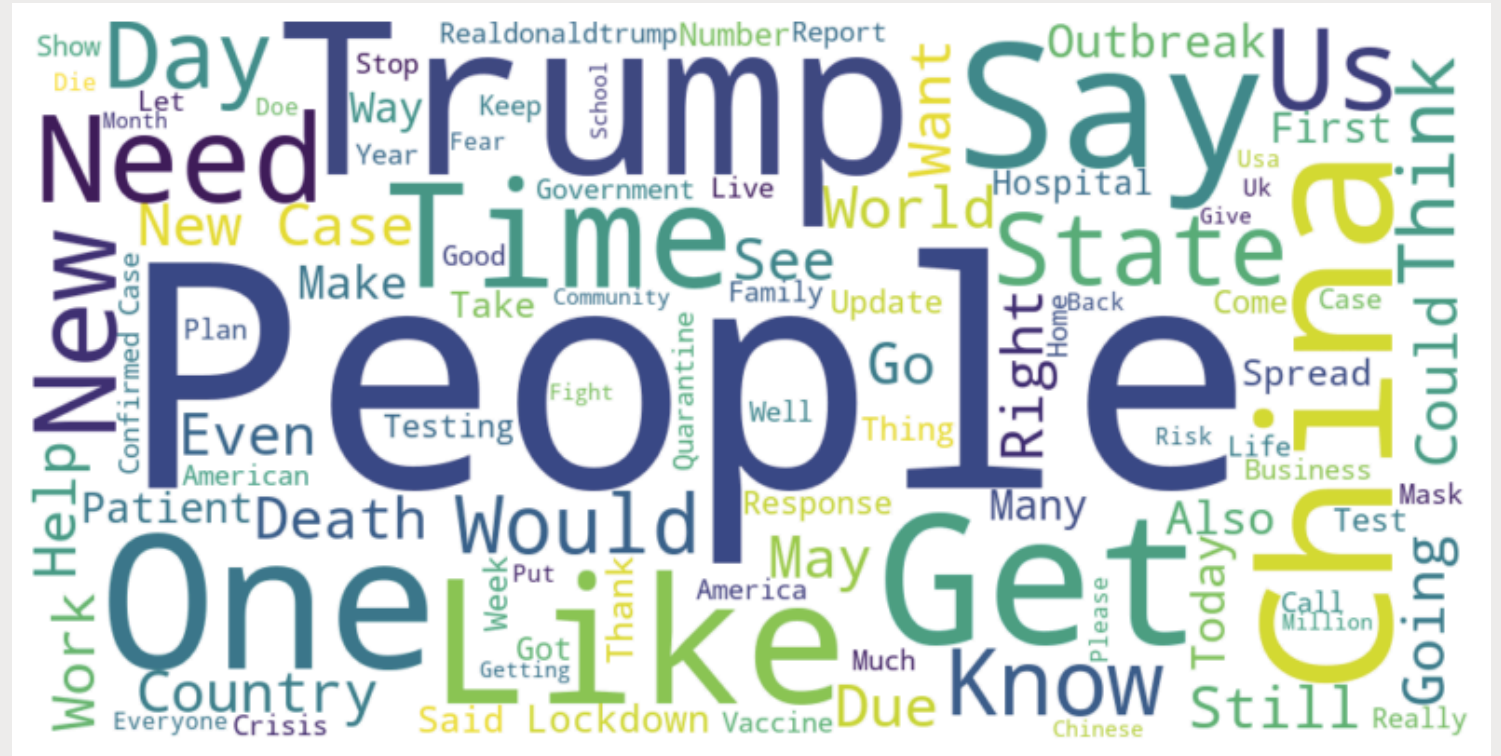


What we talk about when we talk about COVID-19?

Information

- Data:
<https://twitter.com/?lang=en> (16 mb)
<https://ourworldindata.org/covid-cases> (6.5 mb)
- NLP package: nltk, vaderSentiment, spaCy
- Machine learning model:
 - K-means clustering
 - Classification model, e.g., random forest



Word cloud of keywords related to COVID-19 on twitter.com from Feb. to Jul. 2020.

Wandi Yu
Texas A&M University

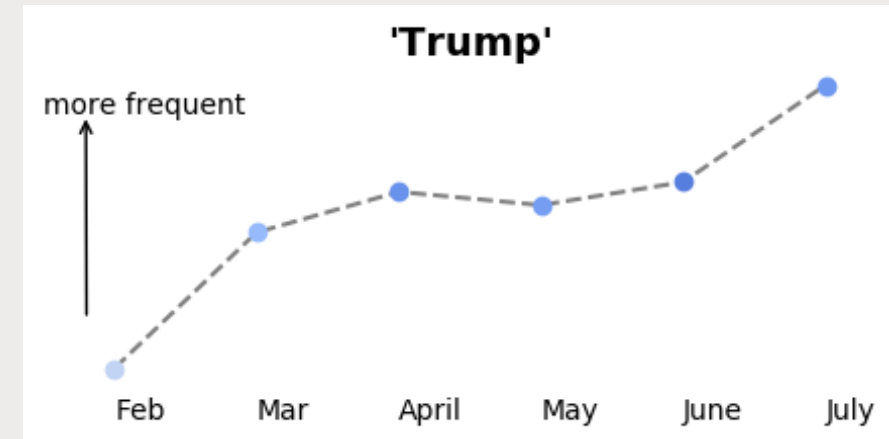
How does people's sentiment change?



Top 10 frequent keywords each month
from Feb to Jul.

Font size: frequency

Font color: sentiment *of each month*



Frequency (height) and sentiment (color)
for tweets containing keywords



Takeaways:

- By scraping and tokenize tweets related to COVID-19, I find several keywords that people frequently mention, e.g., people, trump, etc.*
- People are increasingly pessimistic while mentioning COVID-19 from February to July.*

Future work:

- Use K-means clustering model to cluster tweets into different topics, compare the result with keywords.*
- Build up a classification model application to predict whether each keyword/topic will be hotter given the trend of positive cases.*

More information:

Heroku app: <https://covid19-twitter-study.herokuapp.com/>

GitHub: <https://github.com/wandiyu/covid19-twitter/>

Personal website: wandiyu.github.io



Thank you!