

# LING 583 – PROJECT REOPRT

## PROJECT #1 – Conspiracy Theory

### Data:

Shape - (17155, 2)

Columns – date (in type datetime[ns]), text (in type object)

Date Range - 01-01-2015 to 17-02-2023

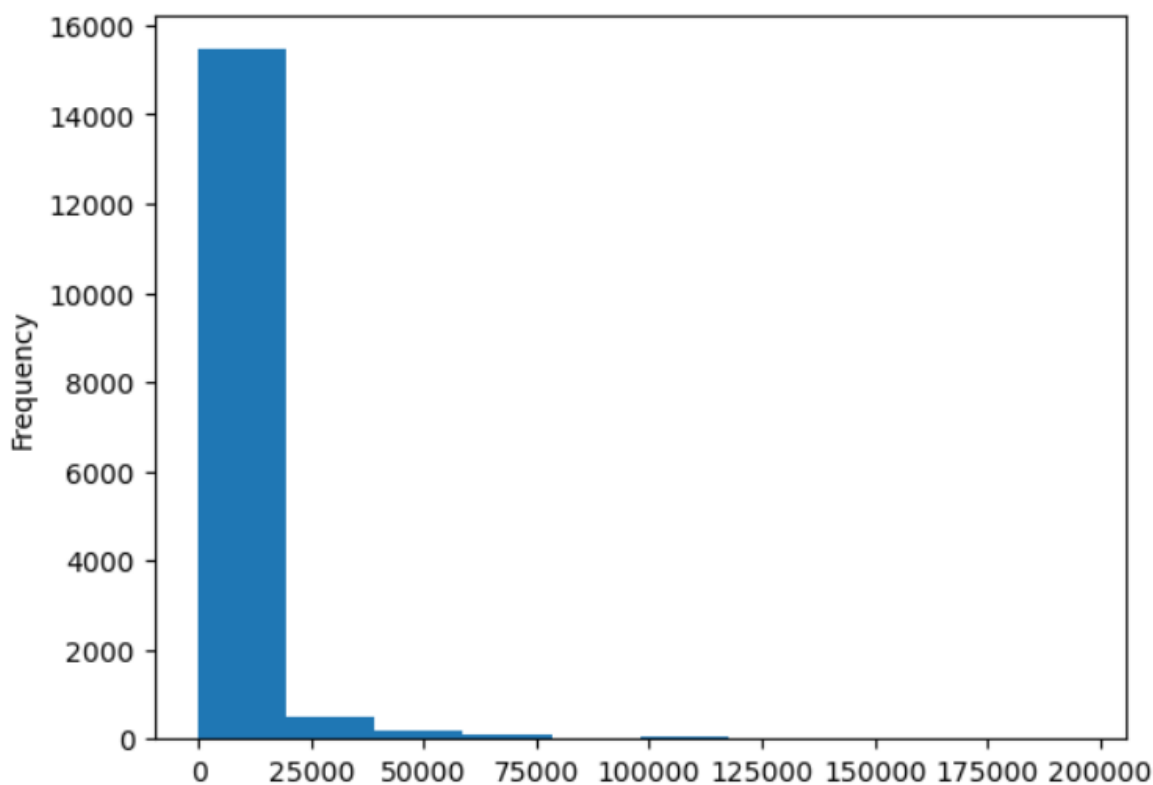
### Feature Engineering:

