

Hunting Bots & Trolls

Humans and Machines Learning Together

Dr. Stuart W. Shulman

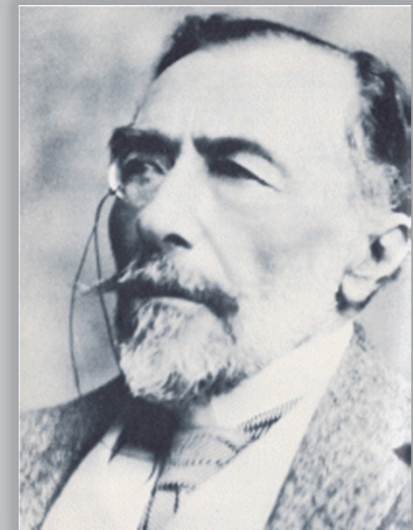
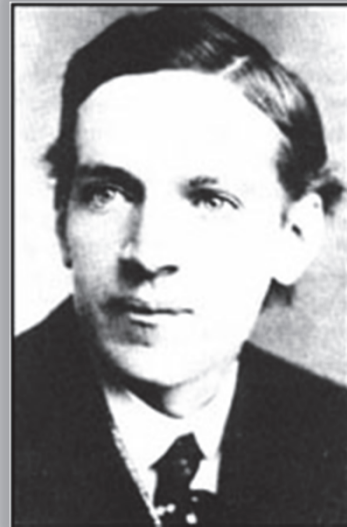
Overview of the Presentation

- 30 years of text classification work
 - A pathway to CoderRank
- Lessons from campaigns
 - Bots & trolls in the Trudeau & Biden data
- Platform cooperation
 - Who can do this work
- A proposed game platform
 - Hunting bots & trolls, identifying Vets on a trajectory toward suicide, and stopping school shooters

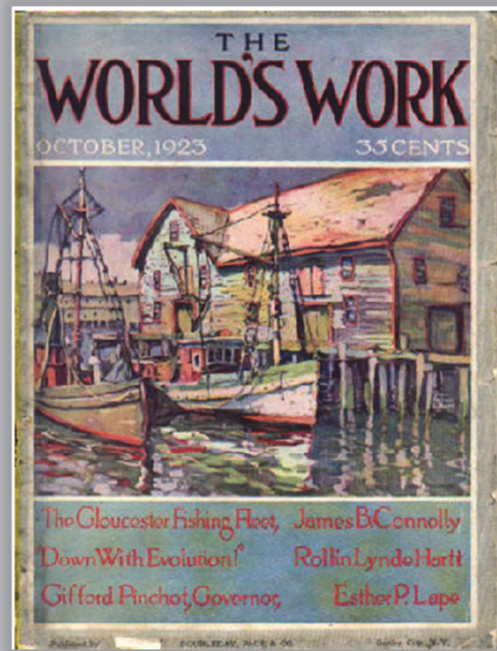
30 years of text classification work

A Pathway to CoderRank

Political Extremism & the Novel



Agenda-Setting & the Print Press



Electronic Rulemaking in 1999



National Science Foundation
WHERE DISCOVERIES BEGIN

science

Multi-Agency Workshops



May 2001

Council for Excellence in Government



June 2002

National Defense University

Commercial Off the Shelf Software

The screenshot shows a forum post on the ATLAS.ti website. The user 'Stu', a Senior Member who joined in December 2005 and has 26 posts, announces the replacement of the 'kappa tool' with the 'Coding Analysis Toolkit (CAT)'. The post includes a list of features and a link to the CAT website.

Forum | What's New? | Search

New Posts | FAQ | Calendar | Community | Forum Actions | Quick Links | Advanced Search

Forum » ATLAS.ti » General » Goodbye Old Kappa Tool, Hello CAT

+ Reply to Thread | Results 1 to 2 of 2

Thread: Goodbye Old Kappa Tool, Hello CAT

Thread Tools | Search Thread | Rate This Thread | Display

2007-11-17, 03:38 PM #1

Stu
Senior Member
Join Date: Dec 2005
Posts: 26

Goodbye Old Kappa Tool, Hello CAT

I have received a series of inquiries about the 'kappa tool' created by Namhee Kwon at USC-ISI. The tool is no longer active on the web. It has been replaced with professional grade software under the auspices of the Coding Analysis Toolkit (CAT) hosted by the Qualitative Data Analysis Program (QDAP) at the University of Pittsburgh. A steadily growing group of beta testers is taking advantage of CAT to:

- produce kappa coefficients or Krippendorff's Alpha on the fly with merged ATLAS output;
- produce tables of quotations where coders agree, overlap, and mismatch;
- validate or consensus adjudicate datasets using automation and keystrokes to speed the process;
- report validity scores by code or coder;
- analyze clean .rtf files consisting of just the valid quotations in .rtf format.

I invite every ATLAS user to join us during this free beta-test period. I truly believe these tools are can improve your ability to leverage the power of ATLAS.ti in your research. To create a free user account, please visit:

<http://cat.ucsur.pitt.edu>

~Stu

Edit Post | Reply | Reply With Quote

CAT Launched Fall 2007

Welcome to the Coding Analysis Toolkit (CAT)

CAT is a free and open source text analysis service hosted by Texifter. Load, code, and annotate text data in teams. Measure inter-rater reliability and adjudicate differences between coders. Report on the accuracy of codes and coders over time. Train better coders through systematic iterations. CAT was the 2008 winner of the "Best Research Software" award from the organized section on Information Technology & Politics in the American Political Science Association.

For the CAT Quick Start Guide, you can view the PDF file here:
[CAT Quickstart Guide](#)

To view a tutorial on using CAT, click here:
[CAT Tutorial - February 23, 2009](#)

There are numerous and diverse academic citations of the Coding Analysis Toolkit:
[Scholarly Citations](#)

CAT Statistics

There are currently **17,510** primary CAT accounts and **1,730** sub-accounts. CAT users have uploaded **10,859** coded datasets and **21,860** raw datasets. They have coded a total of **2,647,655** items and adjudicators have made **242,163** validation choices in CAT.

[What CAT Does](#)

[CAT Features](#)

[Praise for CAT](#)

What can you do in CAT?

- Efficiently code raw text data sets
- Annotate coding with shared memos
- Manage team coding permissions via the Web
- Create unlimited collaborator sub-accounts
- Assign multiple coders to specific tasks
- Easily measure inter-rater reliability
- Adjudicate valid & invalid coder decisions
- Report validity by dataset, code or coder
- Export coding in RTF, CSV or XML format
- Archive or share completed projects

What file types can CAT import?

- Plain text
- HTML
- CAT XML
- Merged ATLAS.ti coding

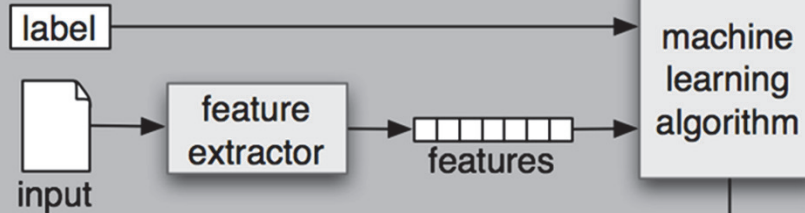
CAT Resources

Text Classification is Hard

- A 2,500-year-old problem
- Plato argued it would be frustrating; it still is
- Software cannot remove the problem
- It can help to expose it more quickly



(a) Training



(b) Prediction



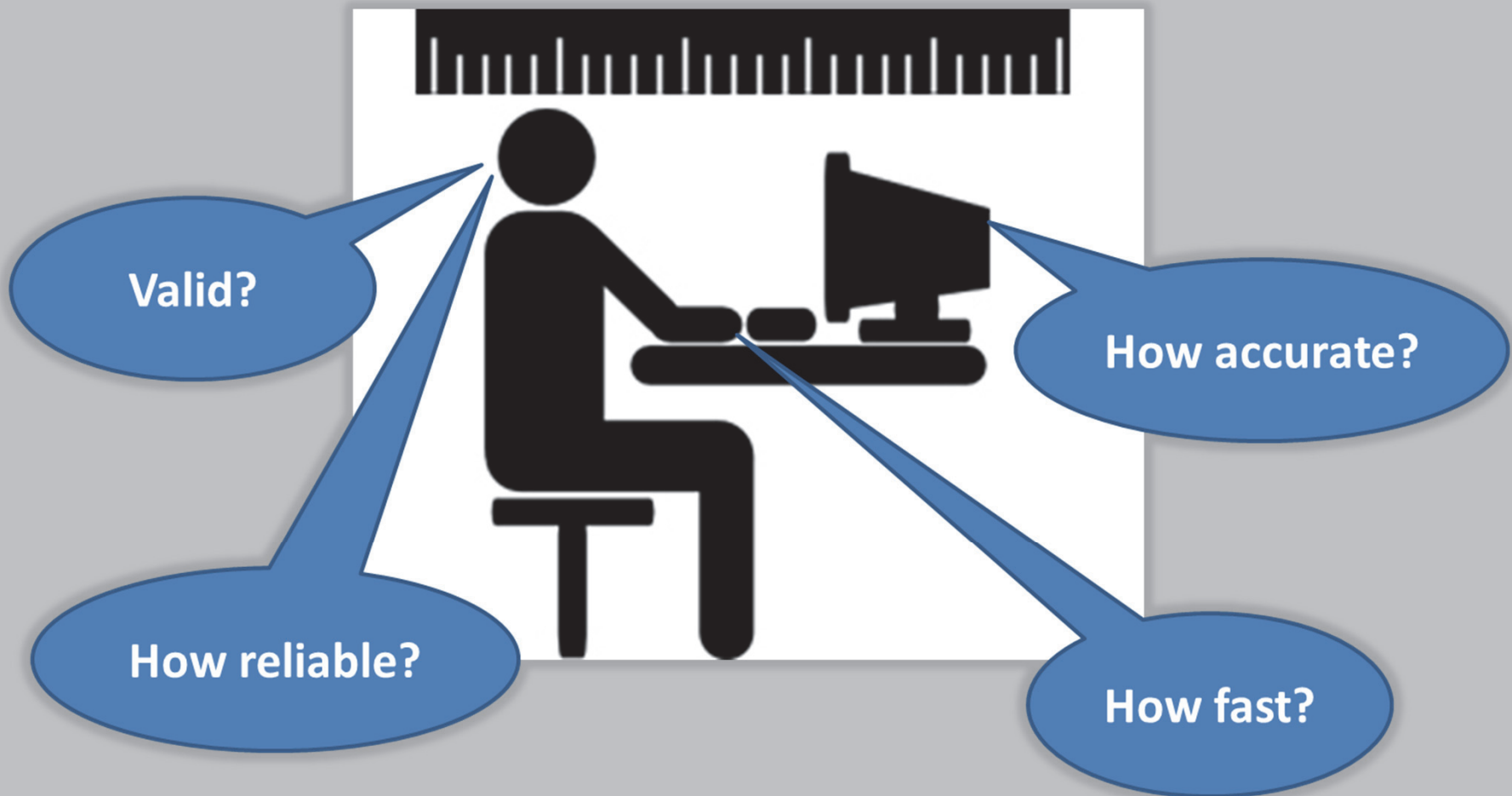
“Text as Data” Grimmer & Stewart (2013)

- Volume is a problem for scholars
- Coders are expensive
- Groups struggle to accurately label text at scale
- Validation of both humans and machines is “essential”
- Some models are easier to validate than others
- All models are wrong
- Automated models amplify but don’t replace humans
- There is no one right way to do this
- “Validate, validate, validate”
- “What should be avoided then, is the blind use of any method without a validation step.”

Crowdsourcing the Task



Measure Everything



Adjudicate Boundary Cases

Dataset: MH17 Test 2

Code: **Not MH-17** (1) Valid (2) Skip to next (3) Not valid

Validations remaining: 200
[+] Change Code Filter

20.00% of users coded this as Not MH-17

Document Metadata

author user id: christy18
extkey: 415379051995629
inserted: 7/22/2014 9:35:32 AM
is segmented: true
itemid: 45094031055
language: Chinese - Simplified
messagetype: post
original text: MH17事后第一天，美国就宣布其一套雷达系统看到了一枚地空导弹从乌克兰境内飞向马航，还有另一套看到了马航被击中的热信号，如此精确和反应迅速的雷达系统.....在几个月前，为啥却看不到马航370.....一架在空中飞了8个小时.....比导弹大那么多倍的777.....去哪了？
postsinthread: 1
published: 7/22/2014 9:34:37 AM
threadid: 415379051995629
url: http://t.qq.com/p/t/415379051995629

Coder choices

Coder	Codes
Coder 5611	MH-17
Coder 0043	MH-17
Coder 5981	MH-17
Coder 9783	MH-17
Coder 2279	Not MH-17

MH 17 事后第一天，美国就宣布其一套雷达系统看到了一枚地空导弹从乌克兰境内飞向马航，还有另一套看到了马航被击中的热信号，如此精确和反应迅速的雷达系统.....在几个月前，为啥却看不到马航370.....一架在空中飞了8个小时.....比导弹大那么多倍的777.....去哪了？

CoderRank














1. When training machines, it is best to rely on those humans most likely to create a valid observation.
2. We developed a unique way to rank humans on trust and knowledge vectors calling it CoderRank.

