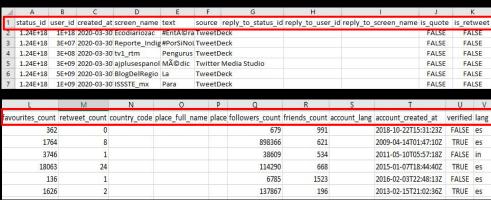


# Covid-19 Sentiment Analysis Based on Tweets

Team 8: Ankit Agarwal, Isabella Gomez, Kijun Kim, Nan Zhu

## Methodology and Dataset

- Dataset
- Tweets including #COVID-19
- Tweets between 2020/3/29 ~
   2020/4/15
- Methodology
- Data cleaning
- Most common words
- Tweet sentiment categorization
- Sentiment distribution
- Sentiment frequency over time

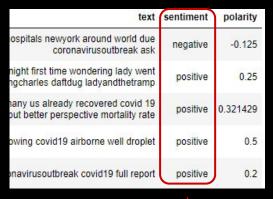


<Raw data>

1	A	В	С	D	E
1	created_at	text	favourites_count	retweet_count	lang
2	2020-03-30T00:00:00Z	#Entérate G	362	0	es
3	2020-03-30T00:00:00Z	#PorSiNoLoVi	1764	8	es
4	2020-03-30T00:00:00Z	Pengurusan	3746	1	in
5	2020-03-30T00:00:00Z	Médico	18063	24	es
6	2020-03-30T00:00:00Z	La @NISalud	136	1	es
7	2020-03-30T00:00:00Z	Para convivir	1626	2	es
8	2020-03-30T00:00:00Z	3æœ^30æ-¥	100	0	ja
9	2020-03-30T00:00:00Z	¡#Infórmate	3957	105	es
10	2020-03-30T00:00:00Z	Asegura los	1827	0	es

