

3 Years of iDrama: Data-Driven Studies of Fringe Communities on the Web

Emiliano De Cristofaro



IDRAMA LAB



Outline

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1. Hate on and “raids” from fringe communities like 4chan
2. Influence of fringe communities on misinformation
3. Studying weaponized memes

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1. Hate on and “raids” from fringe communities like 4chan
2. Influence of fringe communities on misinformation
3. Studying weaponized memes

More work on online hate, cyberbullying, state-sponsored trolls, etc: <https://emilianodc.com/idrama>

WARNING

CONTENT IN THIS TALK IS

***OFFENSIVE
AND UNCENSORED***

What is 4chan?



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An image-board forum

Organized in boards (70 at the moment)

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An “original poster” (OP) creates a new thread by making a post

Single image attached

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Single image attached

Other users can reply:

With or without images, possibly add references to previous posts, quote text, etc.

What is 4chan?



An image-board

Organized in boards

An “original post”

Single image a reply

Other users can reply

With or without moderation

Boards					filter ▾
<u>Japanese Culture</u>	<u>Interests</u>	<u>Creative</u>	<u>Other</u>	<u>Adult (NSFW)</u>	
Anime & Manga	Comics & Cartoons	Oekaki	Business & Finance	Sexy Beautiful Women	
Anime/Cute	Technology	Papercraft & Origami	Travel	Hardcore	
Anime/Wallpapers	Television & Film	Photography	Fitness	Handsome Men	
Mecha	Weapons	Food & Cooking	Paranormal	Hentai	
Cosplay & EGL	Auto	Artwork/Critique	Advice	Ecchi	
Cute/Male	Animals & Nature	Wallpapers/General	LGBT	Yuri	
Flash	Traditional Games	Literature	Pony	Hentai/Alternative	
Transportation	Sports	Music	Current News	Yaoi	
Otaku Culture	Alternative Sports	Fashion	Worksafe Requests	Torrents	
<u>Video Games</u>	Science & Math	3DCG	Very Important Posts	High Resolution	
Video Games	History & Humanities	Graphic Design	<u>Misc. (NSFW)</u>	Adult GIF	
Video Game Generals	International	Do-It-Yourself	Random	Adult Cartoons	
Pokémon	Outdoors	Worksafe GIF	ROBOT9001	Adult Requests	
Retro Games	Toys	Quests	Politically Incorrect		
			International/Random		
			Cams & Meetups		
			Shit 4chan Says		

Heard of 4chan?

Heard of 4chan?

He

I CAN HAS
CHEEZBURGER?



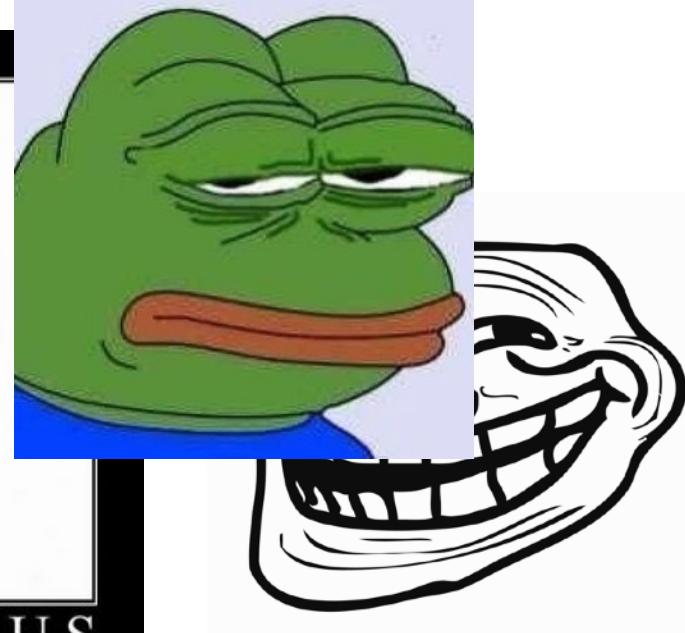
He



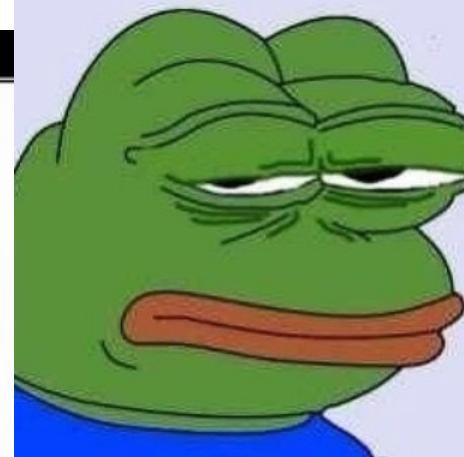
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He



He





WHERE DID EVERYTHING
GO SO REICH



Why Do We Care About 4Chan?

Why Do We Care About 4Chan?

How a racist, sexist hate mob forced Leslie Jones off Twitter

By Kristen V. Brown



f SHARE | t TUMBLR | e EMAIL

Over the past 24 hours, Leslie Jones has been inundated with racist, hateful vitriol on Twitter.

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TAYWARD YOUTH 3/24/16 3:10 PM

Who turned Microsoft's chatbot racist? Surprise, it was 4chan and 8chan

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BUSINESS

French fear Putin and Trump followers are using 4chan to disrupt presidential election

CHRIS O'BRIEN @OBRIEN MAY 5, 2017 3:40 AM

TAYWARD YOUTH 3/24/16 3:10 PM

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Why
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CHRIS O'BRIEN @OBRIEN MAY 5, 2017 3:40 AM

#MediasNextTrumpLie:
Inside 4chan's pro-Trump
spam campaign to derail
the media



By Melanie Ehrenkranz
October 14, 2016

GET MIC
DAILY:

Enter your email address

Sign up

/pol/ – Politically Incorrect Board

/pol/ – Politically Incorrect Board



Welcome to /pol/ - Politically Incorrect

Anonymous (ID: lv9eTFJC) 01/08/15(Thu)23:40:44 No.40489590  
[Reply] ►

This board is for the discussion of news, world events, political issues, and other related topics.

Off-topic and /b/-tier threads will be deleted (and possibly earn you a ban, if you persist). Unless they are quality, well thought out, well written posts, the following are examples of off-topic and/or /b/-tier threads:

- >Red pill me on X. (with no extra content or input of your own)
 - >Are X white?
 - >Is X degeneracy?
 - >How come X girls love Y guys so much?
 - >If X is true, then how come Y? Checkmate Z.

The variety of threads allowed here are very flexible and we believe in freedom of speech, but we expect a high level of discourse befitting of the board. Attempts to disrupt the board will not be tolerated, nor will calls to disrupt other boards and sites.

/pol/ – Politically Incorrect Board

File: [sticky.jpg](#) (571 KB, 1600x1131)



thou shall not commit logical fallacies

- >Red pill me on X. (with no extra context)
- >Are X white?
- >Is X degeneracy?
- >How come X girls love Y guys so much?
- >If X is true, then how come Y? Check

The variety of threads allowed here are very flexible, ranging from serious political discourse to humor. A high level of discourse befitting of the board. Attempts to disrupt other boards and sites.

Welcome to /pol/ – Politically Incorrect

A place where you can discuss

This issue

and more

01/01/2017

01/01/2017

01/01/2017

01/01/2017

01/01/2017

01/01/2017

01/01/2017

01/01/2017

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Extremely lax moderation

Almost anything goes

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Anonymity & Ephemerality

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Users do not need to register an account to participate

Anonymity is the default (and preferred) behavior

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Can enter a name along with their posts (no authentication though)

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Threads get “archived” after a while

Actually all posts deleted after a week

Challenges of Measuring 4chan (and other fringe communities)

1. Not your typical social network (anonymous/ephemeral)
2. Their actions not limited to 4chan, need to look at other platforms to measure their impact
3. Knowing what they're talking about is not easy
4. You might get raided, doxxed, etc.
5. Protecting your students

Datasets

	/pol/	/sp/	/int/	Total
Threads	217K	14.4K	24.9K	256K
Posts	8.3M	1.2M	1.4M	10.9M
June 30 to September 12, 2016				

Datasets

Methodology:

Visit the “catalog”

Snapshot every 5 mins

Once a thread is archived, retrieve full/final contents from 4plebs.org

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We're still crawling...

Hate Speech?



Crowdsourced dictionary
Manually filtered a bit

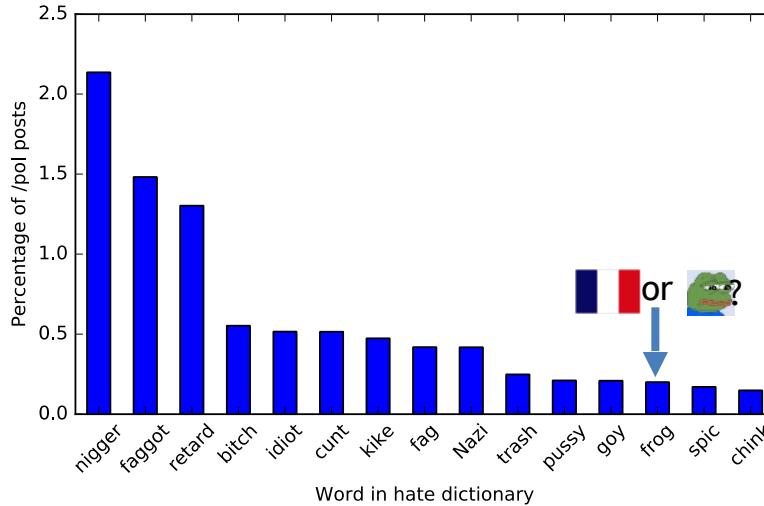
/pol/ by far most
hate speech use

/pol/ 12%

/sp/ 7.3%

/int/ 6.3%

Twitter 2.2%



Raids on other platforms (e.g., YouTube)

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Someone posts a YouTube link

Maybe with a prompt like “you know what to do”

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Thread is an aggregation point for raiders

E.g., “Hah! I called that person a nigger!”