len – calculates the length of string in text

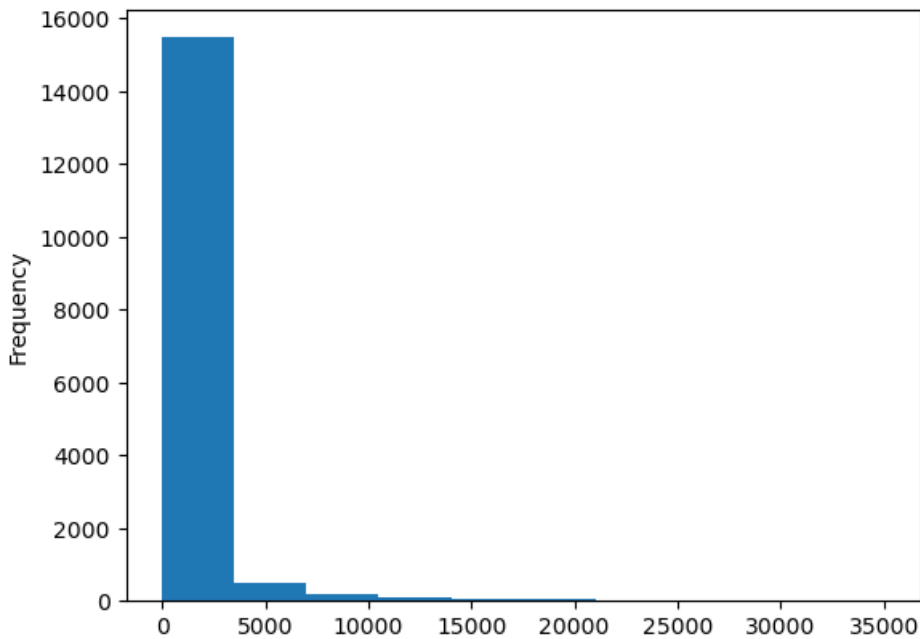
word\_count – calculates the number of words in text

### Observations:

On plotting a *histogram of len*, we observe that length of text is mostly less than 25000. However, there are outliers that go as high as > 100000.



For word\_count, the histogram shows that the number of words in the text is mostly less than 2500. However, the text with maximum number of words has **35024 words**.



```
0]: ##### Finding text with maximum number of words #####
df["word_count"].max()

0]: 35024
```

Only 10% of text has less than **31 words** and 90% of text has less than **1960 words**.

```
df[["len", "word_count"]].describe(percentiles=[.1, .5, .9]).T
```

	count	mean	std	min	10%	50%	90%	max
len	16342.0	5050.243973	13077.926887	1.0	174.0	1328.5	11014.3	195830.0
word_count	16342.0	893.690062	2313.954603	1.0	31.0	235.0	1960.0	35024.0

## Data Cleaning:

- Removing leading spaces. `df['text'] = df['text'].str.lstrip()`
- Removing emojis and any other component that is not a word or a number.

```
df['text_clean'] = df["text"].str.casefold().str.replace(r"(\W|\d)+", " ", regex=True)
df.head(5)
```

	date	text	word_count	len	text_clean
0	2019-08-09 21:58:14	Your post has been removed because it does not...	59	354	your post has been removed because it does not...
1	2022-01-15 19:16:00	Ugh. I am sick of seeing his face. He is so co...	127	719	ugh i am sick of seeing his face he is so cont...
2	2022-10-24 16:25:16	I'm not saying charges weren't used, what I am...	1608	8957	i m not saying charges weren t used what i am ...
3	2016-10-28 15:10:41	It's actually a callback to Tom Cruise's momen...	289	1660	it s actually a callback to tom cruise s momen...
4	2020-12-12 19:53:11	All caps titles are not permitted as per rule ...	40	225	all caps titles are not permitted as per rule ...

## Term Extraction:

**Spacy** model "en\_core\_web\_sm" has been used for term extract along with the *Matcher* feature it provides. We are trying to detect a pattern that begins with an adjective or a noun followed by singular/ plural common nouns or proper nouns along with hyphen.