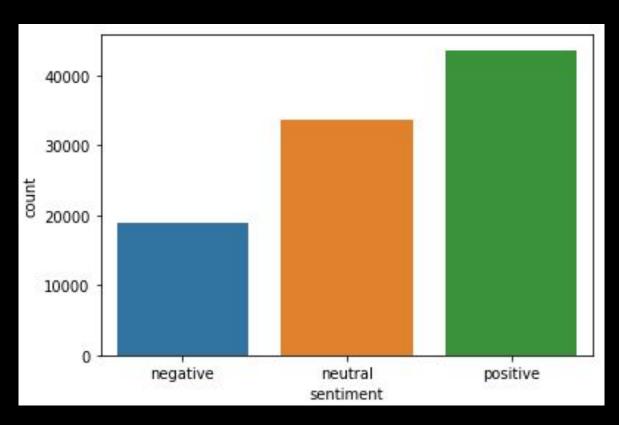
<Processed data>

### Polarity (positive, negative, neutral)



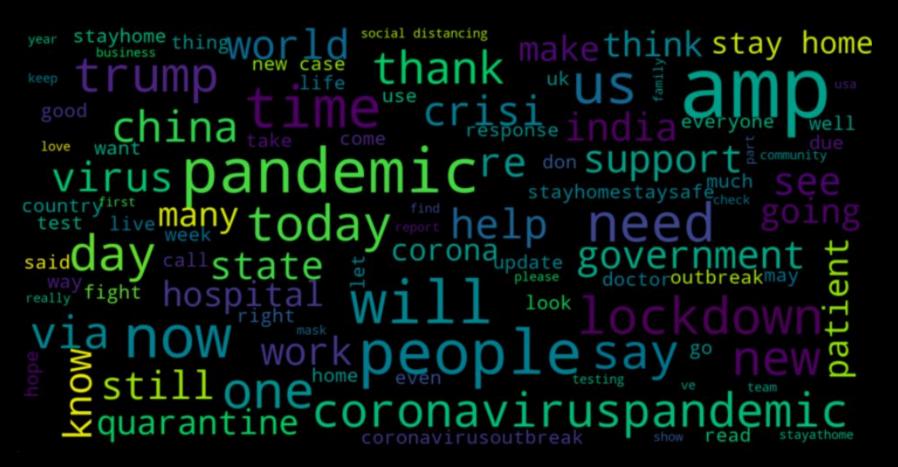
Data with polarity



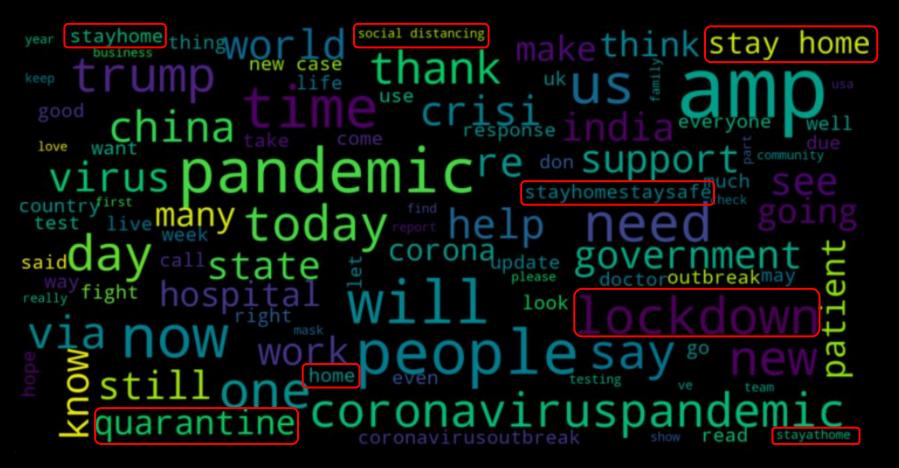


Tweet Sentiment

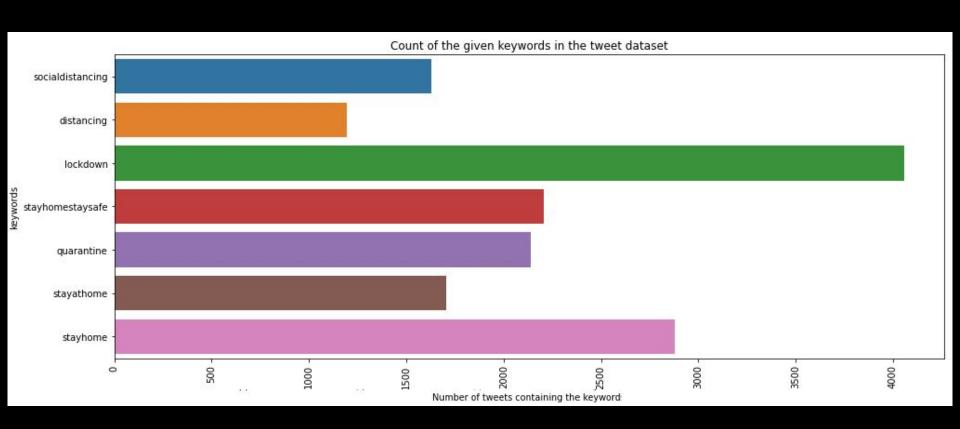
### **100 Most Common Words**



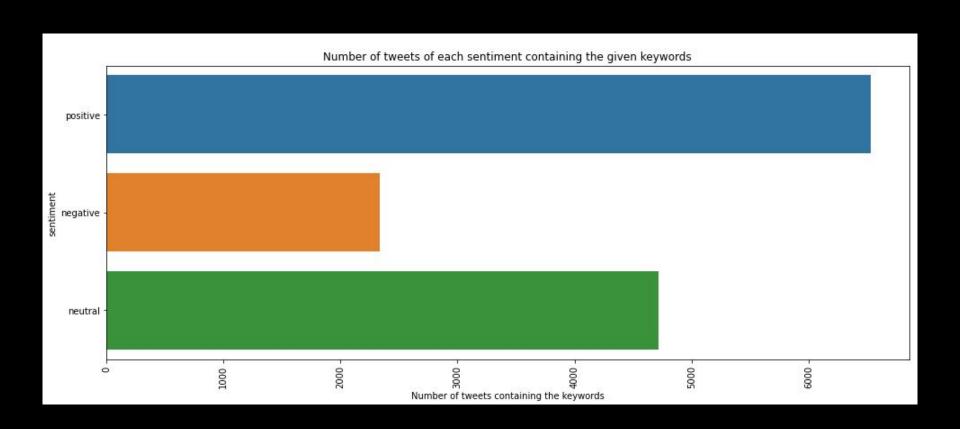
### **100 Most Common Words**



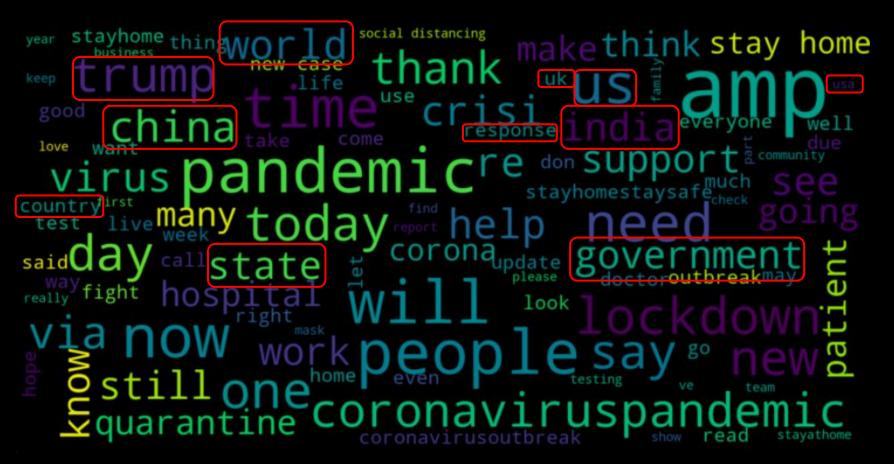
