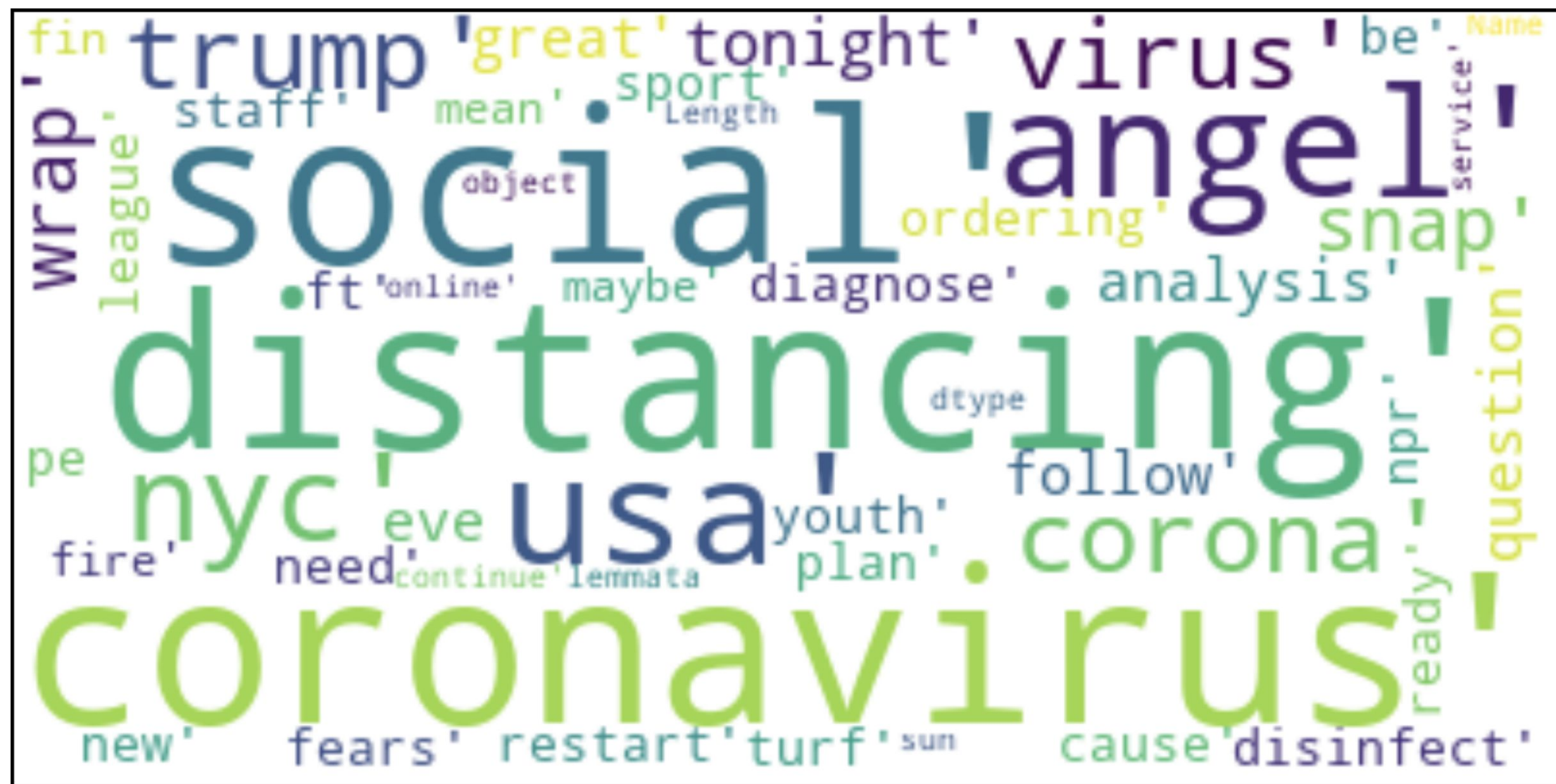


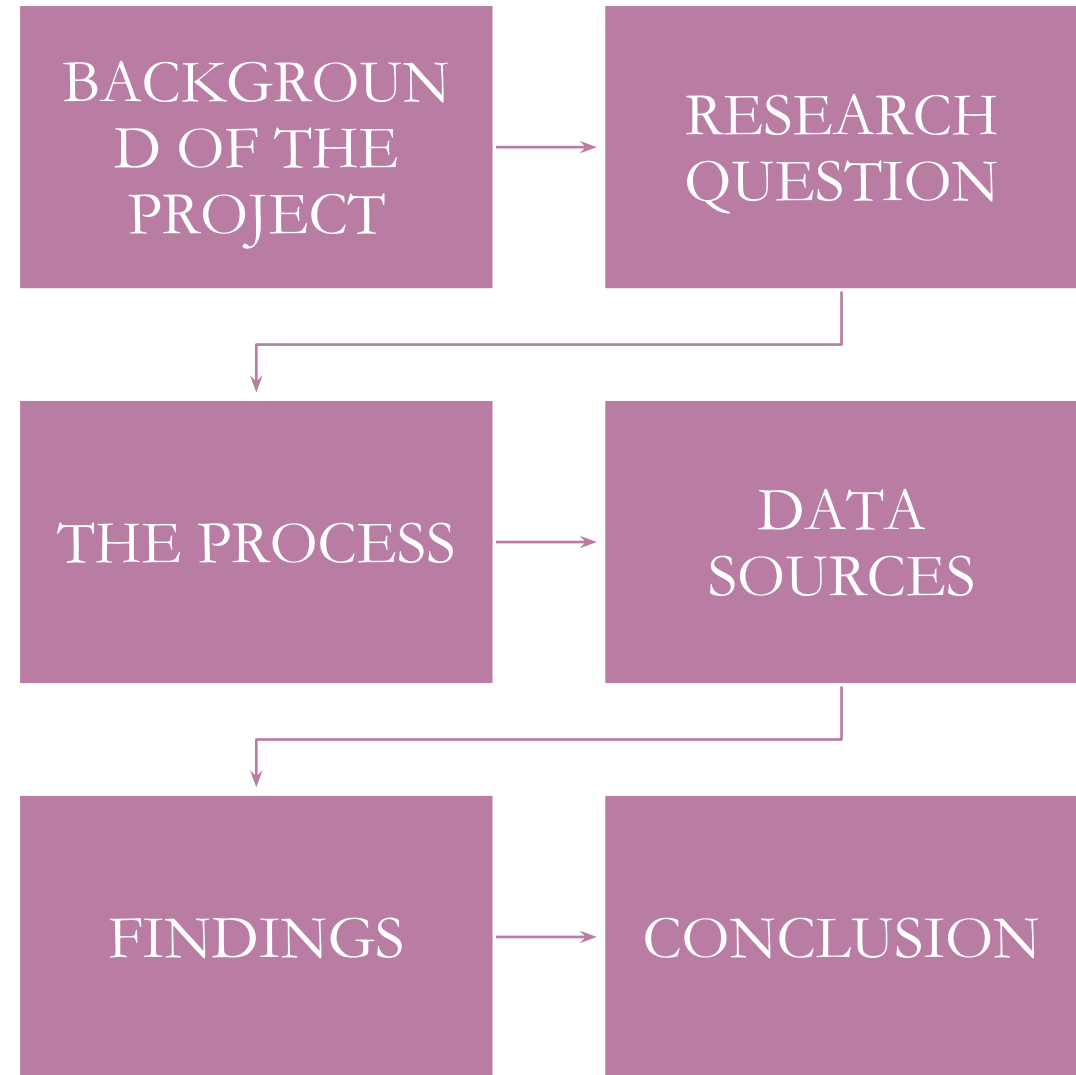


Sentiment by State

ANALYZING TWEETS DURING THE COVID-19
PANDEMIC



The Focus



Background

Overview

The COVID-19 response

Policy enforcement

Research Question

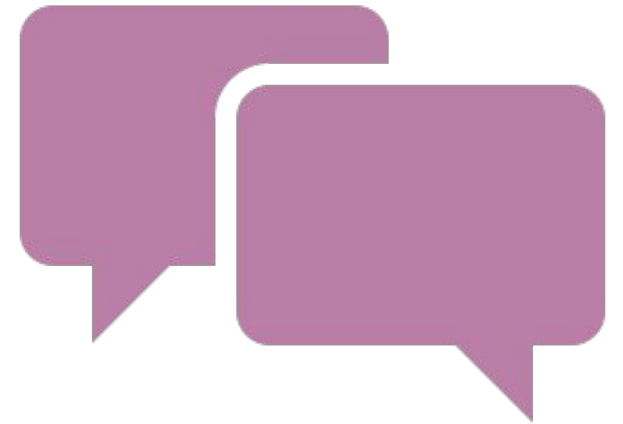
How do state COVID policies influence social media sentiment?

