

Network Analysis



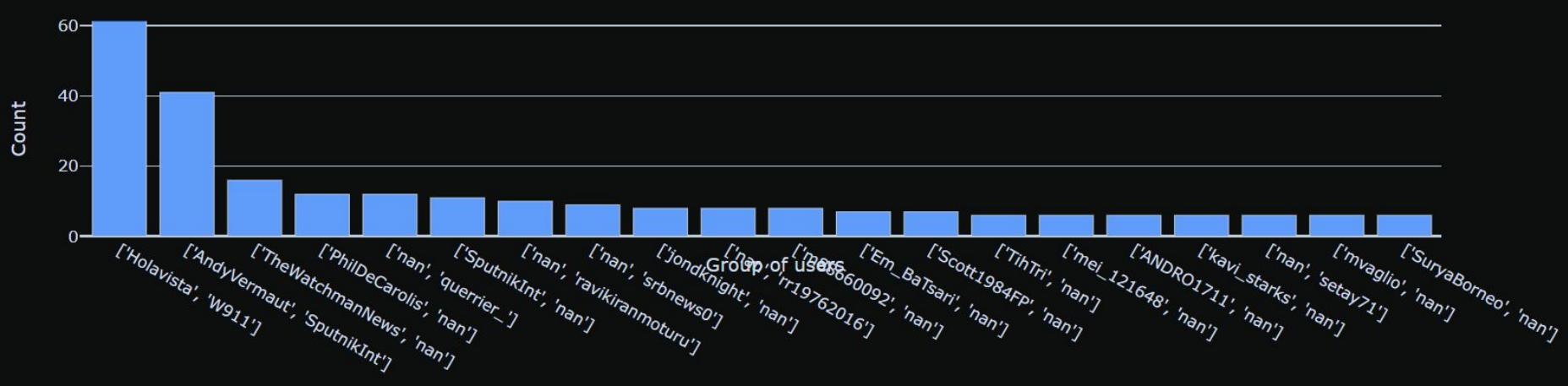
- By **Jhagrut Lalwani**
Research Engineer @ SimPPL
Incoming Analyst @Goldman Sachs
[Website](#) | [LinkedIn](#)

Outline

- Types of tweet
- Additional column meanings (mean toxicity)
- Definition of coordinated activity
- User groups
- Individual users
- Boosted urls
 - Successful campaigns - overall interactions ≥ 400 within 2 days
- Resharing old tweets repeatedly beyond 30days
- Toxicity only gives half picture
 - ‘Russia is winning’ is not toxic but possible misinformation

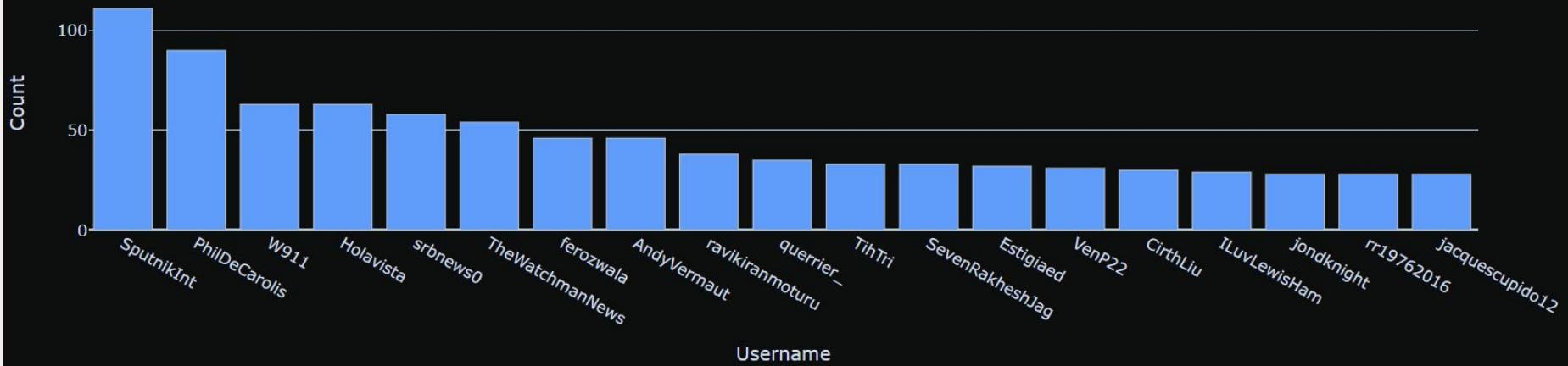
Coordinated activity

Count of coordinated sharing occurrences (within 5 secs)



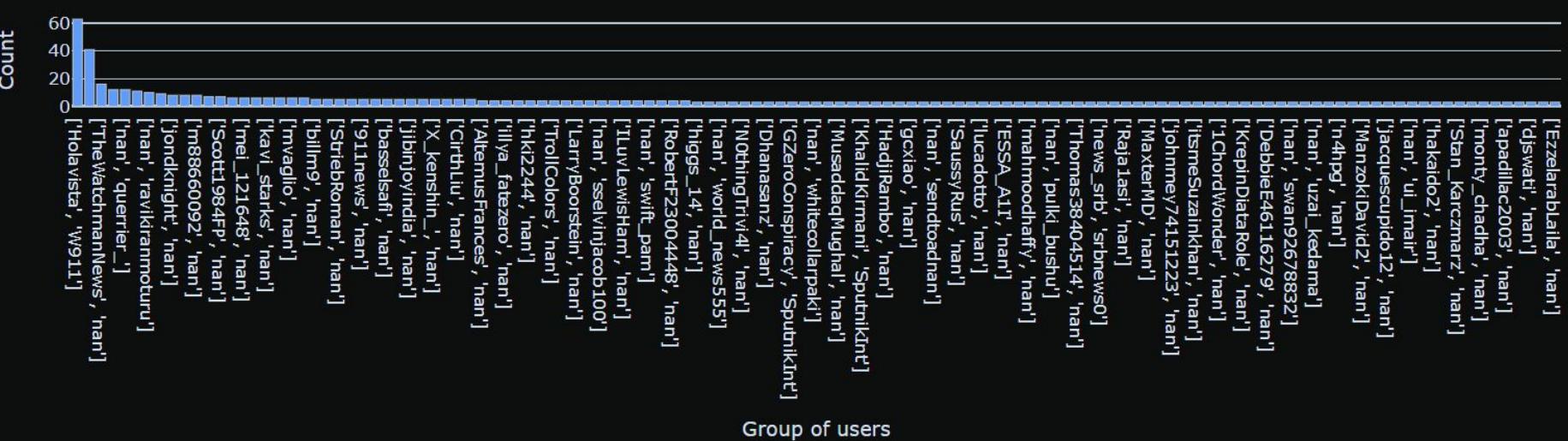
Coordinated activity

Count of coordinated sharing occurrences (within 5 secs)



Coordinated activity

Count of coordinated sharing occurrences (within 5 secs)

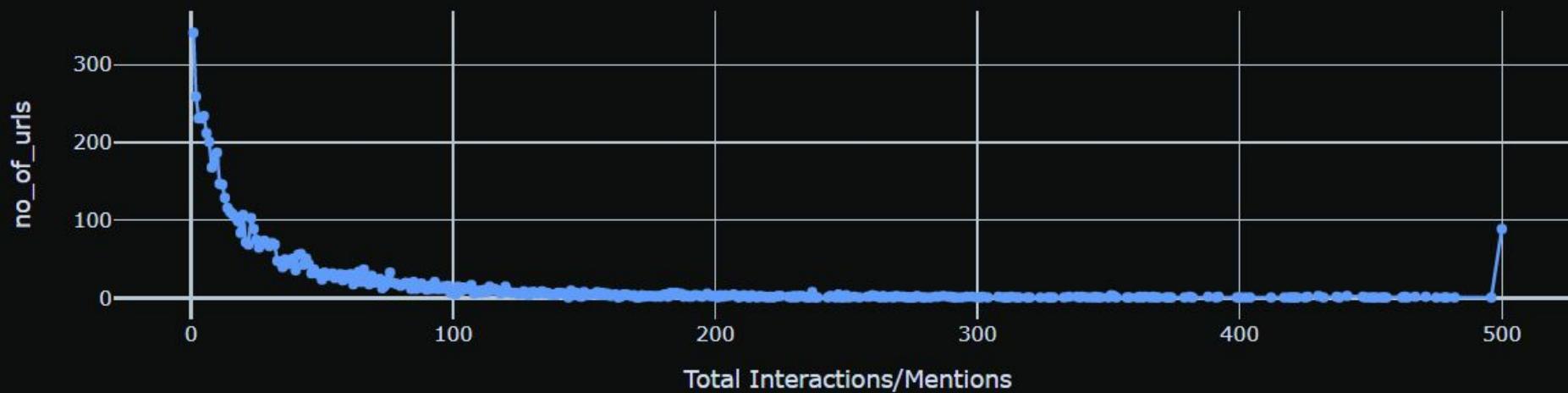


About the dataset

```
tweets_df.columns  
  
Index(['author_id', 'conversation_id', 'tweet_creation_at',  
       'edit_history_tweet_ids', 'entities_x', 'id', 'lang',  
       'possibly_sensitive', 'text', 'uuid', 'withheld_x', 'like_count',  
       'quote_count', 'reply_count', 'retweet_count', 'referenced_tweet_type',  
       'referenced_tweet_id', 'account_created_at', 'description', 'name',  
       'profile_image_url', 'username', 'location', 'entities_y', 'withheld_y',  
       'followers_count', 'following_count', 'listed_count', 'tweet_count',  
       'toxicity', 'profanity', 'identity_attack', 'insult', 'threat',  
       'severe_toxicity', 'url'],  
      dtype='object')
```