Raids on other platforms



A Measurement Study of 4chan's Politically Incorrect Forum and Its Effects on the Web



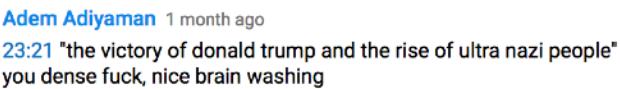
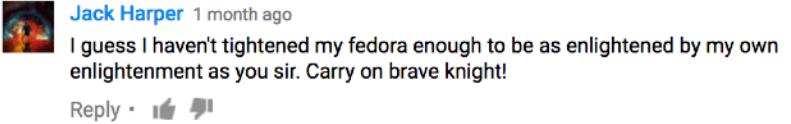
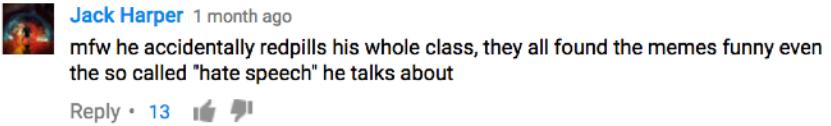
11,013 views

80 526

Add to Share More



[View all 3 replies](#)



[View all 16 replies](#)



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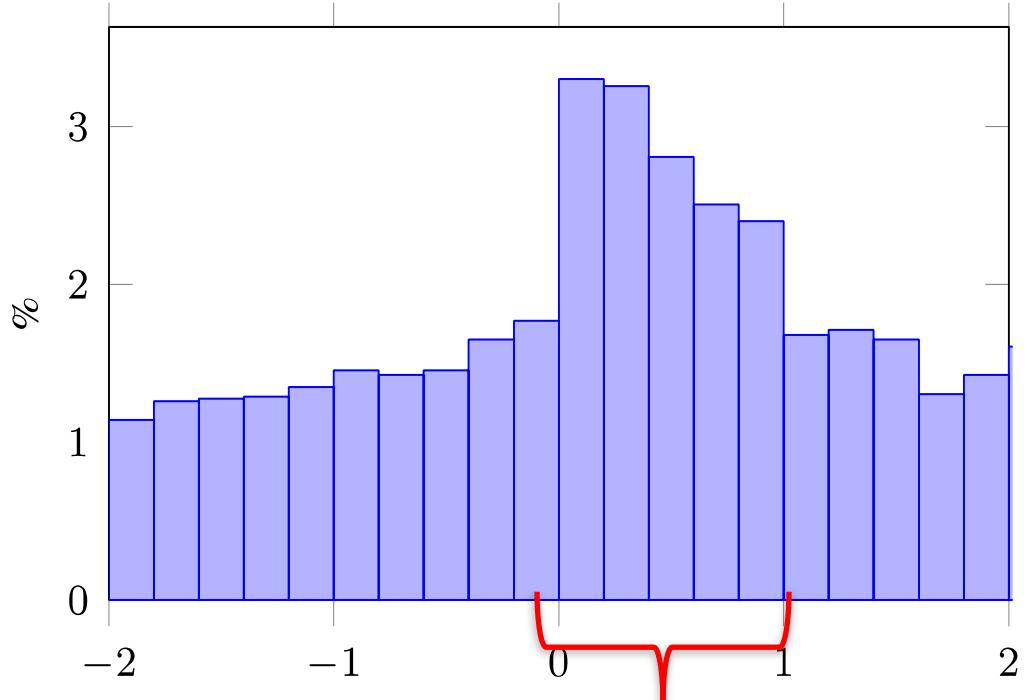
E.g., “Hah! I called that person a nigger!”

If raid is taking place:

Peak in YouTube comments while thread alive?

/pol/ thread and YT comments *synchronized*?

Activity Peaks



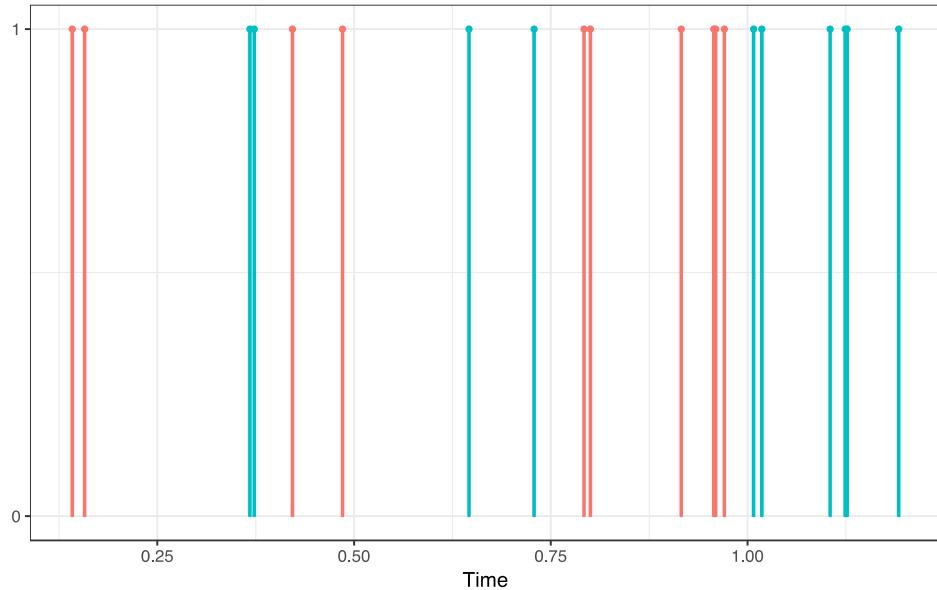
YT videos with peaks during
4chan thread

Determined via PDF of
commenting timeseries

14% of videos see peak
commenting activity during /
pol/ thread lifetime

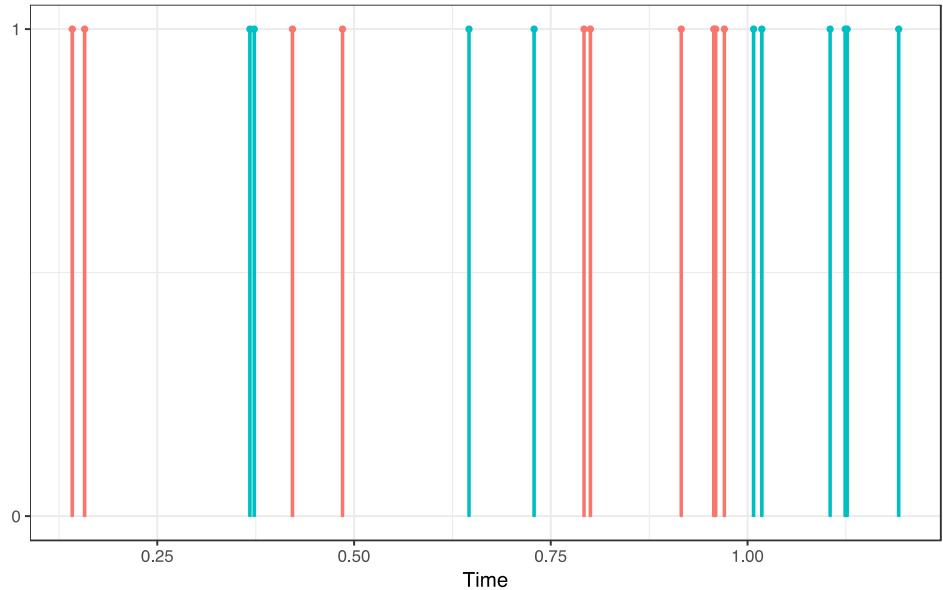
Synchronization

Synchronization

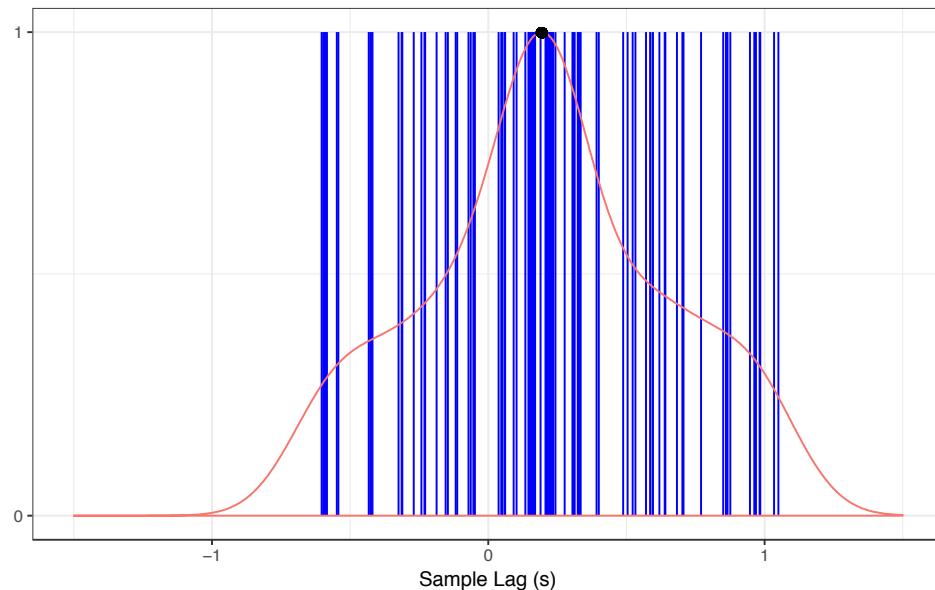


Two series, second randomly shifted from
first by 0.2s on avg

Synchronization

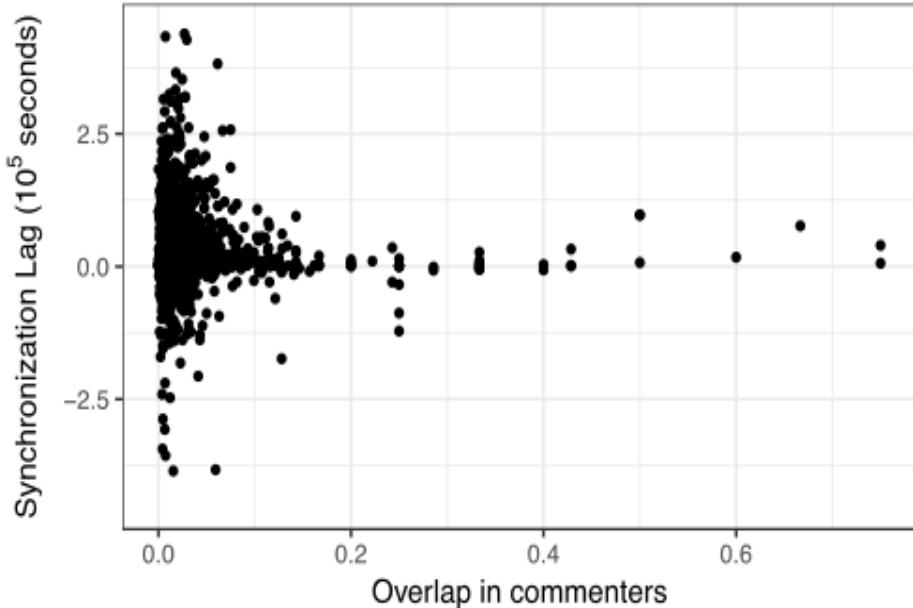
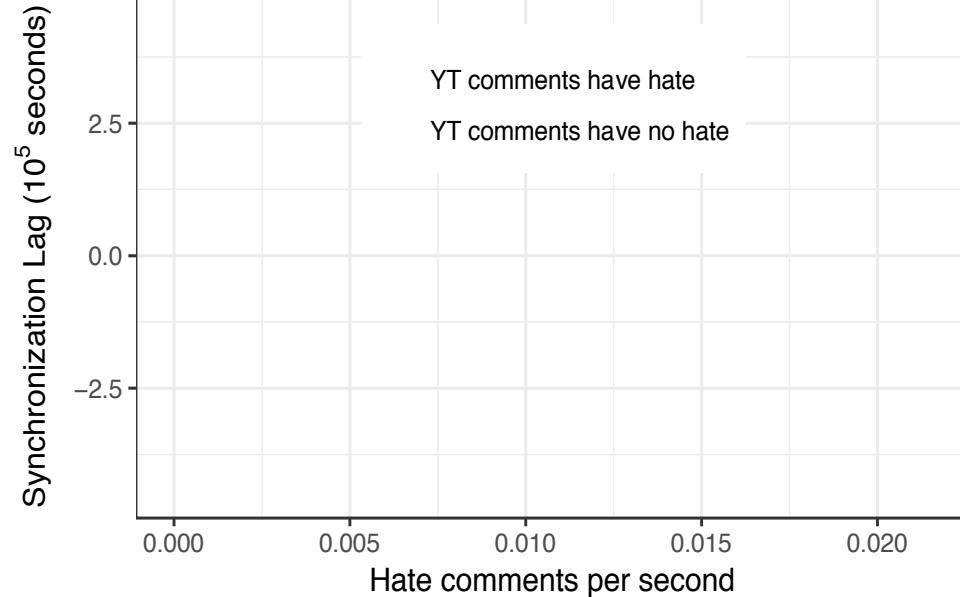