Patent Issued 2016

“System and method of classifier ranking for incorporation into enhanced machine learning”

Lessons from campaigns

Bots & trolls in the Trudeau & Biden data
















Archive Name	Created 	Units
 trudeaumustgo	09/07/2019 16:19	643,669
 AndrewScheer	09/07/2019 16:21	520,747
 JustinTrudeau	09/07/2019 16:27	970,240
 MaximeBernier	09/07/2019 16:28	664,183
 Trudeau	09/19/2019 10:04	715,377
 scheerlies OR scheerdisaster	09/27/2019 12:35	54,046
 User Bios 100-plus-per-day Tweets	10/04/2019 01:13	672
 trudeaumustgo user descriptions	10/05/2019 13:15	26,854
 trudeaumustgo_southfront_veterans	10/07/2019 00:57	2,410
 AndrewScheer_southfront_veterans	10/07/2019 01:01	2,118
 JustinTrudeau_southfront_veterans	10/07/2019 01:02	3,404
 MaximeBernier_southfront_veterans	10/07/2019 01:02	4,421

trudeaumustgo user descriptions

View as List ▾ 300 items ▾ Bigrams ▾

Term	Count	📊
maga kag	758	
trump supporter	377	
husband father	373	
proud canadian	360	
president trump	332	
happily married	276	
1a 2a	253	
free speech	229	
common sense	221	
god family	206	
love country	206	
opinions own	201	
god bless	199	
trump maga	191	

trudeaumustgo user descriptions

business owner		188
wife mother		174
love god		167
animal lover		158
father husband		158
donald trump		156
family country		153
christian conservative		151
maga trump2020		148
god country		143
kag trump2020		142
maga wwg1wga		136
tweets own		130
mcga maga		128
maga trump		125

57 buckets

search by name



Bucket Name	Created	Units
trudeau in bio set from trudeaumustgo	09/10/2019 13:35	21,395
007 - NATO in Bio	09/11/2019 16:59	1,094
Group 1	09/18/2019 16:21	112,530
Single 1	09/18/2019 16:21	1,275
trudeaumustgo spike 1-day 091919	09/20/2019 15:14	28,705
user_description contains bot	09/20/2019 15:32	15,610
trudeaumustgo spike 1-day 091919 >100K	09/20/2019 19:52	2,689
Seeds and Singles	09/20/2019 20:00	82,770
trudeaumustgo MAGA in BIO	09/23/2019 02:08	18,411
trudeaumustgo MCGA	09/23/2019 02:10	12,479
trudeaumustgo MAGA in BIO SPIKE	09/27/2019 17:28	3,010
JustinTrudeau infl <0.01	09/28/2019 14:53	322
JustinTrudeau infl <0.05	09/28/2019 14:56	6,673

Search and Browse Archive

Archive Details **trudeaumustgo user descriptions**

Showing 1 to 100 of 5,702 total

Options  

-  #Canada #Trump #Brexit #Vets #TrudeauMustGo #USA #SOROS #FordNation #RCAF #Conservative #Sheer4PM
-  ...r of all animals. 😍 Love Trump! Hate Trudeau!!Trudeau must go!!MAGA! Make Alberta Great Again!
-  ca Base Bratt! #MCGA #Trudeaumustgo #Scheer4PM 🌐 #WWG1WGA ❤️ us #MAGA #doingitright 🙏
-  #CONSERVATIVE; Christian; ProLife; #MAGA; #Trump2020
-  CAUS#MAGA #TrudeauWorsePM God bless @Potus I ❤️ 🙏 Conservative
-  Follower of Jesus!
-  I Love My Country cacaVeteran #Nationalists #MCGA 🙏🙏 #TrudeauMustGo #TrudeauCorruption #Trudea...
-  ...rrect. Conservative #MAGA us #MCGA ca#LoveTrump #LoveCanada #LovePoland #KAG #AmericaFirst #Can...
-  ...a living life. Love Jesus. #MCGA #MAGA Parler name @prairiefire. Happily married. No D.M.'s please. ...
-  ... ♡family, God, @potus, @flotus, Police, Military, Isreal, #KAG #MAGA #TrudeauMustGo #ScheerPM 🙏
-  ...PUTER GURU.Watching MAGA from up top my moose drinking beer next to my igloo, Eh!Lets get together a...
-  ...ALKAWAY #CANADAFIRST #MAGA #NOGLOBALEMIGRATION 🚫💎 Retired 💎 Runner 💎 Married 💎 LEO 💎 #TrudeauMust...
-  #MAGA Make Canada great again!! 😊🗨️ I love all common sense people regardless of race or religio...
-  ...tive, @AndrewScheer, #MCGA, #Nationalist, #DJTrump, #QAnon, #IStandwithFlynn, #MAGA, Canada/USA

Search and Browse Archive

Archive Details **User Bios 100-plus-per-day Tweets**

Showing 1 to 100 of 672 total

Options

- MAGA KAG .God loving woman #IAmTheNRA .conservative .no nonsense red head demorats are wak jobs .pro...
- CHRISTIAN ♥JESUS!♥Happily Married To My Best Friend!♥Trump 2020!♥ #MAGA#KAG!ususus#BACKTHEBLUE...
- <https://t.co/XMwpcp1lwV> @getongab us#MAGAus@StormIsUponUsus@protrumpukus@sxdocus@C_3C_3...
- Christ first. RN. Mom to 3, Nana to 8, Granna 2. 3 HAVANESE kids, now! #MAGA, #NoShariaHere, #WWGOWG...
- 🌍EarthkeeperusAmerican Patriot! #trumpTRUTH2020=#maga!!! Mom of med complex, vax inj 30yr ...
- #MAGA #Q #GreatAwakening Christian Patriot. He's my president. Med Ops Mgr: Iraq-Afghanistan. Screa...
- We joined Twitter 9/15 #TrumpRallyOKC. We had 3200+ #MAGA followers. 2-14-19, Jack, w/no expl, remo...
- Proud American #MAGA,us 🙏 #KAG2020 #TRUMP #BuildTheWall #PATRIOT #NRA #1A #2A #FBTS #CONSERVAT...
- American, thrilled at the wonderful job Donald Trump is doing. MAGA, PROUD TO BE A DEPLORABLE, TRUMP...
- Retired USAF, Desert Storm Vet. Keep radical Islam out!! - #MAGA #KAG #buildwall #realDonaldTrump. ...
- Jesus has it all in His hands. 🙏 Pray for your enemies. 🙏 Goats, chickens, turkeys, and Geese 🙏 Gar...
- #MAGA #KAG , love my guns my God , my <https://t.co/5uYx4t0omY> the damn wall. Took the Twitter I am n...
- Love the Lord Jesus Christ, my family & America. Thankful for President Trump. Very #MAGA Democrats ...
- #MAGA #DrainTheSwamp #TermLimits #FakeNews #KAG #TRUMP2020 #BuildTheWall #AmericaFirst #2A #VoterID ...
- #Conservative, #WWG1WGA, #TheGreatAwakening, #ProLife, #BlueLivesMatter, #Trumpican, #QANON us#MAG...
- Married,Retired E-8 USAF! 23 yrs!VIETNAM Veteran! Security Police, Civil Engineer, 1st Sgt! MTI. US ...
- ❤️God•Fam•NYR•NYM•USAusIT•1&2A•Const conserv•MAGApats/military/LEO•NRA•🙏•PBR•Music•histry•dogs•...
- FactsMatter скверный отстой 100%!MAGA! K*A*G! 1*A 2*A*Q PatriotsFightPatriotsPray StayStrongWWG1WGA ...

Manual Inspection of Accounts

←  **Kari {★★★★}** 🇺🇸
291.9K Tweets



  **Following**

 **Kari {★★★★}** 🇺🇸
@kadajoz

FactsMatter скверный отстой 100%!MAGA! K*A*G! 1*A 2*A*Q
PatriotsFightPatriotsPray StayStrongWWG1WGA #Trump2020 Mighty200
DigitalSoldiers #RIP CR ❤️🙏🏻🌐🏠📺

📍 RED in a SEA of Blue [🔗 youtube.com/watch?v=KVeDKu...](https://www.youtube.com/watch?v=KVeDKu...)
📅 Joined July 2017

32.5K Following **31.7K** Followers

↻  **Kari {★★★★}** 🇺🇸 Retweeted

 **MICHELLE** 🌐 @4AllSoulKind · 7h
Goodnight Boss 🙏
cc @POTUS #KAG



   12  25 

Manual Inspection of Lists

The screenshot shows the DiscoverText web application interface. On the left is a sidebar with navigation links: Home, Notifications (1267 new), My Archives, My Account, Peers / Requests, Messages, Support, and Admin. Below this is a 'Project' dropdown set to 'Canadian Election Data' and a 'Documents' section containing a tree view of folders like 'Data Archives', 'AndrewScheer', 'JustinTrudeau', etc. The main area is titled 'Search and Browse Archive' and shows 'User Bios 100-plus-per-day Tweets'. It indicates 'Showing 1 to 25 of 609 total' results. A list of tweets is displayed, many containing hashtags like #MAGA, #KAG, #Trump2020, #WWG1WGA, and #QANON. Action buttons like 'Options', 'Add All to New Bucket', and 'Add Selected to Existing Bucket' are visible above the list.

MAGA OR KAG OR Trump2020 OR WWG1WGA OR QANON OR GreatAwakening
are in **90%** of the Canadian election Bios with **>100 Tweets/Day**

What Happens When QAnon Seeps From the Web to the Offline World

By Mike McIntire and Kevin Roose

Feb. 9, 2020 Updated 11:17 a.m. ET



The New York Times





The Billion-Dollar Disinformation Campaign to Reelect the President

How new technologies and techniques pioneered by dictators will shape the 2020 election

ILLUSTRATION: MISHKO; HANNA ALANDI / GETTY



jack 🌐🌐🌐🌐
@jack



We've made the decision to stop all political advertising on Twitter globally. We believe political message reach should be earned, not bought. Why? A few reasons... 🧵

4:05 PM · Oct 30, 2019 · Twitter for iPhone

101.8K Retweets 424.2K Likes



jack 🌐🌐🌐🌐 @jack · Oct 30, 2019
Replying to @jack



A political message earns reach when people decide to follow an account or retweet. Paying for reach removes that decision, forcing highly optimized and targeted political messages on people. We believe this decision should not be compromised by money.

631



6.2K

55.2K



jack 🌐🌐🌐🌐 @jack · Oct 30, 2019



While internet advertising is incredibly powerful and very effective for commercial advertisers, that power brings significant risks to politics, where it can be used to influence votes to affect the lives of millions.

255



4.6K

41.6K



Project Details (Current Project: 001-Biden)

Project Management > Project Details

Project Name: **001-Biden**



Project Statistics

Archives: 20 archives
Buckets: 51 buckets
Datasets: 22 datasets
Total Units: 8,931,475 units
Unread Units: 8,924,903 units
Codable Units: 130,432 units
Uncoded Units: 8,922,397 units

Project Owner: Stuart Shulman
Project Creation Date: 12/22/2019
Last Modification Date: 2/6/2020
Is Project Locked? no

[Project Adjudication Statistics](#)

Project Options

[View All Project Documents](#)

- [Edit Project Preferences](#)
- [Edit Project Permissions](#)
- [Lock Project](#)
- [View Live Feed Schedules](#)
- [Select Peer Groups](#)
- [Select Peers](#)
- [Delete Project](#)
- [TopMeta Explorer](#)
- [TimeTrack](#)
- [Archived Items](#)

US...

Free Wizard 🧙, Father 👤, #ProLife ❤️, Engineer 👷, 🔒...

"Deep in each man is the knowledge that something knows...

SOUTH JERSEY GIRL *Constantly reading. Warranty Admin, Proud L* 🔒...

Here to support @realDonaldTrump usFB all English Lang...

👤 I am large, I contain multiDudes 👤 Picker • Grinner • Lov...

Gen Z Democratic/Socialist, Envisioning A Socialist De 🔒...

<https://t.co/HkT8xuFbzL> • <https://t.co/XFHitd4GBS> • <https://t.co/TpHRHjn0uT> • <https://t.co/znYB7o...>

Dad, mixer of sounds blending art and science. IATSE me 🔒...

Stat. VetWife. Love my kids/animals. *"The urge to save humanity is almo* 🔒...

#Resist SingleDad Memoirist Atheist <https://t.co/lrPmdtWcgJ> <https://t.co/5ll1qNd1GR> <https://t.co/V2c...>

• us *MAGAnificent* American Girl 🙏🙏 • XØXØ • 🙏 ✨ 1 John 4:16 • (♡ ◡ ◡) ◡ Cuddles are cool o...

