

WHAT BROUGHT ME HERE?

Writer Con Speaker 2600 **DEF CON** Telephreak Recon Village **BSidesLV** DC Skytalks

Psychology

Hacker

Teacher/Mentor

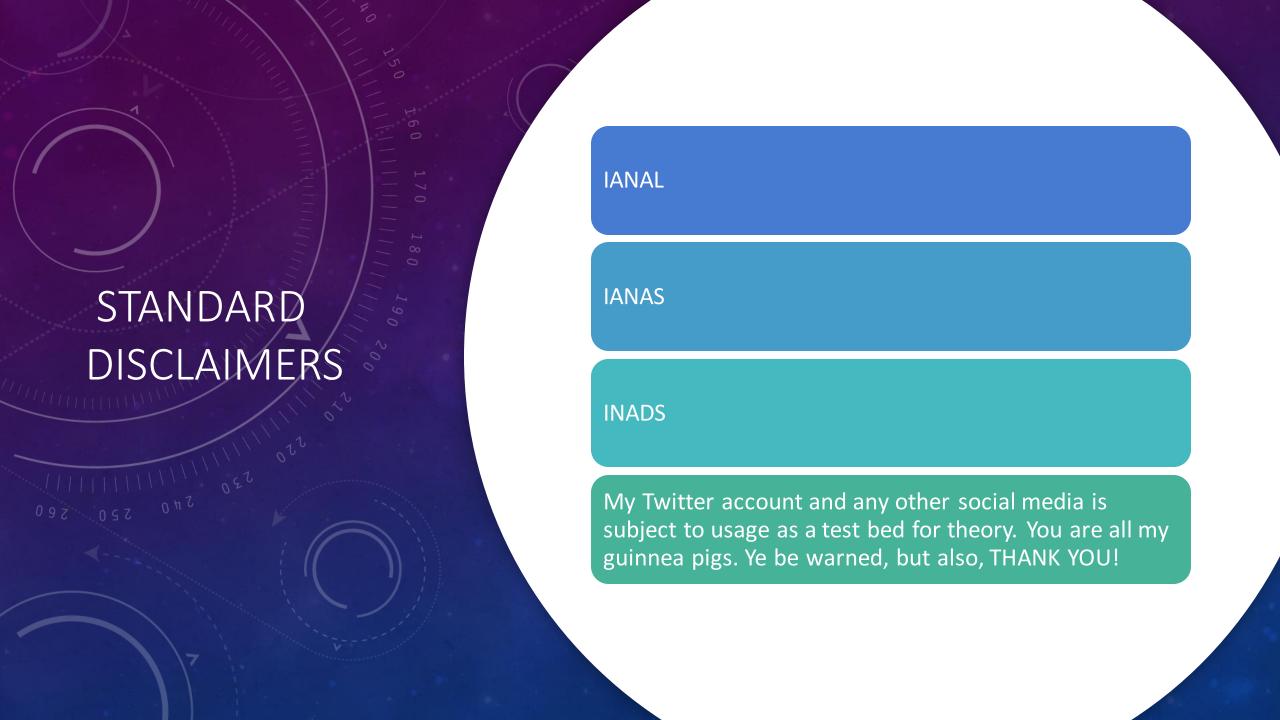
少林

Martial Artist

Self Defense

Stalking/Anti-Stalking

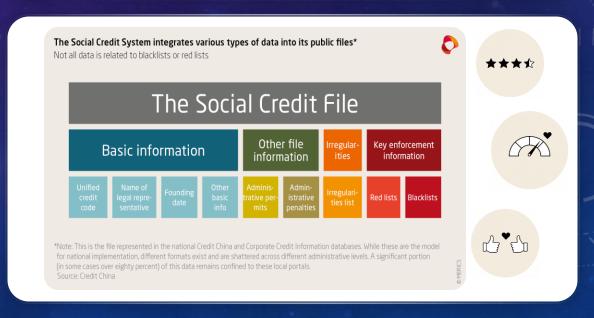
Amateur Data Scientist



CREDIT SCORES – BOTH FINANCIAL AND SOCIAL

- Risk scores based on accumulated metrics
- Used to influence behavior of the subject
- Provides "at-a-glance" summary of the subject within the context of the score





THREAT SCORES

- Uncover unknown imminent threats
- Tool for the person/team/entity in a position of defense
- Risk score in the opposite direction of "conventional" credit scores
- Pays attention to what matters*

Social Threat Score

Score to determine the probability What? and risk that a profile/account/entity may pose Stalkers Who? Bullies Self Defense Advanced knowledge Why? Psychological interest **Descriptive Statistics** How? Meaningful Metrics Where? Twitter

