



Universal Healthcare

A tweet NLP insight on
discussions surrounding
universal healthcare

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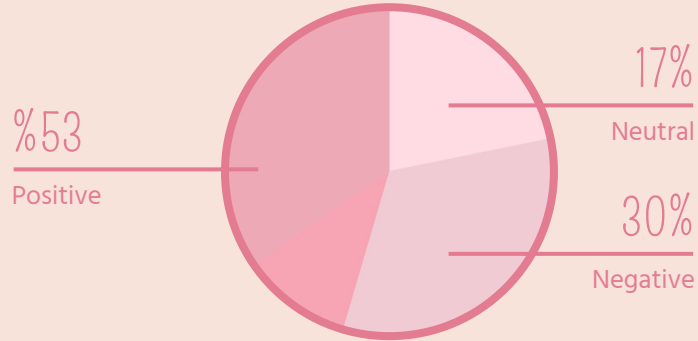
Context & Background

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



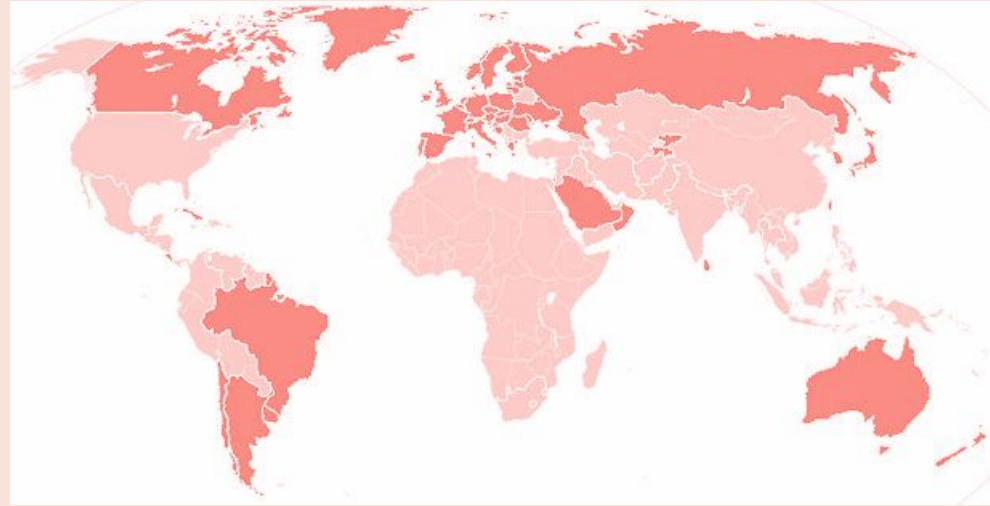
Data & Universal HC Internationally

Sentiment Analysis



26,457 Total Tweets

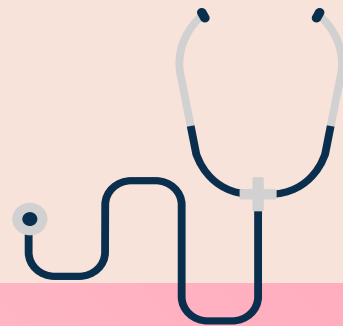
Prevalence of Universal HC



62* Countries

*Coverage varies by country

Process Outline



Data
Collection



Data
Preprocessing



Model
Preprocessing



Topic
Modeling



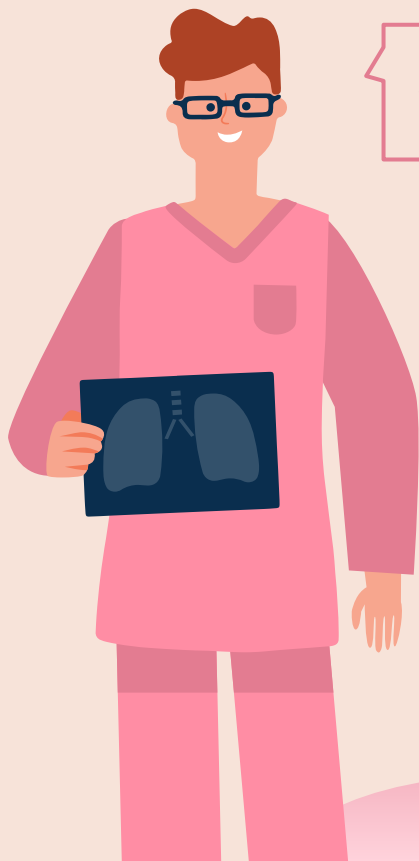
Sentiment
Analysis (SA)



SA by Topic



NMF Topic Model Results



Some original topics
were split into multiple!