\*\* From the extracted terms it is noticed that there are terms in text than do not contribute to our analysis like

```
[(('sa', 'sa', 'sa', 'sa', 'sa', 'sa', 'sa', 'sa', 'sa', 'sa'), 139),
 (('u_r_l',
  'u_r_l',
  'u_r_l',
  'u_r_l',
  'u_r_l',
  'u_r_l',
  'u_r_l',
  'u_r_l',
  'u_r_l',
  'u_r_l'),
 26),
 (('amp', 'amp', 'amp', 'amp', 'amp', 'amp', 'amp', 'amp', 'amp', 'amp'), 15),
 (('woo', 'woo', 'woo', 'woo', 'woo', 'woo', 'woo', 'woo', 'woo', 'woo'), 10),
 (('jidf', 'org', 'jidf', 'org', 'jidf', 'org', 'jidf', 'org', 'jidf', 'org'),
 7),
 (('cdc',
  'novel',
  'coronavirus',
  'ncov',
  'real',
  'time',
  'rt',
  'pcr',
  'diagnostic',
  'panel'),
 7),
 (('hahahahahahahahaha',
  'hahahahahahahahahahaha',
  'hahahahahahahahahahaha',
  'hahahahahahahahahahaha',
  'hahahahahahahahahahaha',
  'hahahahahahahahahahaha',
  'hahahahahahahahahahaha',
  'hahahahahahahahahahaha',
  'hahahahahahahahahahaha',
  'hahahahahahahahahahaha'),
 6),
```

So, we invoke a second round of **Data Cleaning** that removes words like

# List of words to **replace**

```
words_to_replace = ["u_r_l", "amp", "woo", "jidf", "org", "sa"]
```

This is followed by term extraction using **C values** with **theta = 100**. The list of ten most common terms and 20 least common terms has been provided below.

```
terms.most_common(10)
```

```
[(('don', 't'), 24262.75),
 (('didn', 't'), 13016.9),
 (('i', "'d"), 8614.692307692309),
 (('doesn', 't'), 8402.2),
 (('submission', 'statement'), 5046.0),
 (('isn', 't'), 3923.0),
 (('wouldn', 't'), 2452.0),
 (('couldn', 't'), 2247.5),
 (('many', 'people'), 2245.0),
 (('wasn', 't'), 1782.0)]
```

```
terms.most_common()[-20:]
```

```
[(('entire', 'thing'), 103.0),
 (('heart', 'issues'), 103.0),
 (('world', 'country'), 103.0),
 (('last', 'months'), 103.0),
 (('weird', 'shit'), 103.0),
 (('t', 'digree'), 103.0),
 (('iraq', 'war'), 103.0),
 (('anti', 'semitism'), 103.0),
 (('code', 'words'), 103.0),
 (('single', 'time'), 102.0),
 (('tucker', 'carlson'), 102.0),
 (('american', 'citizens'), 102.0),
 (('private', 'sector'), 102.0),
 (('time', 'frame'), 102.0),
 (('real', 'person'), 101.0),
 (('lol', 'lol'), 101.0),
 (('huge', 'difference'), 101.0),
 (('serious', 'question'), 101.0),
 (('good', 'place'), 101.0),
 (('smoking', 'gun'), 101.0)]
```

## Tokenization:

We create tokens from text data using Spacy pipeline incorporating the terms as created above.

```
[56]: ##### tokenizing data #####
df["tokens"] = [[t.norm_ for t in doc if not t.is_space] for doc in mwt.pipe(tqdm(df['text_clean']))]
100%|██████████| 16342/16342 [03:31<00:00, 77.431t/s]

[57]: df['tokens'].head()

[58]: 0 [your, post, has, been, removed, because, it, does, not, contain, a, submission statement, if, you, think, you, received, this, message, in, error, or, if, you, have, subsequently, added, a, submission statement, please, contact, the, mods, through, modmail, and, include, a, link, to, the, comment, with, your, submission statement, this, is, a, bot replies, and, pms, will, not, receive, responses]
1 [ugh, i, am, sick, of, seeing, his, face, he, is, so, controlled, opposition, so, obvious, where, s, he, pushing, them, i, changed, the, description, i, had, previously, lifted, it, directly, from, the, inspired, you, tube, channel, but, you, are, right, he, is, still, encouraging, people, to, get, vaxxed, with, the, faulty, injections, so, he, isn't, as, awake, as, he, professes, to, be, thanks, for, the, correction, shares, how, he, has, been, fully, red, pill, and, what, is, really, going...
2 [i, m, not, ying, charges, weren't, used, what, i, am, ying, is, the, mass, of, a, plane, will, definitely, go, into, a, building, especially, when, you, mix, force, from, the, planes, impact, any, explosives, that, were, in, the, plane, leverage, from, the, height, of, the, plane, the, temperature, from, everything, burning, don't, get, me, wrong, i, am, as, certain, as, i, can, be, there, were, explosives, planted, prior, but, i, m, speaking, solely, in, the, jet, fuel, thing, i, think, al...
3 [it, s, actually, a, callback, to, tom, cruise, s, moment, up, there, but, i, see, how, it, could, be, confusing, on, it, s, face, would, he, really, be, standing, on, the, couch, though, and, you, get, an, indictment, and, you, get, an, indictment, everyone, is, getting, an, indictment, joining, a, militia, and, taking, over, a, will, dilute, refuge, beware, of, the, new, swiss, guy, who, s, really, good, with, guns, what, that, trump supporters, are, afraid, of, being, assaulted, or, shamed, for...
4 [all, caps, titles, are, not, permitted, as, per, rule, please, repost, with, a, new, title, i, am, a, bot, and, this, action, was, performed, automatically, please, contact, the, moderators, of, this, subreddit, if, you, have, any, questions, or, concerns]
Name: tokens, dtype: object
```