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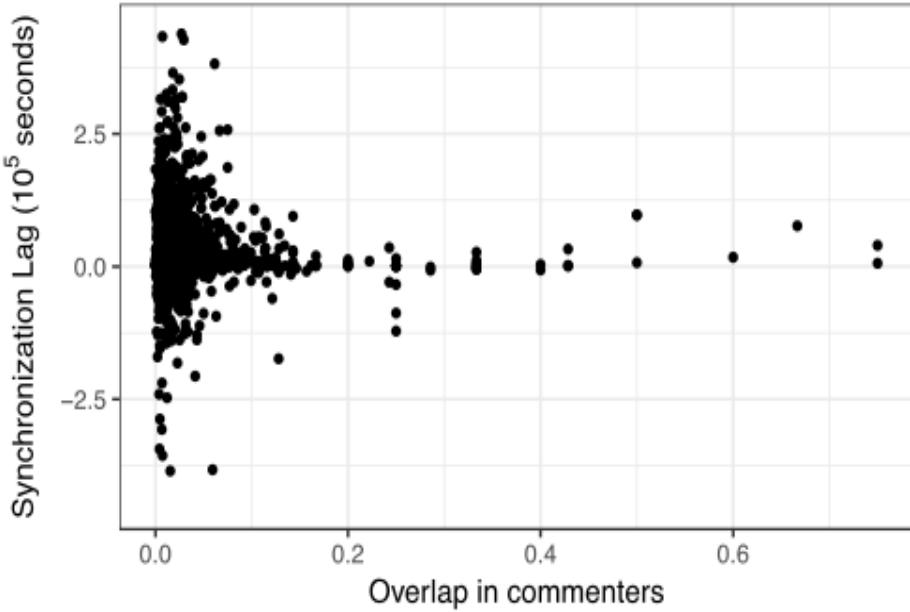
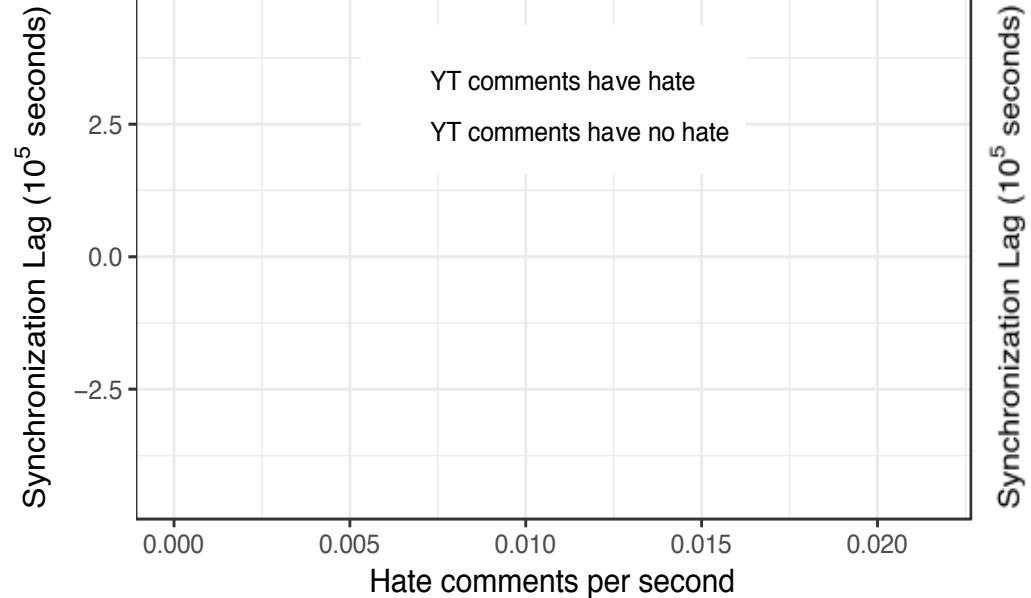


Blue lines → per-sample lag
Red area → density of the lags
Peak of density curve = 0.2s

Validation



Validation



Anonymous (ID: DaWZlbeh)

10/13/16(Thu)20:08:55 No.92772435 ►

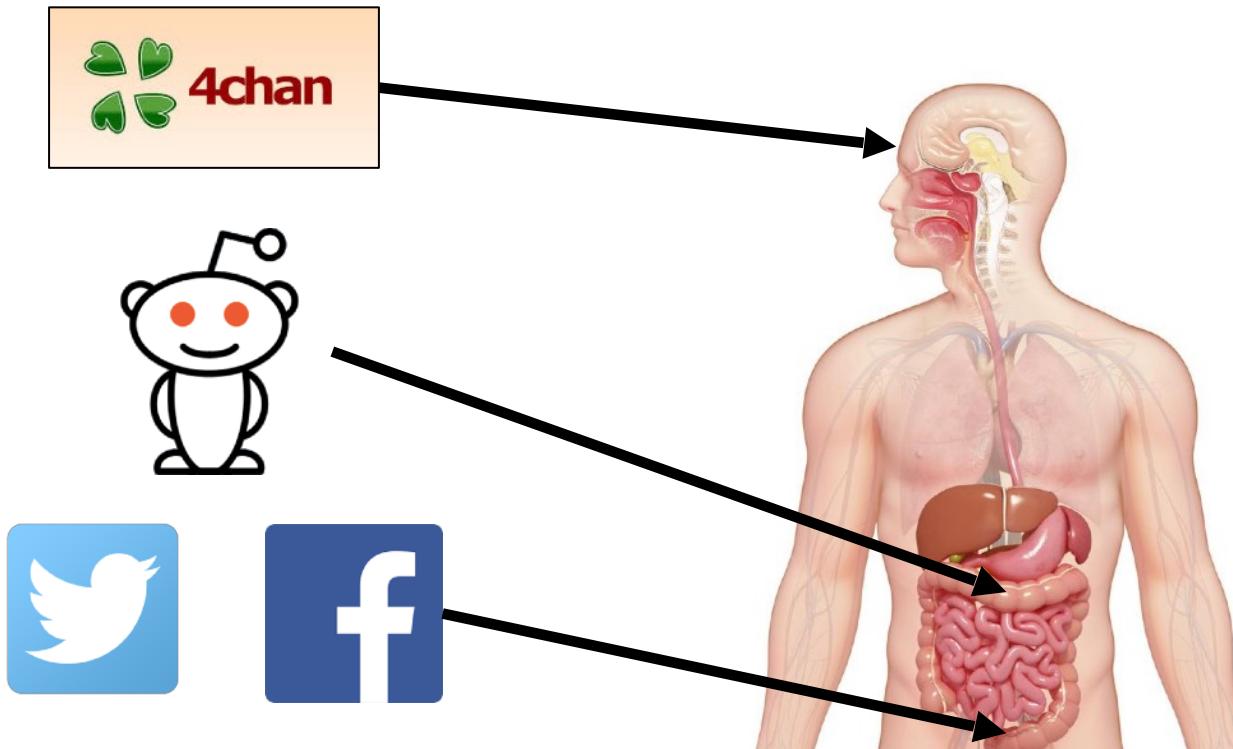
>>92765569

Physicist finalist here, can confirm the maths is legitimate. Holy fuck

Outline

1. Hate on and “raids” from fringe communities like 4chan
- 2. Influence of fringe communities on misinformation**
3. Studying weaponized memes

Can We Quantify How Rest of Web is Affected?



4chan →
Twitter

[View Same](#) [Google](#) [iqdb](#) [SauceNAO](#) C58mabBXEAEm6iY.jpg, 46KiB, 497x503

Anonymous ID:Cgs1YKTD Fri 03 Mar 2017 00:38:09 No.114985529 [View](#) [Report](#)



Here is picture of Senator Chuck Schumer having coffee and donuts with Vladimir Putin.

We need to investigate this meeting and any Russian ties with Chuck.

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Twitter

[View Same](#) [Google](#) [iqdb](#) [SauceNAO](#) [C58mabBXEAEm6iY.jpg](#), 46KiB, 497x503

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We need to investigate this meeting and any Russian ties with Chuck.

Donald J. Trump [@realDonaldTrump](#) [Following](#) [▼](#)

We should start an immediate investigation into [@SenSchumer](#) and his ties to Russia and Putin. A total hypocrite!



9:54 AM - 3 Mar 2017

54,218 Retweets 148,062 Likes





Donald J. Trump 
@realDonaldTrump

 Follow

#FraudNewsCNN #FNN

4:21 PM - Jul 2, 2017

 141,936  368,969  605,362



Donald J. Trump 
@realDonaldTrump

#FraudNewsCNN #FNN

4:21 PM - Jul 2, 2017

141,936 368,969 605,362



EXPLAINERS POLITICS & POLICY WORLD CULTURE SCIENCE & HEALTH IDENTITIES MORE ▾



Trump's anti-CNN tweet originated from Reddit's largest right-wing extremist forum

Regardless of his intentions, Trump's tweet aligned him with violent hate speech.

Updated by Aja Romano | @ajaromano | Jul 3, 2017, 5:00pm EDT

Reddit →
Twitter

The Pizzagate Conspiracy Theory

The saga of 'Pizzagate': The fake story that shows how conspiracy theories spread



By BBC Trending
What's popular and why

⌚ 2 December 2016



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Data
Provider

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Data
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Theory
Generator

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Data Provider



Theory Generator



Theory Incubators &
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⌚ 2 December 2016

f t m Share



Data Provider



Theory Generator



Theory Incubators & Gateway to mainstream “world”



Large-scale Disseminator

Oh Hey... It's 4chan Again...

Oh Hey... It's 4chan Again...

OUR PICKS LATEST POPULAR

QUARTZ

OBSSESSIONS

PROOF OF LIFE

Fake news of a fatal car crash wiped out \$4 billion in ethereum's market value yesterday



Alive and well. (John Phillips/Getty Images for TechCrunch)

SHARE [Twitter](#) [Facebook](#) [LinkedIn](#) [Email](#)

"Vitalik Buterin confirmed dead. Insiders unloading ETH" read the [title of the post](#) on 4Chan, the notorious online message board frequented by internet trolls. "Fatal car crash," it went on. "Now we have our answer. He was the glue."

WRITTEN BY [Jacobian Wang](#)

Oh Hey... It's 4chan Again...

OUR PICKS | LATEST | POPULAR

QUARTZ

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WRITTEN BY [Jacob Ian Wang](#)

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OCTOBER 3 2017

Las Vegas shooting: How 4Chan, far-right trolls named the wrong man

Abby Ohlheiser

Geary Danley was not the gunman in Las Vegas who killed at least 50 people late Sunday. But for hours on the far-right internet, would-be sleuths scoured Danley's Facebook likes, family photographs and marital history to try to "prove" that he was.

MOST POPULAR

- 1 Mystery space object may be first confirmed interstellar visitor
- 2 Federal charges filed in Russia influence probe

Oh Hey... It's 4chan Again...

OUR PICKS | LATEST | POPULAR

QUARTZ

OCTOBER 3 2017

SAVE | PRINT

PROOF OF LIFE

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A live and well. (John Phillips/Getty Images for TechCrunch)

SHARE

WRITTEN BY Jacobian Wang

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Las Vegas shooting: How 4Chan, far-right trolls named the wrong man

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Geary Danley

geary danley

All Maps News Images Shopping More Settings Tools

About 76,300 results (0.23 seconds)

Top stories

Geary Danley

/pol/ - GEARY DANLEY!! - Politically Incorrect - 4chan

4Chan · 1 hour ago

50 dead, 200 injured in Las Vegas shooting

Press TV · 19 mins ago

/pol/ - Vegas happening thread scannersstreams: https:// - Politically...