### Sentiments on Lockdown



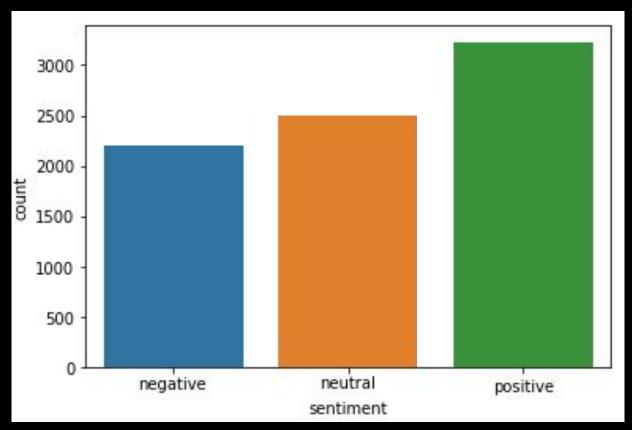
### **Sentiments on Lockdown**



### **100 Most Common Words**

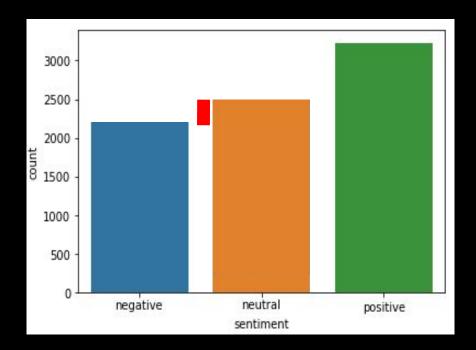


## **Government Opinion Analysis**

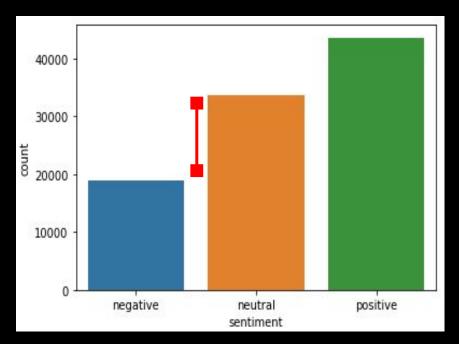


Tweet Sentiment

## Public Sentiment about Government and COVID-19



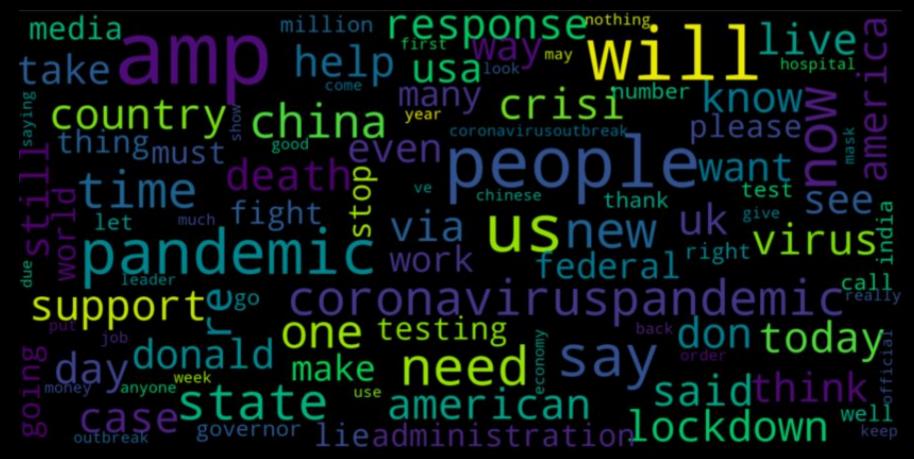
## Public Sentiment about COVID-19 in General



