

# Loaded Topics: Predicting bias through story selection and word choice

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"I trust this site to tell the truth."

# Determining Bias

- Hostile Media Effect
- Way to predict bias from data?



# Establishing Sources

- Web scraping using beautifulsoup and selenium
- Join articles in MongoDB
- Drop redundant articles

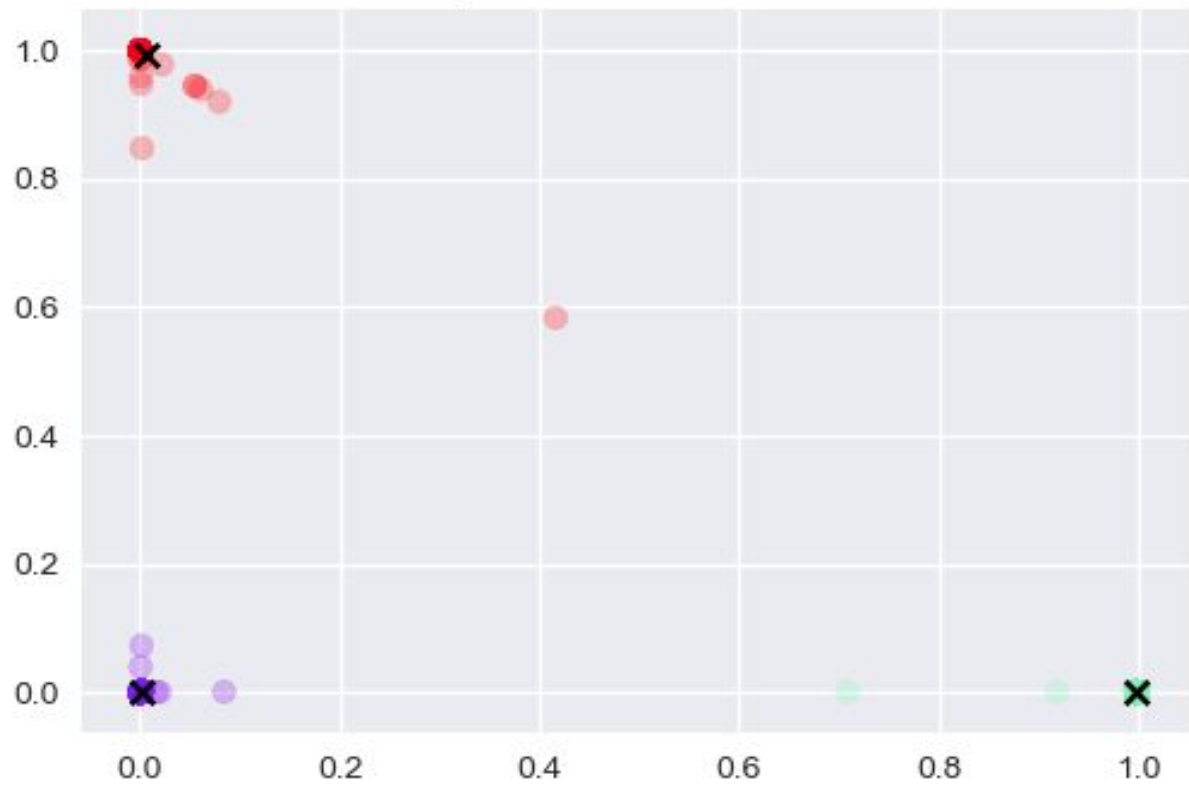
# Topic Modeling

- Countvectorizer
- LDA
- Three topics

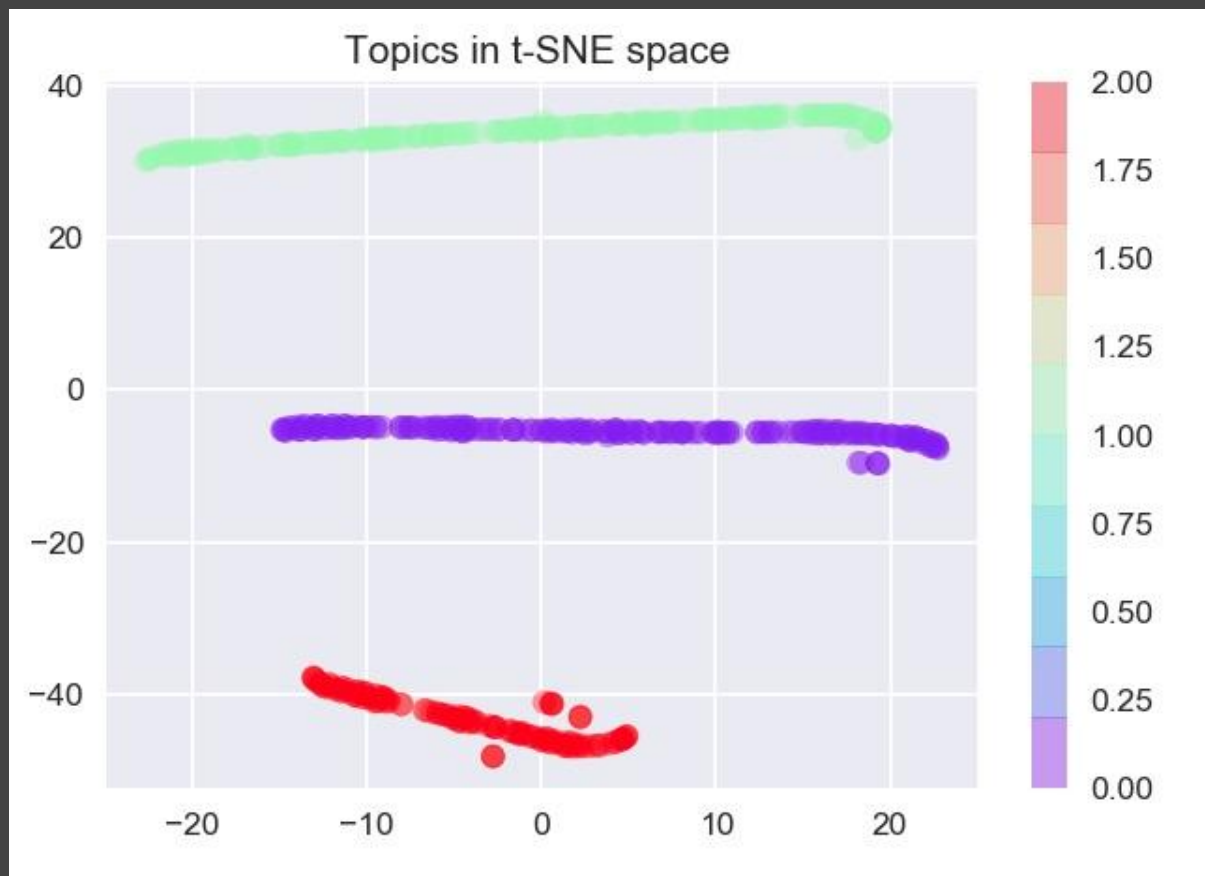
# Clustering

- KMeans = 3 clusters
- TSNE confirms

Topics in KMeans clusters







# Interpreting the Results

- Topics correlate with sources
- Formula to measure bias based on data

Source	Right	Center	Left
Breitbart	79	48	53
Huffington Post	33	56	62
Reuters	89	120	10

# Bias Scores

Source	Right	Center	Left
Breitbart	.44	.19	.36
Huffington Post	.28	.11	.62
Reuters	.33	.66	.01

# Next Steps

- More data with diversified sources
- Develop more distinct topics
- Find loaded words and phrases