4Chan · 2 hours ago

More for geary danley

Idea...

Idea...

Study the appearance of alternative and mainstream news URLs
within the platforms

Idea...

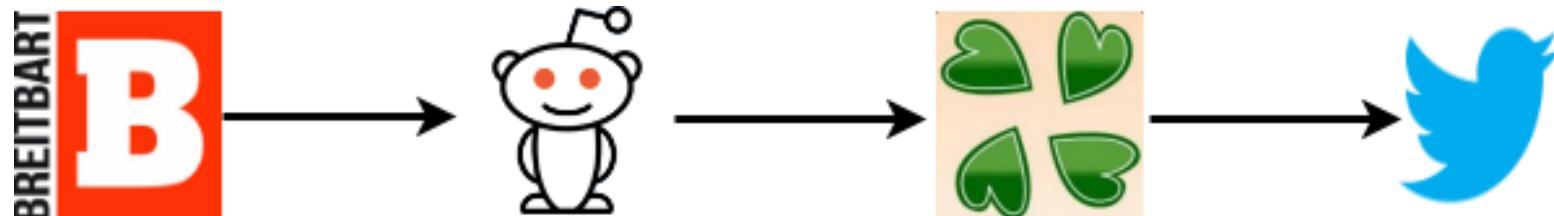
Study the appearance of alternative and mainstream news URLs within the platforms

Build a sequence of appearance for each URL according to the timestamps

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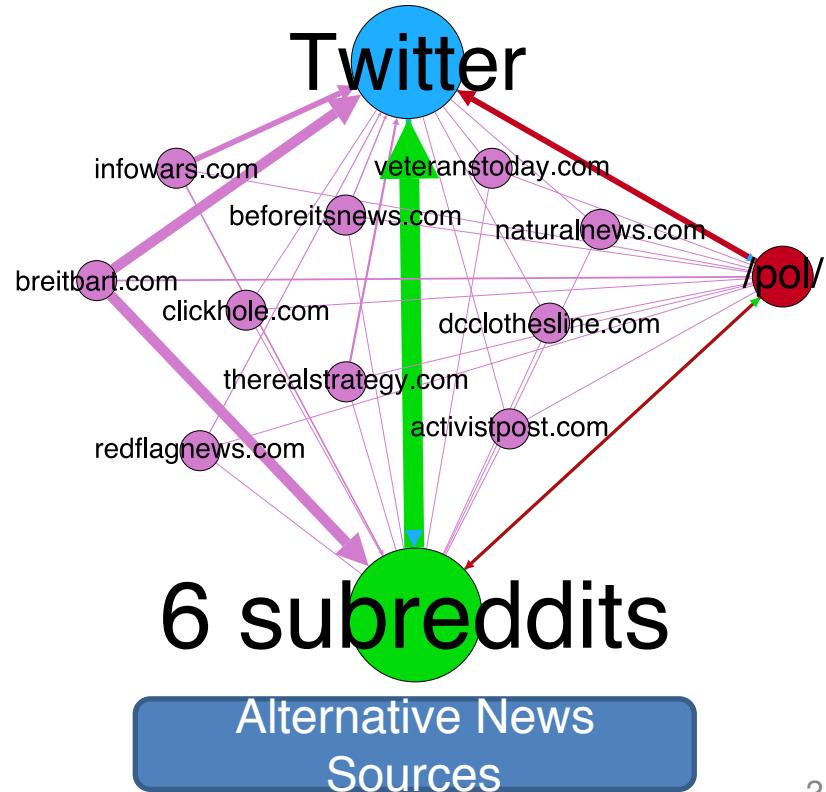
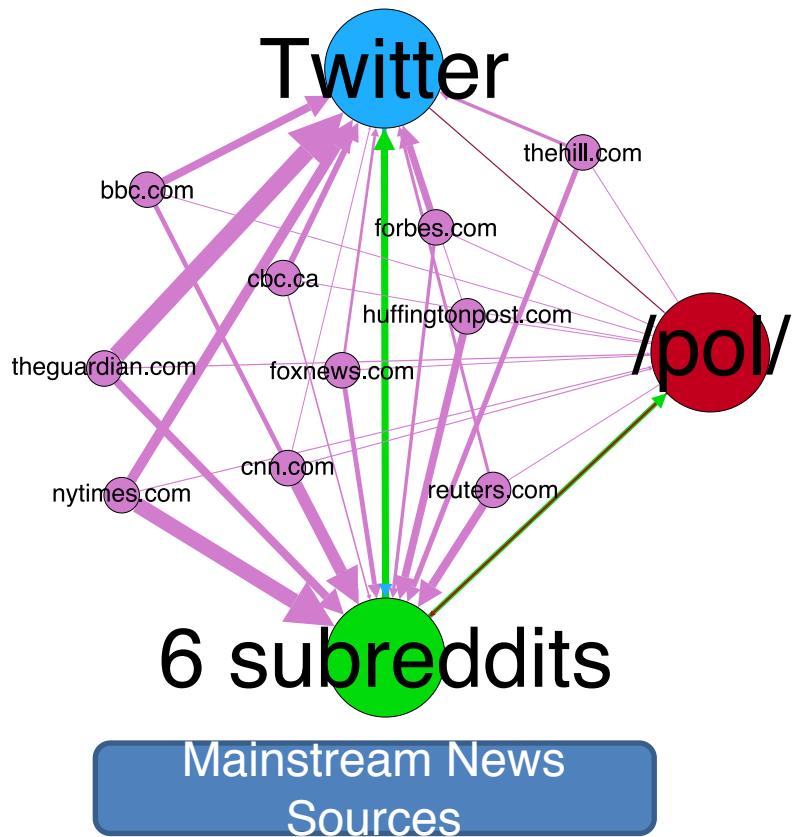
Build a graph with the sequences

The Data

99 mainstream and alternative (“fake”) news sources

Platform	Posts/Comments	Alternative URLs	Mainstream URLs
Twitter	486K	42K	236K
Reddit (six selected subreddits)	620K	40K	301K
4chan (/pol/)	90K	9K	40K

Here's What The Graph Looks Like



Quantify Influence? Hawkes Processes!

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Assume K processes

Each with a rate of events (i.e., posting of a URL), called the *background rate*

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An event can cause **impulse responses** in other processes

Increases the rates of other processes for a period of time

Quantify Influence? Hawkes Processes!

Assume K processes

Each with a rate of events (i.e., posting of a URL), called the *background rate*

An event can cause **impulse responses** in other processes

Increases the rates of other processes for a period of time

Enables us to be confident about the number of events caused by another event on the source process (weight)

Reveals causal relationships

For Our Purposes...

Hawkes model with 8 processes

One for each platform/community

Distinct model for each URL

Fit each model with Gibbs sampling

Calculate the percentage of events **created because** of events happened in each of the other processes

How Communities Influence Each Other?

Twitter top influencers for alternative URLs

- /r/The_Donald (2.72%)
- /pol/ (1.96%)
- /r/politics (1.1%)

Twitter top influencers for mainstream URLs

- /r/politics (4.29%)
- /pol/ (3.01%)
- /r/The_Donald (2.97%)

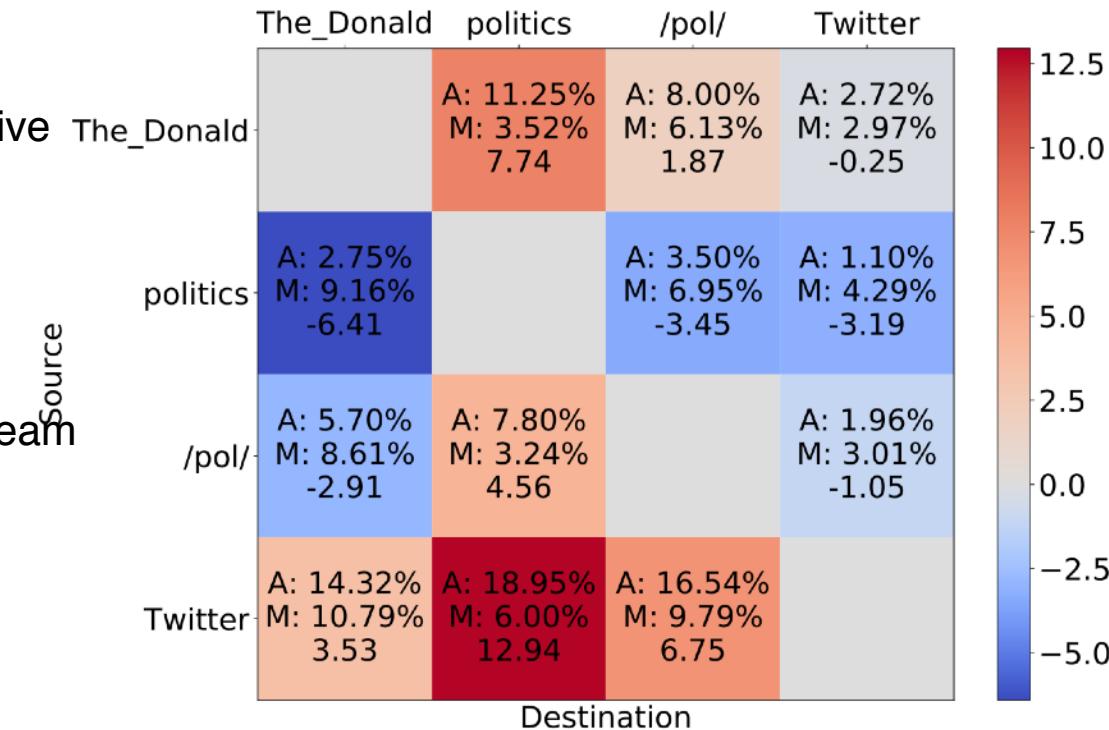
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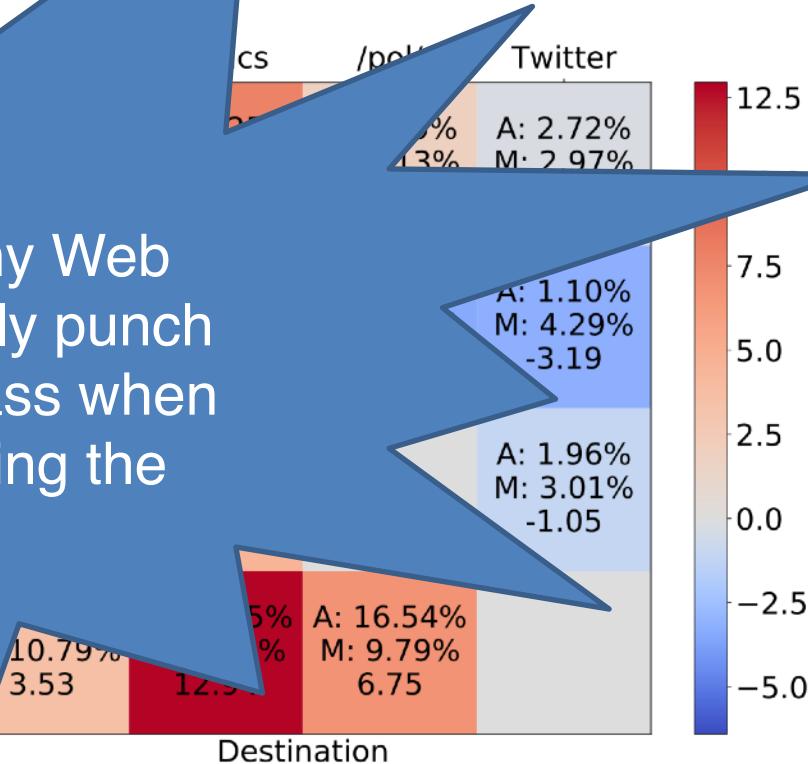
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How Communities Influence Each Other?

