

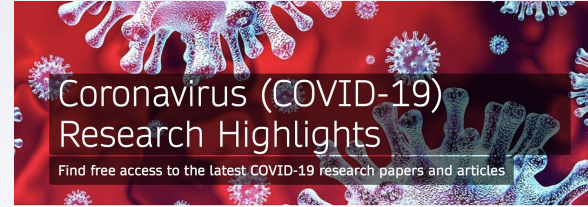
Visualizing News during the COVID-19 Pandemic

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Inspiration for project

- ▶ The current situation in the world
- ▶ Large amount of articles covering the spread of COVID-19
- ▶ News outlets with different political biases



Springer Nature is committed to supporting the global response to COVID-19 enabling fast access to research, evidence, and data.

UPDATED TUE, OCT 27 2020 - 8:56 AM EDT

SHARE f t i n

The need for continued research, evidence, and data. See more from our experts. So far we have:

Coronavirus updates: U.S. cases hit daily record, WHO says controlling Covid may require 'sacrifice'

CNBC.com staff

The coverage on this live blog has ended — for up-to-the-minute coverage on the [coronavirus outbreak](#) visit [CNBC's latest live blog](#).

The U.S. on Sunday set a new daily record of 68,767 cases on a seven-day average, according to a CNBC analysis of data from Johns Hopkins University. White House chief of staff [Mark Meadows](#) on Sunday

Preventing COVID-19 Spread at Work

We can't forget the basics of preventing COVID-19 spread as we reopen workplaces. EJC HealthCare in St. Louis provides a great example of how to do it right.



Partner

Ryan Muther

Northeastern University PhD student
under Professor David Smith

Specializes in Natural Language
Processing



Contributions

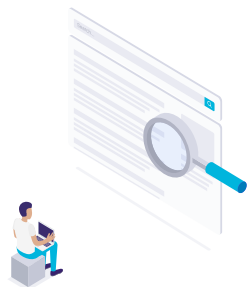
- ▶ Help educate the general public about new outlet biases
- ▶ Explore most used keywords during different time periods of the pandemic



Task Analysis

Locate

During the COVID-19 pandemic, what were the most frequently occurring words in news articles?



Explore

How can one group news sources by bias based on the common keywords they use?



Lookup

How often has a specific word been used in articles over time?



Project Path

Sources of data

COVID-19 news dataset on Kaggle

Media Bias Fact Check & AllSides
Media Bias Ratings for political
bias data



Data cleaning

Python and Node libraries for
determining what words were
used most often and when



Visualizations

D3.js to create linked interactive visualizations

Visualization Design

- ▶ **Bubble chart** - to present most used keywords
- ▶ **Line chart** - to determine trends about word usage
- ▶ **Table** - to provide additional numbers and information about news outlet bias



Demo Version



THANKS!

Any questions?

