

# Reddit Context Recommender

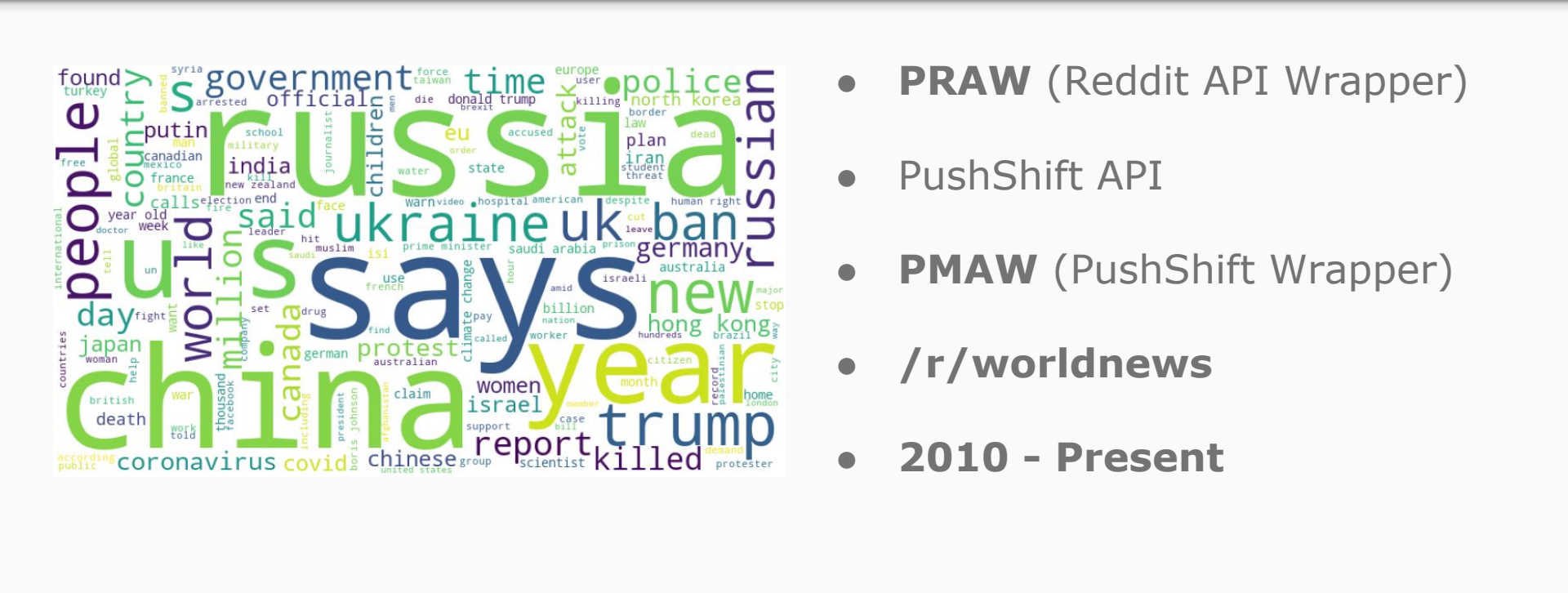
Natural Chan

# Background

- News Source
- Frequently Updated
- **Context**
- **Recommend Related Posts**



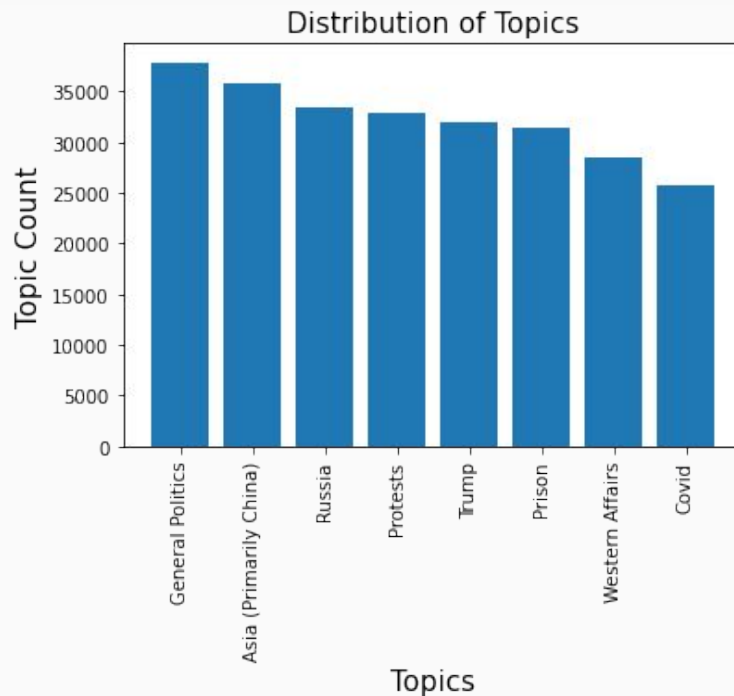
# Data



- **PRAW** (Reddit API Wrapper)
- PushShift API
- **PMAW** (PushShift Wrapper)
- **/r/worldnews**
- **2010 - Present**

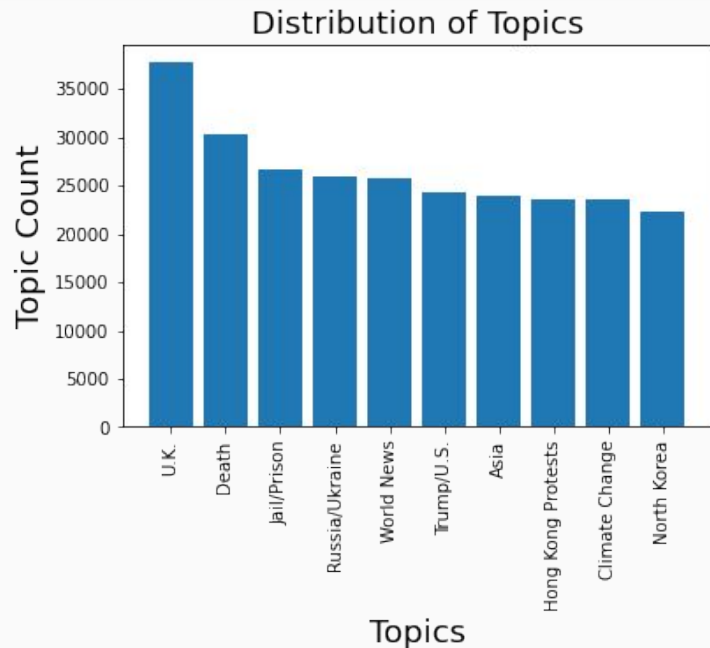
# Modeling

- Stemming
- CountVectorizer
- NMF
- **8 Topics**



# Modeling

- Custom Tokenizer
- CountVectorizer/TF-IDF
- NMF
- **10 Topics**



# Results

"Workers **Discover**  
**700-Year-Old Lead**  
**Coffin** Beneath **Notre**  
**Dame Cathedral**"



"**Shark Numbers** Along  
The **Great Barrier Reef**  
Have Dropped By **92%** In  
Just **50 Years**"

# Results

"Workers **Discover**  
**700-Year-Old Lead**  
**Coffin** Beneath **Notre**  
**Dame Cathedral**"



"**Dozens** of new **viruses**  
**discovered** in  
**15,000-year-old glacier**  
**ice**"

# Conclusion



- Successful as Recommender
- Failed to Provide Context
- Adjust Number of Topics
- Adjust Similarity Metric