Twitter top influencer URLs

These seemingly tiny Web communities can really punch above their weight class when it comes to influencing the greater Web



Outline

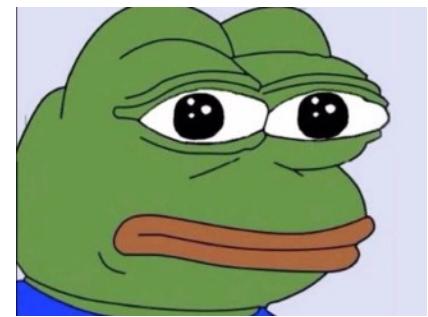
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Memes are fun!

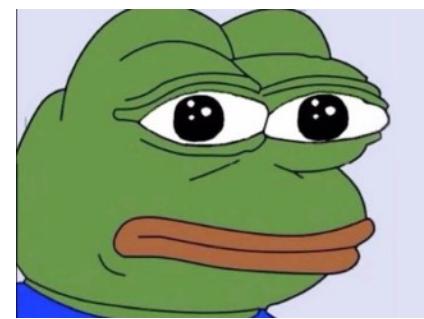


Memes are fun!

Not always though...



Not always though...



Not always though...



Not always though...

[US midterms 2018](#) [Business](#) [Tech](#) [Science](#)

Annotated: the Trump memes stuck to Cesar Sayoc's van

The vehicle seized by law enforcement in Florida was covered in strange propaganda



▲ Cesar Sayoc's van is seen in Boca Raton, Florida, on 18 October 2018 in this picture obtained from social media.
Photograph: Social Media/Ed Kennedy via Reuters

most viewed in US



Pittsburgh synagogue shooting: suspect held after at least four killed



'I bet \$500 they are lying': Trump fans sceptical about pipe bomb arrest



'Why is that racist?' Trump greets young black leaders with freewheeling rant



Barack Obama takes aim at Donald Trump for 'making stuff up'



Muncy hits walk-off homer as Dodgers win longest ever World Series game



Sport

Culture

Lifestyle

More ▾

US midterms 2018 Business Tech Science

Annotated
to Cesar Sayoc

Trump m

Memes have become a popular,
and seemingly effective, method
to transmit ideology.

Memes have been *weaponized*



▲ Cesar Sayoc's van is seen in Boca Raton, Florida, on 18 October 2018 in this picture obtained from social media.
Photograph: Social Media/Ed Kennedy via Reuters

The Guardian

Post vi

gh synagogue

sceptical about
ist

young black leaders
wheeling rant



Donald Trump is going
stuff up'

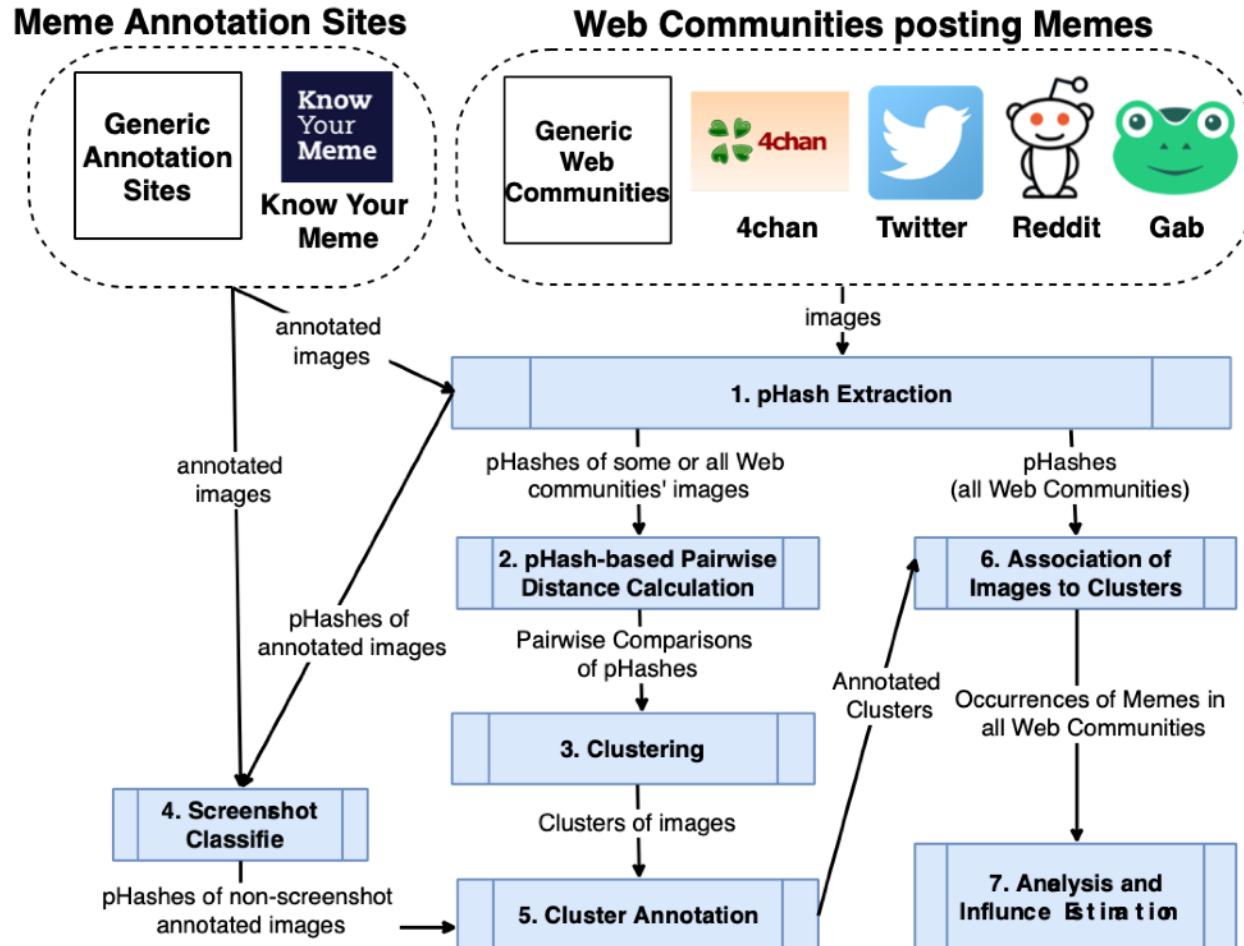


Muncy hits walk-off homer as
Dodgers win longest ever
World Series game

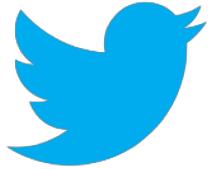
Research Questions

- How can we track meme propagation across Web communities?
- How can we characterize variants of the same meme?
- Can we characterize Web communities through their memes?
- Can we measure the influence of Web communities with respect to memes they share?

Memes processing pipeline



Datasets



# of posts	1.4B	1.0B	48M	12M	15K
# of posts with images	242M	62M	13M	955K	15K
# of Images	114M	40M	4M	235K	706K
# of unique pHashes	74M	30M	3M	193K	597K

Top memes per Web community

/pol/		Reddit		Gab		Twitter	
Entry	Posts (%)	Entry	Posts (%)	Entry	Posts (%)	Entry	Posts (%)
Feels Bad Man/Sad Frog	64,367 (4.9%)	Manning Face	12,540 (2.2%)	Jesusland (P)	454 (1.6%)	Roll Safe	55,010 (5.9%)
Smug Frog	63,290 (4.8%)	That's the Joke	7,626 (1.3%)	Demotivational Posters	414 (1.5%)	Evil Kermit	50,642 (5.4%)
Happy Merchant (R)	49,608 (3.8%)	Feels Bad Man/ Sad Frog	7,240 (1.3%)	Smug Frog	392 (1.4%)	Arthur's Fist	37,591 (4.0%)
Apu Apustaja	29,756 (2.2%)	Confession Bear	7,147 (1.3%)	Based Stickman (P)	391 (1.4%)	Nut Button	13,598 (1.5%)
Pepe the Frog	25,197 (1.9%)	This is Fine	5,032 (0.9%)	Pepe the Frog	378 (1.3%)	Spongebob Mock	11,136 (1.2%)
Make America Great Again (P)	21,229 (1.6%)	Smug Frog	4,642 (0.8%)	Happy Merchant (R)	297 (1.1%)	Reaction Images	9,387 (1.0%)
Angry Pepe	20,485 (1.5%)	Roll Safe	4,523 (0.8%)	Murica	274 (1.0%)	Conceited Reaction	9,106 (1.0%)
Bait this is Bait	16,686 (1.2%)	Rage Guy	4,491 (0.8%)	And Its Gone	235 (0.9%)	Expanding Brain	8,701 (0.9%)
I Know that Feel Bro	14,490 (1.1%)	Make America Great Again (P)	4,440 (0.8%)	Make America Great Again (P)	207 (0.8%)	Demotivational Posters	7,781 (0.8%)
Cult of Kek	14,428 (1.1%)	Fake CCG Cards	4,438 (0.8%)	Feels Bad Man/ Sad Frog	206 (0.8%)	Cash Me Ousside/Howbow Dah	5,972 (0.6%)
Laughing Tom Cruise	14,312 (1.1%)	Confused Nick Young	4,024 (0.7%)	Trump's First Order of Business (P)	192 (0.7%)	Salt Bae	5,375 (0.6%)
Awoo	13,767 (1.0%)	Daily Struggle	4,015 (0.7%)	Kekistan	186 (0.6%)	Feels Bad Man/ Sad Frog	4,991 (0.5%)
Tony Kornheiser's Why	13,577 (1.0%)	Expanding Brain	3,757 (0.7%)	Picardia (P)	183 (0.6%)	Math Lady/Confused Lady	4,722 (0.5%)
Picardia (P)	13,540 (1.0%)	Demotivational Posters	3,419 (0.6%)	Things with Faces (Pareidolia)	156 (0.5%)	Computer Reaction Faces	4,720 (0.5%)
Big Grin / Never Ever	12,893 (1.0%)	Actual Advice Mallard	3,293 (0.6%)	Serbia Strong/Remove Kebab	149 (0.5%)	Clinton Trump Duet (P)	3,901 (0.4%)
Reaction Images	12,608 (0.9%)	Reaction Images	2,959 (0.5%)	Riot Hipster	148 (0.5%)	Kendrick Lamar Damn Album Cover	3,656 (0.4%)
Computer Reaction Faces	12,247 (0.9%)	Handsome Face	2,675 (0.5%)	Colorized History	144 (0.5%)	What in tarnation	3,363 (0.3%)
Wojak / Feels Guy	11,682 (0.9%)	Absolutely Disgusting	2,674 (0.5%)	Most Interesting Man in World	140 (0.5%)	Harambe the Gorilla	3,164 (0.3%)
Absolutely Disgusting	11,436 (0.8%)	Pepe the Frog	2,672 (0.5%)	Chuck Norris Facts	131 (0.4%)	I Know that Feel Bro	3,137 (0.3%)
Spurdo Sparde	9,581 (0.7%)	Pretending to be Retarded	2,462 (0.4%)	Roll Safe	131 (0.4%)	This is Fine	3,094 (0.3%)
Total	445,179 (33.4%)		94,069 (16.7%)		4,808 (17.0%)		249,047 (26.4%)

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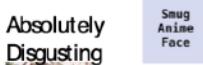
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Who are the most popular people in memes?

