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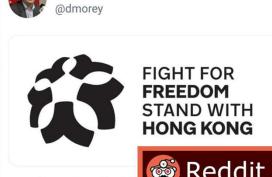
Bu Wende, Jiang Hanyu, Qi Haodi & Zhang Chengzi











7:41 PM · 04 Oct 19 · Twit







TWITTER TEXT ANALYSIS

01

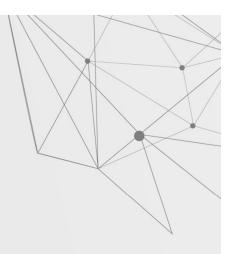
By Computational Social Scientist Haodi Qi

TWITTER NETWORK ANALYSIS

02

By Social Network Researcher Hanyu Jiang

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03

REDDIT ANALYSIS

By Reddit Analyst Chelsea Zhang

04

CONCLUSION & FUTURE DIRECTION

Vision for the Group and Concluding the panel discussion



Supreme Leader's Panel Discussion LIVE

Moderator: Wende BU

Haodi QIComputational Social
Scientist

Hanyu JIANGSocial Network Researcher

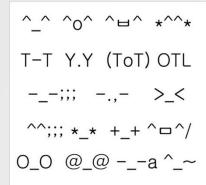
Chelsea ZHANG Reddit Analyst



How to deal with them



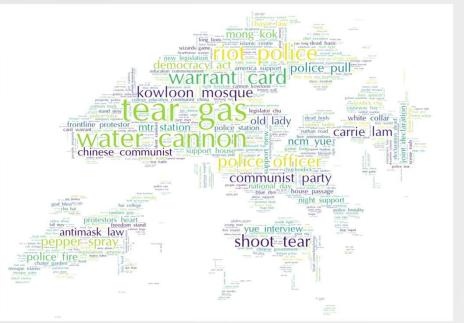




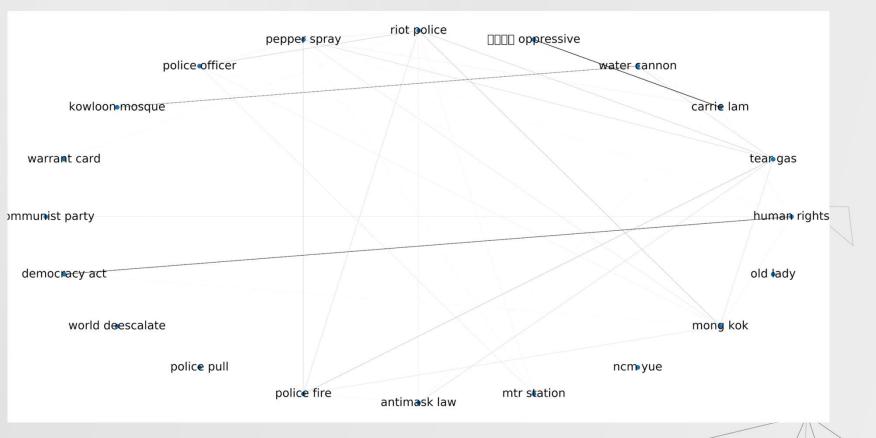


Popular Topic Extraction





Topic Association



Sentiment Analysis

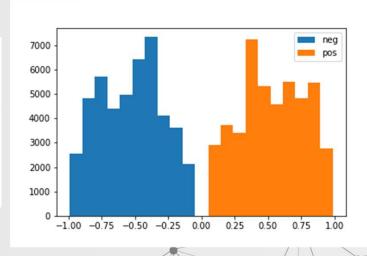
Aggregation Methods:

Mean Compound Score

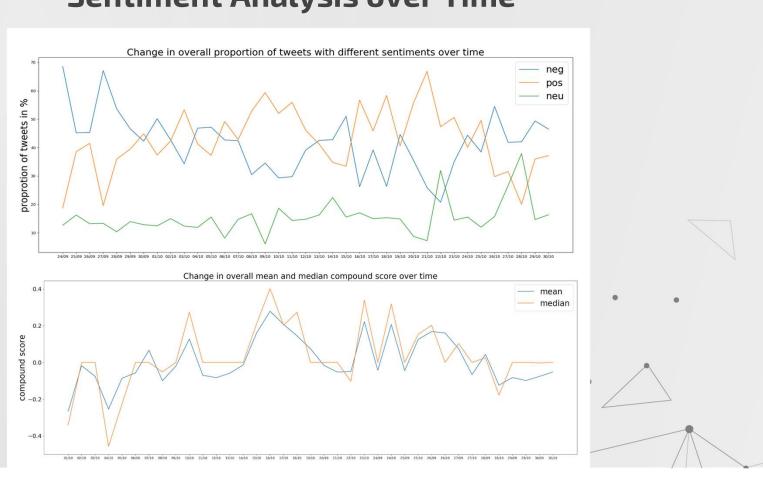
Median Compound Score

Sentiment with the Highest Proportion of tweets

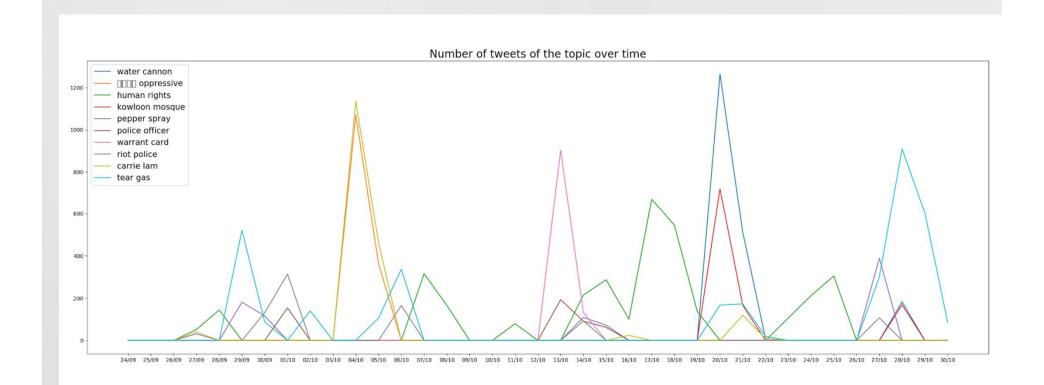
	proportion of tweets in $\%$	mean score	median score
sentiment_result			
neg	42.465728	0.000006	0.0
neu	15.425762	0.000006	0.0
pos	42.108510	0.000006	0.0