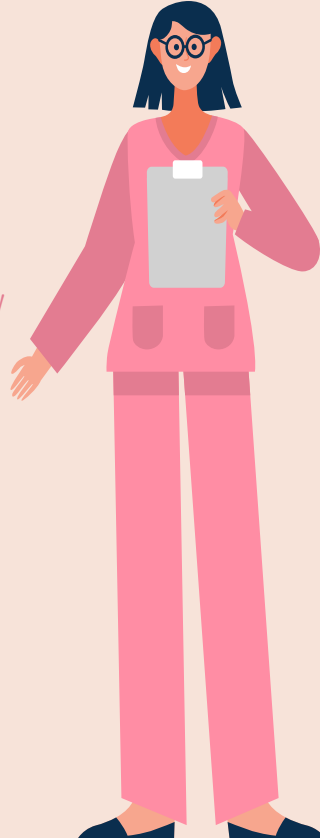
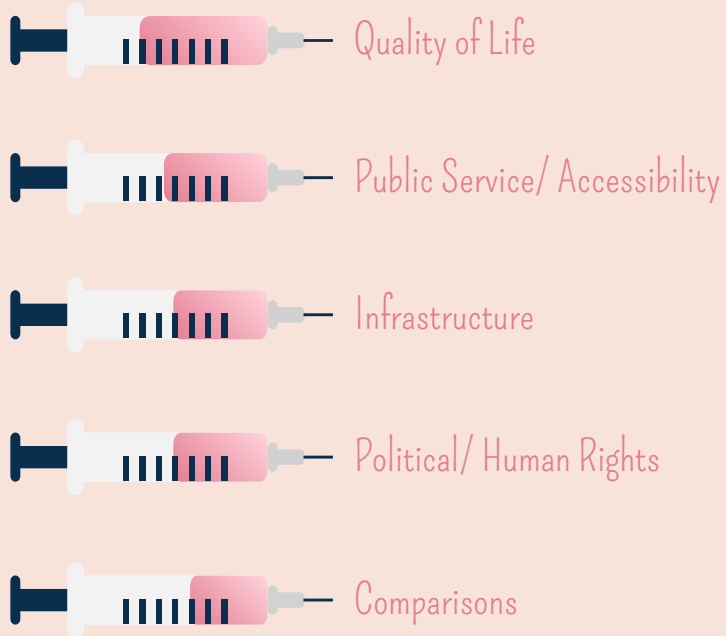
1. Political
2. Human Rights
3. Quality of Life
4. Infrastructure
5. Comparisons
6. Public Service
7. Accessibility

Not Here:

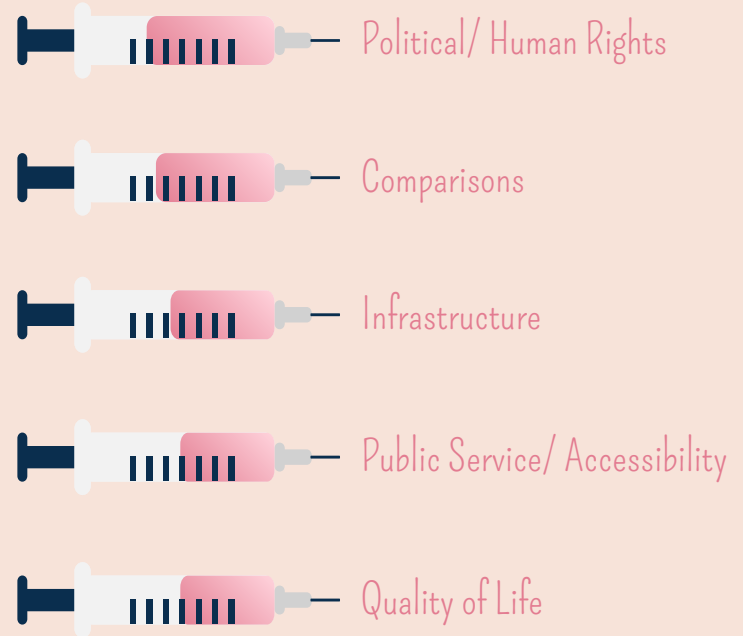
- Specialty Coverage
- Private Coverage
- Wait Times

Sentiment Analysis by Topic Ranked

Positive 



Negative 



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)



Time analysis on sentiments

Supplemental
administrative cost analysis
on current system



Thanks

Do you have any questions?

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