## Topic Modelling – LDA:

We have used the **LDA model** from **tomotopy** with the following features

```
k = 20
min_df = 100
rm_top = 60
tw = tp.TermWeight.ONE
alpha = 0.1
eta = 0.01
tol = 1e-4
```

We want the cleaned and tokenized texts to be modelled under **20 topics** where words occur in at **100 times** across the data and **remove the top 60 words** which do not make any significant contribution to our analysis.

The model training and the top words removed are shown below

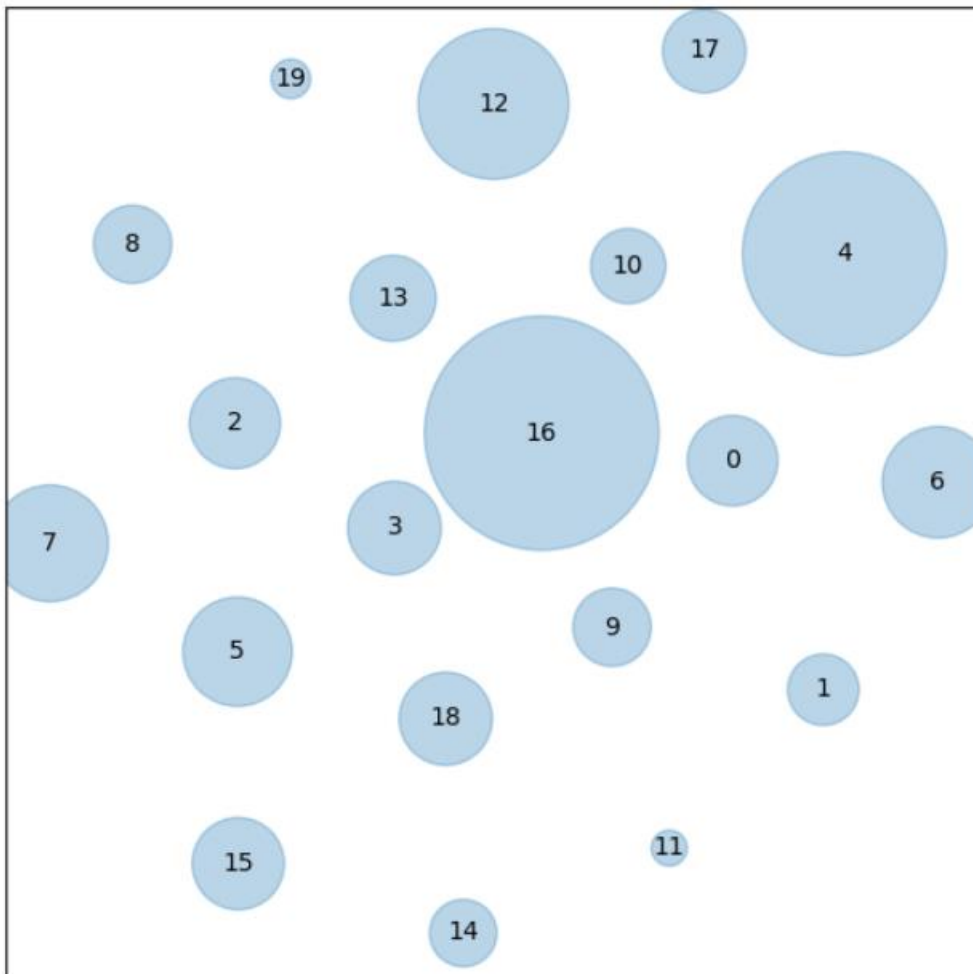
```
0 LL = -10.9233
50 LL = -8.9924
100 LL = -8.8709
150 LL = -8.8022
200 LL = -8.7542
250 LL = -8.7232
300 LL = -8.6990
350 LL = -8.6842
400 LL = -8.6702
450 LL = -8.6571
500 LL = -8.6491
550 LL = -8.6412
600 LL = -8.6348
650 LL = -8.6293
700 LL = -8.6238
750 LL = -8.6207
800 LL = -8.6170
850 LL = -8.6118
900 LL = -8.6129
Done!
CPU times: user 6min 42s, sys: 560 ms, total: 6min 43s
Wall time: 3min 30s
```

```
##### List of words removed #####
```

```
print mdl.removed_top_words
```

```
['the', 'to', 'and', 'a', 'of', 'i', 'it', 'you', 'that', 'is', 'in', 's', 'they', 'this', 'are', 'for', 'not', 'on', 'have', 'be', 'with', 'was', 'but', 'if', 'as', 'what', 'or', 'people', 'just', 'all', 'he', 'can', 'we', 'so', 'your', 'like', 'about', 'do', 'there', 'from', 'will', 'at', 'no', 'me', 'by', 'would', 'who', 'their', 'don't', 'an', 'my', 'one', 'how', 're', 'up', 'has', 'because', 'think', 'out', 'more']
```