/pol/		Reddit		Gab		Twitter	
Entry	Posts (%)	Entry	Posts (%)	Entry	Posts (%)	Entry	Posts (%)
Donald Trump	60,611 (4.6%)	Donald Trump	34,533 (6.1%)	Donald Trump	1,665 (6.1%)	Donald Trump	10,208 (1.3%)
Adolf Hitler	8,759 (0.6%)	Steve Bannon	3,733 (0.6%)	Mitt Romney	455 (1.7%)	Barack Obama	5,187 (0.6%)
Mike Pence	4,738 (0.3%)	Stephen Colbert	3,121 (0.6%)	Bill Nye	370 (1.3%)	Chelsea Manning	4,173 (0.5%)
Jeb Bush	4,217 (0.3%)	Chelsea Manning	2,261 (0.4%)	Adolf Hitler	106 (0.4%)	Kim Jong Un	3,271 (0.4%)
Vladimir Putin	3,218 (0.2%)	Ben Carson	2,148 (0.4%)	Barack Obama	104 (0.4%)	Anita Sarkeesian	2,764 (0.3%)
Alex Jones	3,206 (0.2%)	Bernie Sanders	1,757 (0.3%)	Isis Daesh	92 (0.3%)	Bernie Sanders	2,277 (0.3%)
Ron Paul	3,116 (0.2%)	Ajit Pai	1,658 (0.3%)	Death Grips	91 (0.3%)	Vladimir Putin	1,733 (0.2%)
Bernie Sanders	3,022 (0.2%)	Barack Obama	1,628 (0.3%)	Eminem	89 (0.3%)	Billy Mays	1,454 (0.2%)
Massimo D'alema	2,725 (0.2%)	Gabe Newell	1,518 (0.3%)	Kim Jong Un	87 (0.3%)	Adolf Hitler	1,304 (0.2%)
Mitt Romney	2,468 (0.2%)	Bill Nye	1,478 (0.3%)	Ajit Pai	76 (0.3%)	Kanye West	1,261 (0.2%)
Chelsea Manning	2,403 (0.2%)	Hillary Clinton	1,468 (0.3%)	Pewdiepie	73 (0.3%)	Bill Nye	968 (0.2%)
Hillary Clinton	2,378 (0.2%)	Death Grips	1,463 (0.3%)	Bernie Sanders	71 (0.3%)	Mitt Romney	923 (0.1%)
A. Wyatt Mann	2,110 (0.2%)	Adolf Hitler	1,449 (0.3%)	Alex Jones	70 (0.3%)	Filthy Frank	777 (0.1%)
Ben Carson	1,780 (0.1%)	Mitt Romney	1,294 (0.2%)	Hillary Clinton	59 (0.2%)	Hillary Clinton	758 (0.1%)
Filthy Frank	1,598 (0.1%)	Eminem	1,274 (0.2%)	Anita Sarkeesian	54 (0.2%)	Ajit Pai	715 (0.1%)

Smug Anime Face He will not divide us Costanza DemotivationalPosters

Absolutely Disgusting



Polandball



Costanza



DemotivationalPosters



Doom Paul Its Happening



Forty Keks



Colbertposting



Make America Great Again



Computer Reaction Faces



Reaction Images



60's Spiderman



Sad Frog



Counter Signal Memes



Feels Good



I Know that Feel Bro



Angry Pepe



Laughing Tom Cruise



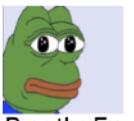
Donald Trump's Wall



Murica



Tony Kornheiser's Why



Pepe the Frog



Spurdo Sparde



Autistic Screeching



Smug Frog



Dubs/ Check'em



Apu Apustaja



This is bait.
Wojak/ Feels Guy



Bait this is Bait



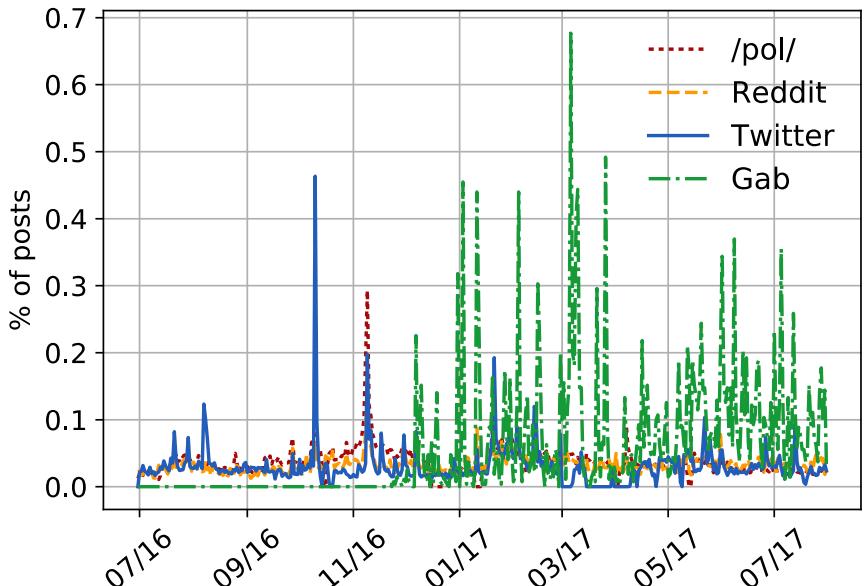
Into the Trash
it goes

Happy Merchant

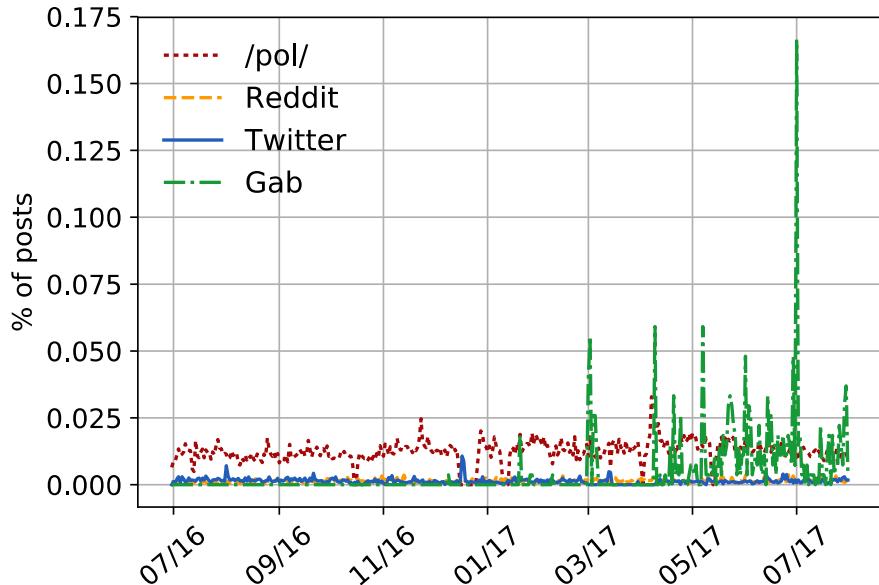


Baneposting

How are memes shared over time?

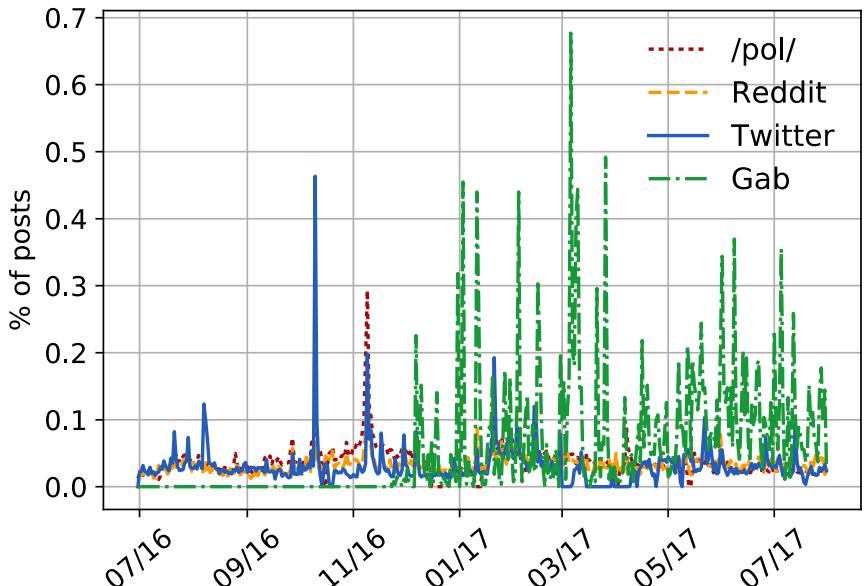


Political Memes

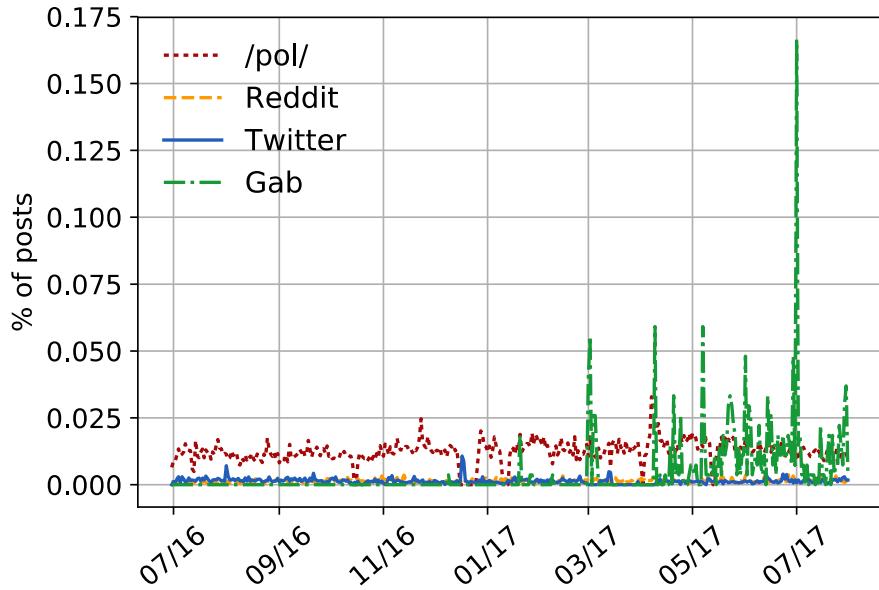


Racist Memes

How are memes shared over time?