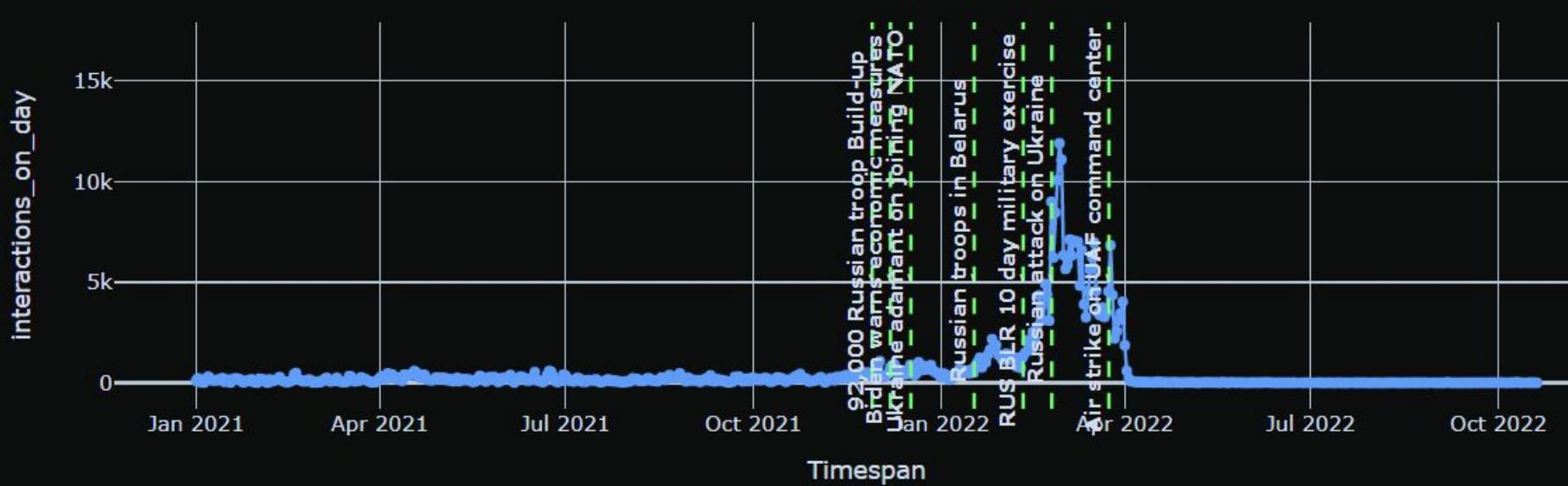
About the dataset

No of urls vs No of Mentions/Interactions in dataset

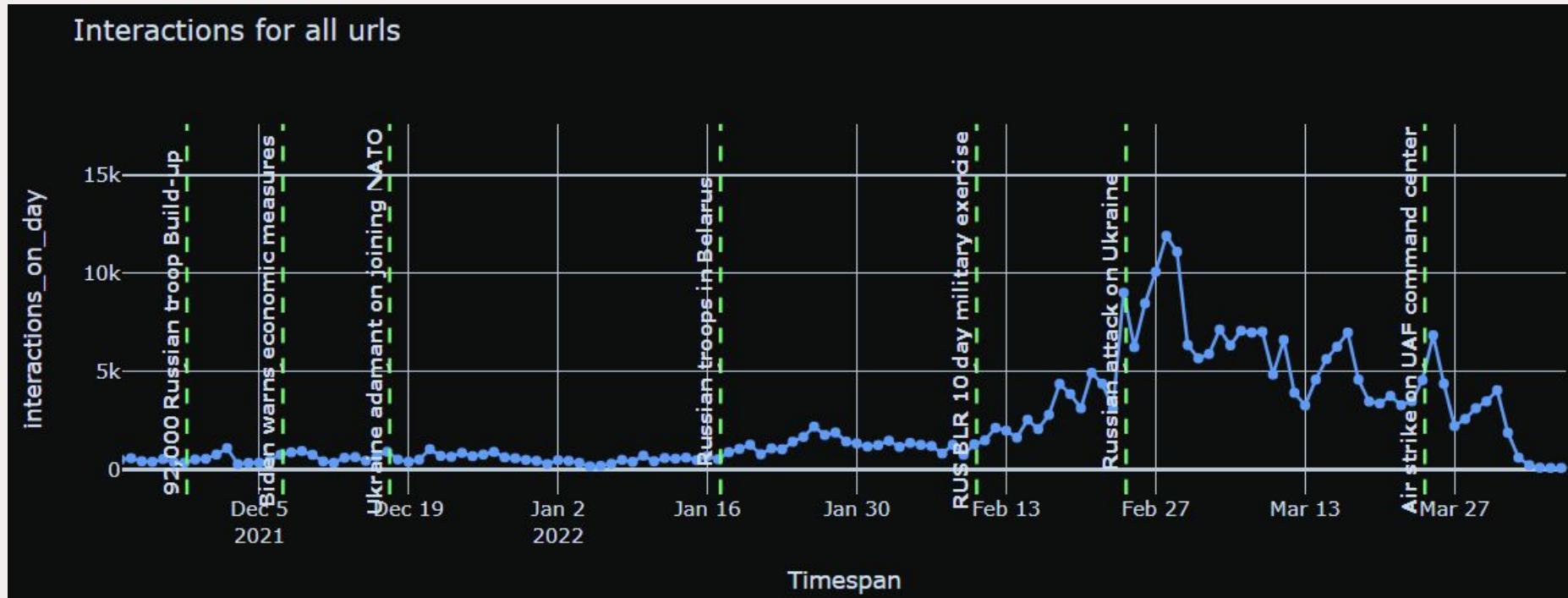


About the dataset

Interactions for all urls

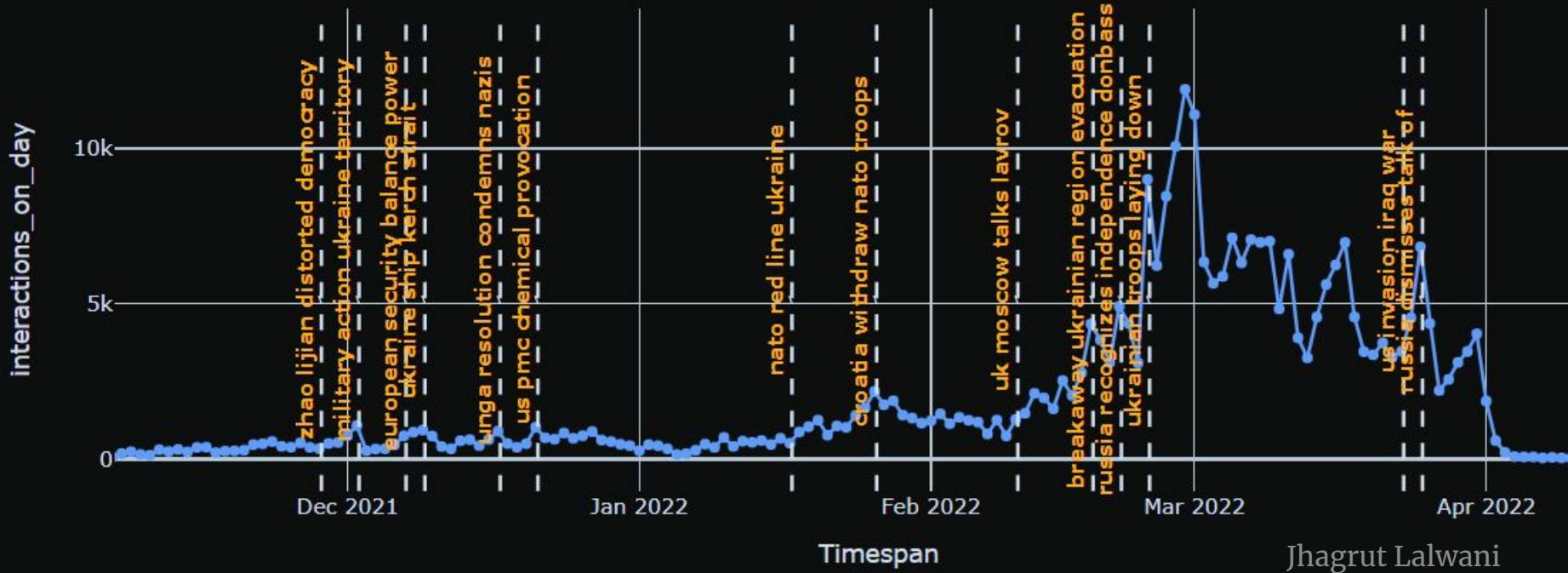


About the dataset (Russian actions on ground)



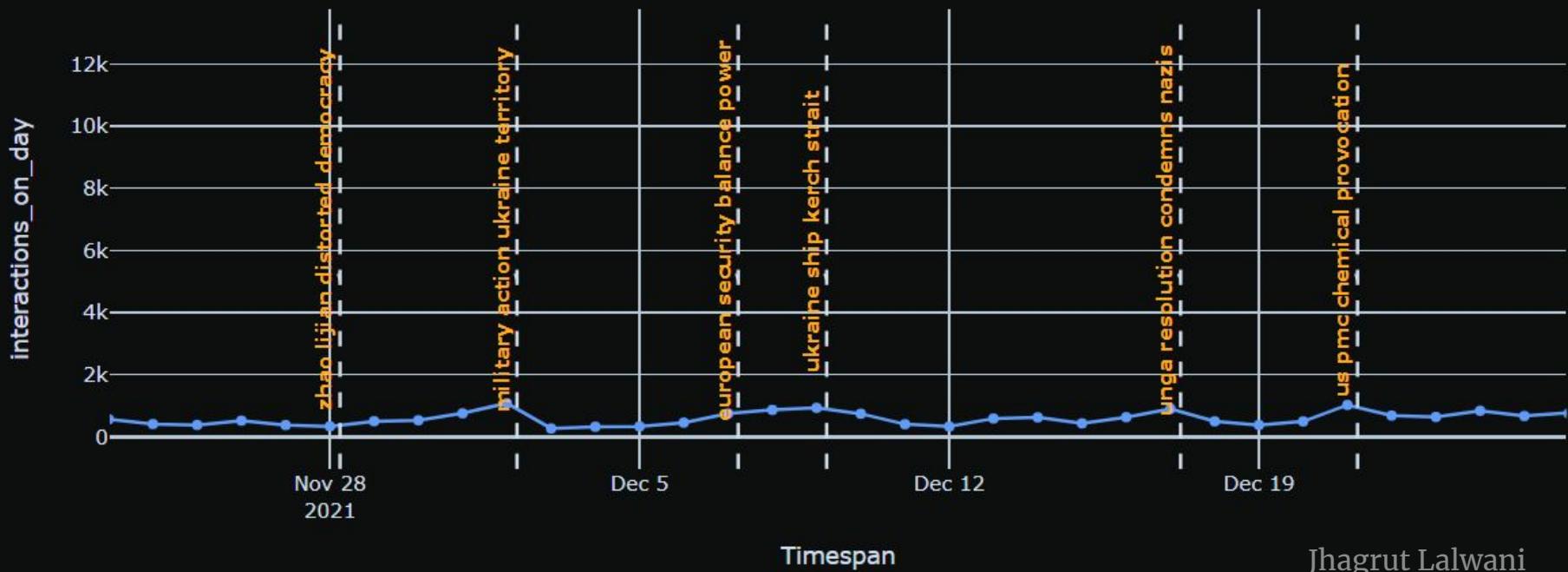
About the dataset (News spread)

Interactions for all urls



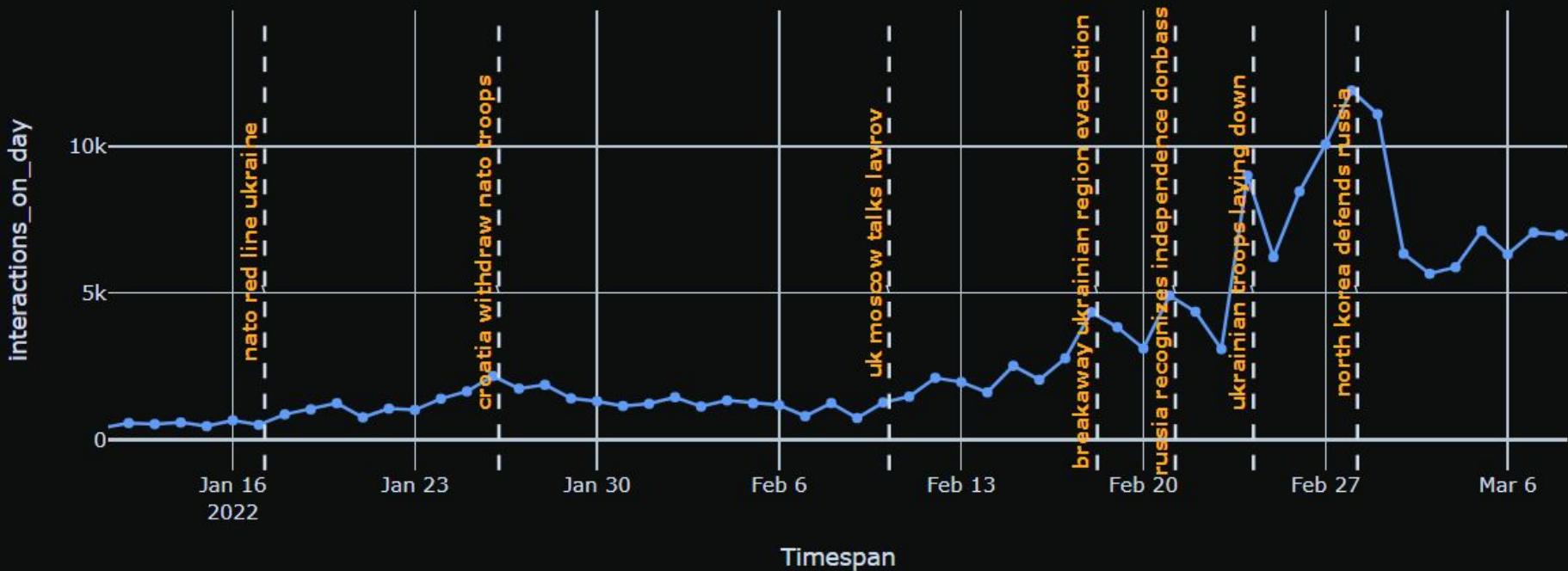
About the dataset (News spread - I)

Interactions for all urls



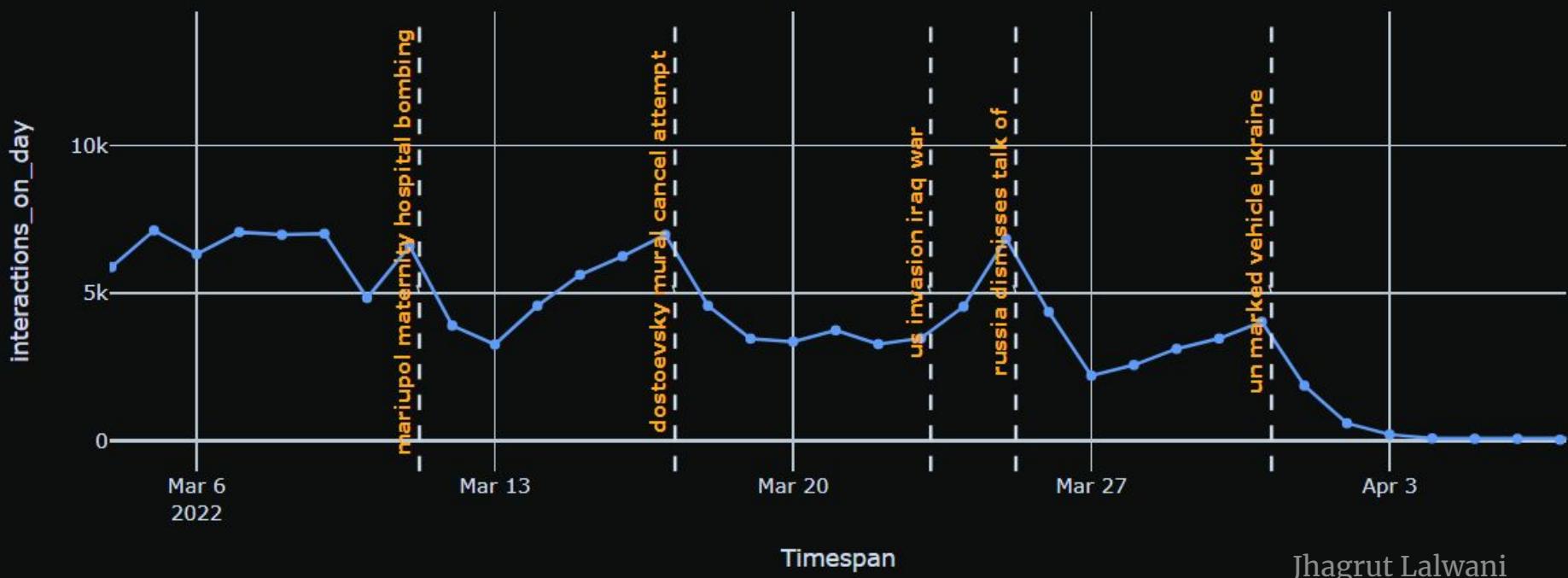
About the dataset (News spread - II)

Interactions for all urls

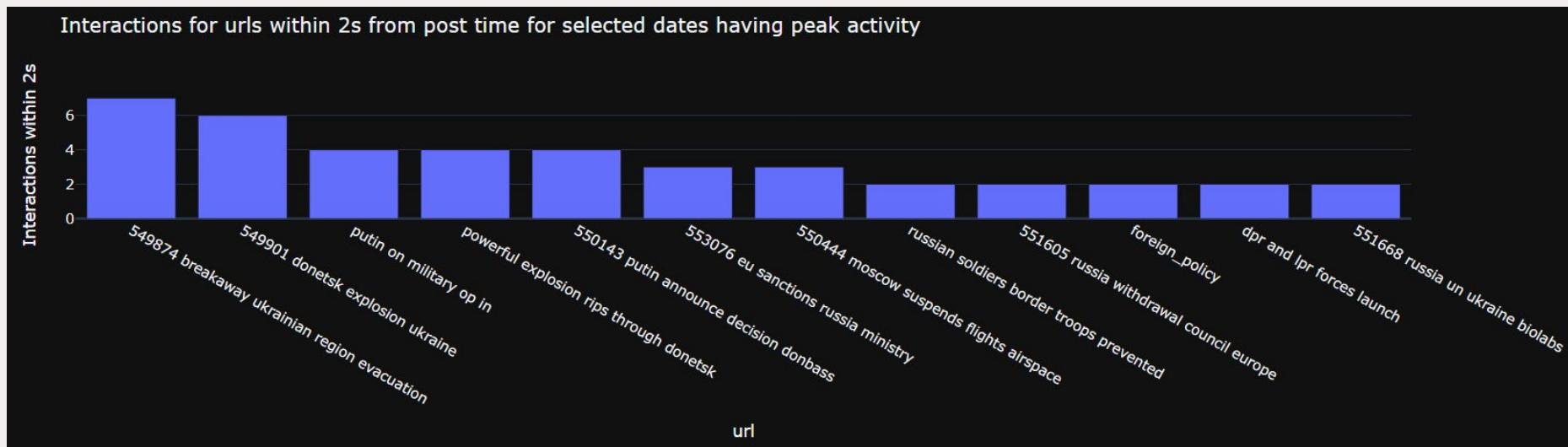


About the dataset (News spread - III)

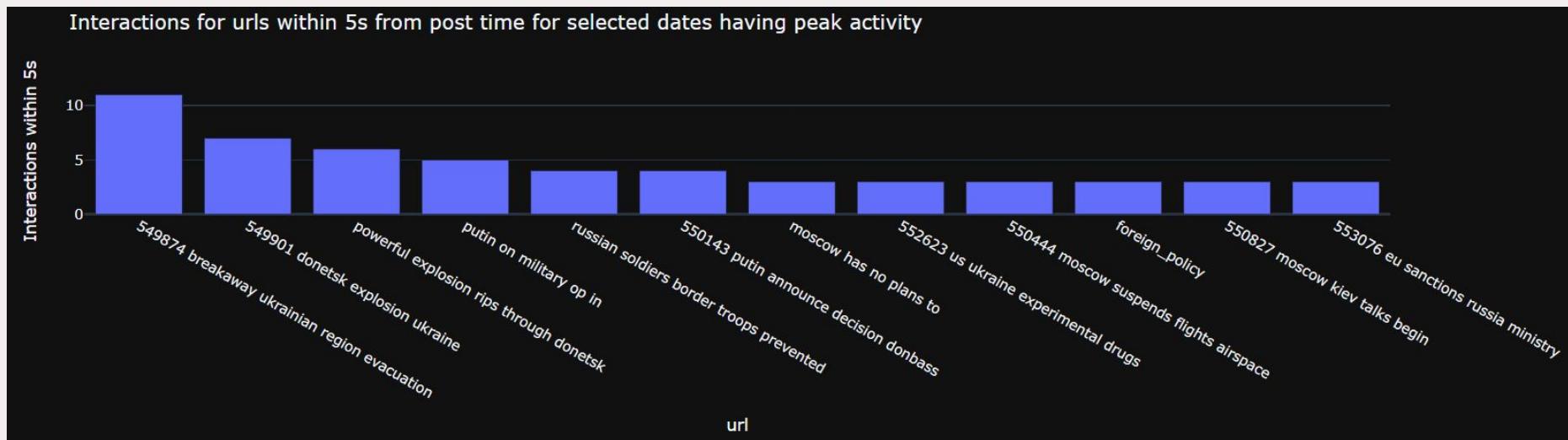
Interactions for all urls



About the dataset



About the dataset



Interactions (Time diff<=2s)