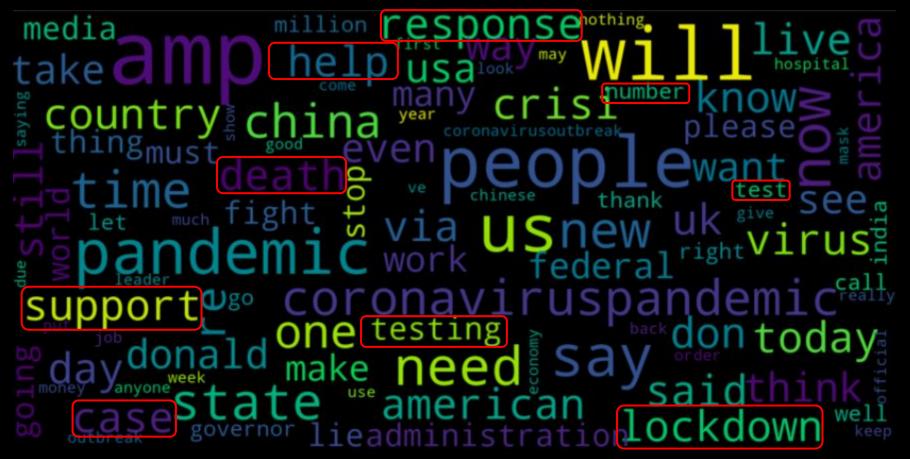
negative is 38.33%

negative is 24.33%

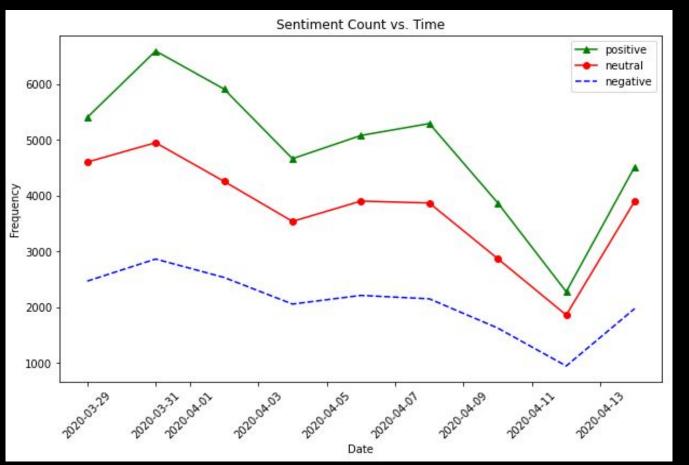
## Government Opinion Analysis



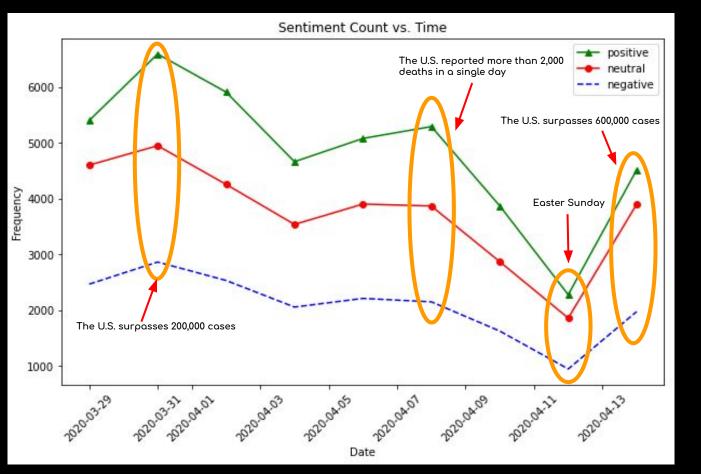
## Government Opinion Analysis



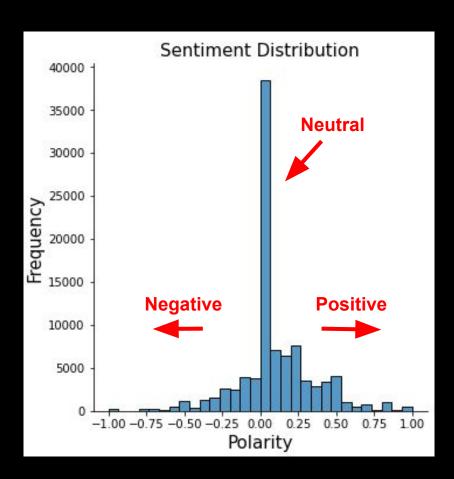
## **Sentiment Over Time**



## **Sentiment Over Time**

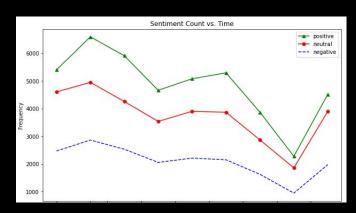


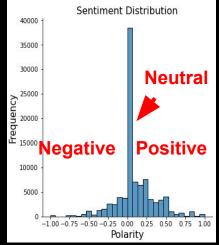
## **Sentiment Distribution**



#### Conclusion

- How do people feel during the crisis?
- How does the general public sentiment change over time?
- What is the public's opinion about the government/policy makers during this time?
  - What is the public opinion about lockdowns?





## Thank you, Questions?