The twenty topics are plotted on a 2D space as below:



### Observations:

The topics are well distributed in the 2D space with no overlap between them. Topics 16, 4, 12 and 17 seems to have a higher share of text.

- 
- 0 god world believe our us religion truth jesus life bible which evil also know into things love them religious then man power being tan book good these reality other human his everything only read christian some why those am humans were true many when most real does see spiritual through
  - 1 water food also body eat drug cancer drugs use some health day than its get meat which oil high diet been m used much cause when good other eating healthy ve natural sugar study animals does drink bad weed years blood found dna studies doctor after had most well brain
  - 2 trump biden election his president vote him democrats obama hillary republicans voting votes republican party political both bernie were had left win media won right against she voted been office than 'd did country clinton candidate fraud state democrat over states even politics after elections didn t support trump s when only
  - 3 post sub reddit here posts conspiracy twitter r banned comments internet facebook news now use see account content comment google posted bots removed been m get posting site youtube users skills information social media mods rule other censorship new user thread accounts bot these some also find r conspiracy shit when shill

- 4 why m know even any y here doesn't 'd then ying being believe when them see did right some does point actually isn't evidence anything make than someone t want wrong fact should mean get really nothing those sure only something look never literally ve read talking which anyone didn't
- 5 money government pay get than system own them why companies make work want our company business buy tax need taxes us free only rich t then paid corporations those should power which when into off market over debt k most use economy capitalism big year jobs also now wealth much
- 6 his him video guy some had did got man watch been show also know after very look really too 'd real into didn't when good movie story lol stuff well could name conspiracy fake made interesting why read shit thought videos time probably w dead himself sure never dude d
- 7 were had could also been when some where see \_ then did video know down here m why off something after into these before any building even time used other phone car very happened day first found over ve find didn't 'd which d plane w hit around two still
- 8 she her kids children women child sex woman being these pedo pizza parents men gay them when old kid why person pizzagate pedophile should sexual someone art girl m year man fuck make also weird rape young pedophilia fucking pedophiles baby age porn family girls had shit school want wife
- 9 white were jews black racist right anti left race jewish them against media hate nazi political america israel group country culture nazis being these racism american groups history also want movement over its white people black people both see antifa hitler society other americans only many violence those muslim power blacks muslims
- 10 covid virus mask masks flu deaths were wear pandemic been spread test had wearing death cases numbers coronavirus than china positive sick also die why died disease cdc viruses data testing lab population work lockdown infection science year infected which symptoms hospital fauci when tested lockdowns health hiv number being
- 11 submission statement removed post link does please comment mesge through been error received contact include mods added receive contain responses subsequently modmail pms bot replies ss lol oh wow rule conspiracy looks posted fuck meme bro picture deleted interesting r bruh headline biden btw blah probably rcasm damn fauci tire stop vaxx
