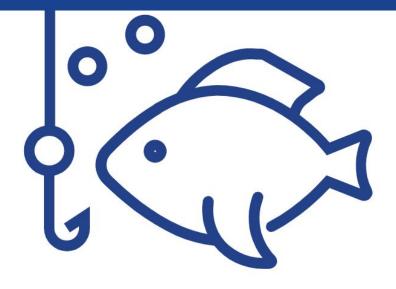
How to Catch a Troll





Twitter is a weapon of war masquerading as a toy.

2:30 PM - 27 Sep 2020

76 Retweets 264 Likes

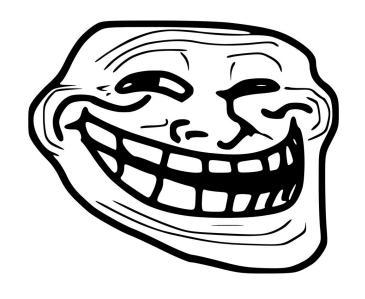






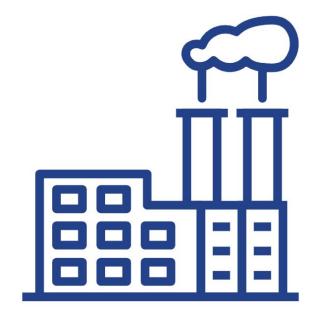


What is a troll?



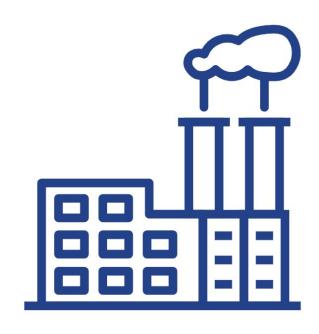
A troll is a person who starts flame wars or intentionally upsets people by posting inflammatory and digressive, extraneous, or off-topic messages in an online community with the intent of provoking readers into displaying emotional responses and normalizing tangential discussion, either for the troll's amusement or a specific gain¹

In 2018, Twitter removed +3,500 Russian-linked accounts and their 3 million tweets



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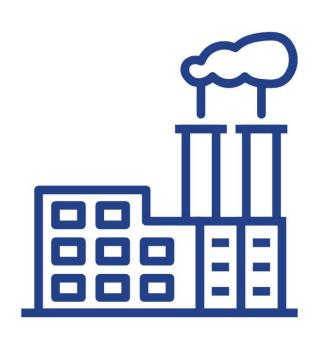
The entire corpus of tweets dates from **February 2012 to May 2018**



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The entire corpus of tweets dates from **February 2012 to May 2018**

A team at NBC was able to construct a subset of the deleted content consisting of **200,000 tweets** from **+500** accounts



In 2018, Twitter removed **+3,500 Russian-linked accounts** and their **3 million tweets**

The entire corpus of tweets dates from February 2012 to May 2018

A team at NBC was able to construct a subset of the deleted content consisting of **200,000 tweets** from **+500 accounts**

FiveThirtyEight has since shared the entire corpus



¹NBC Story: https://www.nbcnews.com/tech/social-media/now-available-more-200-000-deleted-russian-troll-tweets-n844731

²Kaggle Dataset: <u>https://www.kaggle.com/vikasg/russian-troll-tweets</u>

³FiveThirtyEight: https://fivethirtyeight.com/features/why-were-sharing-3-million-russian-troll-tweets

What do trolls tweet about?



Right wing news

@evagreen69

Texas Democrats Indicted for Buying Votes With Cocaine #tcot #PJNET #ccot #WakeUpAmerica #RedNationRising

10,000 20,000 30,000 40,000 50,000 60,000

Right wing news

Middle East



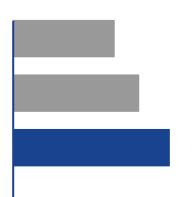
#IslamKills Are you trying to say that there were no terrorist attacks in Europe before refugees were let in?