Hypothesis

States with stricter policies will have lower sentiment than states with looser policies

What is Sentiment Analysis

1. Objective
2. Result



Data Sources

Sources

Twitter

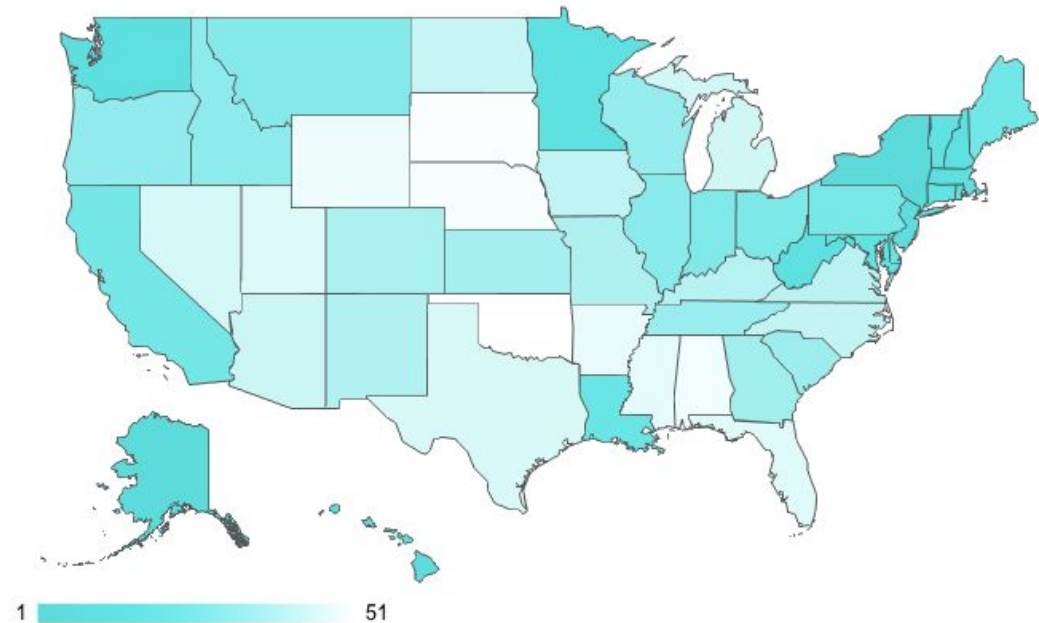
WalletHub

Institute for Health
Metrics and Evaluation

States by COVID-19 Policy

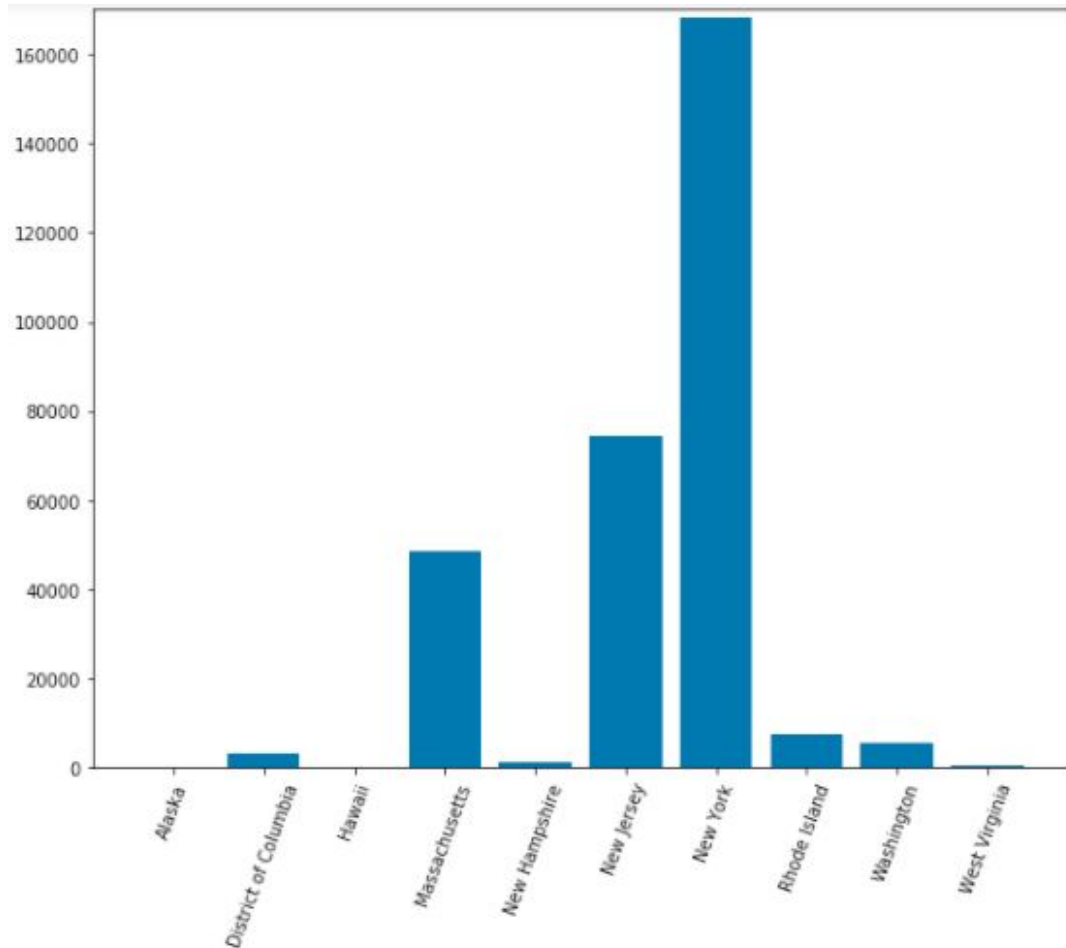
Top 10	Bottom 10
New York	Texas
District of Columbia	Utah
Alaska	Florida
Hawaii	Mississippi
New Jersey	Arkansas
Rhode Island	Wyoming
Washington	Alabama
Massachusetts	Nebraska
New Hampshire	South Dakota
South Carolina	Oklahoma