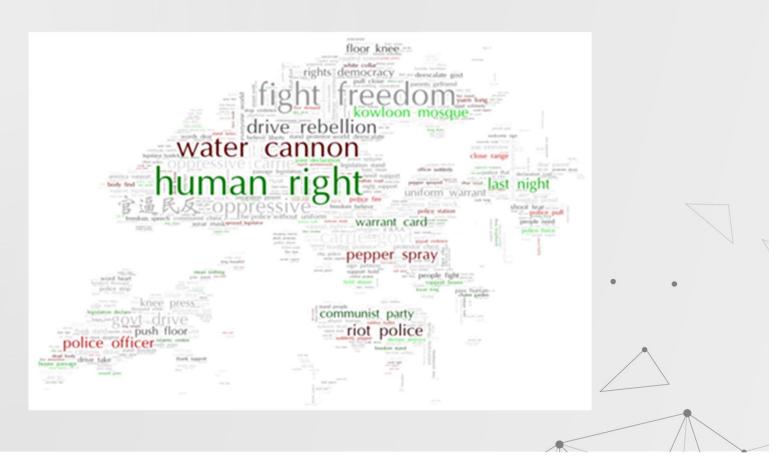
Sentiment Analysis over Time

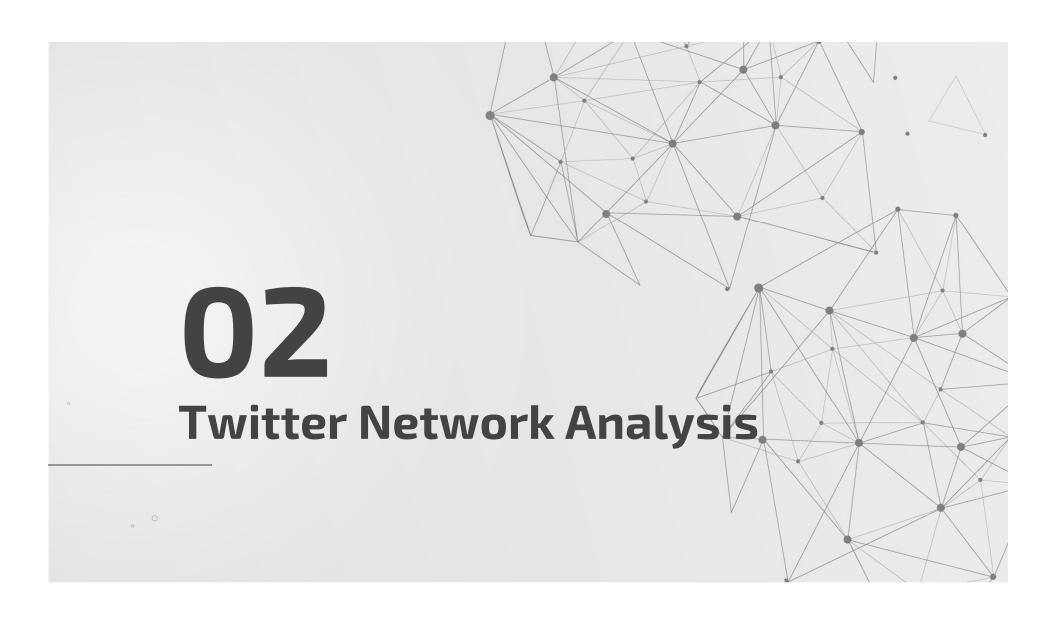


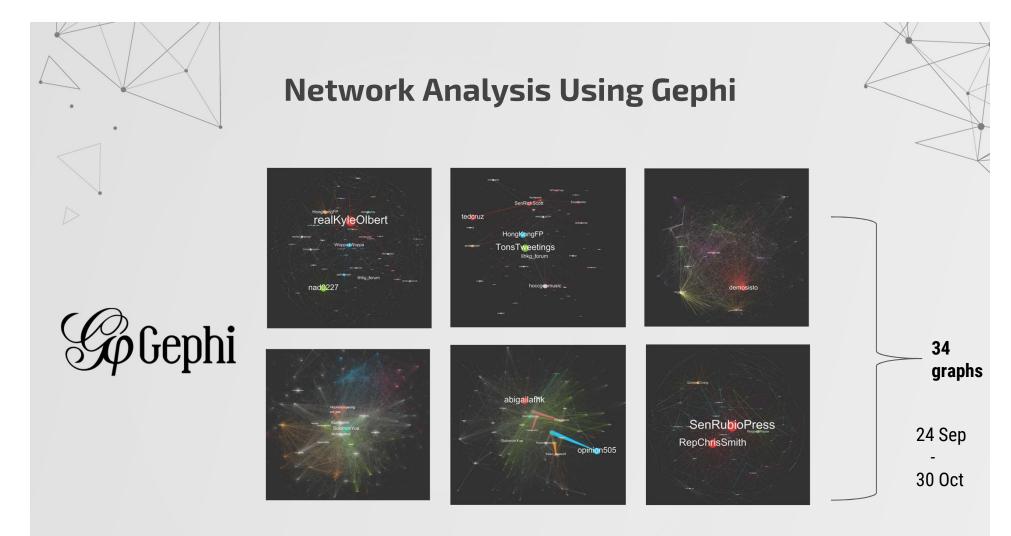
Sentiment Analysis of Topics over Time



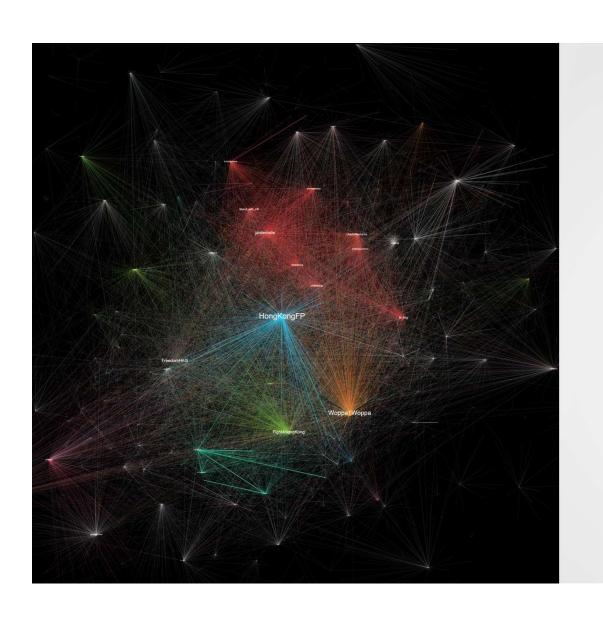
Sentiment Analysis with Word Cloud







Find more graphs at: https://thesupremepresses.wordpress.com/

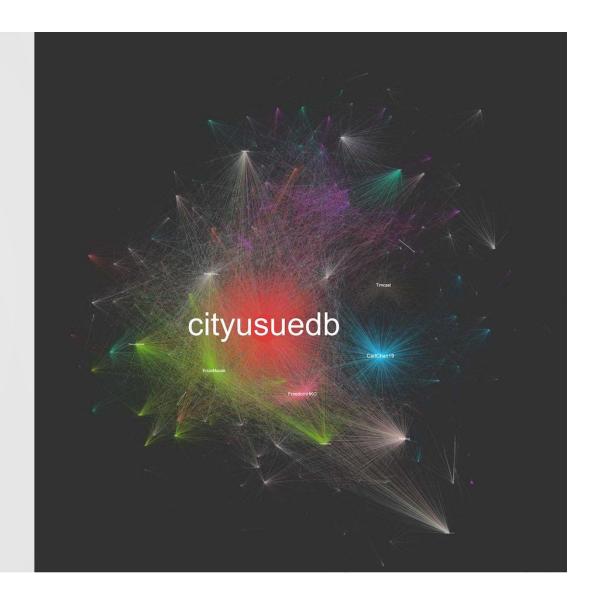


30 Sep 2019

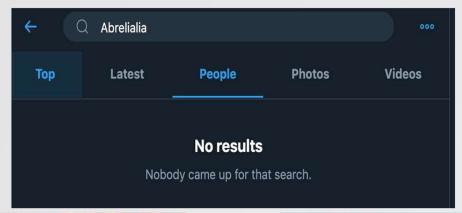
One day prior to Chinese National Day

1 Oct 2019

PRC National Day



Twitter Influencers







Network Analysis Using Python

Networkx to calculate the centralities

Pandas to process 360 thousand row of data

	User name	degree centrality	betweenness centrality	closeness centrality
221158	cityusuedb	0.845648	0.691779	0.467904
139168	SolomonYue	0.805688	0.581093	0.427188
196294	abigailafhk	0.510045	0.561232	0.342164
43262	Catherinecat826	0.657658	0.494205	0.333695
47669	lihkg_forum	0.662256	0.474655	0.416609
1 da	ta.sort_valu	es(by=[' <mark>deg</mark> r	ee centrality'],	ascending =False)
	User name	e degree central	ity betweenness centr	ality closeness centralit
221158	cityusuedl	0.8456	48 0.691	0.46790
139168	SolomonYu	e 0.8056	88 0.581	0.42718
196287	alexangel857	7 0.7278	03 0.469	0.29081
			10 0.464	
216338	Catherinecat82	0.6693	12 0.464	1046 0.41934
216338 47669	Catherinecat820			
47669	lihkg_forun	n 0.6622	56 0.474	
47669	lihkg_forun	n 0.6622 es(by=['close	56 0.474	0.41660],ascending =False
47669	lihkg_forun ta.sort_value	n 0.6622 es(by=['close	eness centrality' betweenness centrali	0.41660], ascending =False ty closeness centrality
47669 1 da 221158	lihkg_forun ta.sort_value Username	n 0.6622 es (by=['close degree centrality	eness centrality' betweenness centrality 0.69177	dess 0.41660], ascending =False ty closeness centrality 79 0.467904
	lihkg_forun ta.sort_value User name cityusuedb	on 0.6622 es (by=['close degree centrality 0.845648	eness centrality' betweenness centrali 0.69177 0.58108	1655 0.41660], ascending =False ty closeness centrality 79 0.467904 30 0.427188

