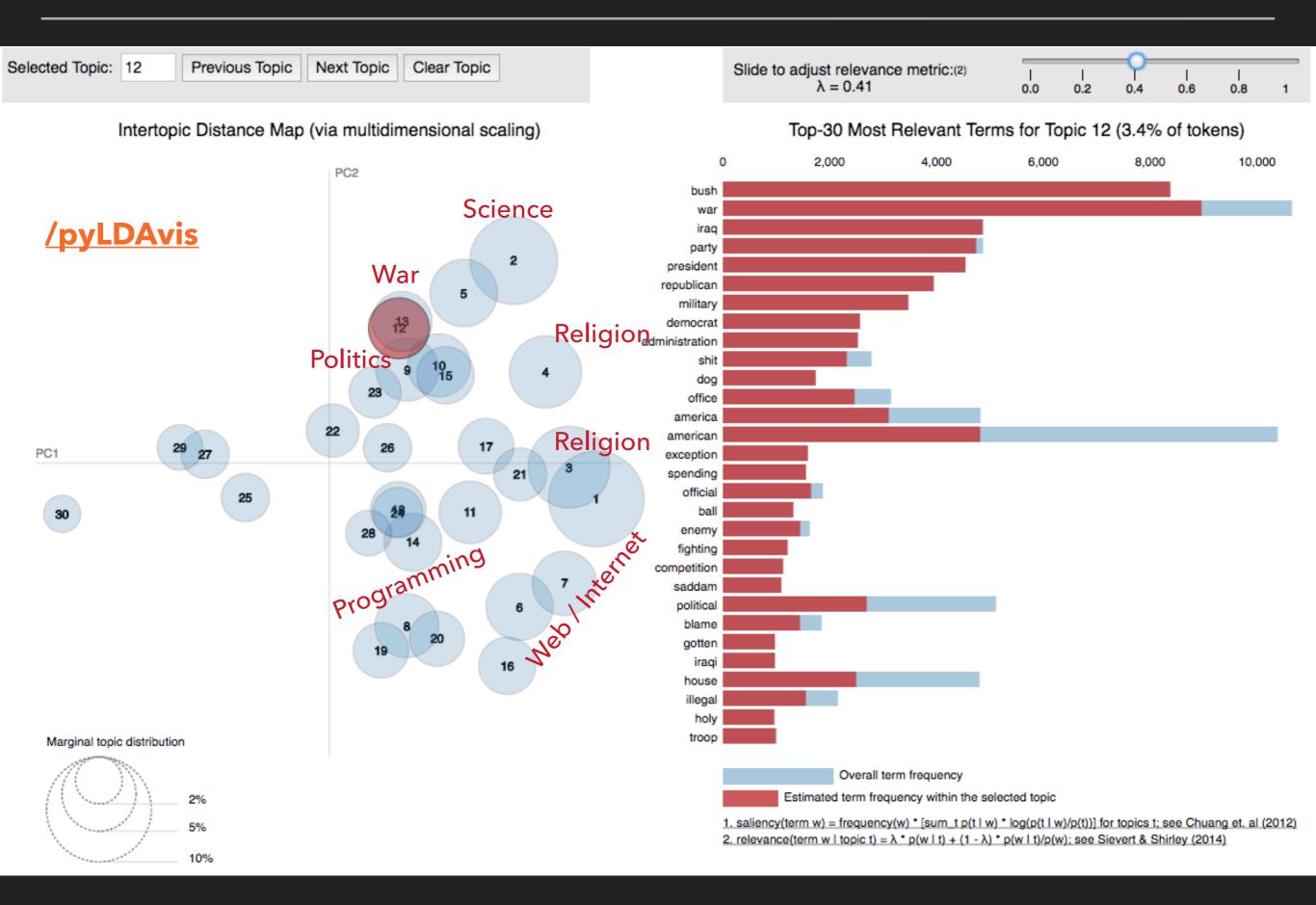
OBJECTIVES

- Investigate reddit comments data on a user basis
- 300GB of text data available online
- Create a tool to summarize user activities using NLP
 - Topics of interest
 - Connection to users with similar interests
 - Suggestions for new connections and topics