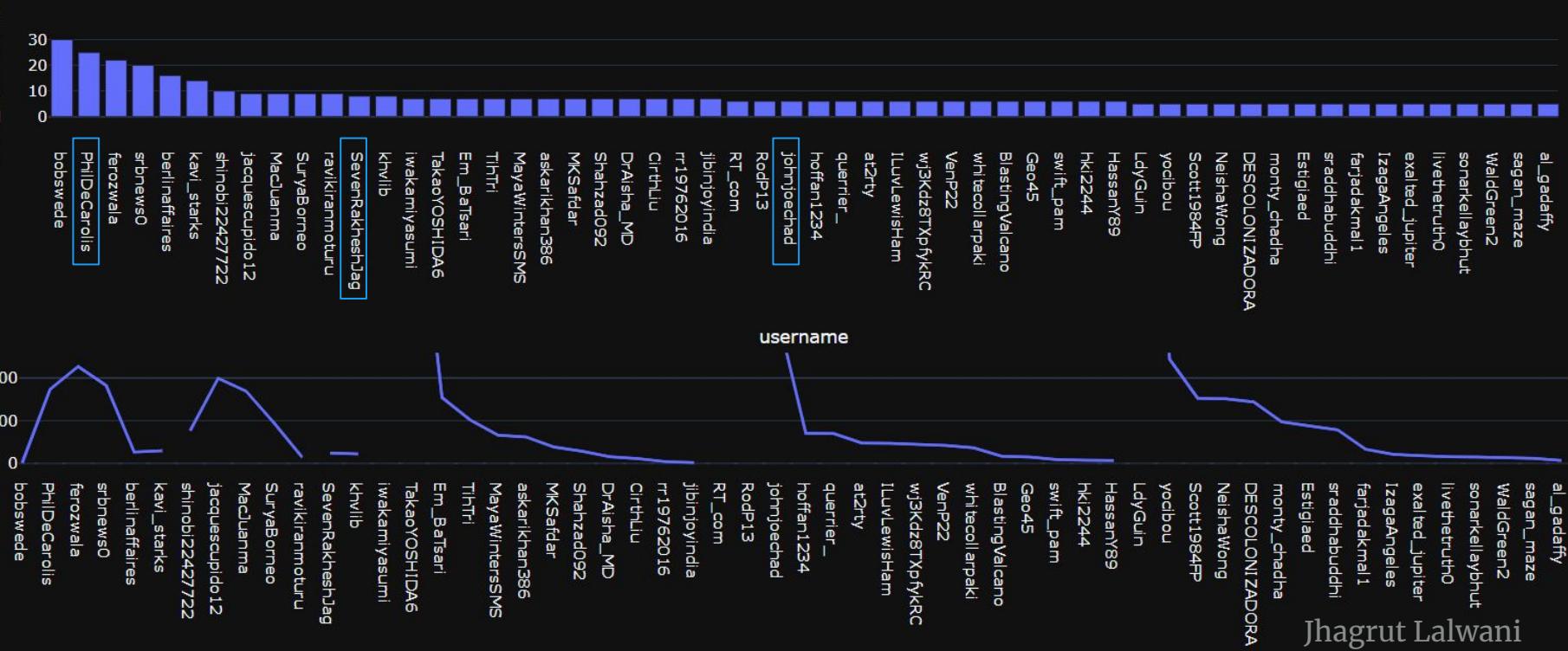
num_interactions	username	mean_toxicity	followers_count	listed_count
15	ferozwala	0.05	4532.00	75.00
13	srbnews0	0.07	3642.00	32.00
11	PhilDeCarolis	0.06	3472.00	1245.00
9	kavi_starks	0.05	594.00	2.00
9	nan	0.04	nan	nan
6	RT_com	0.05	3084696.00	21513.00
6	RodP13	0.07	33058.00	132.00
6	shinobi22427722	0.08	1543.00	8.00
6	Geo45	0.05	306.00	26.00
6	ravikiranmoturu	0.05	294.00	2.00
6	swift_pam	0.07	179.00	1.00
5	TakaoYOSHIDA6	0.05	14857.00	25.00
5	SuryaBorneo	0.05	1893.00	14.00
5	MayaWintersSMS	0.08	1319.00	7.00
5	askarikhhan386	0.06	1240.00	1.00
5	Shahzad092	0.07	569.00	7.00
5	hki2244	0.05	148.00	0.00
5	nan	0.11	nan	nan
5	nan	0.05	nan	nan
5	nan	0.05	nan	nan

Interactions (Time diff<=5s)

num_interactions	username	mean_toxicity	followers_count	listed_count
30	bobswede	0.08	31.00	0.00
25	PhilDeCarolis	0.06	3472.00	1245.00
22	ferozwala	0.05	4532.00	75.00
20	srbnews0	0.07	3642.00	32.00
16	berlinaffaires	0.05	539.00	8.00
14	kavi_starks	0.05	594.00	2.00
14	nan	0.04	nan	nan
10	shinobi22427722	0.08	1543.00	8.00
9	jacquescupido12	0.06	3979.00	16.00
9	MacJuanma	0.05	3380.00	173.00
9	SuryaBorneo	0.05	1893.00	14.00
9	ravikiranmoturu	0.05	294.00	2.00
9	nan	0.05	nan	nan
8	SevenRakheshJag	0.06	487.00	2.00
8	khvlib	0.06	445.00	0.00
8	nan	0.11	nan	nan
8	nan	0.08	nan	nan
7	iwakamiyasumi	0.02	184614.00	10832.00
7	TakaoYOSHIDA6	0.05	14857.00	25.00

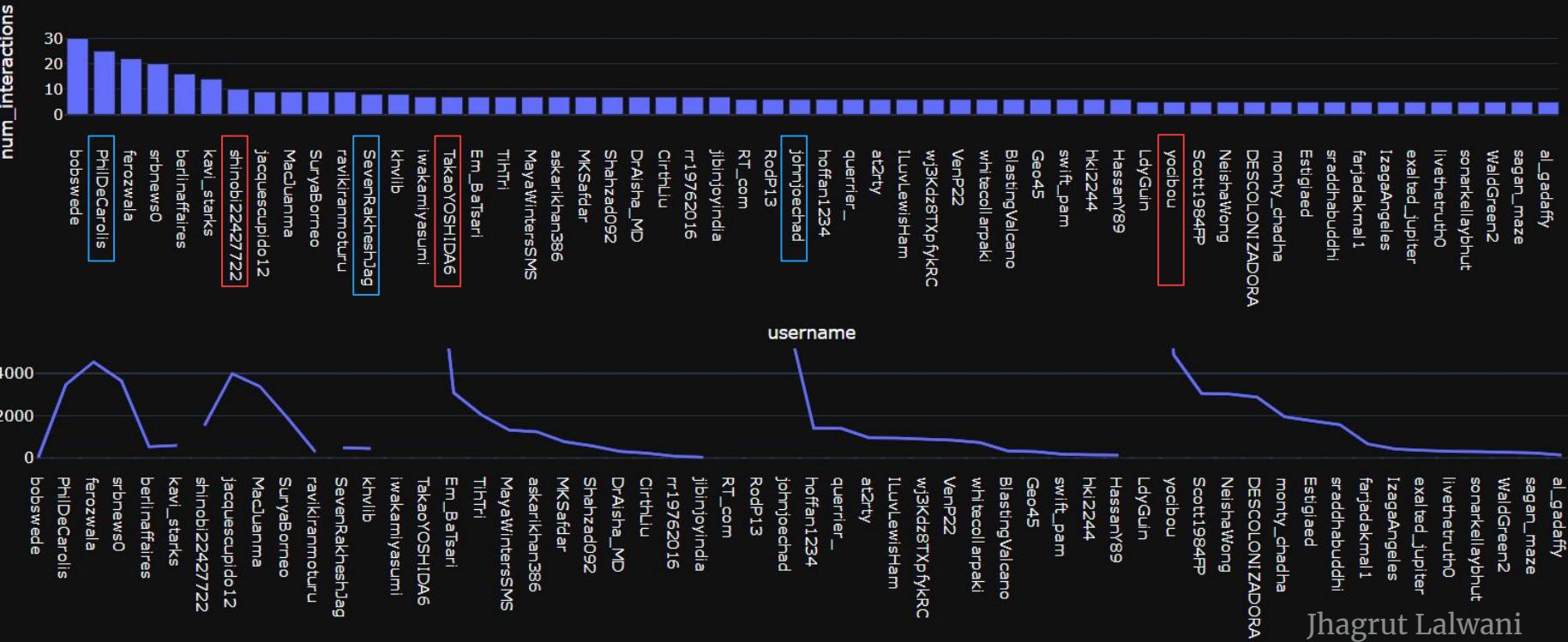
Interactions & Followers (Time diff<=5s)

Interactions within 5s for selected dates(18) having peak activity



Interactions & Followers (Time diff<=5s)

Interactions within 5s for selected dates(18) having peak activity



Bobswede (following)

GZ

The Grayzone

@TheGrayzoneNews

Follow

Independent news and investigative journalism on politics and empire.

Videos: youtube.com/channel/UCEXR8...



#FreeOlaBini

@freeolabini

Follow

For efforts coordinating campaigns and press requests email olabinilegal at riseup dot net



The Spin Report

@TheSpinReport

Follow

A media and political literacy project covering the US empire. • IG:

instagram.com/thespinreport • FB: facebook.com/thespinreport



Nej till NATO

@NejtillNATO

Follow



Proton

@ProtonPrivacy

Follow

Empowering you to choose a better internet where privacy is the default. Protect yourself online with @ProtonMail, @ProtonVPN, @ProtonCalendar and @ProtonDrive.



Edward Snowden

@Snowden

Follow

You can find me on #nostr @ pubkey:

#npub1sn0wdenkukak0d9dfczzeacvhkrgz92ak56egt7vdgzn8pv2wfqqhrjd9. (use Damus on iOS, Amethyst on Android, or snort.social)



WikiLeaks

@wikileaks

Follow

PGP: A04C 5E09 ED02 B328 03EB 6116 93ED 732E Shop:

@WikiLeaksShop Defend: defendwikileaks.org

Bobswede (following)

The Spin Report
356 Tweets



the spin report

The Spin Report
@TheSpinReport

A media and political literacy project covering the US empire. • IG: [instagram.com/thespinreport](https://www.instagram.com/thespinreport) • FB: [facebook.com/thespinreport](https://www.facebook.com/thespinreport)

[patreon.com/thespinreport](https://www.patreon.com/thespinreport) Joined July 2020

66 Following 2,706 Followers

Not followed by anyone you're following

The Spin Report @TheSpinReport · Dec 10, 2020
The US is the world's greatest violator of human rights.

#HumanRightsDay

The Spin Report @TheSpinReport · Sep 14, 2020
Show this thread



2:16 | 75.4K views

Q t 26 H 50 I ↑

Bobswede (following)

The Spin Report
356 Tweets



the spin report

The Spin Report
@TheSpinReport

A media and political literacy project covering the US empire. • IG: [instagram.com/thespinreport](https://www.instagram.com/thespinreport) • FB: [facebook.com/thespinreport](https://www.facebook.com/thespinreport)

[patreon.com/thespinreport](https://www.patreon.com/thespinreport) Joined July 2020

66 Following 2,706 Followers

Not followed by anyone you're following

The Spin Report @TheSpinReport · Dec 10, 2020

Julian Assange is in prison for exposing US and UK war crimes, but the actual criminals who destroyed Iraq got off scot-free.

These Western imperialist powers have no regard for human life.

BBC NEWS

Court finds UK war crimes but will not take action

09 December 2020 | UK

✉️ 📱 🌐

3 43 124

Jhagrut Lalwani

Bobswede (following)

[←](#) **Nej till NATO**
509 Tweets

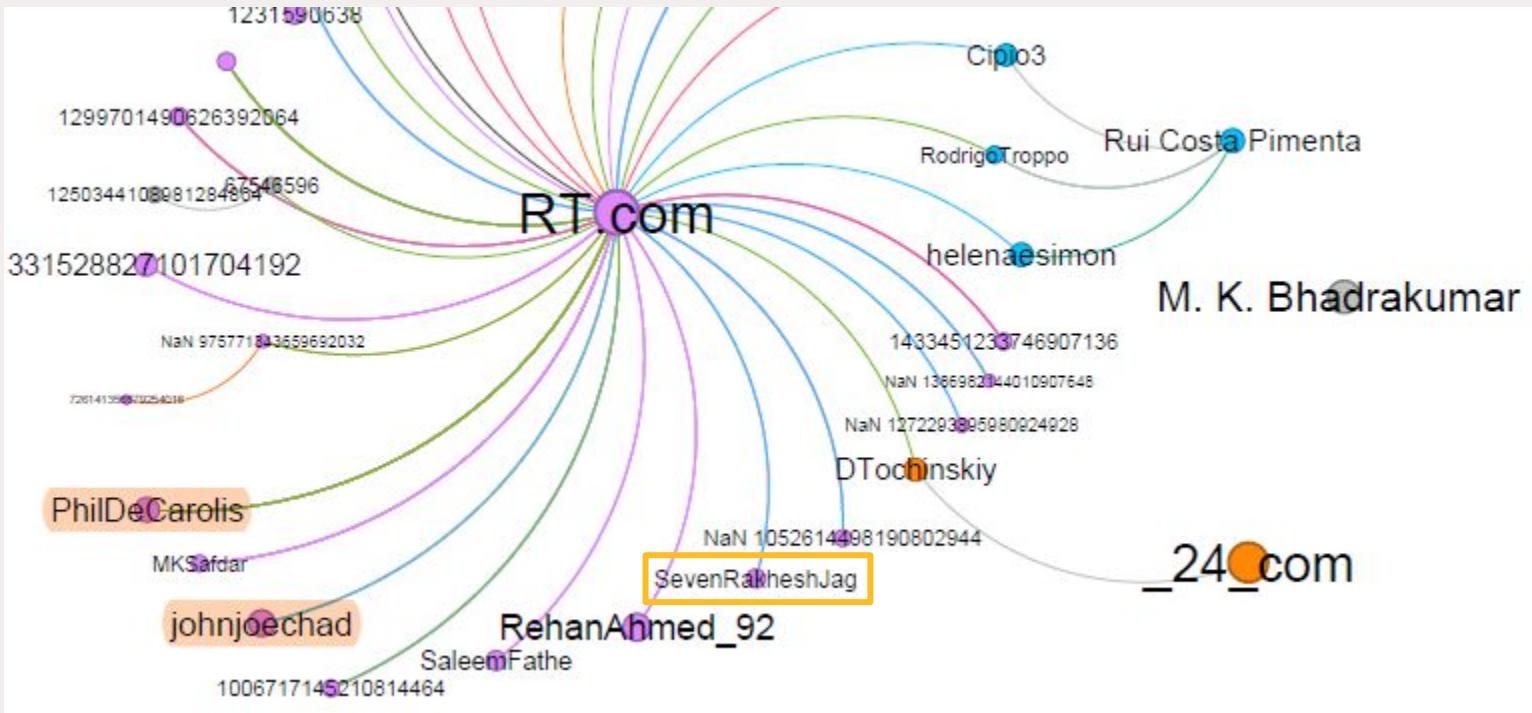


Nej till NATO
@NejtillNATO
 Joined April 2015
20 Following **171** Followers
Not followed by anyone you're following

 **Edward Snowden**
@Snowden [Follow](#)
You can find me on #nostr @ pubkey:
[#npub1sn0wdenkukak0d9dfczzeacvhkrgz92ak56egt7vdgzn8pv2wfqqhrjdv9](#). (use Damus on iOS, Amethyst on Android, or [snort.social](#))

 **WikiLeaks** 
@wikileaks [Follow](#)
PGP: A04C 5E09 ED02 B328 03EB 6116 93ED 732E Shop:
[@WikiLeaksShop](#) Defend: [defendwikileaks.org](#)

Based on listed count



Based on listed count

PhilDeCarolis

- Listed count - **1245 (highest)**
- Followers_count - 3472
- Following - **34 (lowest)**
- Mean Retweet_count for 22 urls - 69
- ~1.7M tweets
- Mean retweets overall - ~50

Johnjoechad

- Listed count - 648
- Followers_count - **6864 (highest)**
- Mean Retweet_count for 22 urls - 88
- ~960K tweets
- Mean retweets overall - ~54

ferozwala



 **Sarwar** 
@ferozwala

Caution: This profile may include potentially sensitive content

You're seeing this warning because they Tweet potentially sensitive images or language. Do you still want to view it?