States with Most to Least Restrictive Policies

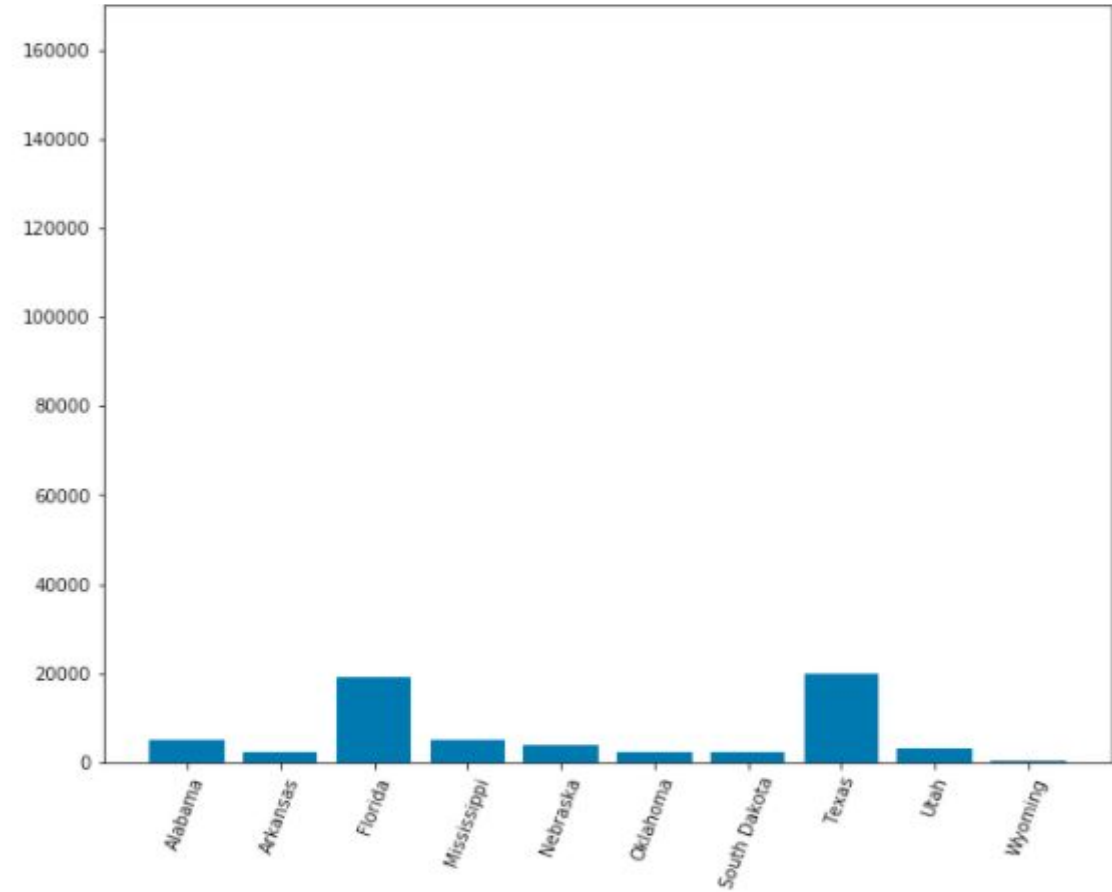


COVID-19 Infection by State in April

Top 10 - Most Strict States



Bottom 10 - Least Strict States



States by Strictness of Policy

Top 10			Bottom 10		
State	City	Population	State	City	Population
New York	New York City	8,336,817	Texas	Houston	2,320,268
District of Columbia	District of Columbia	705,749	Utah	Salt Lake City	200,567
Alaska	Anchorage	288,000	Florida	Jacksonville	911,507
Hawaii	Honolulu	345,064	Mississippi	Jackson	160,628
New Jersey	Newark	282,011	Arkansas	Little Rock	197,312
Rhode Island	Providence	179,883	Wyoming	Cheyenne	63,597
Washington	Seattle	753,675	Alabama	Birmingham	209,403
Massachusetts	Boston	692,600	Nebraska	Omaha	478,192
New Hampshire	Manchester	112,673	South Dakota	Sioux Falls	183,793
South Carolina	Charleston	47,215	Oklahoma	Oklahoma City	655,057