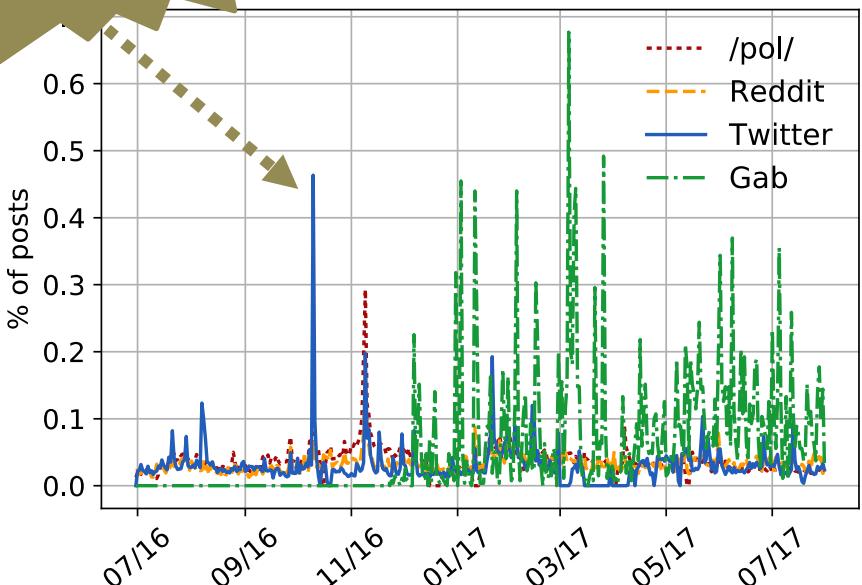
Political Memes



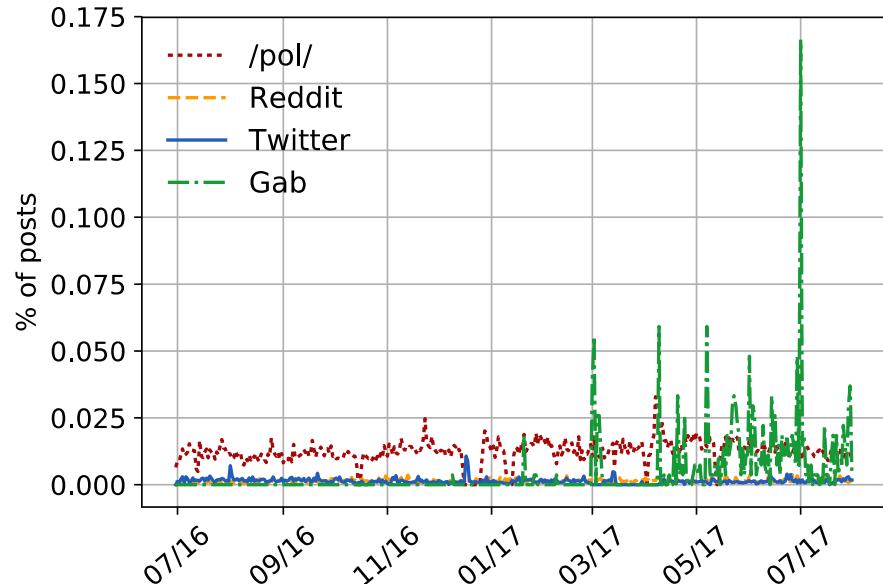
Racist Memes

How are memes shared over time?

2nd US
presidential
debate



Political Memes

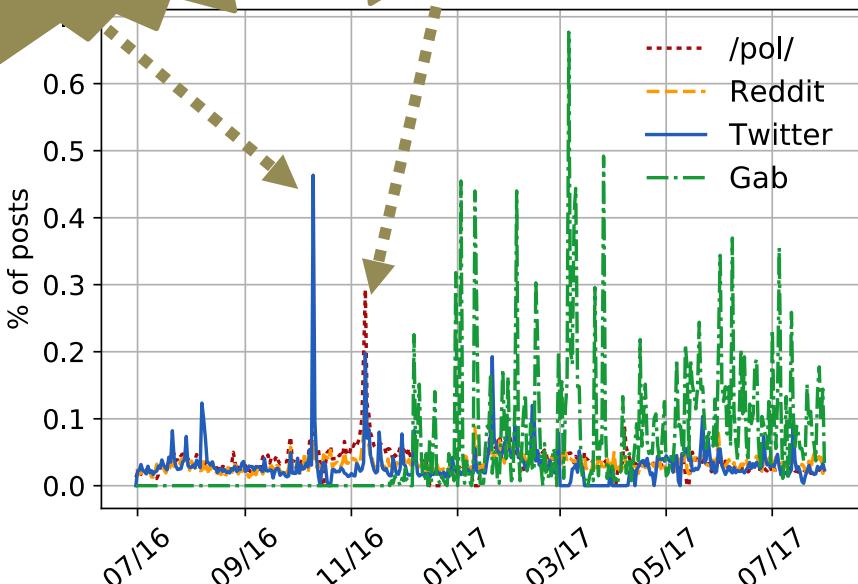


Racist Memes

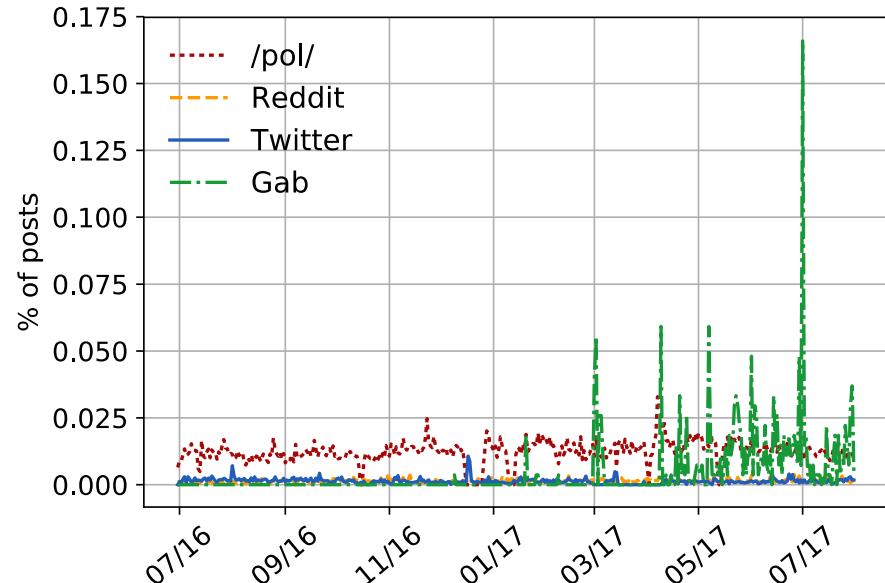
How are memes shared over time?

2nd US
presidential
debate

2016 US
elections



Political Memes



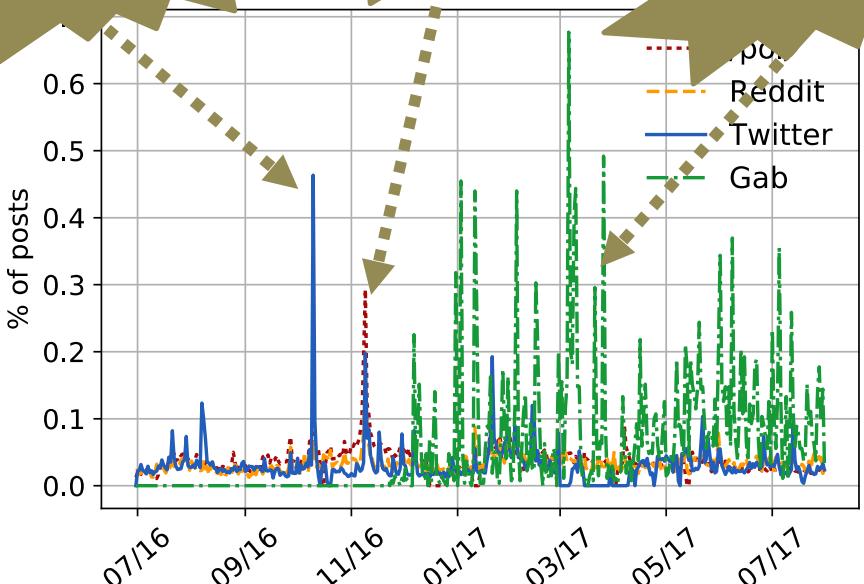
Racist Memes

How are memes shared over time?

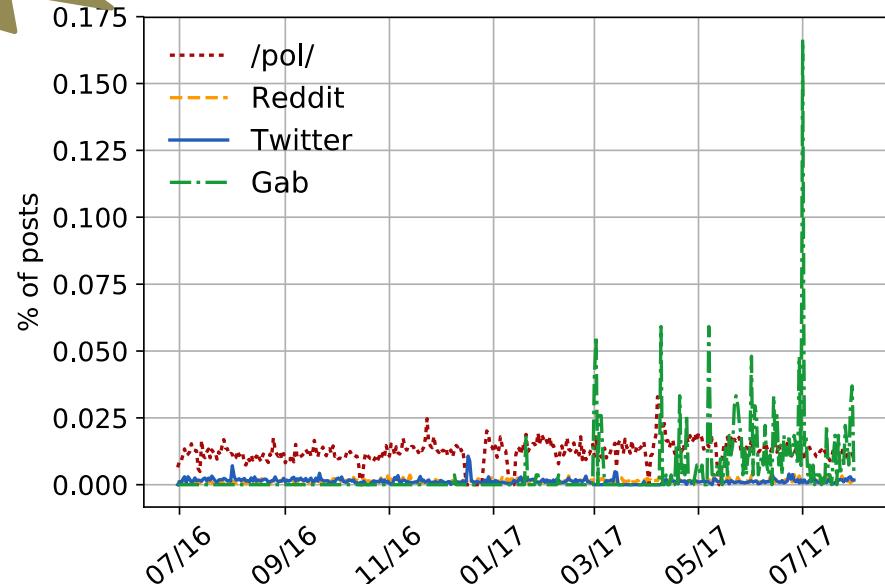
2nd US
presidential
debate

2016 US
elections

Gab activity
increase
2017



Political Memes



Racist Memes

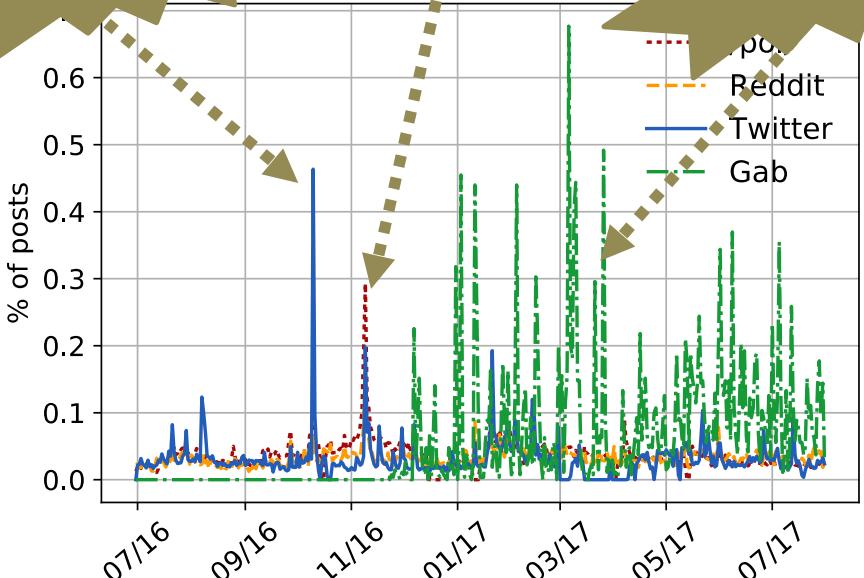
How are memes shared over time?