10,000 20,000 30,000 40,000 50,000 60,000

Right wing news

Middle East

Violence in the news



<u>@melanymelanin</u>

RT @blicqer: New Orleans police commander issues bleak warning to all women: 'Do not travel alone overnight'

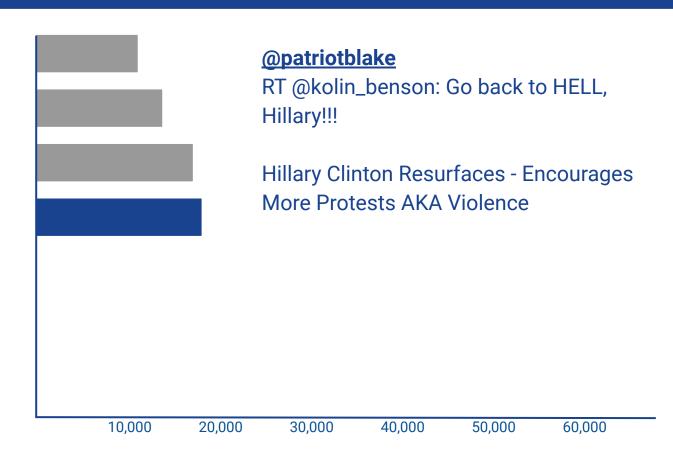
10,000 20,000 30,000 40,000 50,000 60,000