Data Stats

Timeline - APRIL 8 - April 30

2020

2019

COVID

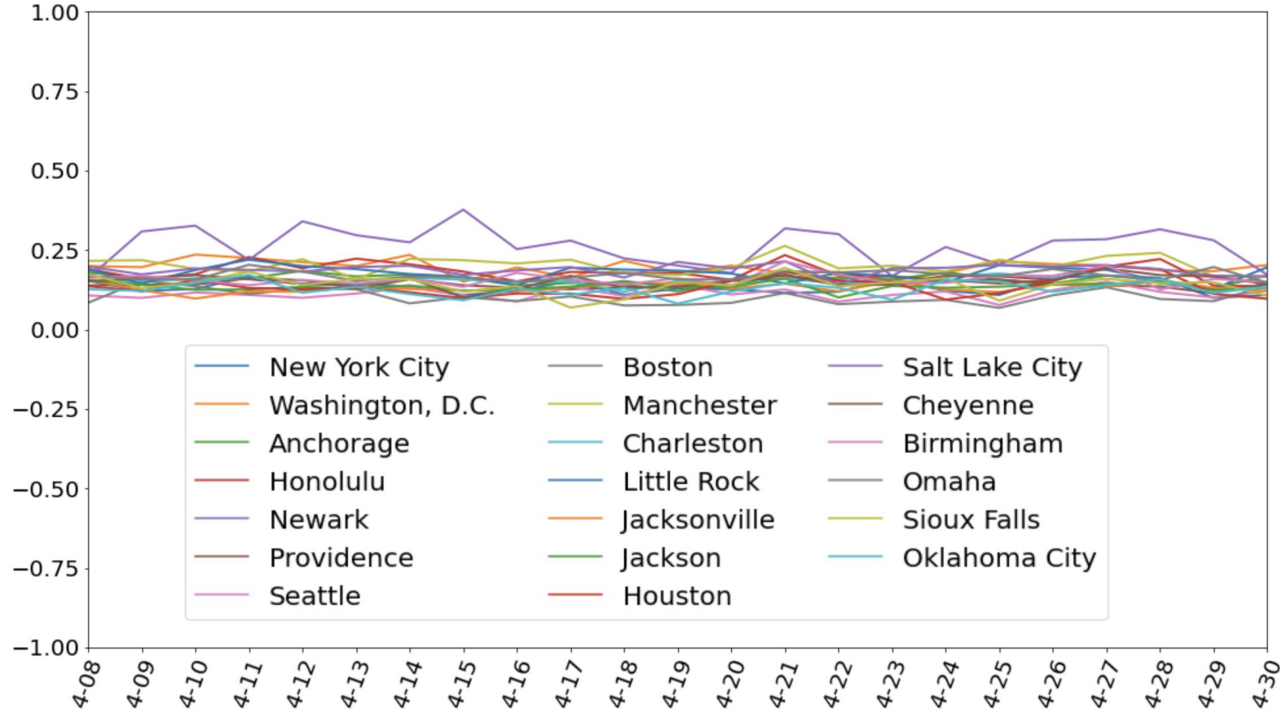
700k + Tweets

Findings

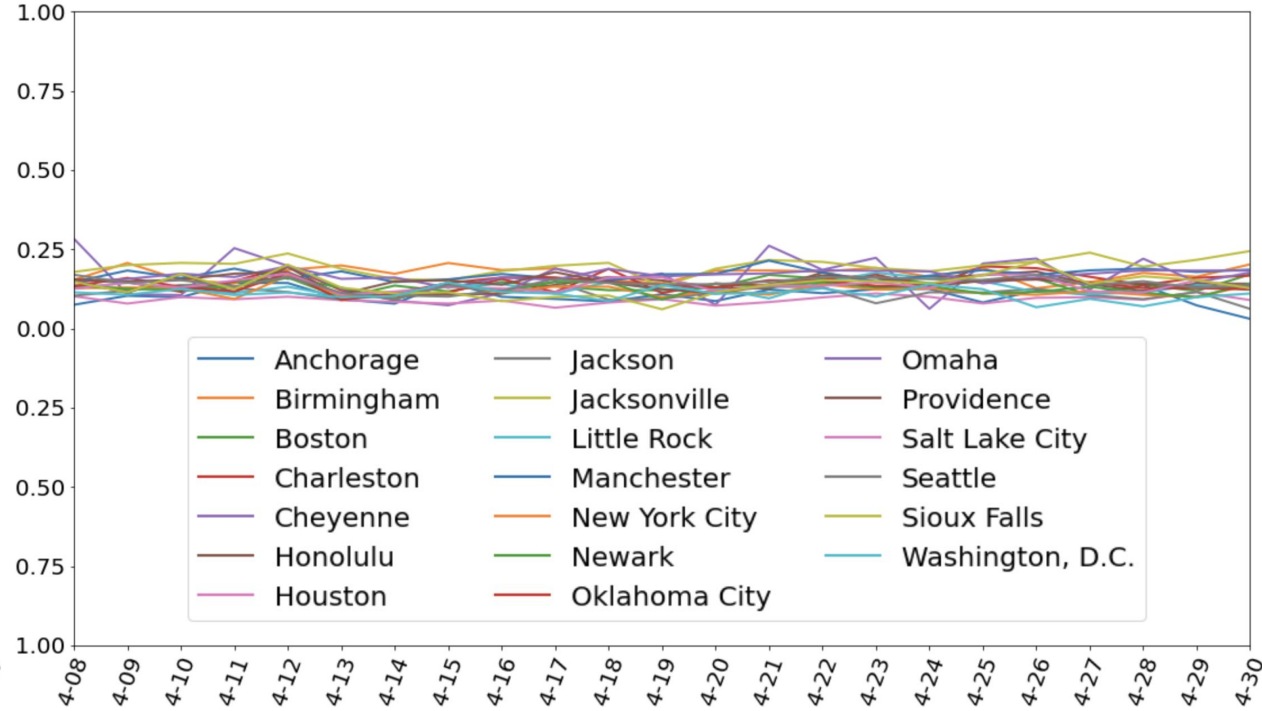
How do the tweets change in relation to the local policies on social distancing?

