# Universal Healthcare

A tweet NLP insight on discussions surrounding universal healthcare

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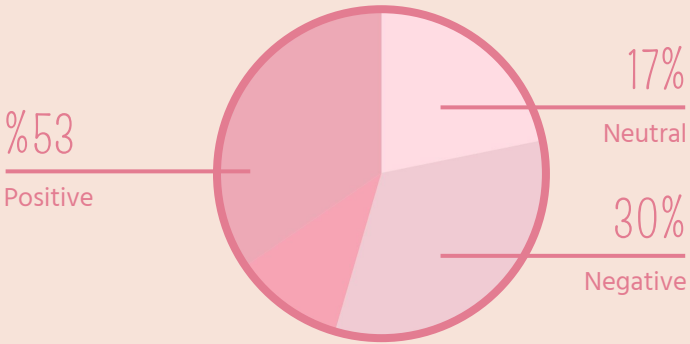
# Context & Background

- ACA
- Hesitation to support
  - Losing private coverage
  - Longer wait times
  - Taxpayer Money
- What exactly are people discussing about healthcare?

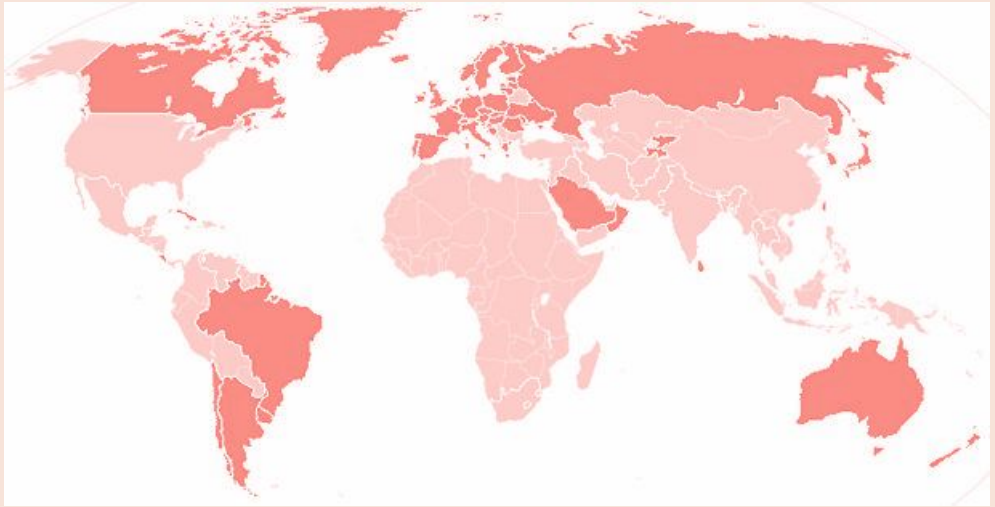
# Data & Universal HC Internationally

## Sentiment Analysis




26,457 Total Tweets

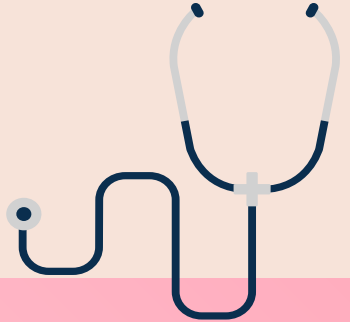
## Prevalence of Universal HC



62* Countries

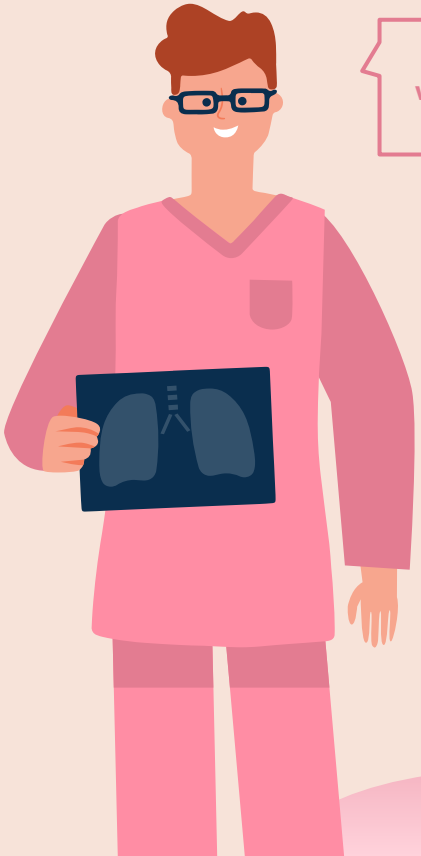
*Coverage varies by country

# Process Outline



| Data Collection | Data Preprocessing | Model Preprocessing | Topic Modeling | Sentiment Analysis (SA) | SA by Topic |
|---|---|---|---|---|---|
| | | | | | |