Powering The People's Internet. Social: <https://t.co/iY5FZgfGju> Web Browser: <https://t.co/F5bv2ajrgK...>

USA, POTUS, POP, World, Tech, Follow, fb <https://t.co/eX7jVa0YBS> <https://t.co/nCOv1YnPJ0> <https://t.c...>

#WWG1WGA ❤️ #Q #MAGA #America1st #ProLife ❤️ #1A2A #Married #Tr...

SEEMANN / BARDE 🗨️ SAILOR / BARD 🗨️ DEUS 🗨️ 🗨️ 🗨️ 🗨️ 🗨️ 🗨️ 🗨️ 🗨️ 🗨️ 🗨️ 🗨️ 🔒...

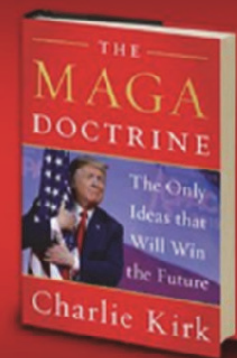
Viral Tweets December 20 – January 5

Group Id	Items	Snippet
Group 1	20908	RT @charliekirk11 Joe Biden sent his wife to Mexico to hand out meals to asylum seekers & immigrants This is your daily reminder: Joe Bi...
Group 2	19557	RT @charliekirk11 Wait, so Biden blackmailed Ukraine because they were investigating his son for making millions of dollars for doing noth...
Group 3	19395	RT @realDerekUtley: BREAKING: Hunter Biden is under criminal investigations for money laundering. He made \$156 MILLION dollars! The Demo...
Group 4	18585	RT @charliekirk11 Democrat net worths from this week's debate: Elizabeth Warren: \$12M Joe Biden: \$9M Tom Steyer: \$1.6B Amy Klobuchar: \$1....
Group 5	17884	RT @RyanAFournier: BREAKING: The Arkansas judge handling the Hunter Biden case just mysteriously quit... with no explanation. What's going...
Group 6	17381	RT @charliekirk11 This is your daily reminder that Joe Biden actually BRAGGED about a quid pro quo with Ukraine Democrats want to impeach...
Group 7	14172	RT @KatTheHammer1: Joe Biden has been in office for 44 yrs. Chuck Schumer 38 yrs. Nancy Pelosi 32 yrs. Maxine Waters 28 yrs. Yet they b...
Group 8	12615	RT @charliekirk11 Insanity: Hunter Biden is calling court requests for his financial records "unreasonable" and says their meant to "anno...
Group 9	12120	RT @RealSaavedra: In September, Democrat Joe Biden attacked TX Gov Greg Abbott for signing a law that let lawful gun owners carry guns into...
Group 10	11347	RT @charliekirk11 BREAKING: Joe Biden says he won't testify in a Senate trial if he's subpoenaed Doesn't that sound a lot like the "Obst...
Group 11	10784	RT @RyanAFournier: BREAKING: Hunter Biden is being investigated for money laundering with Burisma Holdings. \$6.8 million dollars was trans...
Group 12	10585	RT @newtgingrich: Why would Biden side with Iranian terrorist commander Soleimani against President Trump? Of course Biden was part of the...
Group 13	10336	RT @RudyGiuliani: The Accounts Chamber in Ukraine found an alleged misuse of \$5.3B in U.S. funds during the Obama administration while Bide...
Group 14	10324	RT @TrumpWarRoom: Joe Biden just got CAUGHT LYING about how he OPPOSED the raid to kill Osama bin Laden. In 2012, he told the story of how...
Group 15	10015	RT @AnnCoulter: Hey, Republicans! Anyone want to look at this? HUNTER BIDEN BOUGHT A \$2.5 MILLION HOLLYWOOD HILLS HOME IN JUNE FOR \$14,00...
Group 16	9967	RT @VicToensing: Lying @washingtonpost. Wrote absolutely false editorial about hubby and me. @RudyGiuliani had nothing to do with our being...
Group 17	9892	RT @charliekirk11 Joe Biden says he would put fossil fuel executives "in jail" Would that include his son, Hunter, who sat on the board o...
Group 18	9510	RT @charliekirk11 Iran lied to America and the west Iran funds terror against America and Israel Why did Obama and Biden send them \$1 bi...
Group 19	9509	RT @MollyNagle3: Wow-quite the start to @JoeBiden's second event in NH. A man from the back of the room calls Biden a "pervert" and accuses...
Group 20	9477	RT @charliekirk11 Everywhere Joe Biden was involved as VP, his family got richer Ukraine-Hunter Biden got \$83,333 a month from Burisma C...

PRE-ORDER NOW!
On Sale March 3rd

THE MAGA DOCTRINE

The Only Ideas that Will
Win the Future



Following

Charlie Kirk ✓

@charliekirk11

Founder & President of @TPUSA Chairman of @TrumpStudents Best Selling Author
We are all sinners, saved by Jesus Opinions here are my own

📍 Phoenix, AZ 📄 podcasts.apple.com/us/podcast/the... 📅 Joined May 2011

234K Following 1.5M Followers

Inactive

Nov 22, 2019 - Dec 2, 2019

ID: 553915712008413



About social issues, elections or politics



Charlie Kirk

Sponsored • Paid for by Charlie Kirk

Save American lives. Save America. Support @realdonaldtrump and FINISH the Wall!

EXPOSED! AMERICA'S OPEN BORDERS

TURNING POINT USA

NO WALL

#BigGovSucks

Charlie Kirk
INSTAGRAM.COM

Visit Instagr...

Inactive

Nov 22, 2019 - Dec 2, 2019

ID: 2486021628160073



About social issues, elections or politics



Charlie Kirk

Sponsored • Paid for by Charlie Kirk

Scandinavian Socialism is a myth. If leftists want a Scandinavian system, then they should also support: no minimum wage, school choice, fossil fuels, and a high level of economic freedom. Because that's the backbone of the Scandinavian model.

SCANDINAVIAN COUNTRIES ARE NOT EVEN CLOSE TO SOCIALIST

TURNING POINT USA

THE U.S.

#BigGovSucks

Charlie Kirk
INSTAGRAM.COM

Visit Instagr...

Inactive

Nov 22, 2019 - Dec 2, 2019

ID: 2550228741734495



About social issues, elections or politics



Charlie Kirk

Sponsored • Paid for by Charlie Kirk

If you didn't believe there was a fourth branch of government before @realdonaldtrump's presidency, it's time to start believing. They've worked overtime to take him down. It's time to fight back.

BUREAUCRACIES ARE THE GREATEST THREAT TO LIBERTY

FOX NEWS
Subscribed

TURNING POINT USA

AND ONE OF THE GREATEST THREATS TO AMERICA THAT WE HAVE TODAY

#BigGovSucks

Charlie Kirk
INSTAGRAM.COM

Visit Instagr...

Fake Followers Audit

Twitter Account: @twitter

Run Audit

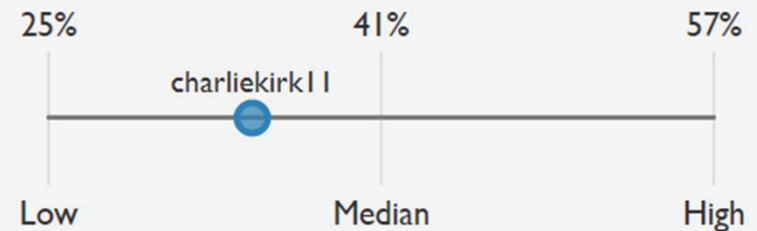
Fake Followers Audit for @charliekirk11



Charlie Kirk ✓
@charliekirk11
1,556,026 Followers

34.8% (541,497) Fake Followers

This tool defines "fake followers" as accounts that are unreachable and will not see the account's tweets (either because they're spam, bots, propaganda, etc. or because they're no longer active on Twitter).



Accounts with a similar sized following to @charliekirk11 have a median of 41% fake followers. This account has fewer fake followers than most.

Inactive for 120+ days

% of our sample accounts that have not tweeted in over 120 days.

7%**Inactive between 90 and 120 days**

% of sample accounts that haven't tweeted in the last 90-120 days.

1%**New Twitter User**

% of our sample accounts who have created their account in the last 90 days.

41%**Default Profile Image**

% of sample accounts that use Twitter's default profile image.

20%**Display Name**

% of sample accounts whose display name matches spam-correlated signals.

42%**URL Issues**

% of sample accounts that have no url or a non-resolving url in their profile.

92%**Location Issues**

% of sample accounts using a location that does not match any known place name.

60%**Number of Tweets**

% of sample accounts aged more than a year with a very low number of tweets.

29%**Over Sharing**

% of sample accounts that sent an abnormally large volume of tweets each day.

13%**Times Listed**

% of sample accounts that are on an unusually small number of lists.

97%**Number of Followers**

% of sample accounts that have a suspiciously small number of followers.

71%**Number Following**

% of sample accounts that follow an unusually small number of accounts.

58%



Starter

Get the ball rolling!

All Scheduling and Automation Features

10 Social Accounts

Top 8 Social Media Platforms

Premium Customer Support

\$ **29.95** /month

Start Free Trial

**No credit card required*

Regular

Our most popular plan!

All Scheduling and Automation Features

30 Social Accounts

Top 8 Social Media Platforms

Premium Customer Support

\$ **49.95** /month

Start Free Trial

**No credit card required*

Professional

Time to scale up!

All Scheduling and Automation Features

70 Social Accounts

Top 8 Social Media Platforms

Premium Customer Support

\$ **69.95** /month

Start Free Trial

**No credit card required*



Captain Tweet

Social Star
For the Sailing Master

\$3.99 /month

- 1 Twitter account
- Up to 1 automation
- Up to 100 likes per day
- Up to 50 follows per day
- Auto unlike and unfollow

Small Agency
Quartermaster's Pick

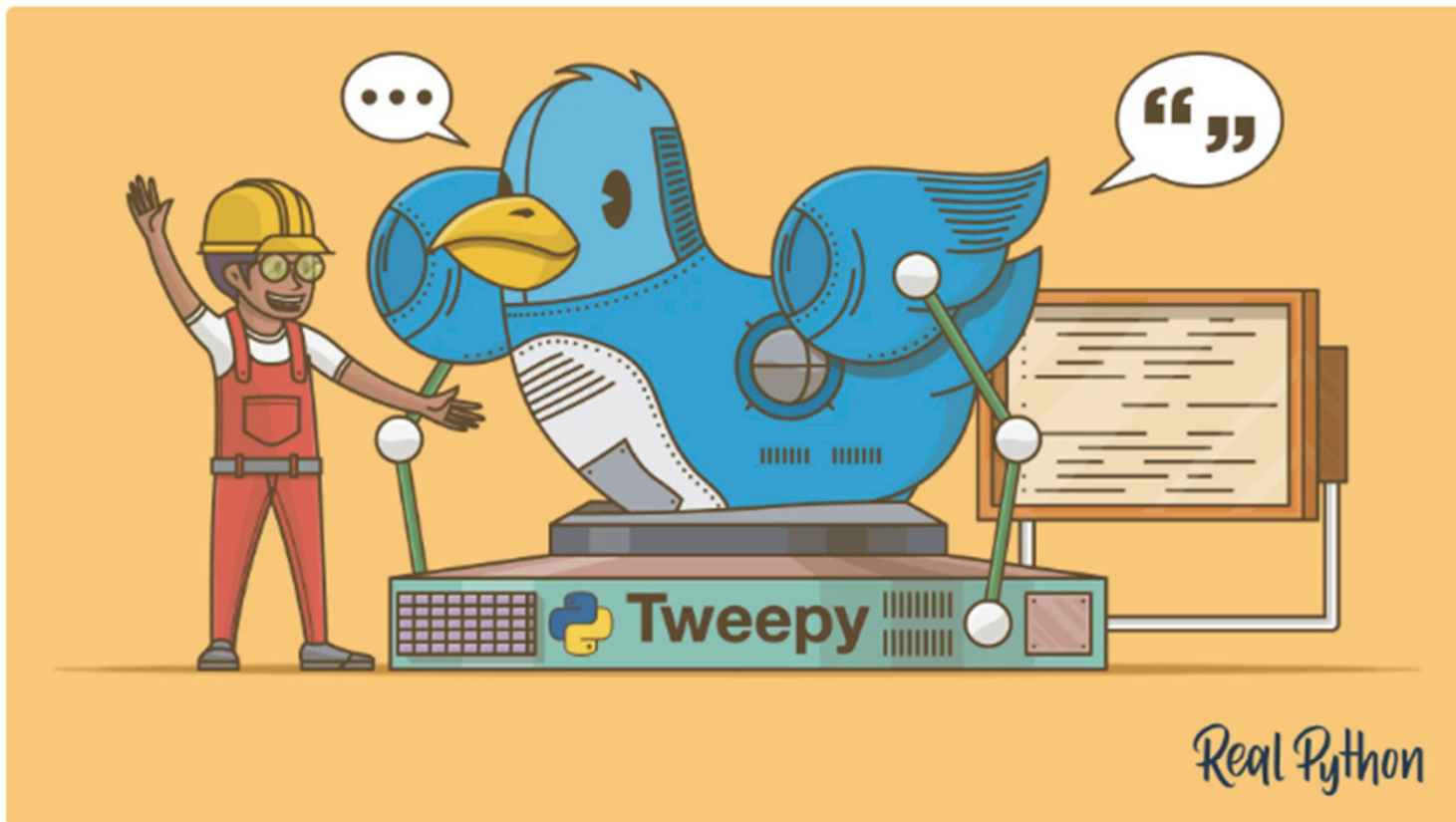
\$15.99 /month

- 3 Twitter accounts
- Up to 3 automations
- Up to 200 likes per day
- Up to 100 follows per day
- Auto unlike and unfollow

PR Guru
Ahoy First Mate!