All Cities – Polarity in April

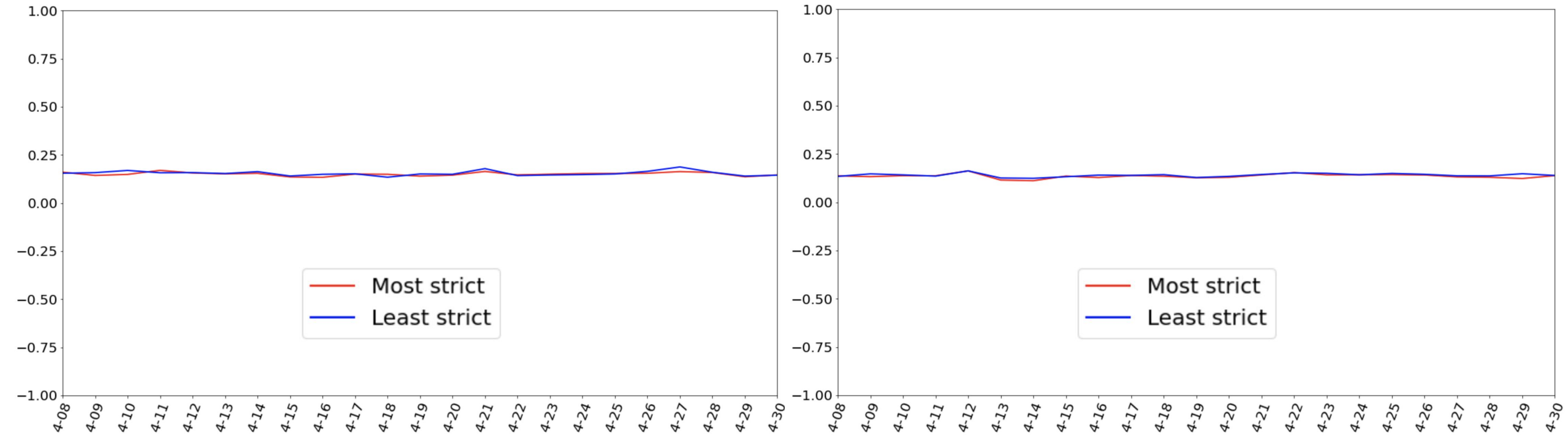
2019



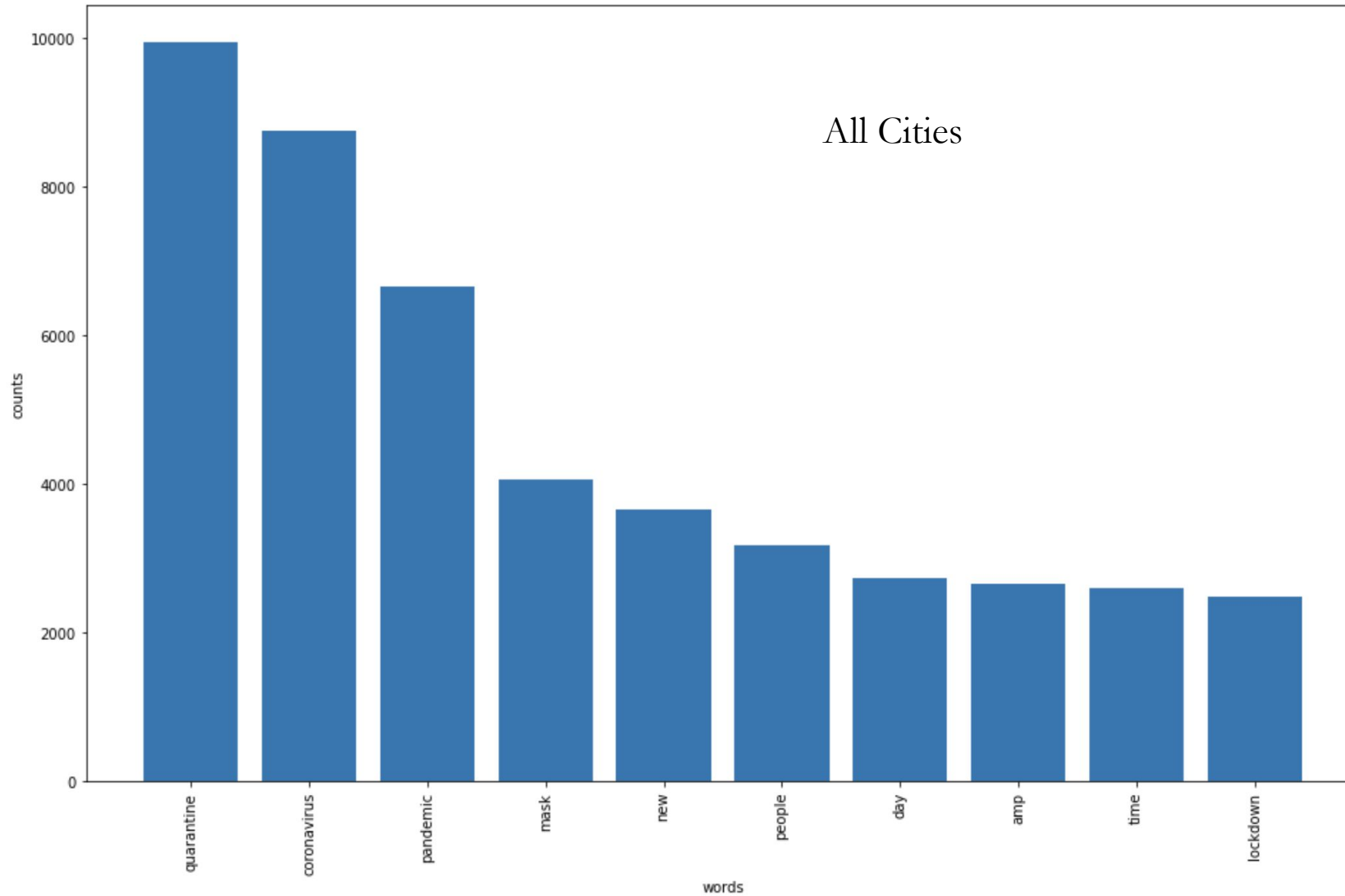
2020



April 2019 and 2020 Tweet Sentiment



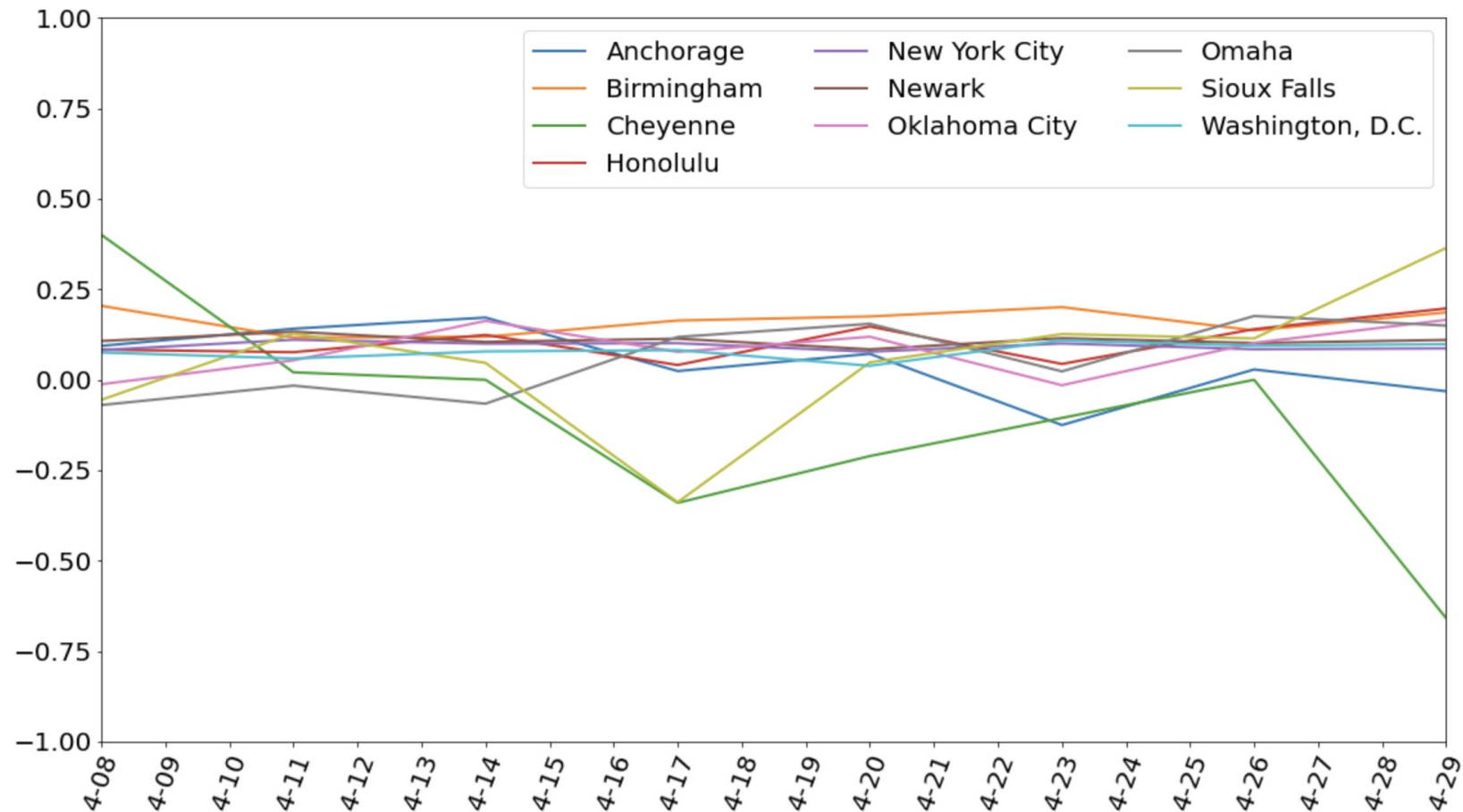
All Cities



Top 10 Most Common Words Related to COVID-19

1. Quarantine
2. Coronavirus
3. Pandemic
4. Mask
5. New
6. People
7. Day
8. Amp
9. Time
10. Lockdown

April 2020 COVID Tweet Sentiment



Conclusion

Hypothesis

States with stricter policies will have lower sentiment than states with looser policies

Conclusion

1

Despite the number of cities investigated, sentiment didn't vary much

2

Despite the differences in policy “strictness”, sentiment didn't vary much

3

Despite the differences in COVID impact, sentiment didn't vary much

Hypothesis



Next Steps



Questions