Right wing news

Middle East

Violence in the news

Hillary Clinton



Right wing news Middle East Violence in the news

@evewebster373

waiting to see if leonardo will win an oscar tonight #lamonfire

Hillary Clinton

General Twitter chit-chat

20,000

30,000

10,000

50,000 40.000 60,000

Right wing news

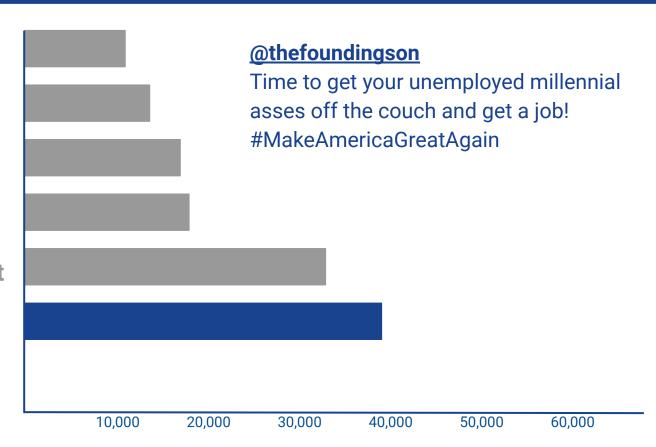
Middle East

Violence in the news

Hillary Clinton

General Twitter chit-chat

Conservative chit-chat



Right wing news

Middle East

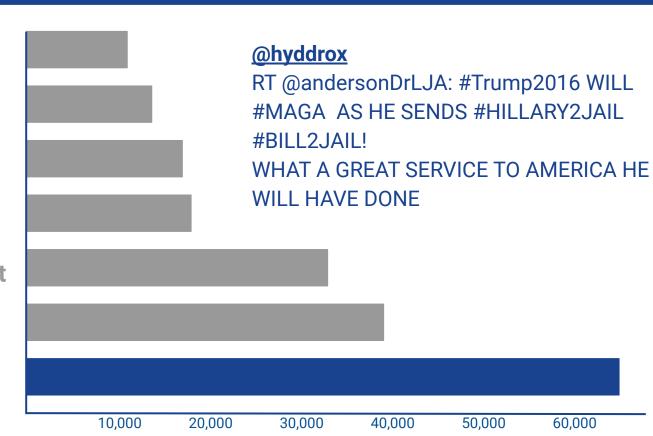
Violence in the news

Hillary Clinton

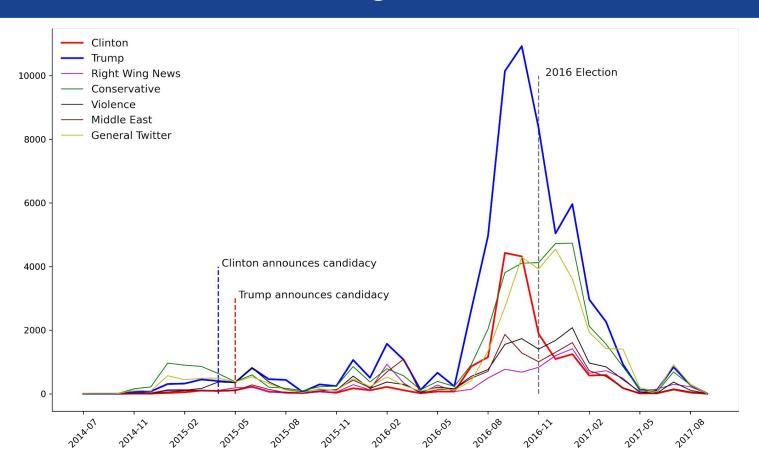
General Twitter chit-chat

Conservative chit-chat

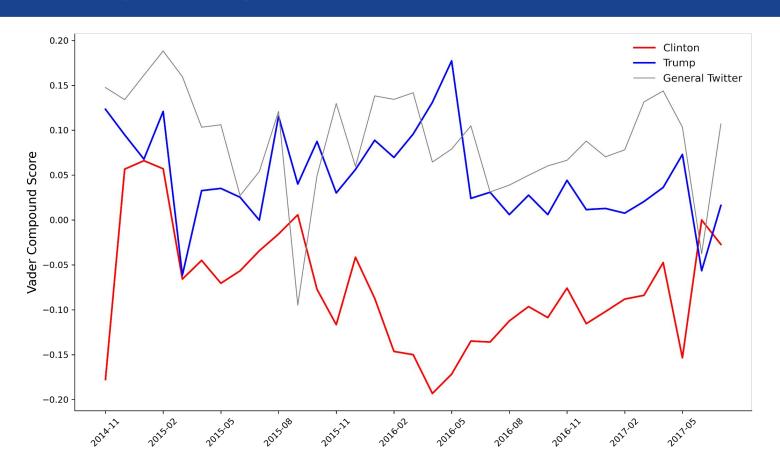
Donald Trump

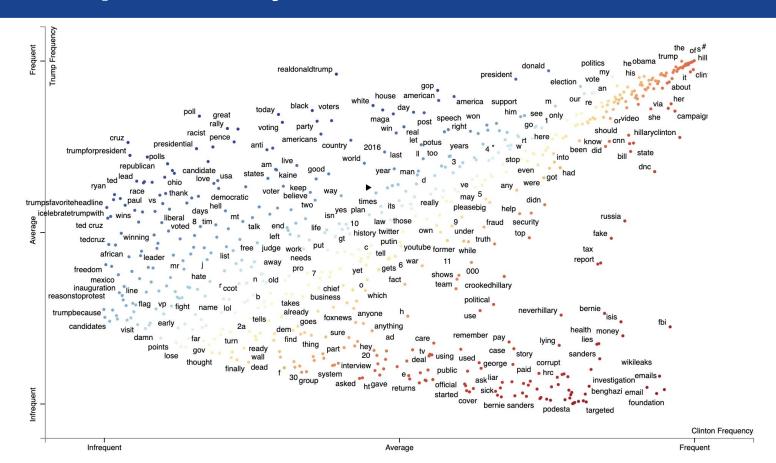


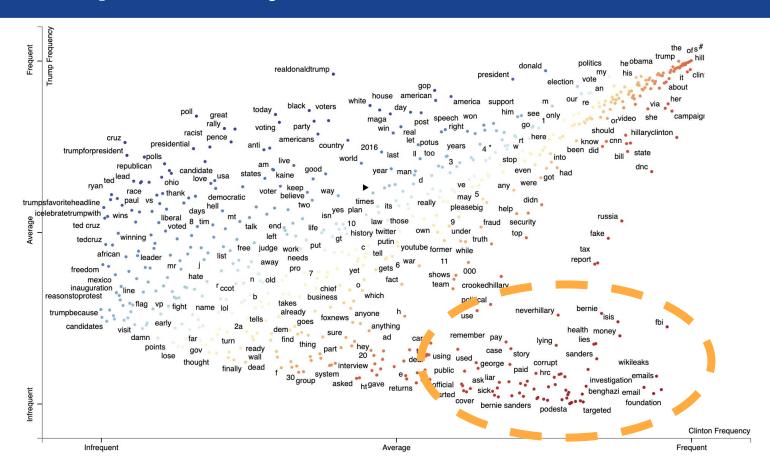
The election became the goal...