2nd US presidential debate

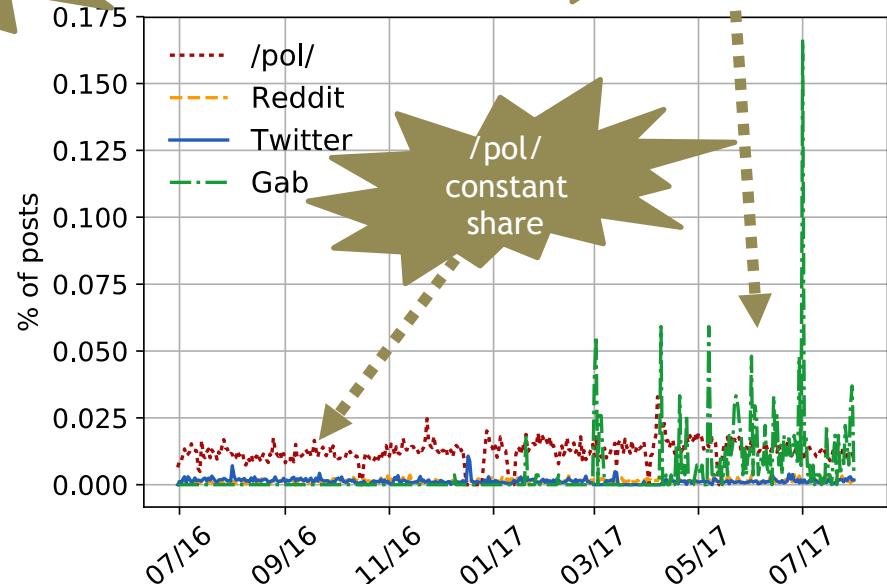
2016 US elections

Gab activity increase 2017

Gab activity increase in 2017



Political Memes



Racist Memes

Top subreddits

All Memes		Racism-Related Memes		Politics-Related Memes	
Subreddit	Posts (%)	Subreddit	Posts (%)	Subreddit	Posts (%)
The_Donald	82,698 (12.5%)	The_Donald	359 (9.3%)	The_Donald	24,343 (26.4%)
AdviceAnimals	35,475 (5.3%)	AdviceAnimals	87 (2.2%)	politics	2,751 (3.0%)
me_irl	15,366 (2.3%)	conspiracy	76 (2.0%)	EnoughTrumpSpam	2,679 (2.9%)
politics	8,875 (1.3%)	me_irl	70 (1.8%)	TrumpsTweets	2,363 (2.5%)
funny	8,508 (1.3%)	funny	56 (1.4%)	AdviceAnimals	1,740 (1.9%)
dankmemes	7,744 (1.1%)	CringeAnarchy	43 (1.1%)	USE2016	1,653 (1.8%)
EnoughTrumpSpam	6,973 (1.1%)	EDH	43 (1.1%)	PoliticsAll	1,401(1.5%)
pics	5,945 (0.9%)	magicTCG	42 (1.1%)	dankmemes	881 (0.9%)
AskReddit	5,482 (0.8%)	dankmemes	40 (1.0%)	pics	877 (0.9%)
HOTandTrending	4,674 (0.7%)	ImGoingToHellForThis	39 (1.0%)	me_irl	873 (0.9%)

Table 6: Top ten subreddits for all memes, racism-related memes, and politics-related memes.

Communities' influence (racist memes)

/pol/ is most influential in terms of spreading racist memes

		/pol/	Reddit	Twitter	Gab	T_D
Source	/pol/	R: 99.44% NR: 97.12%*	R: 6.89% NR: 3.95%*	R: 3.94% NR: 2.93%*	R: 18.93% NR: 12.91%	R: 14.17% NR: 16.41%*
	Reddit	R: 0.29% NR: 1.28%*	R: 88.95% NR: 90.87%*	R: 2.79% NR: 4.64%*	R: 1.25% NR: 9.42%	R: 9.84% NR: 9.02%*
	Twitter	R: 0.15% NR: 0.79%	R: 1.75% NR: 2.85%*	R: 92.95% NR: 90.96%*	R: 0.66% NR: 8.16%	R: 1.37% NR: 3.66%*
	Gab	R: 0.04% NR: 0.09%	R: 0.65% NR: 0.16%	R: 0.10% NR: 0.20%	R: 76.67% NR: 59.72%	R: 0.08% NR: 0.58%
	T_D	R: 0.07% NR: 0.73%*	R: 1.75% NR: 2.18%*	R: 0.23% NR: 1.27%*	R: 2.49% NR: 9.79%	R: 74.53% NR: 70.32%*

Destination

Communities' efficiency (racist memes)

If we look at the influence normalized to the number of memes posted, the The_Donald is most *efficient* in terms of disseminating memes

		/pol/	Reddit	Twitter	Gab	T_D	Total Ext
Source	/pol/	R: 99.4 NR: 97.1*	R: 0.5 NR: 1.5*	R: 0.3 NR: 1.4*	R: 0.2 NR: 0.4	R: 0.1 NR: 0.9*	R: 1.1 NR: 4.2
	Reddit	R: 4.2 NR: 3.3*	R: 89.0 NR: 90.9*	R: 2.7 NR: 5.7*	R: 0.2 NR: 0.7	R: 1.4 NR: 1.3*	R: 8.5 NR: 11.1
Twitter	/pol/	R: 2.2 NR: 1.7	R: 1.8 NR: 2.3*	R: 92.9 NR: 91.0*	R: 0.1 NR: 0.5	R: 0.2 NR: 0.4*	R: 4.4 NR: 4.9
	Gab	R: 4.5 NR: 3.0	R: 4.9 NR: 2.0	R: 0.7 NR: 3.2	R: 76.7 NR: 59.7	R: 0.1 NR: 1.1	R: 10.3 NR: 9.3
T_D	/pol/	R: 7.5 NR: 13.6*	R: 12.1 NR: 15.5*	R: 1.5 NR: 11.1*	R: 2.3 NR: 5.3	R: 74.5 NR: 70.3*	R: 23.4 NR: 45.6

Looking ahead

- New models for social networks, like Gab and Mastodon, prompt new and important challenges in this space
- In particular, decentralized infrastructures are harder to study and monitor... ongoing work:
 1. Analyzing hate in decentralized social networks like Mastodon
 2. Designing decentralized algorithms that can aggregate and weight info for multiple instances to better identify fake news

Thank you!



A Longitudinal Measurement Study of 4chan's Politically Incorrect Forum and its Effect on the Web

Gabriele Enderle-Häser, Jérémie Le Gouar, Christophe De Grototom, Nicolas Roubalais, Béatrice Léonardier, Régis Sommar, Gianluca Stranghetti, Jeremy Blackburn
Worcester Polytechnic Institute, University College London
Cognitive Research, France University of Technology

• 4 min read

Although it has been a part of the daily activities of the library since its inception, services have been limited to the circulation of the books in the collection itself. In particular, using "Biblioteca," the public computer network, it is possible to search for books in the library's collection, to manage loans, and to search for information in the "Bases de datos" of the National Institute of Statistics and Geography.

Services related to the academic community

get in here fellow niggers, post your least rare Pepes



Sam Hyde

2016-11-17 at 22:05 UTC

When U.N. sends its Pepes, they're not sending their best. They're not sending Kek, they're not sending rares. They're sending Pepes that have lots of copies, and they're bringing those copies with us. They're bringing tumblr. They're bringing facebook. They're common. And some, I assume, are rare Pepes.

UN WASTED MONEY ON A /pol/ STUDY Anonymous (ID: IYtnR5XJ)

10/13/16(Thu)07:31:17 No.92707709 ► >>92708226 >>92708494 >>92708807 >>92708920
>>92708964 >>92709004 >>92709055 >>92709458 >>92709504 >>92709671 >>92709689 >>92709707
>>92709752 >>92709763 >>92709772 >>92709836 >>92709859 >>92709901 >>92710035 >>92710191
>>92710347 >>92710410 >>92710492 >>92710713 >>92711326 >>92711414 >>92711436 >>92711936
>>92712405 >>92713026 >>92713224 >>92713468 >>92713749 >>92713994 >>92714051 >>92714304
>>92714890 >>92714945 >>92715027 >>92715081 >>92715163 >>92715226 >>92715425 >>92715526
>>92716103 >>92716697 >>92717080 >>92717254 >>92717388 >>92717738 >>92718263

<https://arxiv.org/pdf/1610.03452v1.pdf>

[Return] [Catalog] [Bottom]

File: Cucks.png (209 KB, 1181x535)

The Cuckademics, A Study Anonymous (ID: zw8wNrfR) 10/13/16(Thu)06:18:21 No.92700473

Jeremy Blackburn
>his work on the contagious aspects of cheating and understanding and learning about cyberbullying/toxic behavior in online games represent the largest scale studies of such behavior, providing insight useful not just for the gaming community, but in understanding anti-social behavior in the real-world as well.
<http://www.tid.es/research/researchers/j-blackburn>

Gianluca Stringhini
>Twitter Cuck e.g. "But #brexit has nothing to do with xenophobia, right?"
>Retweets Hillary
https://twitter.com/gianluca_string

Riginos Samaras
>actually seems ok and quite attractive so ill give him a pass

Ilias Leontiadis
>bizarre that they would include this guy because his papers are all related to internet privacy and ad revenue.
>Oh wait... Two factors that may have an influence on such interactions are cultural differences between individuals in highly multicultural workplaces, and the layout and physical spaces of the workplace itself. In this work, we investigate how these two factors may facilitate or hinder inter-group interactions in the workplace.
<http://www.tid.es/research/researchers/ilias-leontiadis>

Anonymous (ID: zw8wNrfR) 10/13/16(Thu)06:18:40 No.92700514

Nicolas Kourtellis
>Just a henchman

Emiliano De Cristofaro
>globalist
>Italian national Dr Emiliano De Cristofaro, a senior lecturer in computer science at University College London, criticised the comments.
>"Quite frankly, I am very upset. It inherently discriminates against a portion of the population living in this country, making us feel like second-class individuals. Nobody should be used as a negotiating chip, let alone people who are working hard, paying taxes and strongly contributing to the country," he said.
>"I also fear that statements like this will further encourage hate crime, discrimination and racism against EU citizens."
<https://news.co.uk/essentials/news/politics/eu-citizens-living-uk-express-upset-liam-fox-describes-negotiating-card/>

Jeremiah Onaolapo
>Just a henchman but...
>Recent or forthcoming papers: "What Happens After You Are Pwned: Understanding The Use Of Leaked Webmail Credentials In The Wild."
>In that paper: "We leaked 100 honey accounts on paste sites, underground forums, and virtual machines infected with malware, and provided detailed statistics of the activity of cybercriminals on the accounts, together with a taxonomy of the criminals. Our findings help the research community to get a better understanding of the ecosystem of stolen online accounts, and potentially help researchers to develop better detection systems against this malicious activity."
<http://www0.cs.ucl.ac.uk/staff/J.Onaolapo/papers/imc16gmail.pdf>

Gabriel Emile Hine
>no juice

In conclusion my research indicates that the three most responsible Jews for this vicious hate crime against our culture are:
>Jeremy Blackburn
https://twitter.com/jblackb?ref_src=twsrc%5Egoogle%7Ctwcamp%5Eserp%7Ctwgr%5Eauthor
>Emiliano De Cristofaro
https://twitter.com/emilianodec_
>Gianluca Stringhini
https://twitter.com/gianluca_string

nyonymous (ID: lYtnR5XJ)

8226 >>92708494 >>92708807 >>92708920
504 >>92709671 >>92709689 >>92709707
359 >>92709901 >>92710035 >>92710191
126 >>92711414 >>92711436 >>92711936
149 >>92713994 >>92714051 >>92714304
163 >>92715226 >>92715425 >>92715526
388 >>92717738 >>92718263

ng their best. They're
they're sending Pepes
' those copies with us.
cebook. They're com-

46