[Yes, view profile](#)

 **Sarwar**  @ferozwala · 7m
#BREAKING
Kurdistan Region's Peshmerga forces have been deployed to the #Palkana village in #Kirkuk province after non-indigenous Arabs stormed the disputed Kurdish village for the second day in a row, a Kurdish official told #BasNews on Saturday.
#Iraq

The following media includes potentially sensitive content. [View](#)

 **Sarwar**  @ferozwala · 8m
The procession marches calmly on the N126 against the A69, near Saix
Nearly 3,000 opponents gathered in Saix to oppose the motorway project between #Castres & #Toulouse.
#A69 #Saix #France

The following media includes potentially sensitive content. [View](#)

Jhagrut Lalwani

srbnews

← **srb news**
164.6K Tweets

11 November WWI
Victory Day

Follow

srb news
@srbnews0

Our job is to tell the truth and just the truth. Join us ! For more true BREAKING NEWS updates folow@srbnews0. vk.com/id444768505

⌚ europe ⌚ srbnews0.blogspot.rs 📅 Joined June 2017

5,019 Following 3,658 Followers

Not followed by anyone you're following

rt srb news Retweeted **George Galloway** @georgegalloway · 6h ...

According to the former head of the #CIA Secretary #Blinken tasked him with the conspiracy to frame #Russia over the #HunterBiden laptop. 51 #US intelligence figures then testified the laptop scandal was #Russian disinformation. It is now acknowledged that the laptop and the... [Show more](#)

30 215 459 21.4K

rt srb news Retweeted **RT** @RT_com · 5h ...

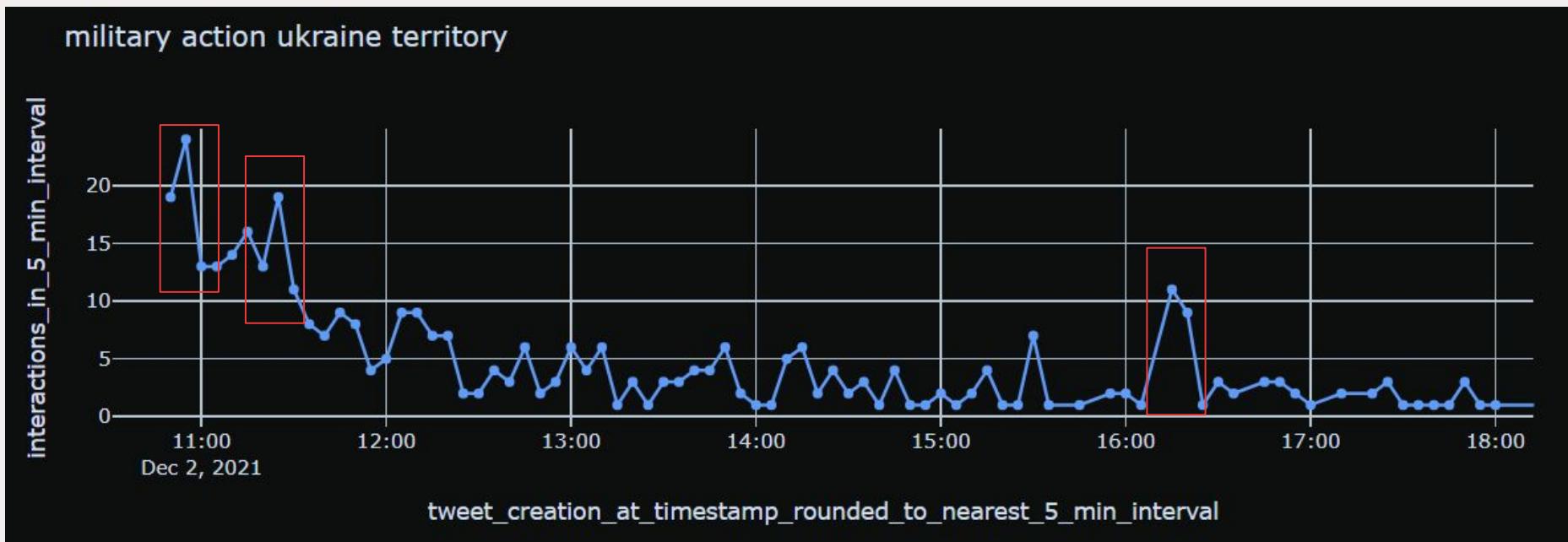
Washington goes after Russians and its own citizens by charging them with conspiracy to interfere in electoral processes and disseminate propaganda