INITIAL THOUGHTS AND HYPOTHESES

- Twitter, as a publicly available database of sentiment, provides enough key indicators to determine if
 an entity has the influence and motivation to promote adverse activity against another entity; namely
 our own.
- Do <u>NOT</u> judge a book(person) by the cover, <u>BUT</u> get your computer to read the book and give you the cliff notes with a reasonable expectation of accuracy:-D



Word Frequency Tweet Frequency

Active Timeline: 4160 days, 0:00:00 Average Tweets Per Day: 2.307932692307692

Verified Percentage

Verified: 27 Unverified: 968

Verified Percentage: 0.0054

Follow Ratio: 0.0003539509712467888

Follow Ratio Meaningful Metrics

Sentiment Analysis

Positive Sentiment Percentage: 0.2830601092896175 Negative Sentiment Percentage: 0.12415300546448088 Neutral Sentiment Percentage: 0.5927868852459016

> Hashtag Usage

womenshistorymonth 24 debates2020 18 poetryin13 17 hangtenstories 15 writingcommunity 13 sixwordstory 9 covid19 6 poetry 5 prompt 5 christmascountdown 5 election2020 5 vss365 4 scifaikusaturday 3 films 3 filmtwitter 3 mtndewmajormelon 3 mypromotionentry 3 31daysofhorrormovies 3 vpdebate 3 wearamask 3

---Top hashtags---

THE PROCESS



Verified: 27 Unverified: 968

Verified Percentage: 0.0054

Means: Following 5815.747600767754, Followers 10302.415547024952 Tweets 6934.265834932821

Medians: Following 801.0, Followers 245.0 Tweets 694.5

Modes: Following 0 69 dtype: int64, Followers 0 10 dtype: int64 Tweets 0 0

dtype: int64

Mins: Following 2, Followers 1 Tweets 0

Maxes: Following 1469793, Followers 2498255 Tweets 741584

S. Deviations: Following 51837.986230493865, Followers 90581.36623660615 Tweets 30219.037135394614

- Scraped and analyzed my own followers first for "immeforte" threats
 - Descriptive statistics
 - Mean, Median, Mode, S. Deviation
 - Find the "influencers"
 - High follower counts, follow ratios, verified
 - Remove corporate accounts, bots, etc.
 - Grab timeline of "influencers"
 - Normalize (remove punctuation and lower case)
 - Check for various frequencies and compare
 - Spot check sample size of the follower population
 - Bullying behavior
- 2. Search for notable profiles to see comparison
 - Journalists
 - Celebrities
 - Politicians
 - Tech moguls

THE TEIGEN BASELINE

- In the news recently for cyber bullying
- Highly influential; "celebrity" status
- Makes for a good case study and baseline

ID: 39364684

Username: chrissyteigen

User Bio: de-motivational speaker

Account birthdate: 2009-05-11 22:50:04

Followers Count: 13524472

Friends Count: 4787

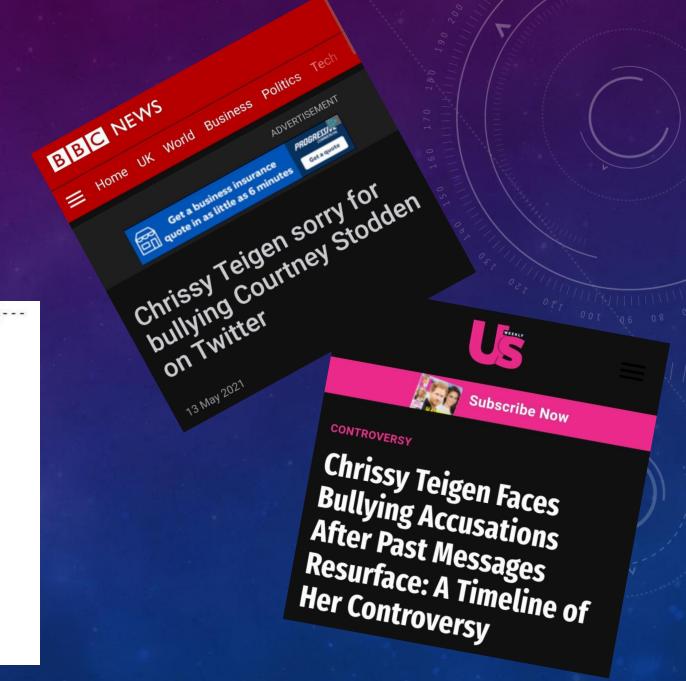
Tweets: 14383

Follow Ratio: 0.0003539509712467888

---chrissyteigen---

Positive Sentiment Percentage: 0.4161280393967375 Negative Sentiment Percentage: 0.17543859649122806 Neutral Sentiment Percentage: 0.40843336411203446