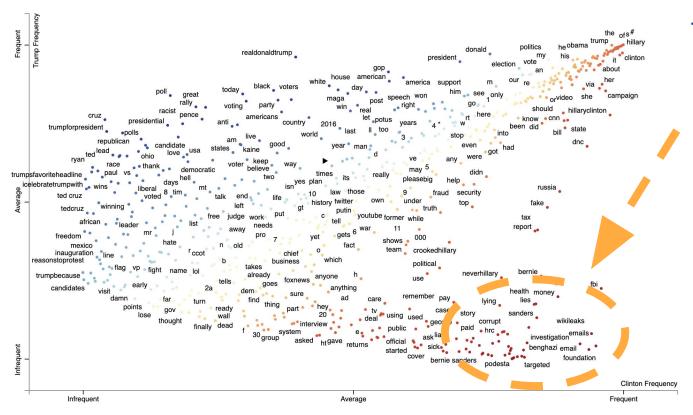


...and they clearly favored a candidate



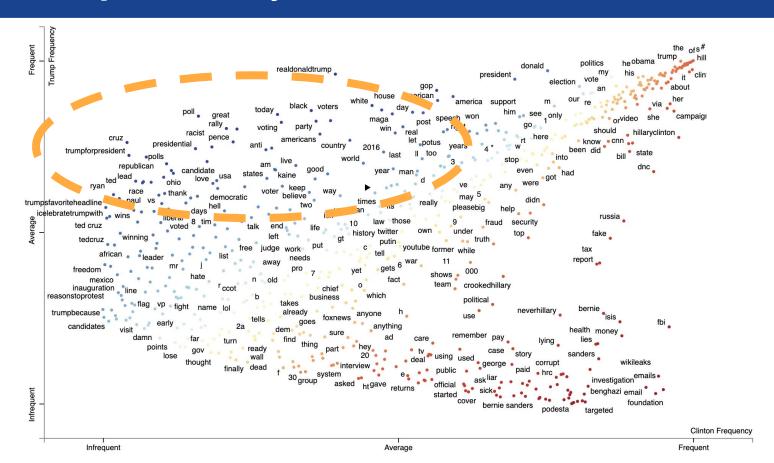


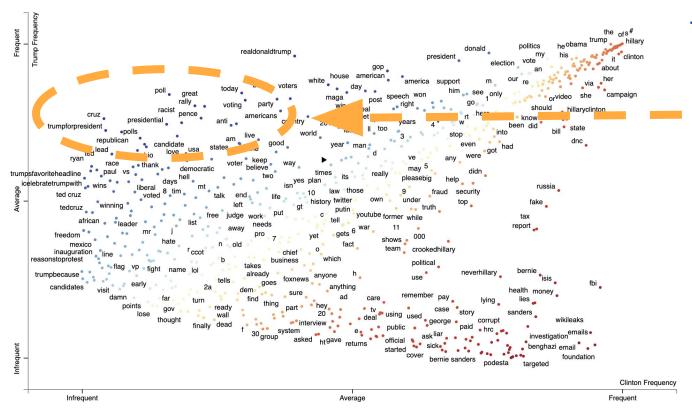




Top Hillary Clinton words

- emails
- Wikileaks
- Benghazi
- FBI
- #neverhillary
- #crookedhillary
- health
- corrupt





Top Donald Trump words

- #MAGA
- #trumpforpresident
- rally
- voting
- Republican
- presidential
- racist
- love

#WakeUpAmerica

"Russian accounts impersonated everyday Americans and drew hundreds of millions of followers, exploiting terrorist attacks, the debates and other breaking news events.

#WakeUpAmerica

"Russian accounts impersonated everyday Americans and drew hundreds of millions of followers, exploiting terrorist attacks, the debates and other breaking news events.

[these accounts] pushed graphic, racist and conspiracy theory-filled disinformation, while flattering, arguing and cajoling more than 40 U.S. politicians, media figures and celebrities into interacting with and amplifying their propaganda."

Remember Dean?



Twitter is a weapon of war masquerading as a toy.

Remember Dean.

Common Sense Solutions



Former Lehigh County Commissioner. A proud pro-life & pro-2A Christian conservative dedicated to enacting common sense solutions to Keep America Great.

32.4K Following 53.1K Followers

Remember Dean.









Conservative politician from Pennsylvania

Former Lehigh County Commissioner. A proud pro-life & pro-2A Christian conservative dedicated to enacting common sense solutions to Keep America Great.

32.4K Following **53.1K** Followers

Remember Dean.



Verified Account with an impressive network!

Former Lehigh County Commissioner. A proud pro-life & pro-2A Christian conservative dedicated to enacting common sense solutions to Keep America Great.

32.4K Following **53.1K** Followers

@DeanBrowningPA



Replying to @ADunks5

I'm a black gay guy and I can personally say that Obama did nothing for me, my life only changed a little bit and it was for the worse. Everything is so much better under Trump though. I feel respected - which I never do when democrats are involved.



Replying to @ADunks5

I'm a black gay guy and I can personally say that Obama did nothing for me, my life only changed a little bit and it was for the worse. Everything is so much better under Trump though. I feel respected - which I never do when democrats are involved.

Final thoughts

Trolling and the spread of **misinformation** and **disinformation aren't going away** anytime soon...

- We can't rely on platforms to keep us safe -- though we can and should demand more from them!
- Healthy skepticism remains our best defense for now

Final thoughts

Trolling and the spread of **misinformation** and **disinformation aren't going away** anytime soon...