\$55.99 /month

- 5 Twitter accounts
- Up to 10 automations
- Up to 400 likes per day
- Up to 150 follows per day
- Auto unlike and unfollow
- Strategy Reviews



How to Make a Twitter Bot in Python With Tweepy

by Miguel Garcia ⌚ Jun 10, 2019 💬 65 Comments 🏷️ api docker intermediate

Results for "retweets"

Category Service Options Seller Details Delivery Time Budget

Pro Services Online Sellers

129 Services Available

Sort by Relevance



malisha124

I will provide organic twitter retweet

★ 3.0 (2)



STARTING AT \$5



sumiafree

I will provide fast organic twitter retweet



STARTING AT \$20



malisha124

I will provide organic twitter retweet



STARTING AT \$20



seu_pole

I will add permanent 200 retweets



STARTING AT \$5



sudeshkumar07
Level 2 Seller

I will make twitter like and retweet animations



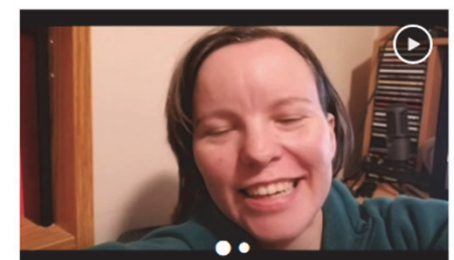
klarent
Level 1 Seller

I will promote your twitter to a large audience



sumiafree

I will provide fast organic twitter retweet



humanissocial

I will give you tips and tricks for improving on twitter



Jeff 🇺🇸 🇮🇹 KAG
@stlpcs

No rider train
IF YOU STAND STRONG FOR TRUMP
Add comment with twitter @ name
so others can follow you.

👉 RETWEET THIS tweet

Follow everyone on page & re-tweeters 🧑🏻 🤗

📖🖋️ Bookmark, come back and make new friends 👍

I will retweet all comments



New to Twitter?

Sign up now to get your own personalized timeline!

[Sign up](#)

Relevant people



Jeff 🇺🇸 🇮🇹 KAG
@stlpcs

[Follow](#)

USMC vet, OOH-RA 🇺🇸 God, 🇺🇸 country & family 🇮🇹 Italian descent. Dad served USMC to become 🇺🇸 citizen I follow back. 🇺🇸 🇺🇸 REPUBLICAN, MAGA Trump 👍

Trends



ПРОВЕРЕННЫЕ ПАРТНЕРКИ

ТИЗЕРНАЯ РЕКЛАМА

КОНТЕКСТНАЯ РЕКЛАМА

POPUNDER & CLICKUNDER

БАННЕРНАЯ РЕКЛАМА

НАТИВНАЯ РЕКЛАМА

SMS ПАРТНЕРКИ

CPA ПАРТНЕРКИ ИЛИ ОПЛАТА ЗА
ДЕЙСТВИЕ

PUSH РЕКЛАМА

ADULT ПАРТНЕРКИ

ПАРТНЕРКИ ИНТЕРНЕТ - МАГАЗИНОВ

КАЗИНО, БЕТТИНГ И ПОКЕР ПАРТНЕРКИ

ВИДЕОРЕКЛАМА

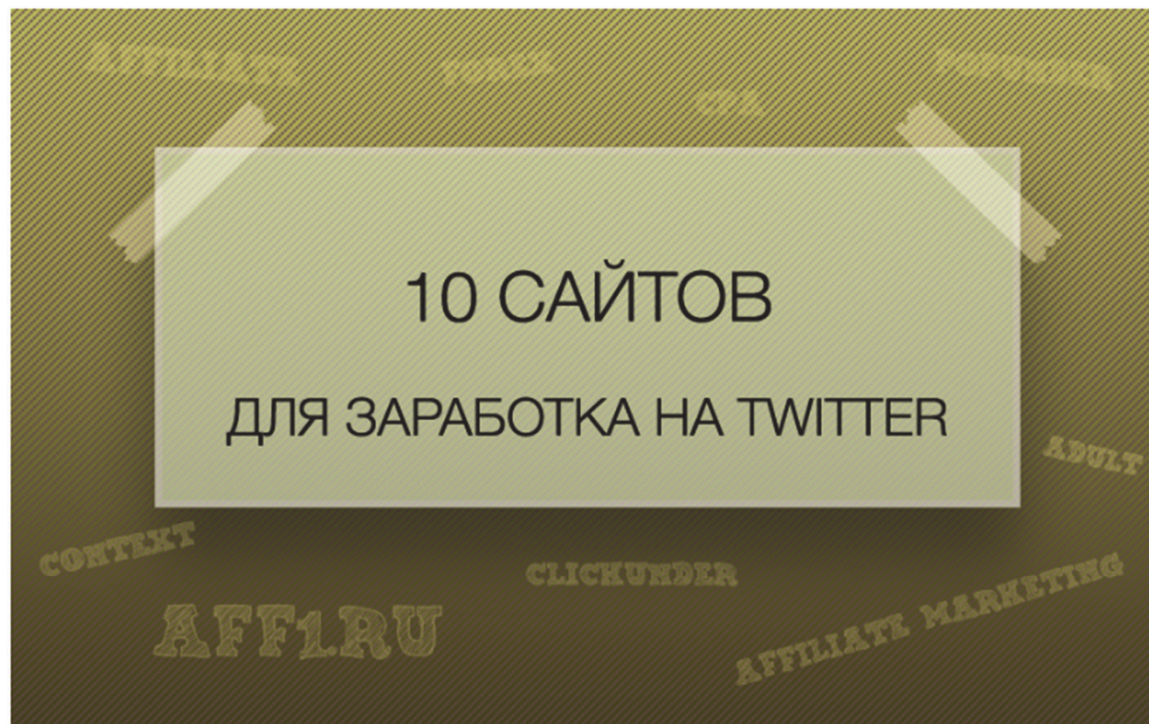
FOREX ПАРТНЕРКИ

МОБИЛЬНЫЕ ПАРТНЕРКИ

10 сайтов для заработка на Twitter

Категория: Блог Просмотров: 6961

★★★★★ Рейтинг 5.00 (3 Голосов)



Можно ли **заработать на своём аккаунте Twitter** или страничке в другой социальной сети? Если есть много читателей (друзей, подписчиков и т.д.), то вполне возможно. Основной инструмент получения дохода – размещать рекламу, которую увидит множество пользователей.



VKTARGET

VKTARGET advertising system is engaged in posting information in all social networks. You can earn here by completing the following tasks: subscribe, retweet, publish a post.

The post is published as follows: you must copy the text proposed in the task and paste it into your own Twitter account. A system for verifying the fulfillment of a task is provided. After receiving payment, you cannot cancel any actions performed, delete records, etc. There is an opportunity to earn on referrals attracted by a special link: the invitee is charged 15% of the referral income.

- **Cost of action:** from 0.45 rubles
- **Number of tasks:** a lot, and added during the day
- **Minimal:** 50 rubles

SOCIALTOOLS



SocialTools offers advertisers brand loyalty technology. Messages are not advertisements, but friendly advice, the transfer of their own experience using the goods or services of the advertiser.

To make money on your Twitter account you need to fill out a profile, indicate in it the geography of residence, age, your interests, etc. After that add accounts on social networks. They are moderated. Further, the participant will be able to take into work those orders that are available to him in accordance with the available parameters.

- **The cost of action:** from 2 rubles
- **Number of tasks:** few
- **Minimal:** 15 rubles

Лайки страниц

С помощью системы таргетинга Вы привлечёте аудиторию, которой будет искренне интересна публикуемая Вами информация.

Покупка комментариев

Улучшайте репутацию и доверие с помощью всегда лояльных к Вам пользователей.

Page Likes

With the help of the targeting system you will attract an audience who will be genuinely interested in the information you publish.

Buying Comments

Improve your reputation and trust with the help of users who are always loyal to you.

Покупка постов

Размещение материалов в популярных аккаунтах позволит многократно увеличить узнаваемость Вашего продукта.

Лайки для сайтов

Повышайте посещаемость Вашего ресурса. Вы можете заказать лайки к любой странице в интернете.

Buying posts

Placing materials in popular accounts will significantly increase the recognition of your product.

Likes for sites

Increase traffic to your resource. You can order likes to any page on the Internet.

Twitter Retweets

Twitter is a social network of microblogging that allows you to share with other short messages. No wonder musicians, artists, politicians, companies love this social network so that they can briefly and clearly talk about the main thing. And if it is important for you to have many followers, retweets, favorites (likes) - our service will help you!

Покупка ретвитов Twitter

Twitter - социальная сеть микроблогов которая позволяет делиться с другими короткими сообщениями. Недаром музыканты, артисты, политики, компании так любят эту социальную сеть, чтобы можно было кратко и ясно рассказать о главном. И если вам важно иметь много фолловеров, ретвитов, избранное(лайков) - наш сервис вам поможет!

Make an order at a bargain price!

100 Retweets

70 P

To order

250 retweets

175 P

To order

500 retweets

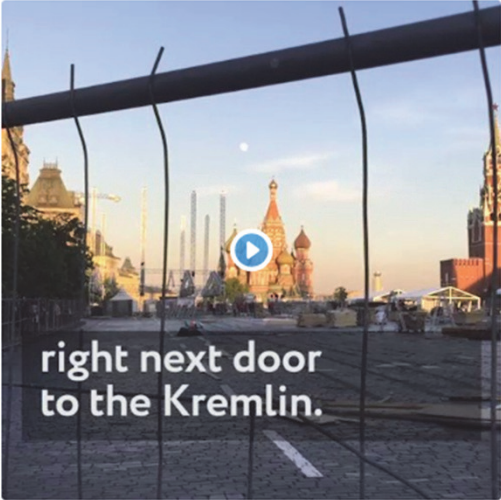
300 p

To order

Donara Barojan is a Digital Forensic Research Associate at the @DFRLab. Follow along for more in-depth analysis from our #DigitalSherlocks.

Alexey Kovalyov @Alexey__Kovalev · Jun 7, 2017
 Replying to @Alexey__Kovalev
 Humans of late capitalism. I've just seen a video of all those likes arriving at the same time when you buy them. End is near.

Alexey Kovalyov @Alexey__Kovalev
 There you go. My friend @vsonkin made a video of the Like machine in action.



right next door to the Kremlin.







522 2:57 PM - Jun 8, 2017

598 people are talking about this

For 200 rubles (\$3.47 USD), a customer can buy 200 likes from the machine, which the customer can immediately use to like any of their photos on Instagram.

Twitter bots

Twitter bots sold on Hansa market promise thousands of likes, retweets, and followers for as little as \$5.50 (USD).

	2000 HQ USA TWITTER LIKES DigitalPablo [+484]-14 Level 8 (800+)	USD 6.00 ₹ 0.0024	Buy Now Views: 15
	2000 HQ USA TWITTER RETWEETS DigitalPablo [+484]-14 Level 8 (800+)	USD 6.30 ₹ 0.0025	Buy Now Views: 11
(Source: Hansa via Tor)			
	Twitter Bot (Get Real Followers, Bruteforcer, Simple Cracker) DrunkDragon [+7149]-87 Level 12 (10000+)	USD 5.50 ₹ 0.0022	Buy Now Views: 93
	Twitter.com Leaked Database 41,016,492 records doubleflag [+107]-1 Level 9 (200+)	USD 52.50 ₹ 0.0210	Buy Now Views: 98
	41,016,492 Twitter.com plaintext Social Media doubleflag [+107]-1 Level 9 (200+)	USD 27.50 ₹ 0.0110	Buy Now Views: 4
(Source: Hansa via Tor)			
	TWITTER LOGINS 41,016,492 (41 MILLION) CLEARTEXT LOGINS CRACKED EMAIL-OR-USER & PASS boozeroover [+0]0 Level 1 (2)	USD 12.50 ₹ 0.0050	Buy Now Views: 148
(Source: Hansa via Tor)			

Our findings about bots on the Dark Web (so far)

Various forums (e.g., Reddit, BlackHatWorld) agree that there is **nothing spectacular** or out of the ordinary when it comes to social media growth services since the “Clearnet” has enough **widely available lightly regulated sketchy, semi-legitimate,** and legal services already.