0.002939

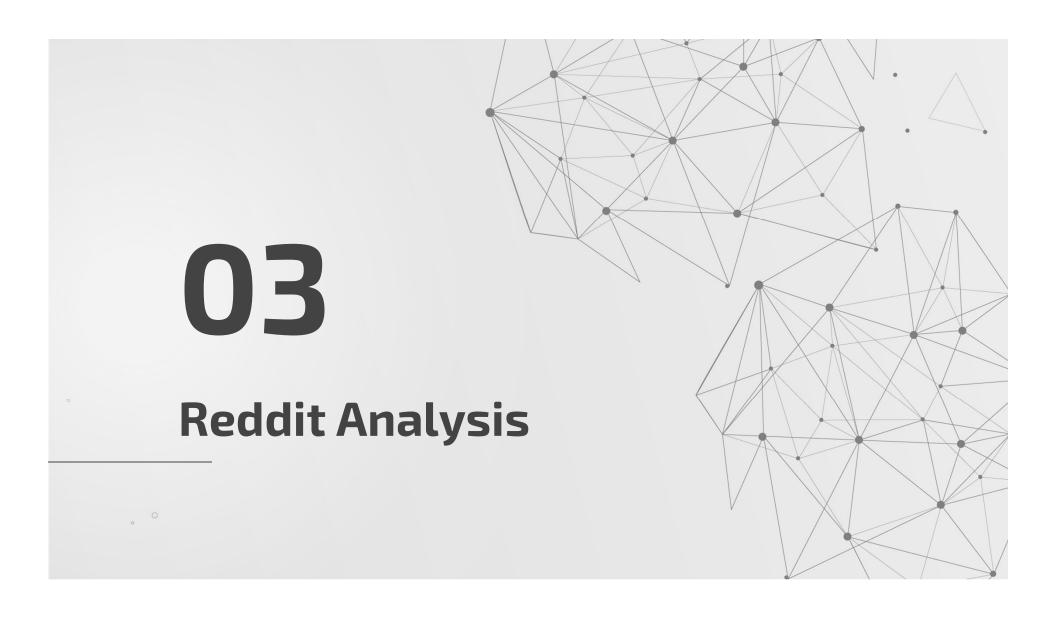
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Twitter Influencers

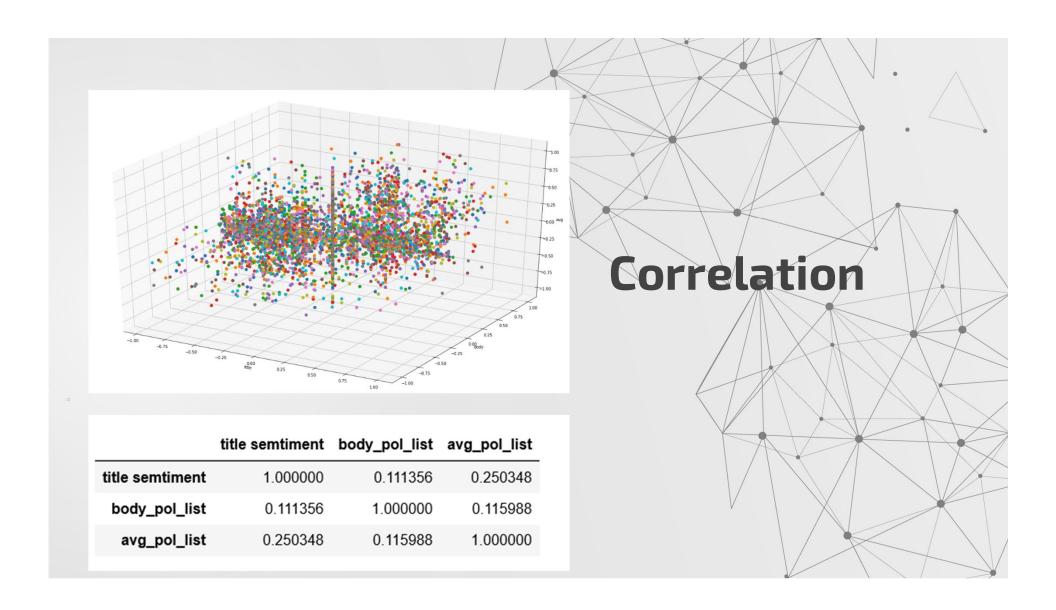




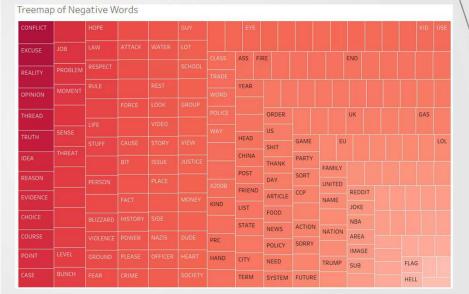




Sentiment Analysis **National Day Protest** 0.075 0.050 0.025 0.000 -0.025 -0.050 -0.075 -0.100 2019-09-25 2019-09-2019-10-01 2019-10-09 2019-10-21 2019-10-05 2019-10-13 2019-10-17



Topic Sentiment













Conclusion & Future Direction

Scalability

With larger amount of data and greater computational power

Wide Application

Systematic approach to discover insights in any social science related fields