- We can't rely on platforms to keep us safe -- though we can and should demand more from them!
- Healthy skepticism remains our best defense for now

Suggestions for future work

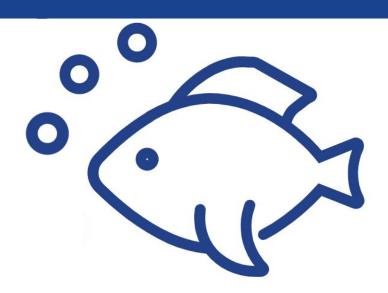
- Continue to develop AI that can accurately detect misinformation, disinformation, and deep fakes
- Analyze content from major social platforms during the 2020 US Presidential election -- continue to build awareness!

Thank you!

Chris Doenlen

scrapfishies@gmail.com

@scrapfishies (not a troll)

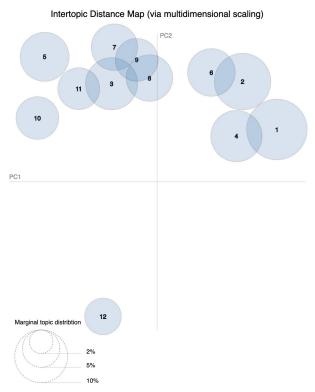


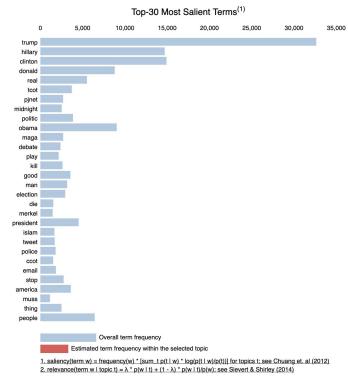
Appendix: pyLDAvis Topic Modeling

Topic Interpretation

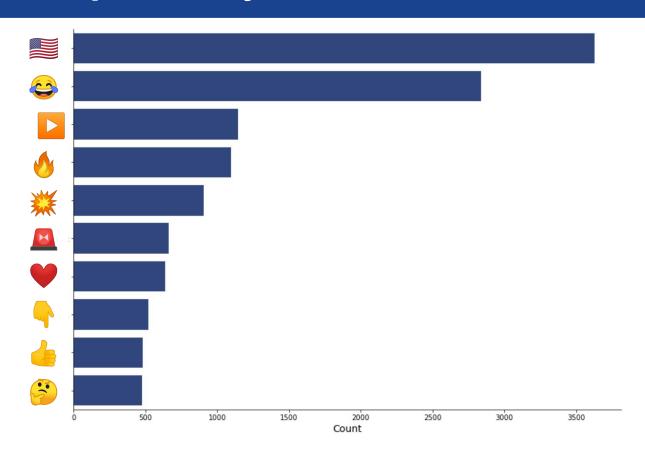
- Trump (1, 2)
- Clinton (4, 6)
- Violence (3)
- General Twitter (5, 9, 11)
- Middle East (8)
- Conservative (7, 10)
- German (12)

Note: These topics changed slightly when more vigorously training the LDA model



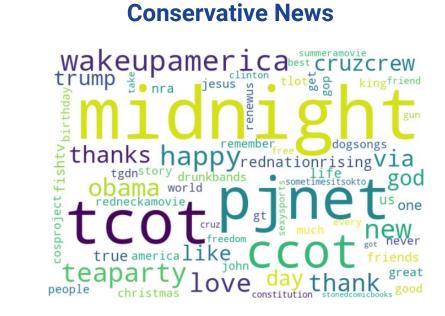


Appendix: Top 10 emojis used

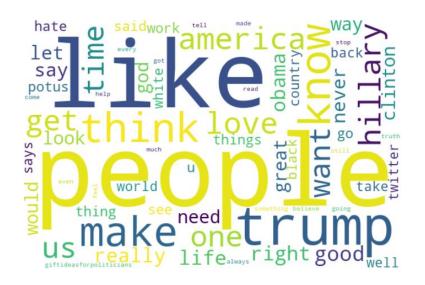


Appendix: Word Clouds

Conservative News

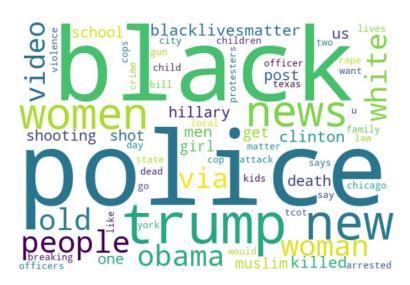


General Conservative Chit-Chat



Appendix: Word Clouds

Violence in the news



Middle East