Why Look At Bios?

- To better understand Twitter users' purported:
 - ideologies,
 - networks,
 - influencers,
 - affinities, and
 - demographics.
- To identify tactics for:
 - legitimate forms of political organization,
 - automated, semi-automated & human network development, and
 - trolls and bots performing illegitimate election interference.

Followers

Following



US_Patriot

@Love_USA56 Follows you

Follow

#MAGA#RetiredUSAFMSgt #LGBTQally#Q #ImpeachmentSham #AmericanPatriot #TrumpIsTakingDownTheWorldWidePedoRing #StopHumanTrafficking#QAnon



Mark Schumacher

@MSchumacher Follows you

Follow

These are the times that try men's souls...T. Paine. #FormerFetus #10A #2A #Israel #SOT #DrainTheSwamp #LimitedGovernment #EnumeratedPowers #KAG



Cal Patriot - ΜΟΛΩΝ ΛΑΒΕ

@CalPatriot63 Follows you

Follow

Loyal Californian / American #Patriot #MAGA #KAG #WWG1WGA #QAnon #NRA / #CRPA / #GOA Member 100% #2A #3PCT #RKBA #teaparty #ΜΟΛΩΝΛΑΒΕ #IFBAP



Hermi

@Hermitzville Follows you

Follow

KAG, Patriot, Love God, family, friends & dogs. The Great Awakening, Q, Q+, Qanon, The Storm, Walkaway, WWG1WGA, Love memes, gifs & retweeting, IFB Patriots



Conchita Von Prank

@mami19180 Follows you

Follow

Mom-Wife-Conservative-Catholic-Pro-life-#2nd.-God and Country-Pro-Israel-#SisterPatriot #tgdn #MAGA #KAG2020



Denise

@Dlellis45 Follows you

Following

I am a Patriot who Loves President Trump! TRUMP 2020



Davecatbone

@Daver2956 Follows you

Following

#FBTS! #KAG #MAGA Deplorable Blues & Jazz Guitarist - Ardent supporter of President Trump and not tired of WINNING yet...



Vashon Deplorable

@D_Finch Follows you

Following

I enjoy family, grandkids, cats, and friends! #MAGA #Qanon #Qarmy



Shelly Beach

@ShellyBeachNZ Follows you

Following

Proud New Zealand Patriot back up account for Michele Beach @thebeachesNZ. Q Anon Follower, TRUMP FAN. NO TO GLOBALISM/SOCIALISM/COMMUNISM. WWG1WGA



David

@David05183618 Follows you

Following

Puerto Rican in Texas, Veteran, Trump supporter 100%. #Trump2020 and forever.



Angie Kyle

@akyle2009 Follows you

Following

Happily married. Mom of one. Freedom lover and fighter. Truth and Justice. Opinionated with the mouth of a sailor. #Trump2020, #MAGA, #KAG #WWG1WGA DM's

2087	#AmericaFirst #AntiDemocrat #BuildTheWall #ProGuns #ProIsrael #ProLife #ProVet #MAGA #KAG #ForeverTrumper! #RedBloodedAmerican #Trump2020 #God/#Family/#USA!!!🇺🇸	5
2088	#AmericaFirst #BackTheBlue #BuildTheWall #Christian #Conservative #KAG #Patriot #USAFVeteran	3
2089	#AmericaFirst #BackTheBlue #NeverForget Stand for Flag, Kneel before God. There is Right & Wrong. Parents: Teach Your Children #MAGA #KAG #VoterID #BuildTheWall	10
2090	#AmericaFirst #buildthedamnwall #inTrumpItrust #GodBlessAmerica #KAG2020 #OneNatuonUnderGod	10
2091	#AmericaFirst #BuildTheWall #MadeInUSA #DrainTheSwamp #Constitution	1
2092	#AmericaFirst #Buildthewall #NoAmnesty	1
2093	#AmericaFirst #BuildTheWall #ProudPatriot & Field Engineer. I have been a Trump supporter since the escalator. #MAGA #ProudDeplorable #WalkAway #GodBlessAmerica	26
2094	#AMERICAFIRST #BUILDTHEWALL #TRUMP #KAG #TRUMP2020 #MAGA #PATRIOT #CONSERVATIVE #KAG #FBTS #POTUS #DRAINTHESWAMP stand for something or be known for nothing!	1
2095	#americafirst #buildthewall followed by @pastorDScott	1
2096	#AmericaFirst #CONSTITUTION #DestroySocialism	1
2097	#AmericaFirst #Deplorable #Clinger #Benghazi #Patriot #BuildKate'sWall #GenFlynn #Reagan #Trump #MAGA #DraintheSwamp #NoSocialism #NoTyranny #No Deep State	3

2273	#ARMY #BanSharia #CONSERVATIVE #MAGA #FBTS #Constitution #1A #2A #VETS #TRUMP2020 #NRA #BuildTheWall #TRUMP #WWGA1WGA #DEPLORABLE #2ThumbsUpTrain	3
2274	#ARMY #Christ #USA #2A #Q #Wall #KAG #Trump #vet #III% #pizzagate #TRUTH	1
2275	#ARMY #Disabled #CHRIST_DISCIPLE #HUMANBEING #SPIRITBEING #MAGA #PATRIOT #VET #VETERAN #CHILDRENOF_1_CREATOR #PEACEMAKER #DAUGHTERS_SONS_OF_GOD #WORLDPEACE	2
2276	#Army #FairTax #GayConservative #WalkAway #TermLimits #Constitution #2020Trump #ElectoralCollege #BalancedBudget	1
2277	#ARMY #SFC #ENGINEER #VETERAN 21H4H 21B 21C 21V 21F 63D 5AAM 3ARCOM #OATHKEEPER #LNYHBT #1A #2A #MAGA #KAG #MAGAveteran X us † ☹️🏰	2
2278	#Army #Vet Medical Corps ,Small Business owner retired, I block liberal nonsense,#Conservative, #NRA, #MAGA #Veteran #2A #No List #TrumpTrain #KAG Not DATING	33
2279	#Army #Veteran, RN, Crossfitter. NY ❤️ #MAGA #TRUMP2020 #1A #2A usususus God & Country, Happily Married to Military Man ❤️us	11
2280	#ARMY Engineer Libyan survey team, #NRA, #PATRIOT, loving husband, dad and grandfather. #TEXAS proud. #JESUS, #USA, ⓪DM. #MAGA, #TRUMP2020 ususus	1
2281	#ARMY Female #Veteran, Designer, Artist , #Christian, Mother, #Constitutional #Conservative, Love my Dogs!	3
2282	#ARMY Medic #MAGAVeteran 91B 87-95 Married 28Yrs. Common sense PLEASE!! #MAGA # codeofvets #PATRIOT #Tunnel2Towers #wwp #WWG1WGA👏❤️ LIFE, Have FUN!!👍us100👏👍	3

2446	#Bernie #Nina #Tulsi #NeverHillary #FreePalestine #WikiLeaks #NoMoreWar #YemenCantwait #HandsOffSyria #Bernie2020 #HandsOffVenezuela #NoWarWithIran #ImWithKap	3
2447	#Bernie 2020 he/him	4
2448	#Bernie All doors are open to the believer. Patti Smith. J'en ai marre #demexit	22
2449	#Bernie supporter. There isn't black or white, latino or asian America - there's the United States of America.	1
2450	#Bernie2016	3
2451	#Bernie2016 #Bernie2020 #feelthebern #BernieSanders	2
2452	#bernie2020	72
2453	#Bernie2020	308
2454	#Bernie2020 #AnimalRights ClimateChange. wildhorses. #palmoilkills Demexited #FreeSpeech #Legalizelt.	2
2455	#bernie2020 https://t.co/ALYTEFC9h1	2
2456	#Bernie2020 #BernieSanders #NotMeUs People, Planet and Peace before Profit #GreenPartyUS	31
2457	#Bernie2020 - #M4A - #GND - #FJG #Corbynite - #UKLabour Tracking progressive candidates who are running for office in USA. Read the pinned thread.	100
2458	#Bernie2020 .Period	2

2752	#Biden2020 #TheBidenFront #NeverBernie #NeverWarren #NeverPete #TeamPelosi #ImpeachTrump #TheBidenBrigade #BeatHimLikeADrum	117
2753	#Biden2020 #TheResistance #Resist #voteBlue #lifelongDemocrat #RegisterToVote #GOTV #AmericansForImpeachment #JusticelsComing #GoodTrouble	9
2754	#Biden2020 #StandWithJoe Stand with America Supporter of President Obama Business Owner Wife Mother Sister #CountryOverParty	3
2755	#Biden2020 Run by @TomEllsworth3 & @HannahEllsworth	2
2756	#BIDEN2020 Married. Identical twin. Follow politics. Concerned about the U.S. and the world. Member of the Biden Front 2. Vote in 2020.	62
2757	#BIDEN2020 Married; Mother, Bachelor of Science degree in Business from Franklin University	4
2758	#BidenHarris2020	33
2759	#BidensWheelHouse 🗳️ #IContributedToJoeBiden #WithholdTheArticles #UkraineDocs #Obama #banassaultweapons #climatechange #resist #Immigration #ACA	22
2760	#BidensWheelHouse 🗳️ #IContributedToJoeBiden #3rdArticle #WithholdTheArticles #UkraineDocs #Obama #banassaultweapons #climatechange #resist #Immigration #ACA	11
2761	#BidenWontBeatTrump #BernieCare #Atheist #Progressive #NotMeUs #VoteBlueDrWho You can't #Resist with inside voices.	2

1	#MAGA	598
2	#MAGA #KAG	182
3	#MAGA #Trump2020 #NRA #Q	167
4	#MAGA #KAGus#NCus#TRUMP2020	136
5	#MAGA, #KAG,#NRA, #1A, #2A, RN, GSW, Mother of a Marine, Semper Fi, Molon Labe us #WalkAway, My vote mattered in Michigan us #JohnJamesUSSenate us	75
6	#MAGA #Trump2020 #Cult45 #WomenForTrump us #Freedom #America #Patriot #KAG #CruzCrew Equal opportunity criticizer whether GOP or Democrat Wrong is wrong!	70
7	#MAGAus@getongab🐦@QBlueSkyQus@Qanon76us @M2Madnessus@sxdocus@C_3C_3 @LisaMei62us@Catturd2us@IPOT1776us@KayaJonesus@GENFLYNNus@KTHopkinsGB	68
8	#MAGA #KAG #NRA #censorship #FreeOwen #FreeRogerStone #WINNING #FreeLauraLoomer #FreeAlexJones #FreeAssange #PardonFlynn	67
9	#MAGA/#KAG, TRUE BLUE AMERICAN #Cult45 member, A real #DEPLORABLEDREG 😊 😊😊😊#standwithhongkong	60
10	#MAGA US	59


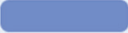

















<p>★★★loves Jesus, my incredible Husband, my wonderful Sons their amazing wives, our beautiful Grandkids, Pres.Trump and loves Israel #MAGA. #KAG #StopTheSteal</p>	2
<p>★★★StandWithFlynn🇺🇸 #MAGA🇺🇸#KAG🇺🇸#TRUMP2020 🙏Thankful for Digital Soldiers ❤️Jesus Husband Family 🐕Rescue 📖Eph2:10 Created for good works</p>	6
<p>★★★We're pissed and we coming for you. WE COMING FOR YOU ALL...Bunch of freaking CRAZIES.🇺🇸us🇺🇸</p>	10
<p>★★★</p>	1
<p>★🇺🇸#MAGALR</p>	1
<p>★🇺🇸 UC Biochemistry/Psychology 🇺🇸</p>	2
<p>★🇺🇸 Very Married... Independent... No DMs</p>	7
<p>★🇺🇸 We are infinite love</p>	6
<p>☂️ góa sī sai pak hō. góa ē-hiáu siá Tâi-bûn. Ethno-nationalism for Taiwan. 追求以色列利庫德模式IL單一民族國家。NF主張台澎共同體排中立台，法理台灣人自決建國，結束中華民國二族假合共和體制。</p>	1
<p>☂️ The Rain Makers ☂️ Rain Makers Unite ☂️ us UM MAGA ❤️ The Great Awakening 📖 QAnon us UM TrumpWorld 📖 WWG1WGA</p>	3
<p>☂️TRUMP2020🇺🇸 This President is blowing up the swamp! GOD keep DJT safe , pray for Him🇺🇸NO PORN or DM. God bless the USA.</p>	2