6,079 views 0:32 / 6:53

11 35 81 13.8K

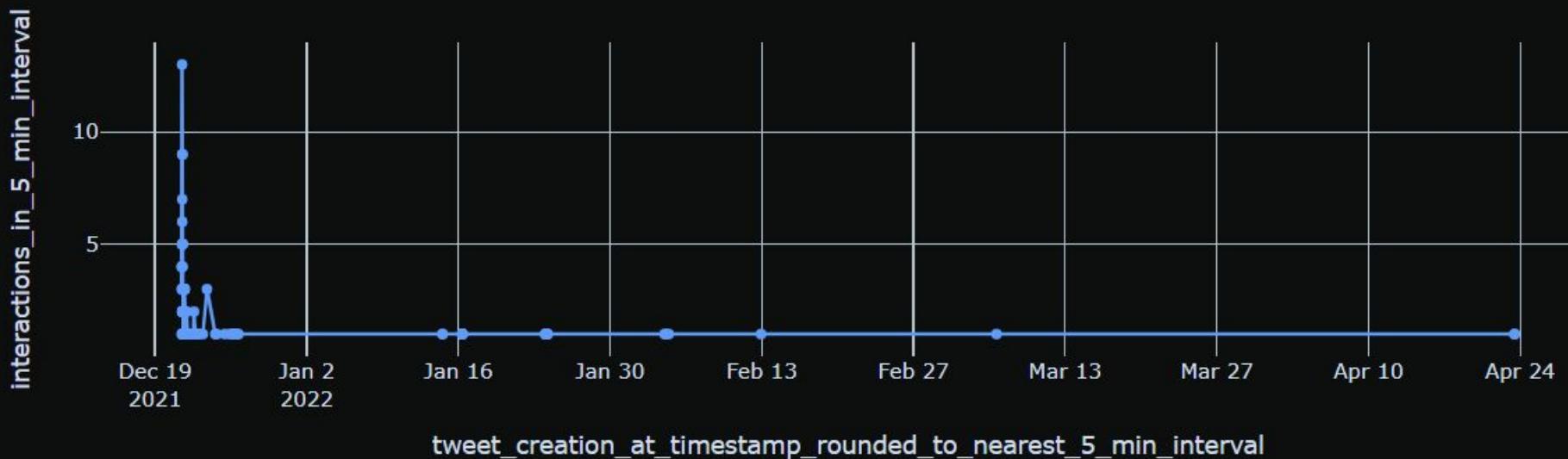
Jhagrut Lalwani

Build-up for the invasion

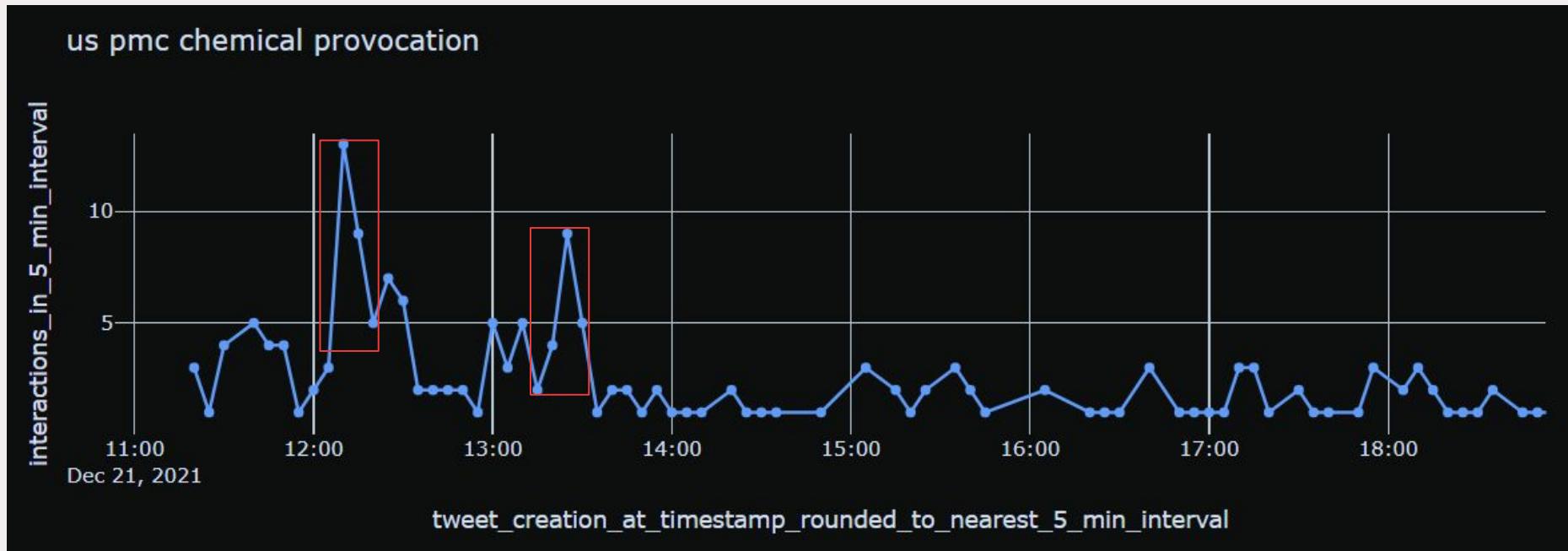


Build-up for the invasion

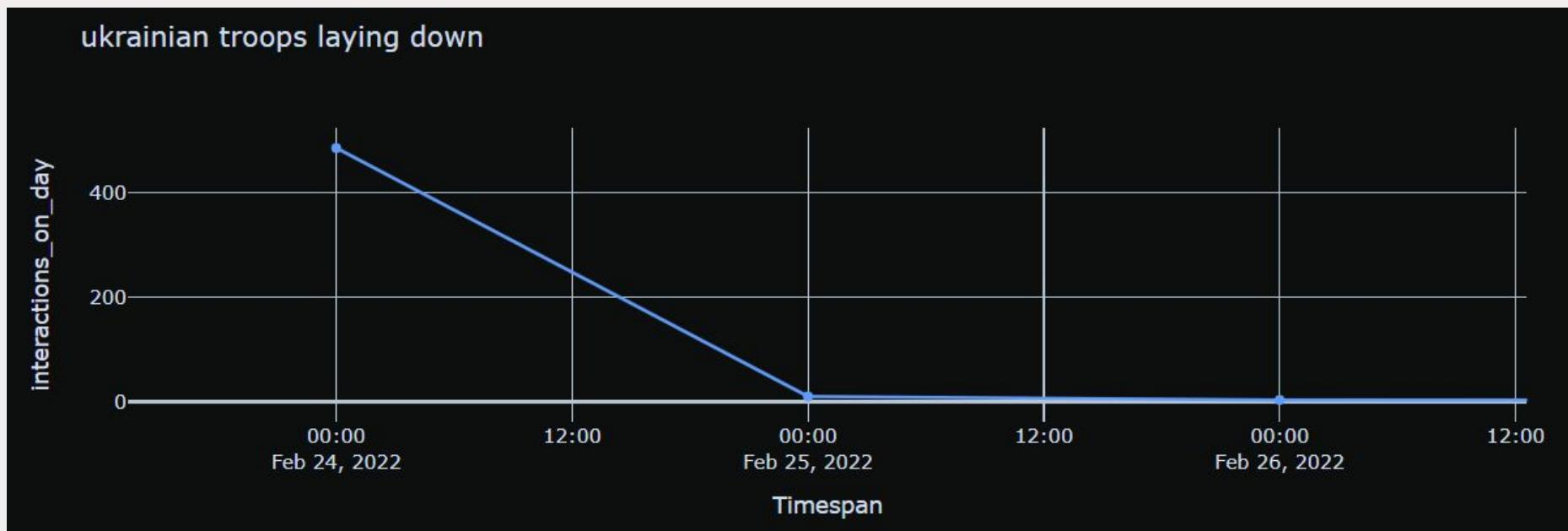
us pmc chemical provocation



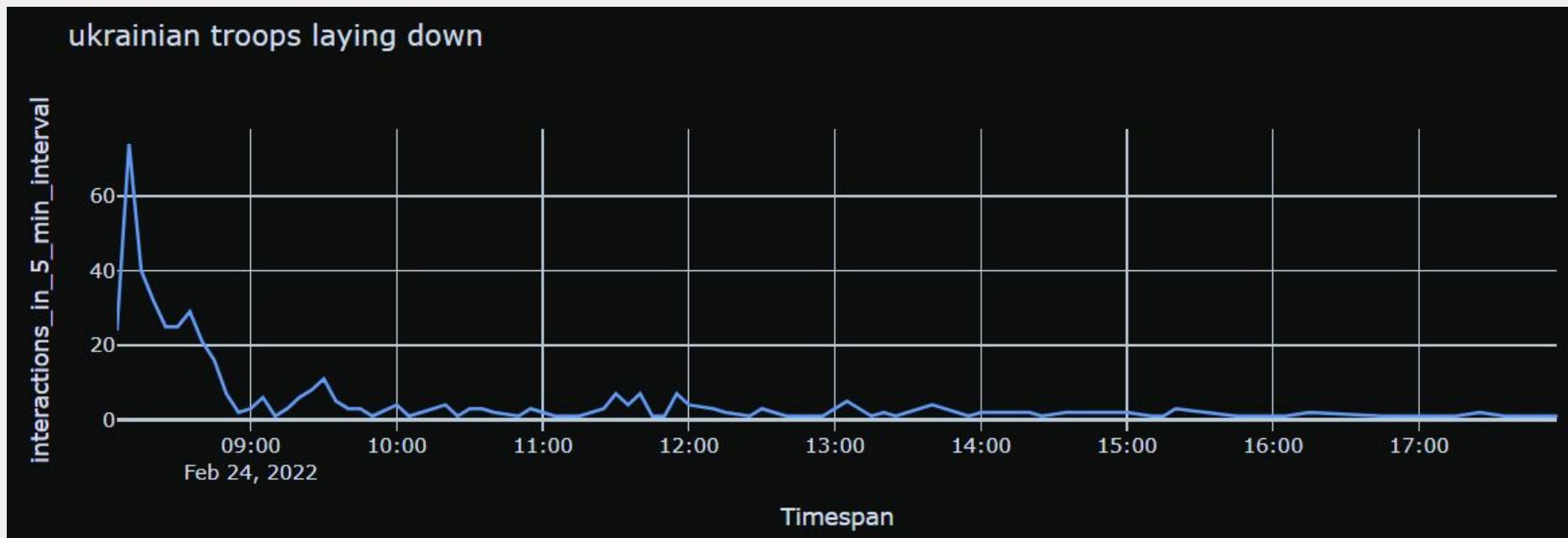
Build-up for the invasion



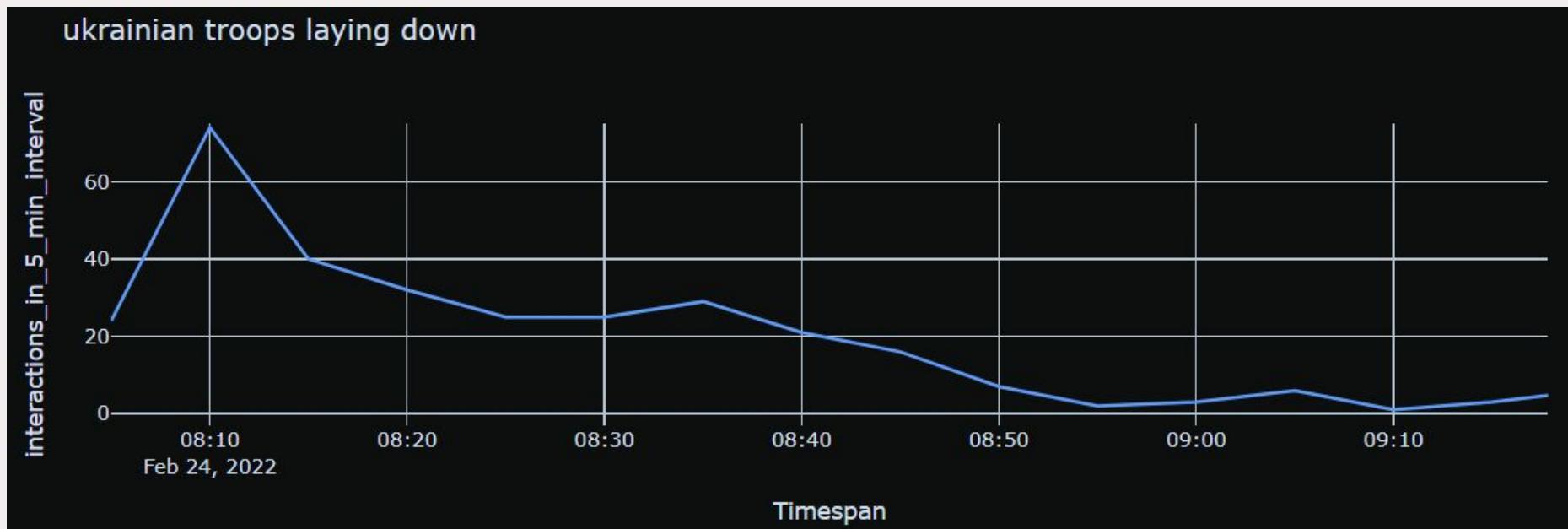
Sharing on Feb 24 (capped at 500 retweets)



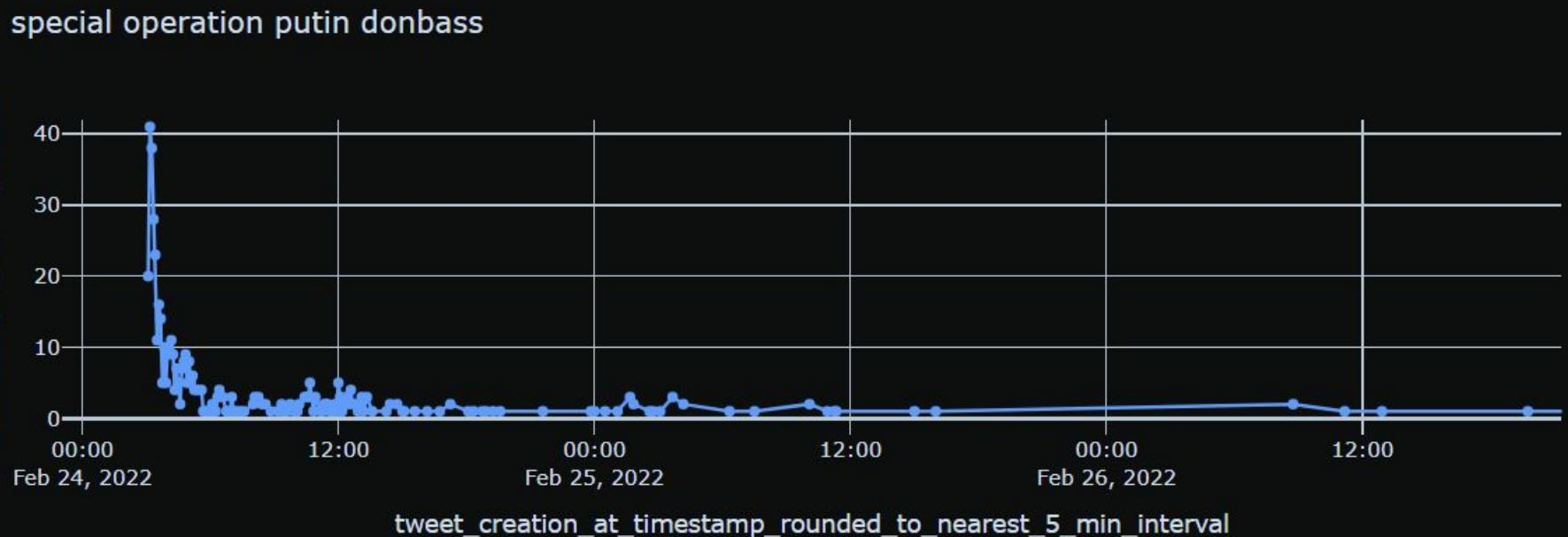
Sharing on Feb 24 (capped at 500 retweets)



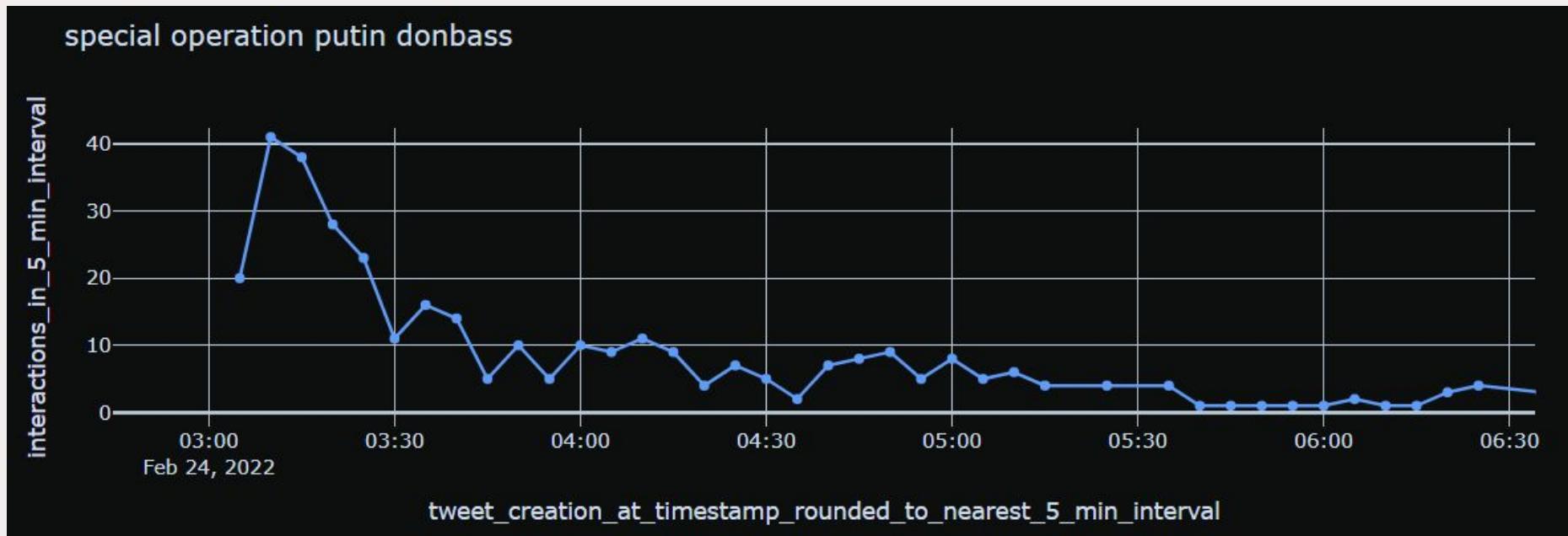
Sharing on Feb 24 (capped at 500 retweets)



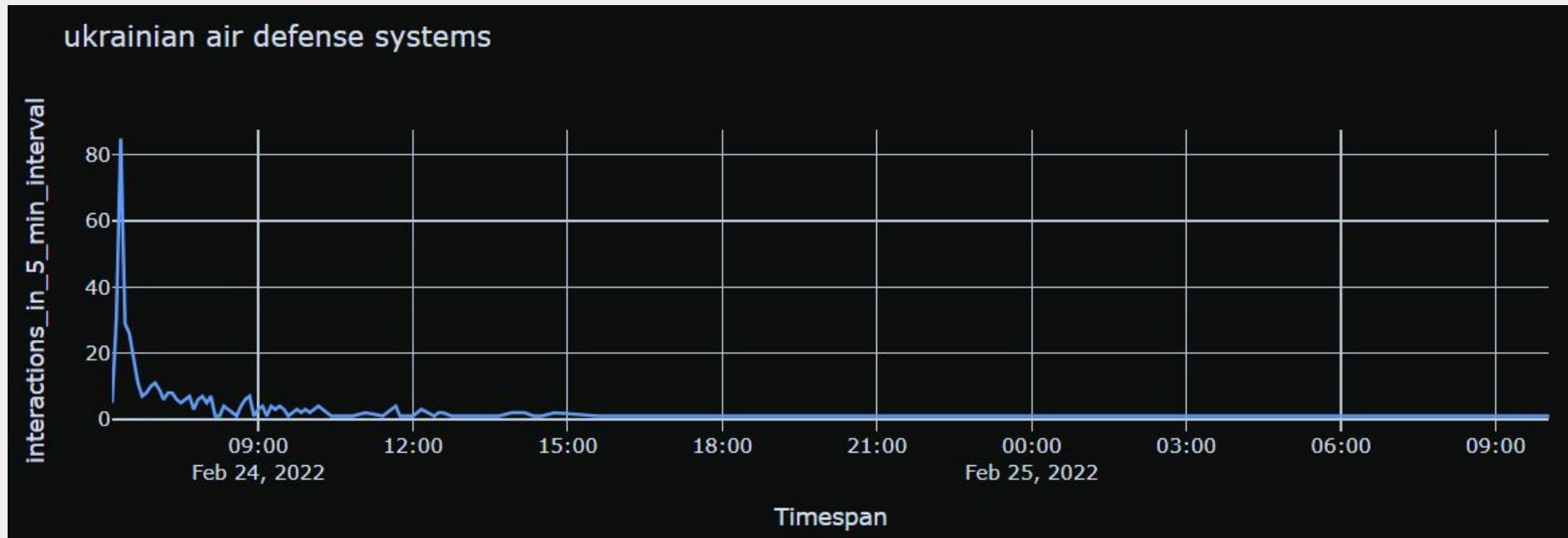
Sharing on Feb 24 (capped at 500 retweets)



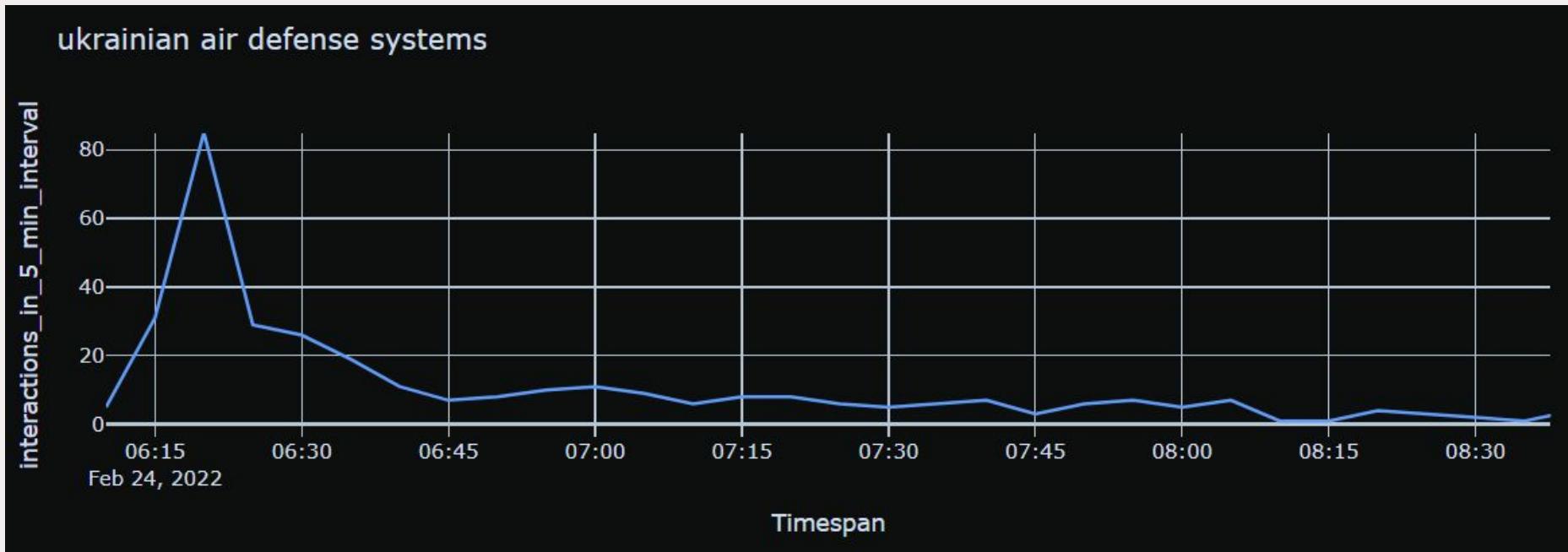
Sharing on Feb 24 (capped at 500 retweets)



Sharing for 3 days (Overall interactions 447)



Sharing for 3 days (Overall interactions 447)



About the dataset

entities_x	39
threat	17722
insult	17722
identity_attack	17722
severe_toxicity	17722
profanity	17722
toxicity	17722
account_created_at	82939
followers_count	82941
following_count	82941
listed_count	82941
tweet_count	82941
username	82941
name	83070
profile_image_url	83070
referenced_tweet_id	111452
referenced_tweet_type	111452
description	138874
location	183131
withheld_x	194340
entities_y	262267
withheld_y	358635
dtype:	int64

Ridge Regression

```
features = ['like_count', 'quote_count', 'reply_count', 'retweet_count',
            'mean_like_count', 'mean_quote_count', 'mean_reply_count', 'mean_retweet_count',
            'mean_url_like_count', 'mean_url_quote_count', 'mean_url_reply_count', 'mean_url_retweet_count']
target = 'toxicity'
```

	feature	coefficient
0	like_count	0.000044
1	quote_count	0.000013
2	reply_count	-0.000016
3	retweet_count	-0.002316
4	mean_like_count	-0.000007
5	mean_quote_count	-0.002310
6	mean_reply_count	0.000005
7	mean_retweet_count	-0.004692
8	mean_url_like_count	-0.007745
9	mean_url_quote_count	0.000448
10	mean_url_reply_count	0.001018
11	mean_url_retweet_count	0.001635