# NMF Topic Model Results



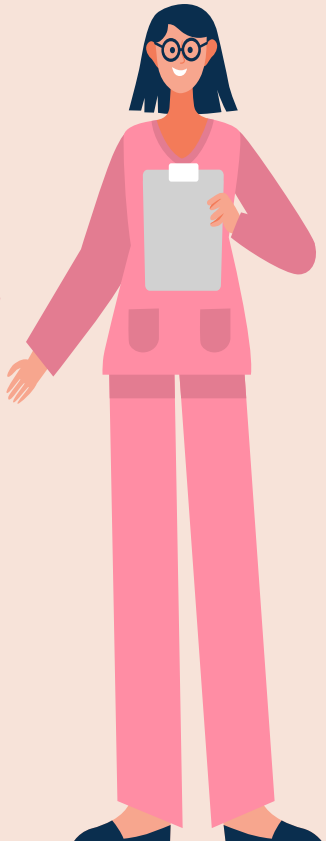
Some original topics were split into multiple!

1. Political
2. Human Rights
3. Quality of Life
4. Infrastructure
5. Comparisons
6. Public Service
7. Accessibility

# Sentiment Analysis by Topic Ranked

## Positive

- Quality of Life
- Public Service/ Accessibility
- Infrastructure
- Political/ Human Rights
- Comparisons



## Negative

- Political/ Human Rights
- Comparisons
- Infrastructure
- Public Service/ Accessibility
- Quality of Life

# Example Tweets by Topic

| | |
|---|---|
| "Universal healthcare is a fundamental human right.." | Political/Rights |
| "We can fix individual suffering through universal healthcare and thus therapy" | Quality of Life |
| "..we can't afford current model and need to find a sustainable model" | Infrastructure |
| "We may have universal healthcare, but it's rationed.." | Public Services/Accessibility |
| "I'm moving to Canada and using up all the universal healthcare and schooling" | Comparisons |

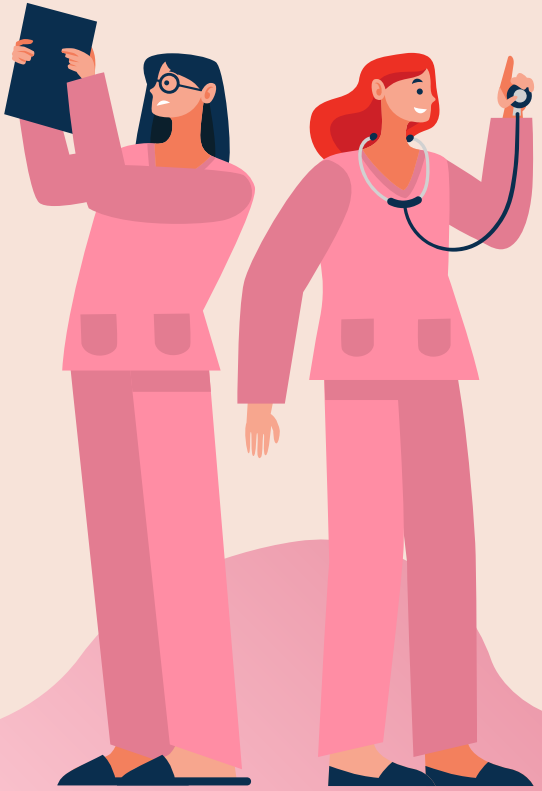
# Future Work

## More Discussion Sources

-Facebook, News articles, Reddit
-Debate live question forums

## Clustering by region

(For Campaign Research)



## How language shapes reactive sentiments in responses?

## Supplemental administrative cost analysis on current system

# Thanks

Do you have any questions?

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