🌊🌊🌊 Navy disabled vet h8 45 #resist #resistance Vermont Law School and Sun Devil graduate #adoptdontshop	1
🌊🌊🌊 ProudDemocrat 🌊 Votes for Compassion, peace, equal rights, & healthcare for all. Luv old movies 🎬 British mysteries 🌿 ♀ 🌿 ♂ yellow flowers 🌻 🌻 animals 🐶 🐱 chocolate 😊.	2
🌊🌊🌊 Resister us #Impeachandremove Warren2020 or any functioning adult 😊 no DM's please, will block 45 supporters	7
🌊🌊🌊 Stop Trump 🌊🌊🌊	1
🌊🌊🌊 Trump is NOT my President 🌊🌊 #Resist.	1
🌊🌊🌊 Wife, mother, activist, cannabis enthusiast, Democrat, passionate about Fairness, Equality, Justice #Resist!	1
🌊🌊🌊 📧	9
🌊🌊🌊 📧 #TheMFIImpeached 📧 SEVERE Allergy BS 📧 #RESIGN 📧 #BlueWave2020 📧 #Resist 📧 #FBI 📧 #VoteOutAllComplicitGOP! 📧 Send 45 to RUSSHER! 📧 ❤️ 44 FOREVER 🌊🌊	4
🌊🌊🌊	4
🌊🌊🌊 #IMPOTUS #LGBTQally #Resist #BLM #GreenNewDeal #Unions 🌊🌊🌊 #GunSafety #NoKidsInCages UU Free Thinker	1
🌊🌊🌊 Retired US Army Master Sergeant. Grandmother. Resister. Happily married for 37 years. Christian. New account after being suspended!! Potty mouth!! 😊 😊	4
🌊🌊🌊 #RememberInNovember	3

us🇺🇸 Trump 2020 us🇺🇸❤️ I Love My Country ❤️ Conservative <u>100</u>	12
us🇺🇸🗳️	10
us🇺🇸⭐ us#Trumpus#KAG2020❤️ #TrumpTrain!!! God is good ALL the time! # NRAus#Buildthewall❤️us #MAGA #BeBest	3
us🇺🇸🌐TRUMP2020. #MAGA #WWG1WGA us🌐🇺🇸#The Great Awakening #QAnon #Space Force NO Personal DMS.	1
US🇺🇸	1
us🇺🇸us #MAGA #TRUMP2020LANDSLIDE 🇺🇸us🇺🇸🇺🇸🇺🇸 #USAALLTHEWAY🇺🇸😊	6
us🇺🇸🇺🇸#KAG 🇺🇸#IStandWithTrump #Prolife Grandma Mom Wife & Friend	5
us🇺🇸🇺🇸 The Danger of Silence? The Presumption of Consent...I will not retreat quietly! 🌸🌸Pro- Life🌸🌸🌸#MAGA🌸#KAG🌸 #WWG1WGA🌸 #FreedomCaucus🌸 fb @GenFlynn	2
us🇺🇸🇺🇸 Joined on the Day of Covfefe... If you disrespect @POTUS & @FLOTUS, you disrespect America! ❤️@GenFlynn @ScottPresler @Education4Libs #BoomersRule!	9
us🇺🇸🇺🇸🇺🇸 Old Army Vet. Grad. Univ. Mont. 1970. B.Adm.&Econ, Happily Married same wife 36 yrs. # CHRISTIAN #DEPLORABLE #TRUMP #PATRIOT #KAG2020 #TheGreatAwakening	1
us🇺🇸🇺🇸 You found me!usMAGA!! usMarried Father of 7, Pro Wall, Pro Life , Pro Jobs, Fighting The Good Fight. Always Seeking Truth & Justice.usus🇺🇸usus	1
us🇺🇸	2

usususususAnother beautiful day to #KAG #MAGAusususususus.The light shineth in the darkness; and the darkness comprehended it not.	1
usususususFrankie the pro,act as if, and it will be	7
usususususLove God and Country. Married and a Mother of 2. #MAGA #KAGA #2A Trump is my President. I am not looking for a date. #Pleasefollowback.	2
usususususlove my country and support my PresidentusMAGAusKAG	6
usususususPATRIOT #MAGA WWG1WGA	1
usususususTRUMP STRONG ~ EIGHT LONG ususususus WWG1WGA usususususususus KAG usususususususus #savage	2
USUSUSUSUSUS	1
USUSUSUSUSUS #MAGA ususususus usususus #TRUMP2020 ususususus	10
USUSUSUSUSUS TRUMP VICTORY 2020 #MAGA, #PROLIFE #TRUMP America the Beautiful USUSUSUSUSUS	5
USUSUSUSUSUSCalifornia #MAGA #VOTERFRAUD is real & R seats were stolen #EvilDems #MCGA #MAGA #KAG #KAG2020 #PATRIOT #CONSERVATIVE #FBTS #2A #NRA	1
USUSUSUSUSUSMAGAUSUSUSUSUSUS	2
USUSUSUSUSUSMAGAUSUSUSUSUSUSX	7
USUSUSUSUSUSUS #MAGA #KAG	1
usususususususus A Retired Grandma hoping for a good life for my kids and grandkids.	9

Bio Begins US Flag Emoji

Term	Count	↓
maga	 1,144	
kag	 600	
trump	 558	
trump2020	 389	
wwg1wga	 337	
patriot	 320	
2a	 299	
conservative	 275	
god	 245	
proud	 241	
america	 227	
love	 221	
nra	 219	
american	 217	
president	 206	
country	 167	
buildthewall	 132	
qanon	 127	
kag2020	 126	

Based on 281,000 Unique Bios

Term	Count	↓
maga	35,096	
trump	26,191	
love	23,996	
conservative	17,052	
god	14,492	
proud	14,461	
kag	14,286	
life	11,961	
country	10,707	
american	10,696	
christian	10,269	
patriot	10,004	

Based on 281,000 Unique Bios

Term	Count	↓
maga kag	7,682	
trump supporter	4,289	
president trump	3,257	
husband father	3,234	
happily married	2,635	
god family	2,370	
wife mother	2,211	
1a 2a	2,123	
god bless	2,027	
proud american	1,889	
love god	1,865	
love country	1,827	
donald trump	1,783	

Based on 281,000 Unique Bios

Term	Count	↓
god family country	1,291	
maga kag trump2020	973	
god bless america	887	
love god family	670	
trump supporter maga	636	
wife mother grandmother	609	
president donald trump	590	
support president trump	537	
husband father grandfather	512	
maga kag wwg1wga	420	
trump maga kag	404	
president trump maga	380	
trump2020 maga kag	354	
love god country	348	
god country family	342	
proud trump supporter	340	

Bot Defender - Proof of Concept Scripts

- [Prerequisites](#)
- [Basic Workflow \(CSV file\)](#)
- [Basic Workflow \(DiscoverText API\)](#)
- [Basic Workflow \(Gnip Raw Json\)](#)
- [Training and Re-training the model](#)
- [Individual Scripts](#)

Prerequisites

- Python 3.6 or higher
- A Twitter Developer account with an application (<https://developer.twitter.com/>). You'll need the *Consumer API keys* as well as a set of *Access token & access token secret* pairs for the application.
- (if connecting to the DiscoverText API), you'll need your DiscoverText API key, API secret, hostname, username, and password

Bot Defender (Alpha)

There are two primary classifier types

1. an *n*-gram naive Bayes classifier model, which uses 2,3,4, and 5-gram models combined and results a probability score for two classes: bot or good
2. a neural network that takes as input:
 - $p(\text{bot})$ (from the *n*-gram classifier)
 - $p(\text{good})$ (from the *n*-gram classifier)
 - number of days the Twitter account has been active
 - average number of statuses per day
 - average number of followers per day
 - average number of following per day
 - the description length in number of individual terms
 - the number of “lists” in the description
 - (e.g. god, country, president would be considered a “list”)
 - the number of hashtags used in the description
 - the number of URLs found in the description

K	L	N	O	P
num_days	account_creation_date	statuses_per_day	followers_per_day	following_per_day
18	1/16/2020 14:37	1766.055556	25.72222222	0
427	12/2/2018 23:40	1190.187354	27.84543326	6.255269321
1508	12/18/2015 5:21	1095.263926	13.88395225	2.413793103
26	1/7/2020 23:21	1093.730769	253.7692308	278.3076923
82	11/13/2019 10:33	1067.207317	146.6463415	161.304878
716	2/17/2018 0:30	915.5405028	19.9650838	15.62430168
906	8/11/2017 1:11	892.102649	263.7196468	1.415011038
14	1/19/2020 21:22	783.9285714	149.6428571	150.2142857
12	1/22/2020 18:13	764.3333333	28.33333333	48.08333333
1664	7/15/2015 4:38	727.2800481	19.97115385	18.81370192
215	7/3/2019 4:57	717.7627907	18.87906977	15.86511628
19	1/14/2020 21:58	691	13.15789474	25.05263158
491	9/29/2018 23:11	660.5824847	49.56619145	48.97352342
117	10/9/2019 15:22	653.8119658	220.3247863	200.6239316

N	O	P
statuses_per_day	followers_per_day	following_per_day
225.1860465	321.2093023	326.1627907
106.4810127	304.164557	205.7594937
273.3333333	288	262.3333333
115.9534884	278.372093	289.6976744
287.9868421	247.1743421	164.6480263
425.7916667	241.125	262.375
370.2936508	239.3095238	236.2222222
732.6840731	229.8342037	1.660574413
75	210.5	177
41.0729572	195.7524319	1.854085603
158.5714286	190.2	192.6571429
134	181.6666667	233.3333333
400.0466667	166.42	179.8266667

[Marilyn2617](#): Botometer score: 3/5. RT ratio: 99%. 4,900 tweets from last week. Most tweets by this user are emojis or “praying” or “amen”. Likely a bot.



Marilyn ★★★ @Marilyn2617 · 9h

Replying to @bluelivesmtr



Marilyn ★★★ @Marilyn2617 · 10h

Replying to @KeyserSosse



Marilyn ★★★ @Marilyn2617 · 10h

Replying to @PrayerHarbor and @AmericanIII



Marilyn ★★★ @Marilyn2617 · Feb 4

Replying to @Jamierodr14 and @freenaynow



From BotCheck.me: Political bot or highly moderated account.

From BotSentinel.com: Trollbot Rating: Alarming. 75%. Trollbot account.

[CorinnaElite](#): Botometer score: 4.2/5. RT ratio: 98%. 2,500 tweets from last week. Media section contains the same pictures reposted, flowers, religious statues, and the American flag. This account overuses emojis and tweets in English and German. Likely a human using a bot.



SuperElite Corinna 🇺🇸🇩🇪 @CorinnaElite · Feb 3

Replying to @mmccart72425513 @EcomemoryGreen and 16 others

Mal schauen, was sie zu meinem Problem meint. 😊😊



SuperElite Corinna 🇺🇸🇩🇪 @CorinnaElite · Feb 3

Replying to @mmccart72425513 @EcomemoryGreen and 17 others

Das kann man laut sagen. Aber es ist schön hier bei euch allen. Daher bin ich auch gerne hier. 🌹🌸🍀🙌😊❤️



SuperElite Corinna 🇺🇸🇩🇪 @CorinnaElite · 1h

Replying to @mmccart72425513 @Ecomemory1 and 17 others

👏👏👏🌹🌸🍀🌹 I have been able to work as normal on Twitter since last night. That is very nice 🙌🙌🙌🇩🇪🇺🇸🙌🙌😊❤️❤️❤️❤️❤️



[DoriMuetz](#): Botometer score: 3.9/5. RT ratio: 100%. 6,500 tweets from last week. Media section contains political memes. Likely a bot.

Verbal abuse:



#Trump_Gal_2.0 Dori Fawn #MAGA
@DoriMuetz



Replying to [@SpeakerPelosi](#)

Oh you Bitch..you tried to Impeach our President...how the hell else is he supposed to act...what you did by tearing up the speach was very low and classless...you lady are no team player or public servant..your wicked and your done..March 3rd...I hope your district retires you..

5:54 AM · Feb 5, 2020 · [Twitter for Android](#)

From BotCheck.me: Political bot or highly moderated account.

From BotSentinel.com: Trollbot Rating: Alarming. 82%. Trollbot account.

[BlueSea1964](#): Botometer score: 3.7/5. RT ratio: 93%. 3,100 tweets from last week. Media section contains GIF reactions. Account's latest tweets are mostly GIF reactions and laughing emojis. Likely a bot.



Bluestar @BlueSea1964 · 15h

Replying to @VinceEverett6



Bluestar @BlueSea1964 · 15h

Replying to @FrankPayton13 and @Boyd_2650



Bluestar @BlueSea1964 · 15h

Replying to @IMBILLY



From BotCheck.me: Political bot or highly moderated account.

From BotSentinel.com: Trollbot Rating: Problematic. 53%. Similar to a trollbot account.

[Hog_whisperer](#): Botometer score: 3.5/5. RT ratio: 92%. 5,500 tweets from last week. Media section contains repetitive pictures. Many one-word or emoji-only tweets. Likely a bot.