The 22 urls (18 in slide)

	first_retweeted_at	url	no_retweets	no_retweets_with_known_origin
0	2021-04-01 10:25	mcdonald spy foreign propaganda	156	154
1	2021-07-07 08:43	warship incident sea borders	71	71
2	2021-08-31 17:14	bomb squads called sushi outlets	24	24
3	2021-09-03 17:01	psaki leaked biden call ghani	41	41
4	2021-09-22 07:18	new storytelling in skripal litvinenko meant t...	0	0
5	2021-10-22 10:23	colin powell was rude about trump	16	16
6	2022-01-19 16:24	us end conflict ukraine	94	94
7	2022-01-20 18:56	pushkov american analysts stupidity	34	34
8	2022-01-24 23:30	biden reporter stupid inflation	42	42
9	2022-02-04 15:49	washington moscow kill isis leader	86	86
10	2022-02-09 08:59	moscow on potential delivery of us abm system ...	14	1
11	2022-02-15 06:25	canada ukraine lethal aid	40	40
12	2022-02-17 13:28	belarus ready deploy supernuclear weapons	150	150
13	2022-02-23 16:32	britain backside kick threat	17	17
14	2022-02-27 04:32	trump nato dumb putin	376	376
15	2022-02-28 08:01	pork bullets muslims ukraine	214	209
16	2022-03-04 05:35	senator graham putin assassination	420	124
17	2022-03-04 15:39	kremlin putin assassination plot graham	12	12

Graph Details

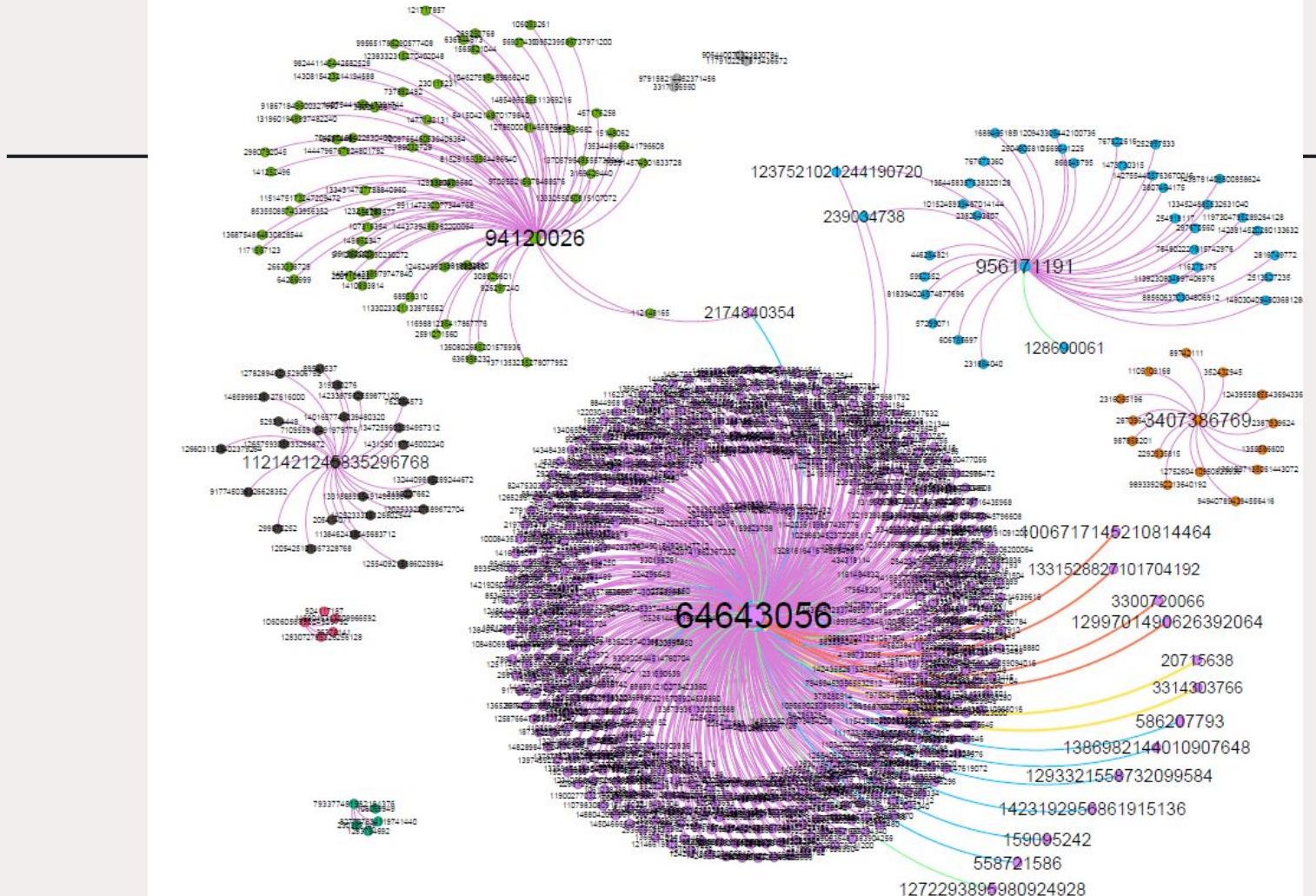
- 7030 urls were present in original tweets_df
- 22 urls have following properties:
 - shared by at least 1 user having ≥ 2000 followers
 - mean toxicity of posts in which the url was present is ≥ 0.3
 - mean toxicity of at least 1 author who shared the url ≥ 0.3
- No of unique authors who have shared these urls = 2661

Graph Details

- 7030 urls were present in original tweets_df
- 22 urls have following properties:
 - shared by at least 1 user having ≥ 2000 followers
 - mean toxicity of posts in which the url was present is ≥ 0.3
 - mean toxicity of at least 1 author who shared the url ≥ 0.3
- No of unique authors who have shared these urls = 2661
- Nodes are coloured based on modularity
- Edges are coloured based on url

The urls first retweeted in February

	first_retweeted_at	url	no_retweets	no_retweets_with_known_origin
9	2022-02-04 15:49	washington moscow kill isis leader	86	86
10	2022-02-09 08:59	moscow on potential delivery of us abm system ...	14	1
11	2022-02-15 06:25	canada ukraine lethal aid	40	40
12	2022-02-17 13:28	belarus ready deploy supernuclear weapons	150	150
13	2022-02-23 16:32	britain backside kick threat	17	17
14	2022-02-27 04:32	trump nato dumb putin	376	376
15	2022-02-28 08:01	pork bullets muslims ukraine	214	209



Jhagrut Lalwani

What do the colour of these lines mean?

- Yellow lines retweeting author 64643056's tweets, represent sharing of 5 urls

```
feb_network_64643056[feb_network_64643056['author_id'] == 20715638]['uuid'].value_counts()
```

```
0e36696b-2326-3308-bb53-2147a2564dfe    3  
4c137b55-5809-3247-8a64-54b2860c6c75    1  
22ea582d-04f2-3857-ae0b-ac7de116b286    1  
Name: uuid, dtype: int64
```

```
feb_network_64643056[feb_network_64643056['author_id'] == 3314303766]['uuid'].value_counts()
```

```
0e36696b-2326-3308-bb53-2147a2564dfe    3  
4c137b55-5809-3247-8a64-54b2860c6c75    1  
22ea582d-04f2-3857-ae0b-ac7de116b286    1  
Name: uuid, dtype: int64
```

What do the colour of these lines mean?

- Orange lines retweeting author 64643056's tweets, represent sharing of 4 urls

```
[30]: feb_network_64643056[feb_network_64643056['author_id'] == 1006717145210814464]['uuid'].value_counts()
```

```
[30]: 0e36696b-2326-3308-bb53-2147a2564dfe    3  
1bfaf42-b29d-3089-b176-86d6a113ba7a      1  
Name: uuid, dtype: int64
```

```
[31]: feb_network_64643056[feb_network_64643056['author_id'] == 1331528827101704192]['uuid'].value_counts()
```

```
[31]: 0e36696b-2326-3308-bb53-2147a2564dfe    3  
22ea582d-04f2-3857-ae0b-ac7de116b286      1  
Name: uuid, dtype: int64
```

```
[35]: feb_network_64643056[feb_network_64643056['author_id'] == 3300720066]['uuid'].value_counts()
```

```
[35]: 0e36696b-2326-3308-bb53-2147a2564dfe    3  
22ea582d-04f2-3857-ae0b-ac7de116b286      1  
Name: uuid, dtype: int64
```

```
[36]: feb_network_64643056[feb_network_64643056['author_id'] == 1299701490626392064]['uuid'].value_counts()
```

```
[36]: 0e36696b-2326-3308-bb53-2147a2564dfe    2  
22ea582d-04f2-3857-ae0b-ac7de116b286      1  
1bfaf42-b29d-3089-b176-86d6a113ba7a      1  
Name: uuid, dtype: int64
```

What do the colour of these lines mean?

- Blue lines retweeting author 64643056's tweets, representing sharing of 3 urls

```
[45]: feb_network_64643056[feb_network_64643056['author_id'] == 586207793]['uuid'].value_counts()
```

```
[45]: 0e36696b-2326-3308-bb53-2147a2564dfe      3
      Name: uuid, dtype: int64
```

```
[46]: feb_network_64643056[feb_network_64643056['author_id'] == 1386982144010907648]['uuid'].value_counts()
```

```
[46]: 0e36696b-2326-3308-bb53-2147a2564dfe      2
      1bfaf42-b29d-3089-b176-86d6a113ba7a      1
      Name: uuid, dtype: int64
```

```
[47]: feb_network_64643056[feb_network_64643056['author_id'] == 1293321558732099584]['uuid'].value_counts()
```

```
[47]: 0e36696b-2326-3308-bb53-2147a2564dfe      2
      1bfaf42-b29d-3089-b176-86d6a113ba7a      1
      Name: uuid, dtype: int64
```

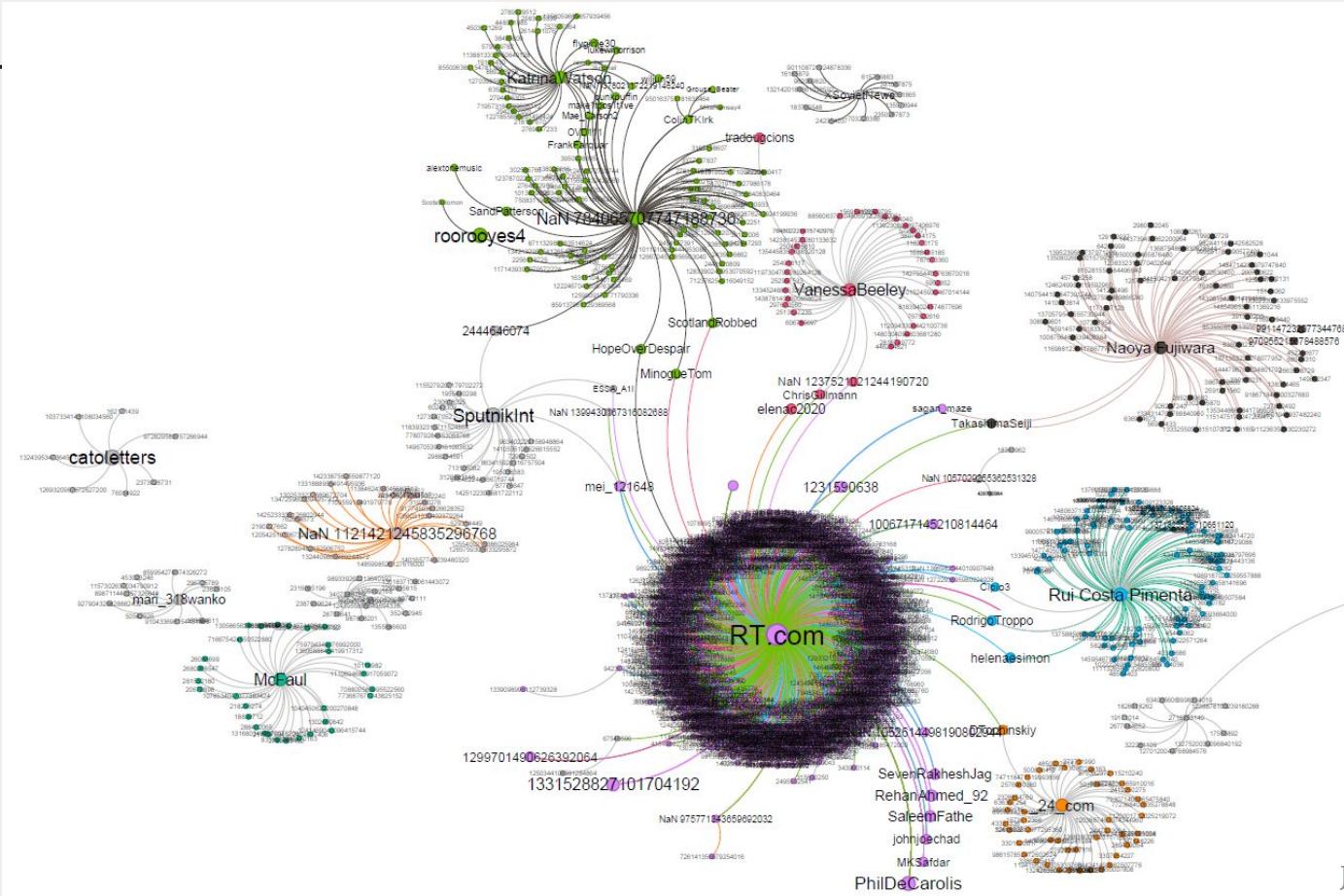
What do the colour of these lines mean?