---Top words--lol 246 it's 205 like 192 i'm 187 rt 179 oh 139 people 135 know 134 130 one 128 don't 120 love 113 get 109 vashar 105 good 99 god 93 u 92 really 92 would 87 much 81



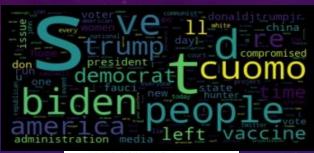
CASE SAMPLES – NEGATIVE SENTIMENT



---Top words--rt 829
151
like 133
people 129
it's 125
i'm 93
don't 93
one 84
thank 83

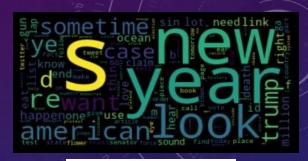
new 78
know 77
infosec 73
work 73
think 71
thanks 71
us 67
get 67
time 64
would 62

Positive Sentiment Percentage: 0.2830601092896175 Negative Sentiment Percentage: 0.12415300546448088 Neutral Sentiment Percentage: 0.5927868852459016



---Top words--rt 1720 biden 279 trump 255 like 166 it's 164 media 163 people 161 155 one 142 arthurschwartz 128 amp 124 would 122 democrats 114 us 110 joe 106 get 101 new 98 want 95 project 94

Positive Sentiment Percentage: 0.2830349531116795 Negative Sentiment Percentage: 0.15004262574595056 Neutral Sentiment Percentage: 0.56692242114237

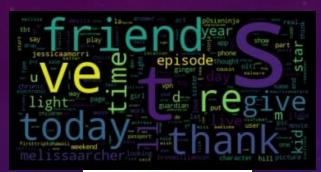


---Top words--rt 446

trump 236 people 197 like 171 im 153 one 145 voure 128 dont 121 117 know 105 thats 98 right 83 first 82 said 81 get 80 time 76 didnt 75

Positive Sentiment Percentage: 0.23374091795144428 Negative Sentiment Percentage: 0.1213893319156477 Neutral Sentiment Percentage: 0.644869750132908

CASE SAMPLES – POSITIVE SENTIMENT



---Top words--rt 794 thank 358

168
defcon 143
thanks 139
happy 121
amp 106
one 106
new 98
like 97

love 90
it's 87
i'm 87
nitotv 87
birthday 76
guardianiosapp 71
get 69
see 68

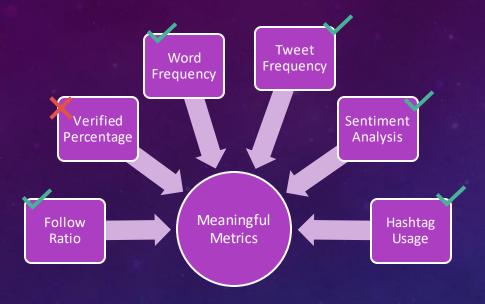
Positive Sentiment Percentage: 0.3956043956043956 Negative Sentiment Percentage: 0.07171775592828225 Neutral Sentiment Percentage: 0.5326778484673221

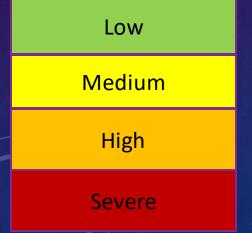


---Top words--astrology 1860 new 933 post 927 305 guru 55 life 51 auote 51 practice 44 rt 43 suffering 43 beings 39 love 39 ietsunma 38 compassion 37 rinpoche 37 **¥** 36 hung 35 amp 34 mind 34 us 33

Positive Sentiment Percentage: 0.36031892057651027 Negative Sentiment Percentage: 0.03189205765102729 Neutral Sentiment Percentage: 0.6077890217724624

THERE WAS SOMETHING ABOUT A SCORE?





Scoring is...hard

- Delta with combination of factors
- Weighting
- Percentage breakdown

INSIGHTS & IMPROVEMENTS

Insights

- Word frequency itself doesn't seem to be any indicator
- Negative sentiment may also be self
 deprecating...sadly, it's the highest negative
 percentage seen in the scrape (aside from a DJT
 parody account
- The "You" tendency

Improvements

- Profanity tracking
- Word/phrase searching
- Graphing the data
- Fine-tuning sentiment analysis

RESOURCES

- https://merics.org/en/report/chinas-social-credit-system-2021-fragmentation-towards-integration
- https://www.myfico.com/credit-education/whats-in-your-credit-score
- https://us-cert.cisa.gov/CISA-National-Cyber-Incident-Scoring-System
- https://GitHub.com/MasterChenb0x/SocialThreatScore