 **The Hog Whisperer PhD MAGA KAG 🇺🇸🇺🇸🇺🇸** @hog_whispe... · 10h
Replying to @jmbenson1491 and @rucofefefe
[@hog_whisperer](#)

🗨️ 1 ❤️ 1 ↗️

 **The Hog Whisperer PhD MAGA KAG 🇺🇸🇺🇸🇺🇸** @hog_whispe... · 10h
Replying to @StrawsForAll @BlancheBullshit and @Rambo_Jessica_
🙋🙋🙋🙋🙋🙋🙋🙋🙋🙋🙋🙋🙋🙋🙋🙋

🗨️ ↻️ ❤️ ↗️

 **The Hog Whisperer PhD MAGA KAG 🇺🇸🇺🇸🇺🇸** @hog_whispe... · 10h
Replying to @Aug1405 and @CareySJohnston1
Followed

🗨️ 1 ❤️ 1 ↗️

 **The Hog Whisperer PhD MAGA KAG 🇺🇸🇺🇸🇺🇸** @hog_whispe... · 12h
Replying to @ConservaVixen7
🙋🙋🙋🙋🙋🇺🇸🇺🇸🇺🇸

🗨️ ↻️ ❤️ ↗️

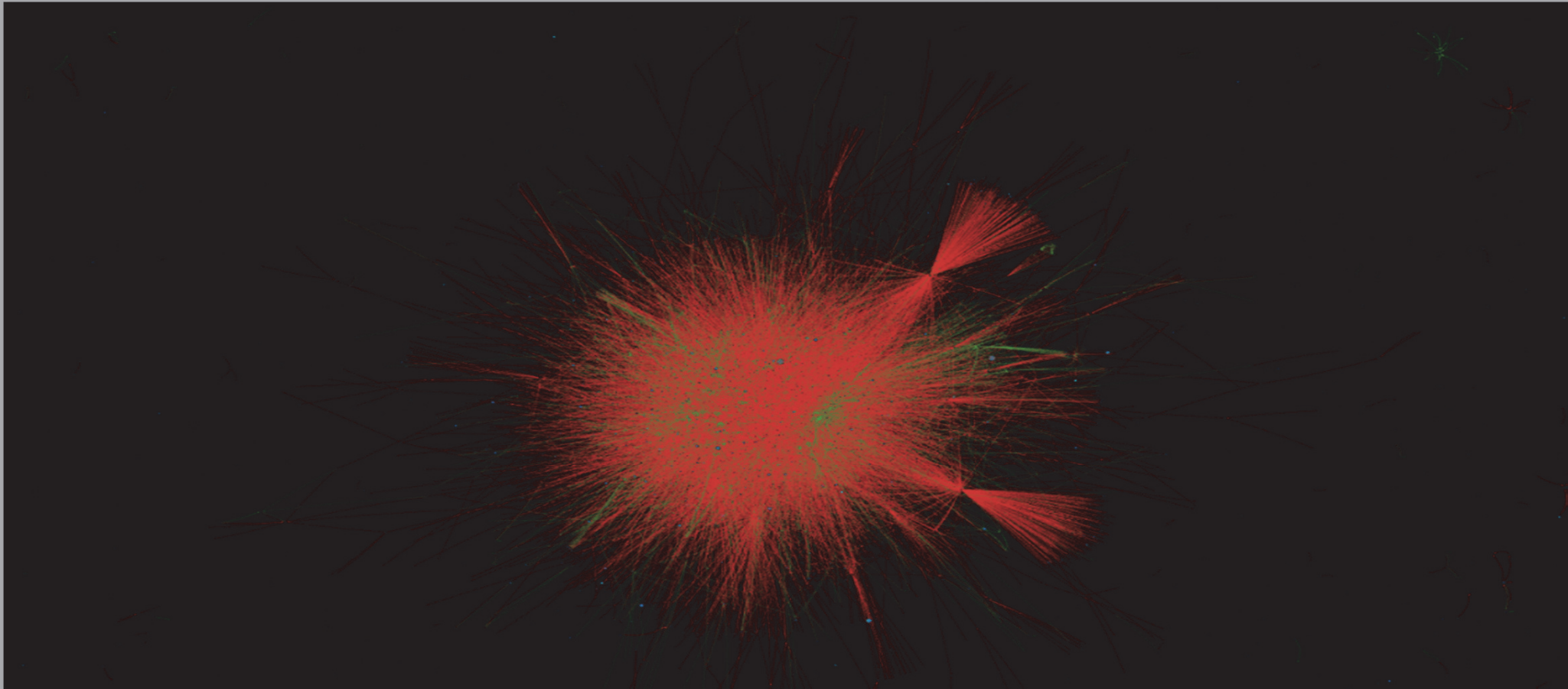
 **The Hog Whisperer PhD MAGA KAG 🇺🇸🇺🇸🇺🇸** @hog_whispe... · 12h
Replying to @marla77499424
🙋🙋🙋🇺🇸🇺🇸🇺🇸

🗨️ ↻️ ❤️ 1 ↗️

From BotCheck.me: Political bot or highly moderated account.

From BotSentinel.com: Trollbot Rating: Problematic. 68%. Similar to a trollbot account.

“WalkAway” Tweets in a local Neo4J graph database analyzed using GraphXR from Kineviz



42,667 unique users, 262 websites, 108,727 relationships, 26,337 unique retweets, 8,081 unique mentions

Relationships: green are mentions and red are retweets

Drilling in to Explore Networks

← **Flavius Aetius**
292.8K Tweets



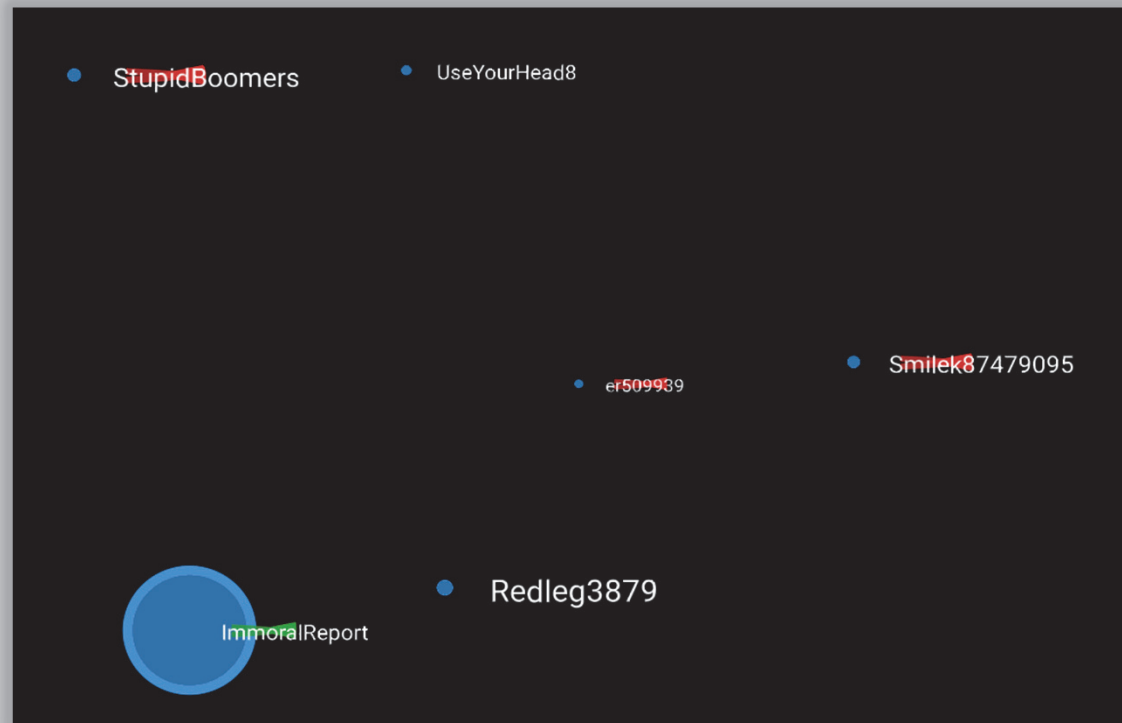
⋮ ✉ Follow

Flavius Aetius
@StupidBoomers

The Worst Generation-Leftist Baby Boomers-are destroying USA w their selfish, greedy & unsustainable entitlement policies-Young Vet-Media Bias MUST STOP #MAGA

📍 The Titanic State or CA 📅 Joined September 2010

34.1K Following 31K Followers



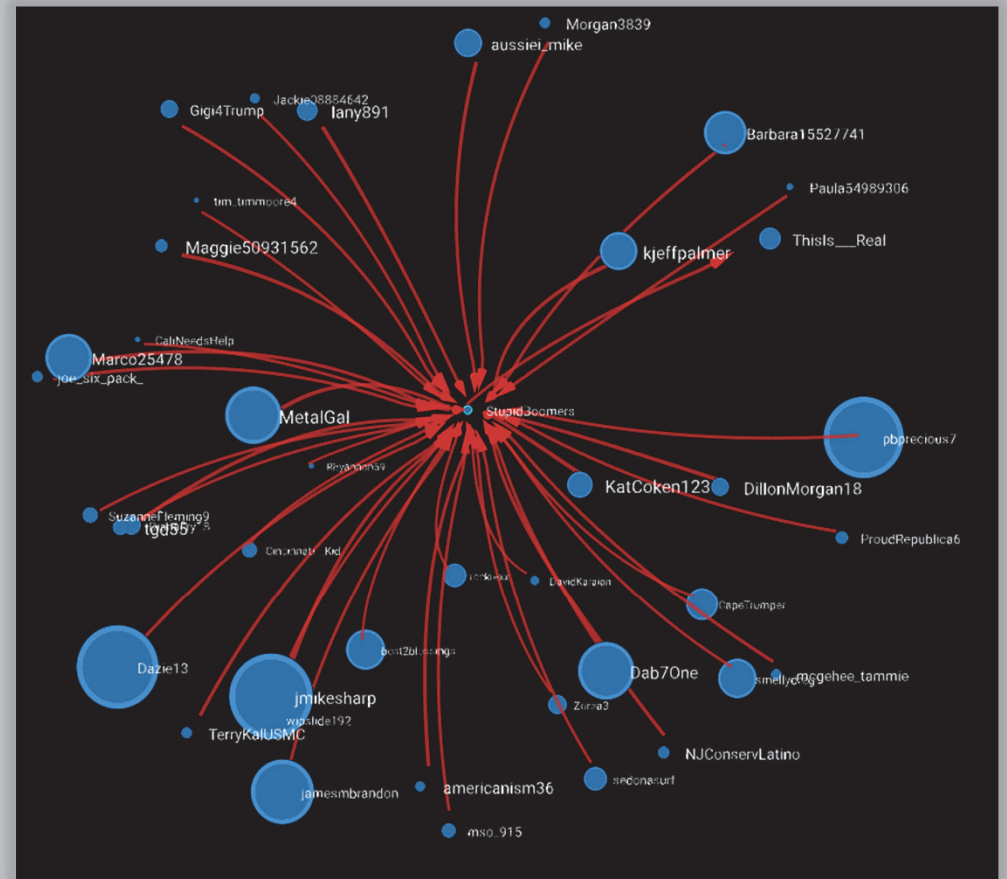
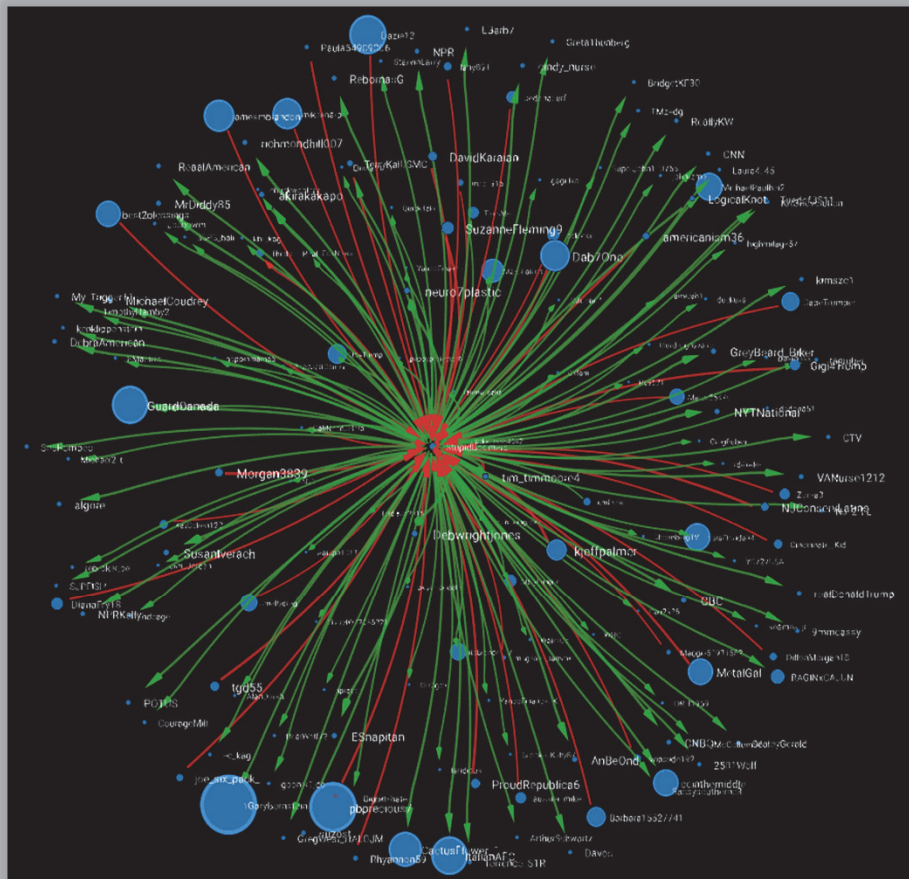
• StupidBoomers • UseYourHead8