- Green line represent sharing of 2 urls

```
[51]: feb_network_64643056[feb_network_64643056['author_id'] == 1272293895980924928]['uuid'].value_counts()
```

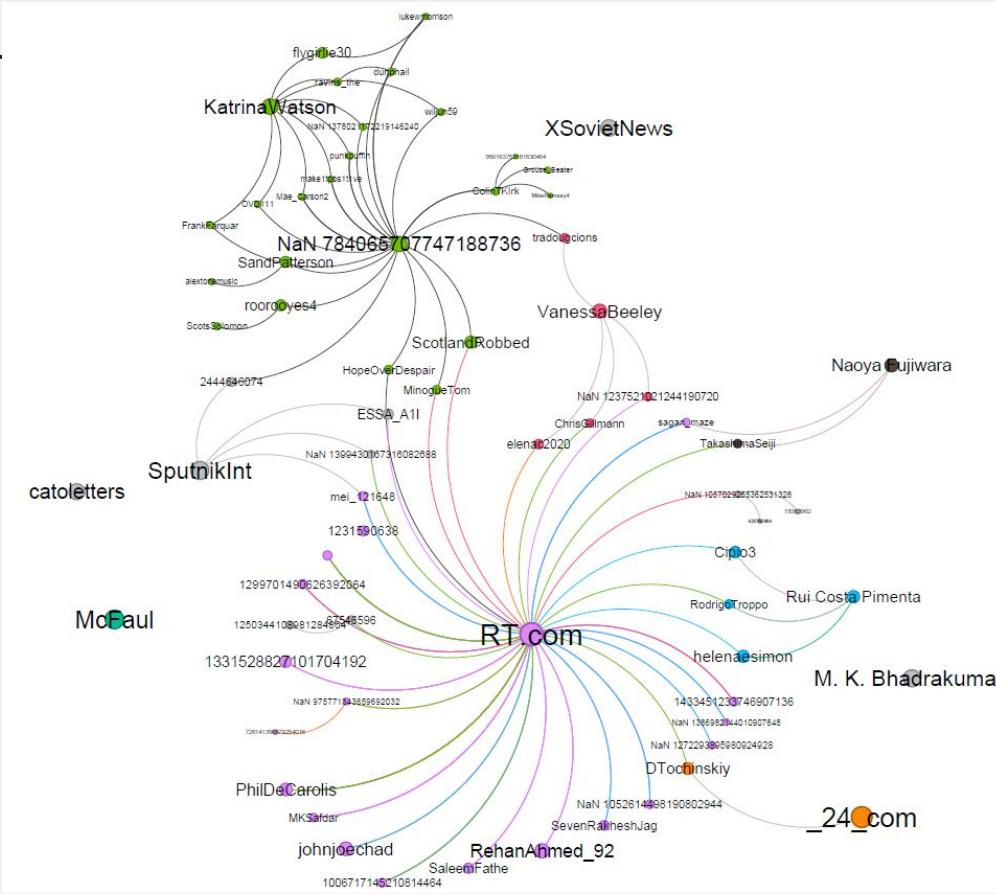
```
[51]: 0e36696b-2326-3308-bb53-2147a2564dfe    1
1bfaf42-b29d-3089-b176-86d6a113ba7a    1
Name: uuid, dtype: int64
```

Retweet Network for all 22 urls



Jhagrut Lalwani

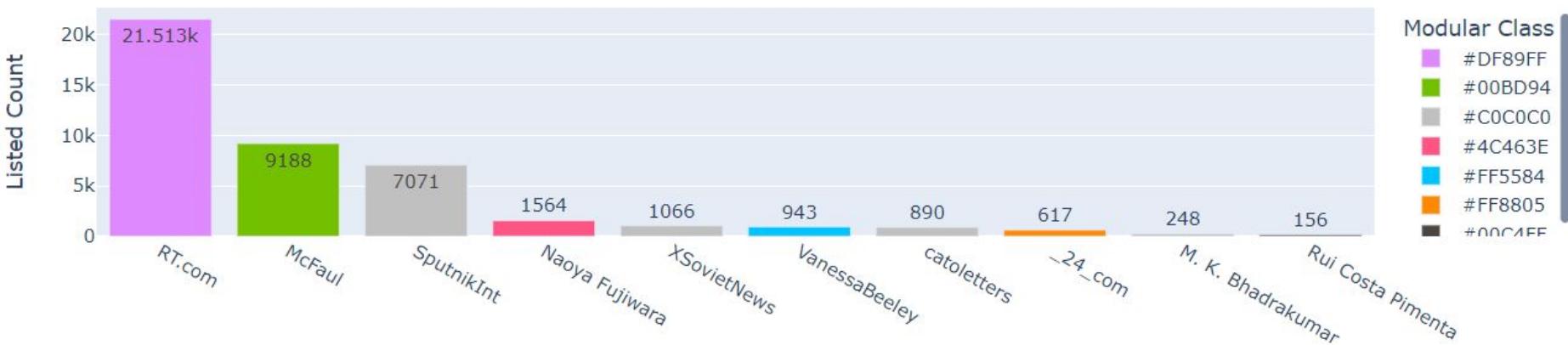
Refined Retweet Network for all 22 urls



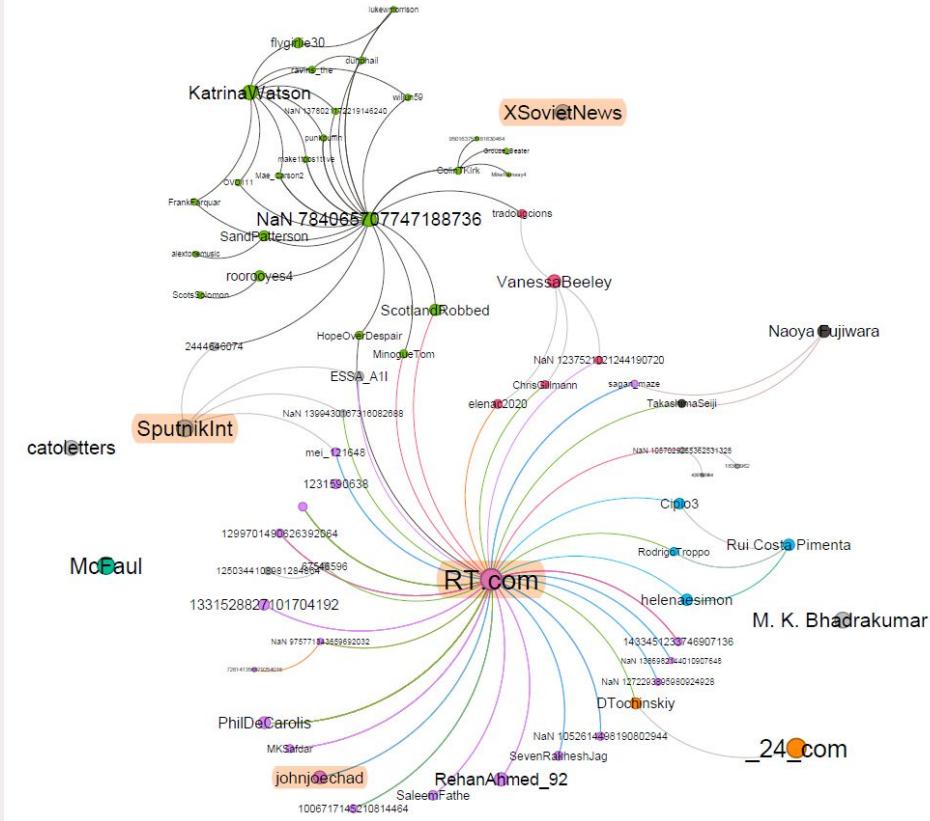
A look into Influencers of this network

Prominent Influencers

Origin Authors that are member of atleast 50 public lists



The expected ones



The expected ones

RT.com

- Most influential account of 22 url network
- 3M Followers

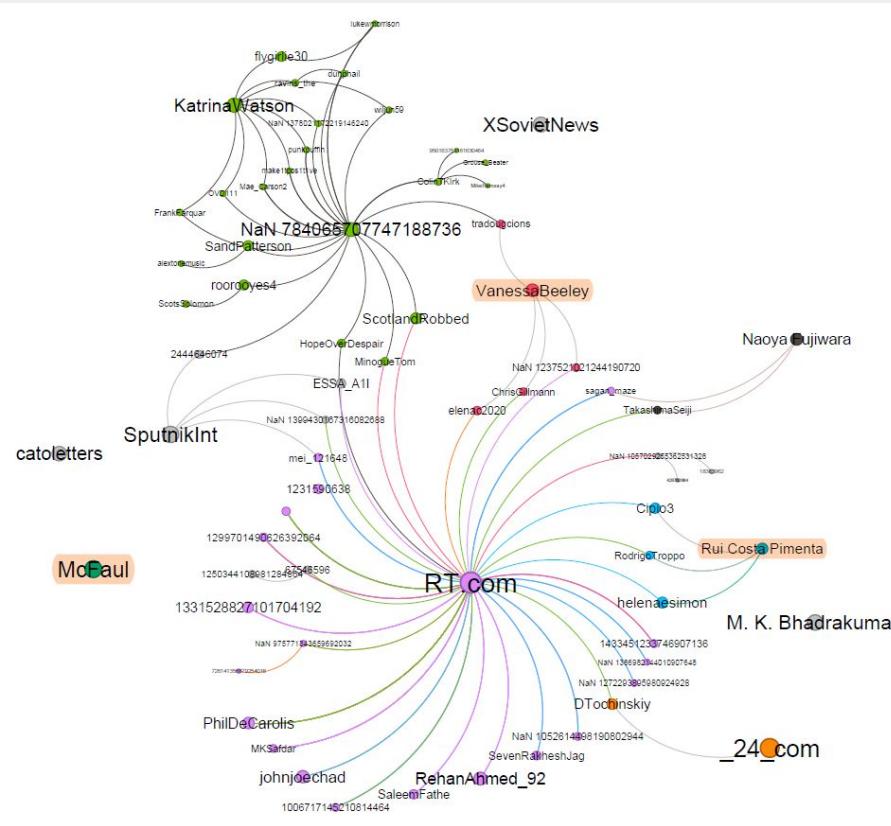
SputnikInt

- 353.3K Followers

XSovietNews (Sarah Hurst)

- Based in the UK.
- 40K Followers
- 1,976 Following

Prominent Influencers



Jhagrut Lalwani

Prominent Influencers

Rui Costa Pimenta

- President of the Partido da Causa Operária, editor of the newspaper Causa Operária
- 33.7K Followers
- Brazil

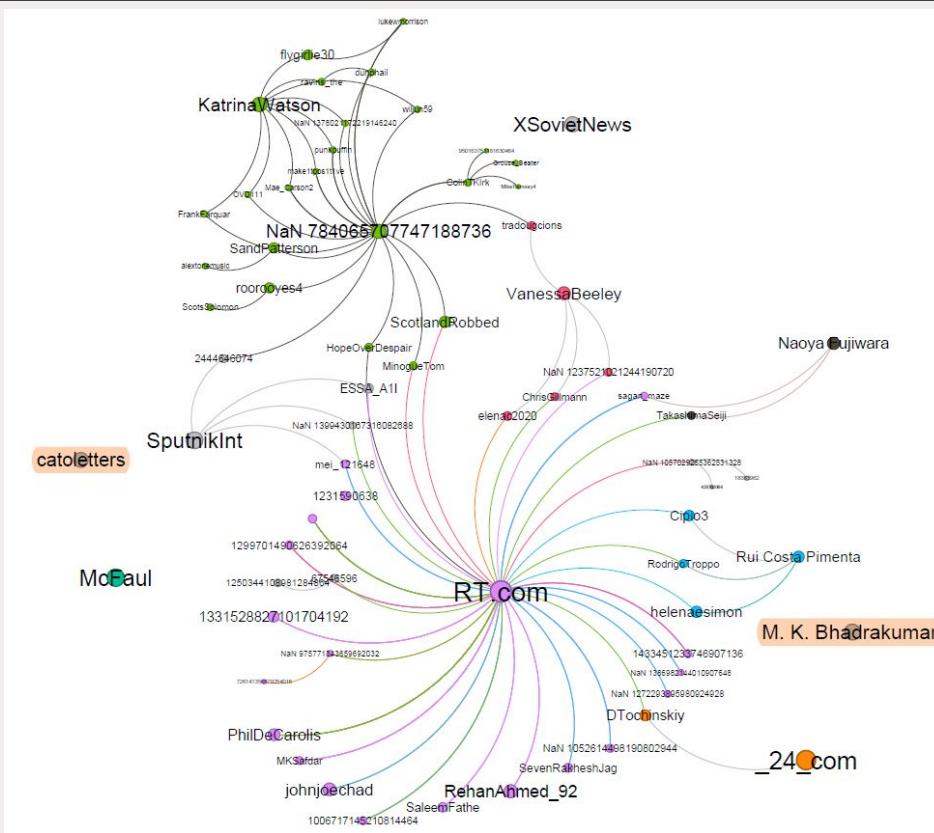
McFaul

- 877.8K Followers
- Following 32*
- Professor of Political Science, Director of Freeman Spogli Institute & Hoover Senior Fellow all at Stanford University. U.S. Ambassador to Russia, 2012-2014

Vanessa Beeley

- 2,924 Following
- 87.3K Followers
- Writer and Activist

Prominent Influencers



Prominent Influencers

M. K. Bhadrakumar

- Former Diplomat - News website <https://www.indianpunchline.com/>
- 39 Following
 - Center for China and Globalization (CCG) and it's president
 - RusEmbIndia & Dmitry Medvedev - The President of Russia, 2008-2012
 - Chen Dingding - Founder of Intellisia Institute, think tank in China
- 32.8K Followers
- Writes positive news about Russia and China

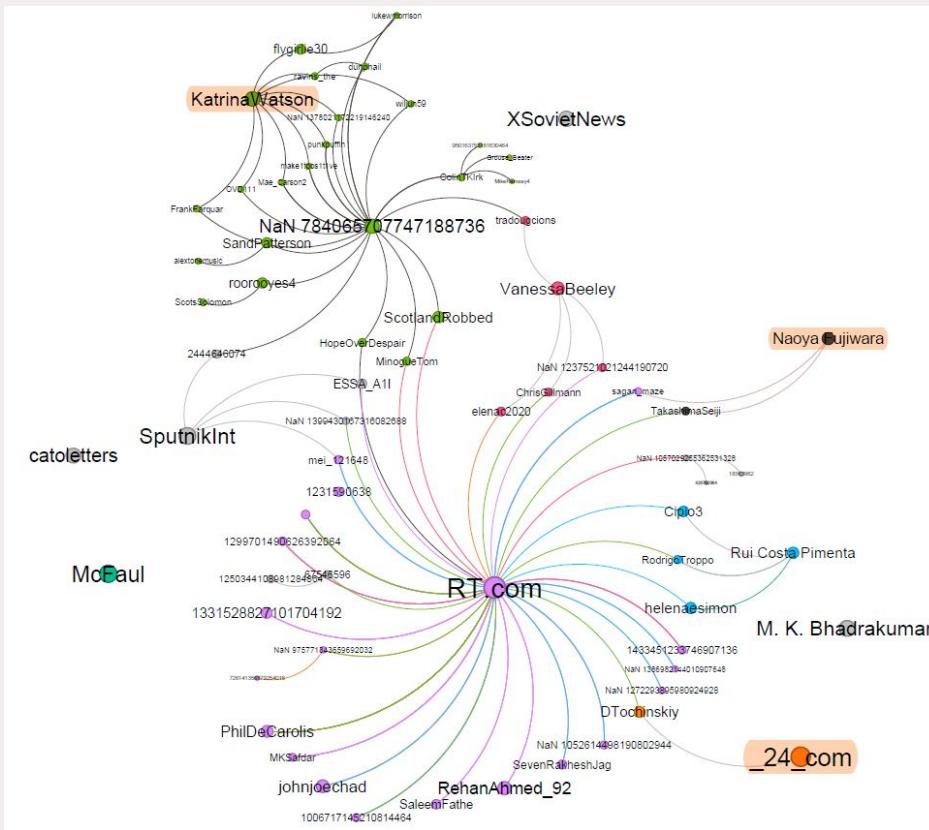
Catoletters

- Named after Cato The Younger - conservative Roman senator during late Republic.