PROCESS

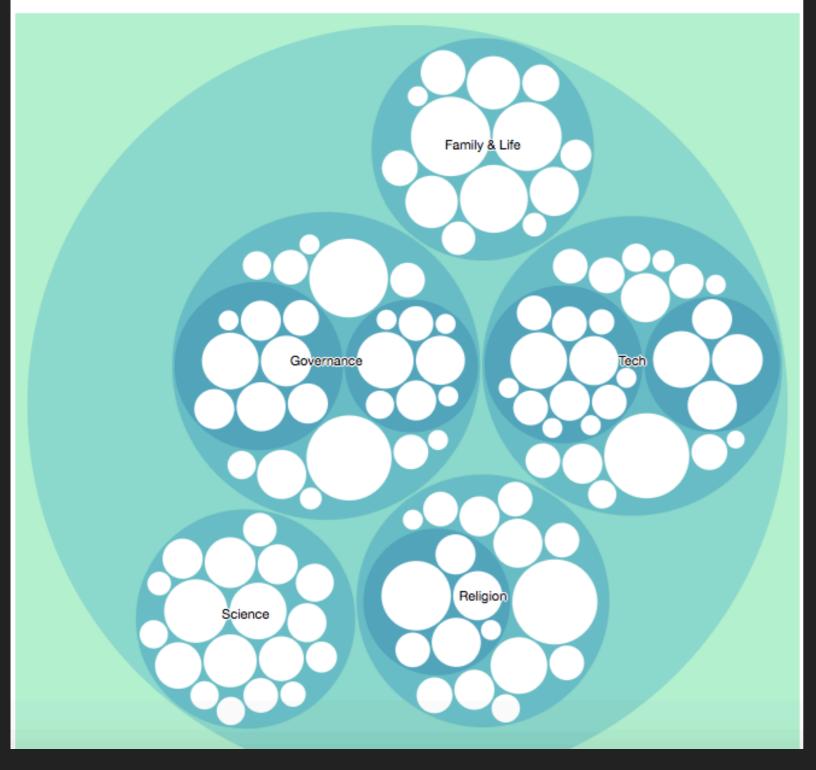
Data Acquisition Data Storage Data Exploring / Modelling REDDIT TEXT DATA **STORAGE ON TEXT CLEANING WITH NLTK** 25GB = 15 MMONGODB & AWS **COUNT / TFIDF VECTORIZER COMMENTS** LSA / SVD **Politics Election / voting KMEANS** War Life / Family **NMF** Globalism Programming HDP LDA Internet Economy Religion Science **Topic Modelling / Clustering**

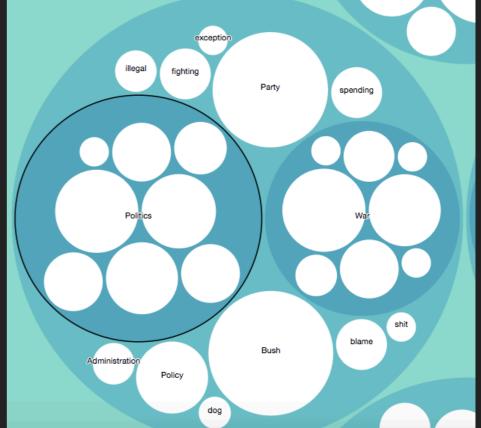
TOPICS FOUND WITH LDA

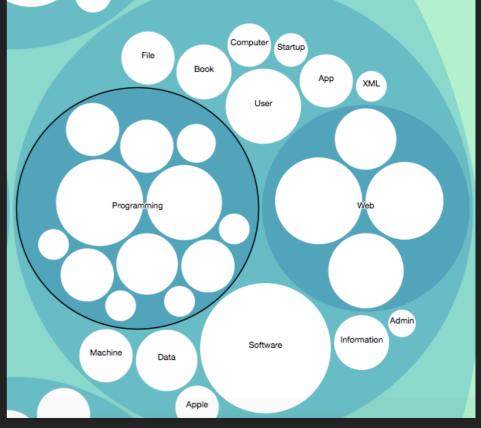


VISUALIZATIONS - D3

Topics found using Latent Dirichlet allocation







VISUALIZATIONS - FLASK APP

Reddit User Topics

User:

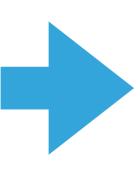
What's your name?

Submit

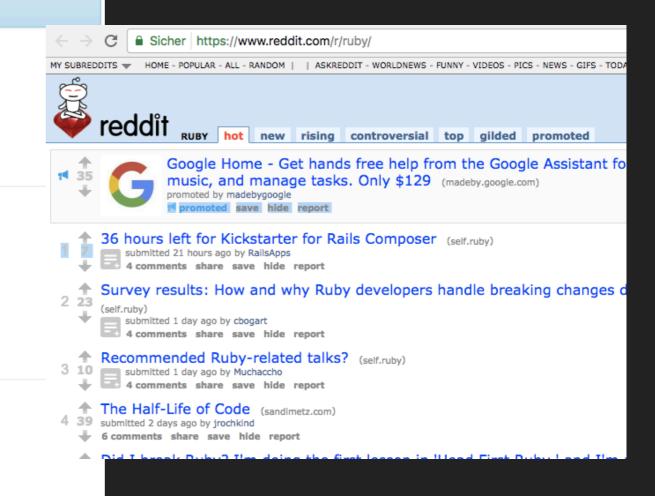
Hey flowinger, check this out:











FUTURE WORKS

- Use more meta data as features
- Use all of the available data (submissions etc.)
- Word2vec

SOURCES

https://files.pushshift.io/reddit/