• er509939 • Smilek87479095

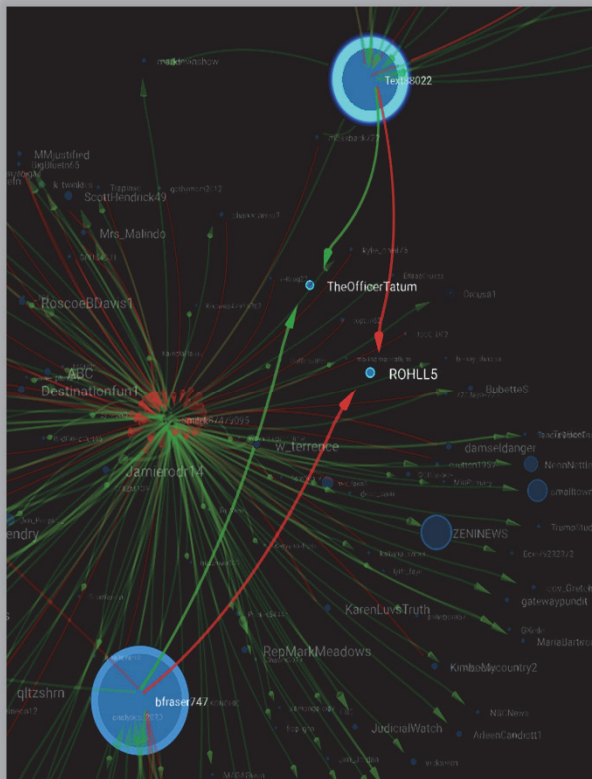
• Redleg3879

ImmoralReport

Network graph of @StupidBoomers and nodes that retweet



Social Networks Link Influencers to Likely Bots & Trolls Reinforcing the Reach of Both



Brandon Tatum
4,551 Tweets



Brandon Tatum
@TheOfficerTatum

Brandon Tatum's Official Twitter page.

Founder/CEO of The Officer Tatum LLC.

Co-Founder of #Blexit.

Ex-Police Officer.

Father. Man of God.

📍 Arizona, USA 🌐 [Theofficertatumstore.com](https://theofficertatumstore.com) 📅 Joined May 2014

1,326 Following **266.6K** Followers

Rena ★★★★★ **Text TRUMP 88022**
199.1K Tweets



Rena ★★★★★ **Text TRUMP 88022**
@ROHLL5

RT'd 7 Times BY @realdonaldtrump 🇺🇸 EXONERATE RogerStone & GenFLYNN ¹⁰⁰
@GenFlynn @RudyGiuliani @ScottBaio @ericbolling @w_Terrence #ScottBaioArmy
KAG2020

📍 United States 📅 Joined May 2009

38.6K Following **97.6K** Followers

Platform cooperation

Who can do this work

Facebook's data lockdown is a disaster for academic researchers

April 11, 2018 6.10am EDT

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150

454

Facebook recently announced dramatic data access restrictions on its app and website. The company framed the lockdown as an attempt to protect user information, in response to the public outcry following the Cambridge Analytica scandal.

But the decision is in line with growing restrictions imposed on researchers studying Facebook and its photo-sharing app Instagram, which also began immediately restricting access to its data on April 4.

In fact, several limitations were put in place in February this year, before the Cambridge Analytica fiasco – in which data was allegedly harvested from 50m Facebook profiles – erupted publicly. Facebook's API, version 2.5, was scheduled to be retired this month, by – among other things – preventing access to the ID of users participating in public forums.

Authors



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Social media giants are restricting research vital to journalism



TOW CENTER

By Jeff Hemsley

JULY 11, 2019

Technology & Ideas

Twitter's Misguided Barriers for Researchers

Access to a full range of tweets on some subjects is increasingly difficult and expensive.

By [Kara Alaimo](#)

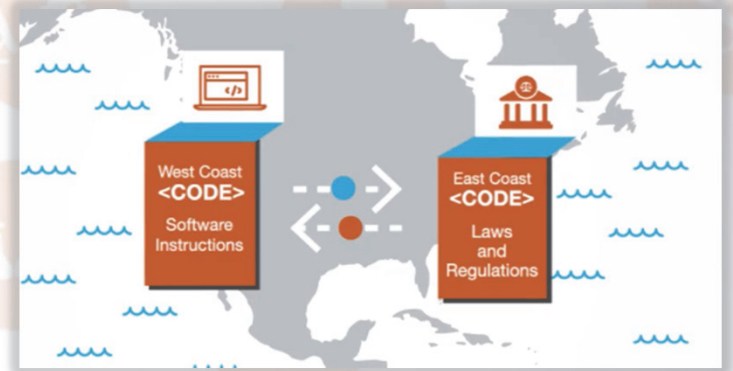
October 16, 2018, 11:00 AM EDT

Conceptual Article

“API-Based Research” or How can Digital Sociology and Journalism Studies Learn from the Facebook and Cambridge Analytica Data Breach

[Tommaso Venturini](#)  & [Richard Rogers](#)

Pages 532-540 | Published online: 17 Apr 2019



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Social Science One implements a new type of [partnership](#) between academic researchers and the private sector to advance the goals of social science in understanding and solving society's greatest challenges. Our mutually incentive-compatible approach enables academics to analyze and use the increasingly rich troves of information amassed by companies to address societal issues, while protecting their respective interests and ensuring the highest standards of privacy and data security.

A proposed game platform

Hunting bots & trolls, identifying Vets on a trajectory toward suicide, and stopping school shooters

What is the purpose of the game platform?

- It is a new way to think about:
 - Coding, labeling, and annotation
 - Using games to recruit top analysts
 - New layers of information security
 - Linking discreet tools in novel analytic processes
 - Building out the logic of CoderRank across new domains
 - Involving veterans who can serve in new ways

Game Principles: Initial Non-Proprietary Notes

Dr. Stuart W. Shulman | First Created November 7, 2019 | Updated February 5, 2020

1. Purpose

- Recruit and retain the best available players using a free, multiplayer public game.
- Start with training sets comprised of the Twitter followers and accounts followed.
- Invite trusted friends to work together to solve social identity problems.
- Build groups based on trust, teams based on winning, identities rooted in a cause.
- The primary goal is to authenticate social identities as a puzzle or quest.
- An application to report red flags to the platform about accounts that are potentially:
 - Spies, bots or trolls interfering in elections by violating the law or platform rules;
 - Teens, Vets, active duty service members on a trajectory to suicide; or
 - Cases of teenage social alienation on a pathway to school shooter violence.

2. Strategy

- Use the public version of the game to identify elite players for private games.
- Intelligence, language skills, domain knowledge, empathy, and other player traits rated.
- Visualize the properties and behavior of Twitter accounts in new ways:
 - De-identify representations that are Office of Sponsored Research compliant;
 - Create novel visualizations of account metadata, such as a synthetic bot score, using a neural network derived from account features such as status/day, Circadian rhythm, percent retweets, followers and followings per day, and other text and metadata features, including n-gram derived naïve Bayes classifiers;
 - Express, navigate, explore, and strategically engage with the most important real-time network actors, alone or in a team, to probe for signs of life; and
 - Access and visualize historical user and time-series network-formation data.

3. Structure

- Unlimited players versus limited players per instance.
 - Ex., ≤ 10 , OR ≤ 50 , OR ≤ 100 in an infinite hierarchy challenge scenario.
- Optimized first for phones and gaming consoles, later for immersive VR technologies.
- Levels of network views and high-speed graphical navigation:
 - Individual and filtered network account visualizations,
 - Progress through the game to earn ranking and prizes.
 - In particular languages, networks, specific domains, for certain tasks.

4. Themes

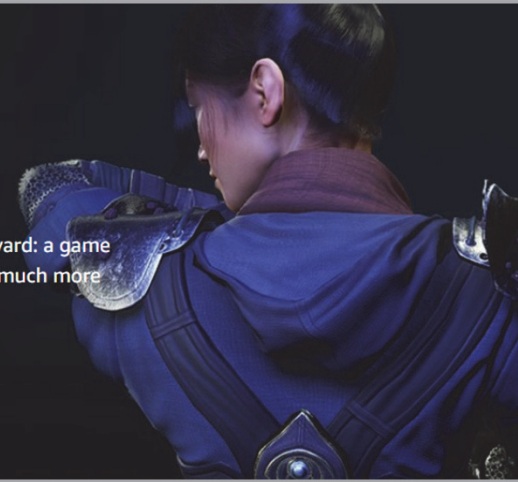
- Context sensitive scenarios and visualizations, for example:
 - “**Hunt**” for malicious bots & authoritarian trolls, *a defender of democracy*,
 - “**Protect**” family, friends, and peers, *a lifesaving hero*, or
 - “**Help**” find and connect authentic communities, be *a networking champ*.

Amazon Lumberyard

Free. Powerful. Fully Customizable.

We believe game developers deserve another choice. That's why we're building Lumberyard: a game engine with no royalties or seat fees, frictionless integration with Twitch and AWS, plus much more on the horizon.

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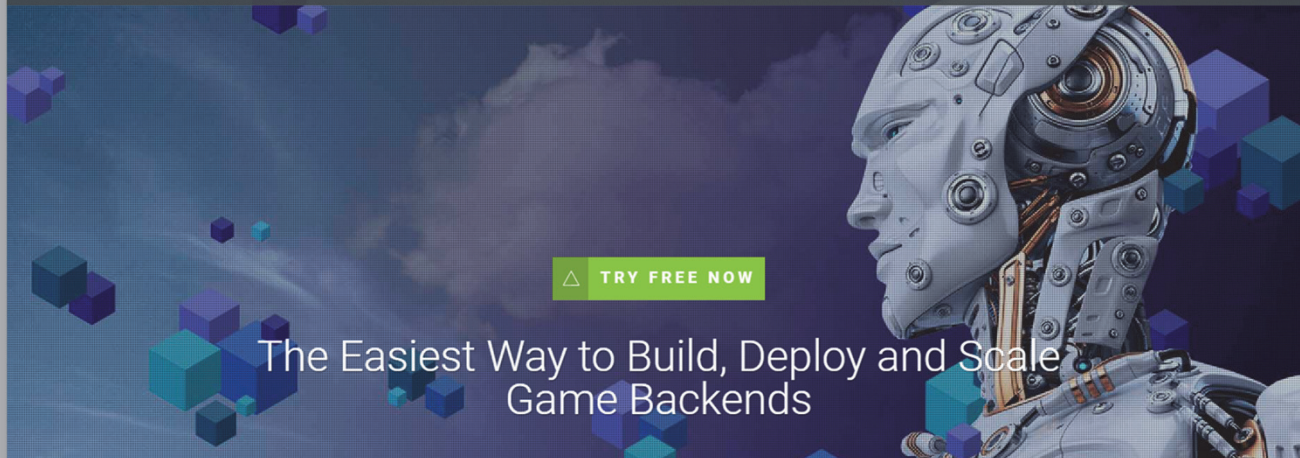


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VA embraces gaming as therapy for injured vets

BY LAUREN C. WILLIAMS • OCT 08, 2019

Gaming is becoming an official therapy tool for the Department of Veterans Affairs.





How the Xbox Adaptive Controller is helping VA medical centers support veterans



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Million Veteran Program (MVP)

National Artificial Intelligence Institute (NAII)

Nonprofit Program Office (NPPO)

Office of Research Protections, Policy, and Education (ORPP&E)

National Artificial Intelligence Institute (NAII) with a Research and Development focus on Veterans

Why AI R&D in VA?

VA is the largest integrated health care system in the country, has the largest genomic knowledge base in the world linked to health care information, and trains the largest number of nurses and doctors in the United States. In fact, nearly three-quarters of all U.S. doctors receive training in VA. Given this, VA is uniquely positioned to advance AI research and development to the frontiers of science and health for our nation's Veterans, and the population at large.

What is the National Artificial Intelligence Institute (NAII)?

The NAII seeks to develop AI research and development capabilities in VA as a means to support Veterans, their families, survivors, and caregivers. The NAII designs and collaborates on large-scale AI R&D initiatives, national AI policy, and partnerships across agencies, industries, and academia. The NAII is a joint initiative by the Office of Research and Development and the Office of the Secretary's Center for Strategic Partnerships in VA. The NAII is dedicated to advancing AI research and development for real-world impact and outcomes to ensure Veteran health and well-being.



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Hunting Bots & Trolls

Humans and Machines Learning Together

Dr. Stuart W. Shulman