*(numbers at the time of the analysis)

Jhagrut Lalwani

A look into Influencers of this network



A look into Influencers of this network

KatrinaWatson

- 2,471 Following
- 1,924 Followers
- Scotland

Naoya Fujiwara

- 1 Following - Donald J Trump
- 115.8K Followers
- aeruba.co.jp/news/

24.com

- Japanese Account
- Bio says “against all FTA agreements leading to New World Order”

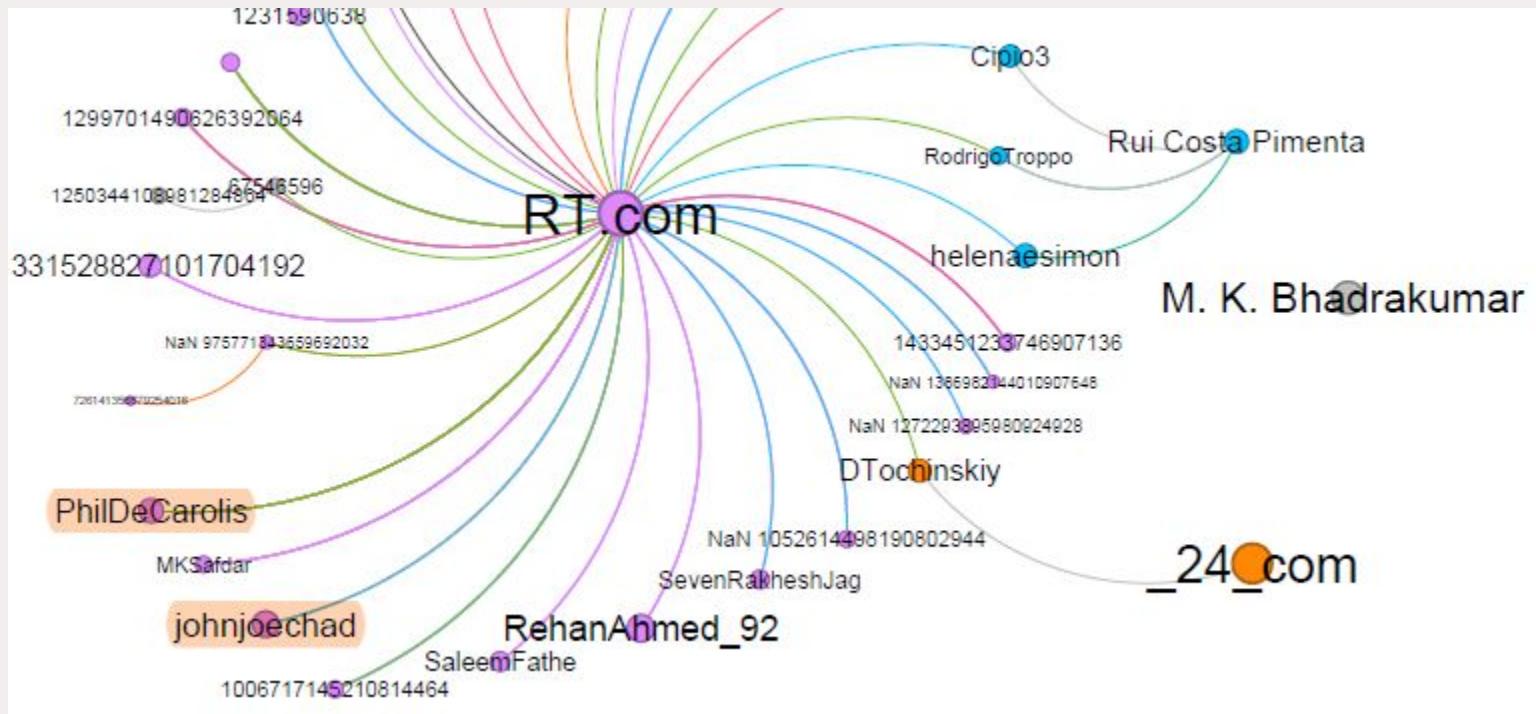
A look into
**Retweeters of this
network**

Based on listed count

Support Authors that are member of atleast 50 public lists



Based on listed count



Based on listed count

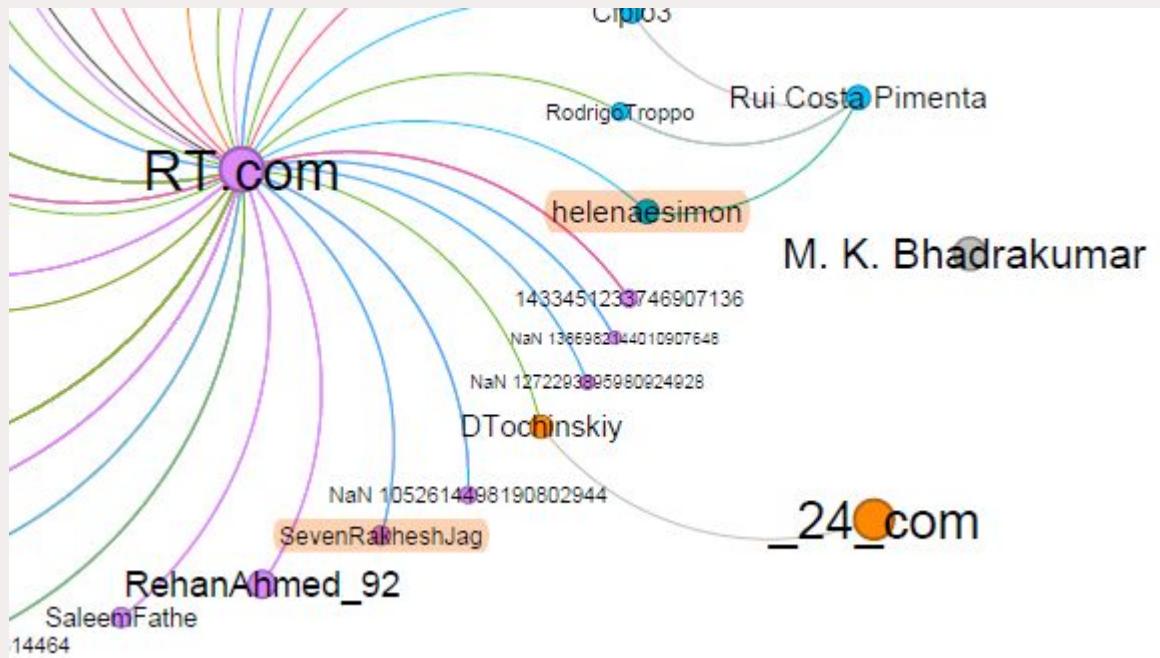
PhilDeCarolis

- Listed count - **1245 (highest)**
- Followers_count - 3472
- Following - **34 (lowest)**
- Mean Retweet_count for 22 urls - 69
- ~1.7M tweets
- Mean retweets overall - ~50

Johnjoechad

- Listed count - 648
- Followers_count - **6864 (highest)**
- Mean Retweet_count for 22 urls - 88
- ~960K tweets
- Mean retweets overall - ~54

Based on mean retweet count for 22 urls



Based on mean retweet count for 22 urls

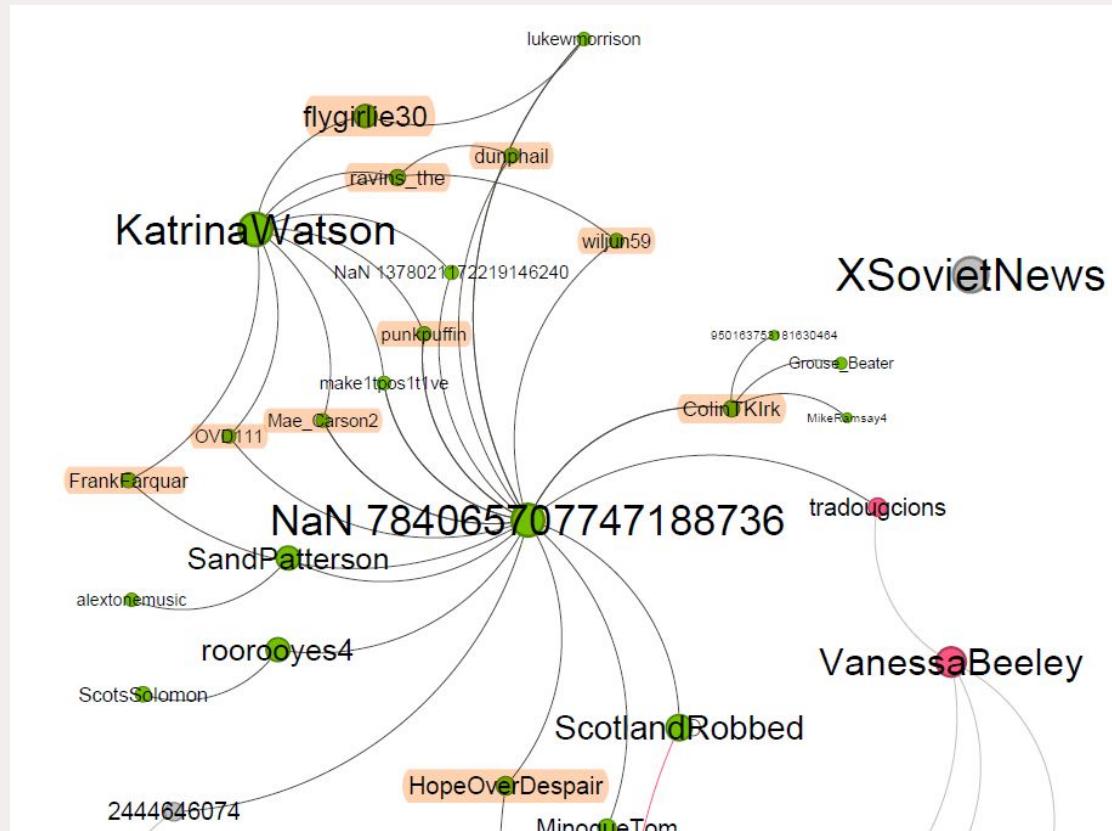
SevenRakheshJag

- Followers_count - 487
- Mean Retweet_count for 22 urls - 160
- ~9.4 K tweets

helenaesimon

- Followers_count - 3.8K
- Mean Retweet_count for 22 urls - 160
- ~83 K tweets

Based on mean toxicity for 22 urls ($>=0.3$)



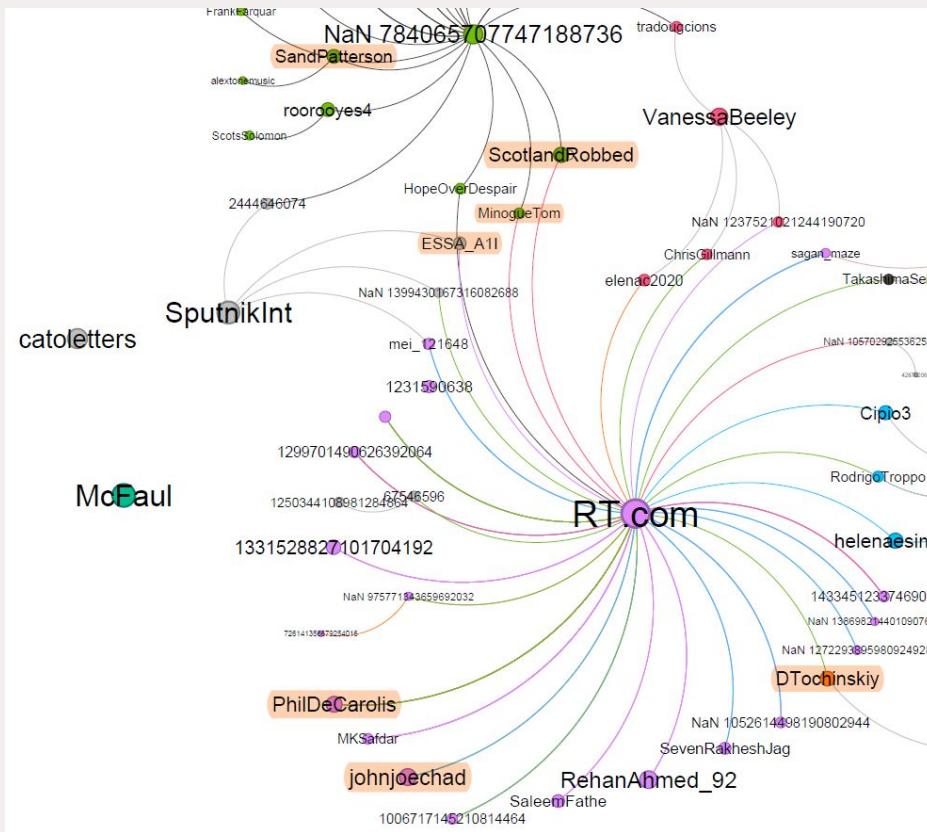
Based on mean toxicity for 22 urls (>=0.3)

	author_id	username	retweet_count	followers_count	following_count	listed_count	tweet_count	mean_toxicity
19	82855734	dunphail	12.000000	1444.0	1798.0	15.0	48338.0	0.626768
16	795787306762375168	OVD111	28.000000	1771.0	2098.0	1.0	100068.0	0.604728
27	1245839577841090560	ravins_the	33.000000	714.0	747.0	0.0	15348.0	0.519298
21	558092498	wiljun59	40.000000	1374.0	1578.0	5.0	86816.0	0.436069
12	60368737	FrankFarquar	40.000000	2356.0	2744.0	82.0	163871.0	0.402446
11	3340908196	Mae_Carson2	32.333333	2565.0	378.0	99.0	655361.0	0.393941
13	4703012924	ColinTKirk	35.000000	2295.0	1739.0	14.0	71895.0	0.379053
31	4056394833	HopeOverDespair	28.000000	429.0	577.0	0.0	39707.0	0.374199
10	384287282	punkpuffin	34.333333	2712.0	1988.0	10.0	380520.0	0.348501
3	1047079814358814720	flygirlie30	17.000000	4363.0	5001.0	7.0	173799.0	0.302497

Based on No of followers

	author_id	username	retweet_count	followers_count	following_count	listed_count	tweet_count	mean_toxicity
0	159095242	johnjoechad	88.200000	6864.0	7550.0	648.0	958609.0	0.074427
1	19819733	ScotlandRobbed	48.666667	5325.0	5848.0	117.0	406508.0	0.096756
2	38851727	SandPatterson	17.000000	4452.0	3053.0	73.0	157987.0	0.298877
3	1047079814358814720	flygirlie30	17.000000	4363.0	5001.0	7.0	173799.0	0.302497
4	67860334	helenaesimon	153.000000	3776.0	4950.0	3.0	83236.0	0.078462
5	20715638	PhilDeCarolis	69.125000	3472.0	34.0	1245.0	1682576.0	0.055983
6	516788863	ESSA_A1I	86.000000	3449.0	1286.0	30.0	69228.0	0.073153
7	1852055082	MinogueTom	72.500000	3369.0	3659.0	21.0	52641.0	0.106016
8	3300720066	AltemusFrances	109.250000	3188.0	3090.0	118.0	304690.0	0.070342
9	26123893	DTochinskiy	74.500000	3073.0	3218.0	7.0	129025.0	0.083616

Based on No of followers



Deleted Accounts

Top 12 Highest retweet count accounts

	author_id	username	retweet_count	followers_count	following_count	listed_count	tweet_count	toxicity	mean_toxicity
0	1272293895980924928	None	189.000000	NaN	NaN	NaN	NaN	0.492608	0.085412
1	1386982144010907648	None	173.333333	NaN	NaN	NaN	NaN	0.462234	0.062041
2	1006717145210814464	None	160.000000	NaN	NaN	NaN	NaN	0.375757	0.052108
3	1293321558732099584	None	159.666667	NaN	NaN	NaN	NaN	0.334688	0.046736
4	1052614498190802944	None	152.250000	NaN	NaN	NaN	NaN	0.377991	0.101549
5	1299701490626392064	None	144.000000	NaN	NaN	NaN	NaN	0.278937	0.061437
6	1331528827101704192	None	131.500000	NaN	NaN	NaN	NaN	0.379188	0.082894
7	1057029255362531328	None	122.000000	NaN	NaN	NaN	NaN	0.069754	0.069782
8	975771343659692032	None	113.500000	NaN	NaN	NaN	NaN	0.234088	0.106761
9	1237521021244190720	None	89.500000	NaN	NaN	NaN	NaN	0.492790	0.077474
10	1399430167316082688	None	67.500000	NaN	NaN	NaN	NaN	0.331619	0.076902
11	1378021172219146240	None	25.000000	NaN	NaN	NaN	NaN	0.268677	0.147363

Jhagrut Lalwani

End