- 12 which than some most were other very these our been any into only way them time those many could also much even years used such may its us being make use well point through had based however when read need population system different without where world own etc new part
- 13 police government law were gun should them his state guns him cops laws against had rights get did crime legal when violence case right court killed kill murder then why any shot illegal 'd freedom those blm protest person didn't country force protests after these death being stop cop arrested
- 14 earth space moon science see sun theory believe aliens flat earth flat energy our its light na technology planet look alien scientists years us know real does water why could into sky around evidence which scientific universe ufo something gravity climate change some other time then miles been stars tesla now also
- 15 vaccine covid vaccines vaccinated get had medical after getting take been virus got vaccination shot were vax data these risk pfizer body science also doctors unvaccinated health know now doctor cause against death shots still disease mrna vaxxed fe side effects than dr effective studies die autism months study jab cdc
- 16 m get them going know now ve when go us some even been too t really time see right want being then back shit got way good here something never much need take everyone make lol most our still y off down into things than sure d well maybe over

- 17 us russia war china ukraine country military russian israel putin world government american countries our america them been iran its against propaganda were chinese u also over now cia oil nato why u s syria isis attack west iraq foreign wars weapons americans europe president power state into nuclear after russians
- 18 trump his q evidence were had fbi epstein been investigation him emails cia did russia after which clinton information also russian story 'd president government obama report wikileaks any involved now caign public hillary being case intelligence then documents over before news under time source rich dnc political into former
- 19 bot any please concerns subreddit am questions action moderators automatically contact np performed reddit link why account while required np domain protect other users helps accounts both requested when accessed here reddit link crossposting administrative shadowbans use www participation domain archive replacing r privacy open web load summon faster shared ss google s u utatorbot article cnn controversial

TOPIC NUMBER	INTERPRETATION	lables
0	Religion, God and Spirituality	Religion
1	Food Safety	Food and Cancer
2	Presidential Election	Election
3	Social Media Conspiracy	Data
4	Challenging Conspiracy Theories	Questioning
5	Government and Capitalism	US Government
6 and 7	Video ( <i>Unclear</i> )	Random
8	Sexual Content	Crimes against Children
9	Racial Violence	Racism
10	Covid 19 – Test and Masks	Covid Vaccination
11	Reddit Submission Related ( <i>Not Significant</i> )	Reddit
12	( <i>Unclear</i> )	Random
13	Police	Legal
14	Earth and Space	Flat Earth
15	Covid Vaccines	Covid Vaccination
16	( <i>Unclear</i> )	Random
17	Russia Ukraine War	Ukraine War
18	Trump and Election	Trump
19	Reddit Submission Related ( <i>Not Significant</i> )	Reddit

For more details, please see attached notebook.

Frequency of occurrence of each topic:

topics	
RANDOM	22788
REDDIT	11883
FOOD AND CANCER	8821
CRIMES AGAINST CHILDREN	6936
DATA	5606
COVID VACCINATION	4143
RELEGION	2801
LEGAL	2719
RACISIM	2669
ELECTION	1954
TRUMP	1838
PAY	1803
US GOVERNMENT	1603
UKRAINE WAR	1475
QUESTIONING	1457
CRIME	1392
FLAT EARTH	837

## Clustering:

- The “text” data has been cleaned to remove emojis and unnecessary text and punctuation except “.” as required for sentence tokenization.
- We have removed all data that has **less than 5 words**.
- We have removed data that begins with **"your post"** or **"please contact"** to remove reddit submission messages.

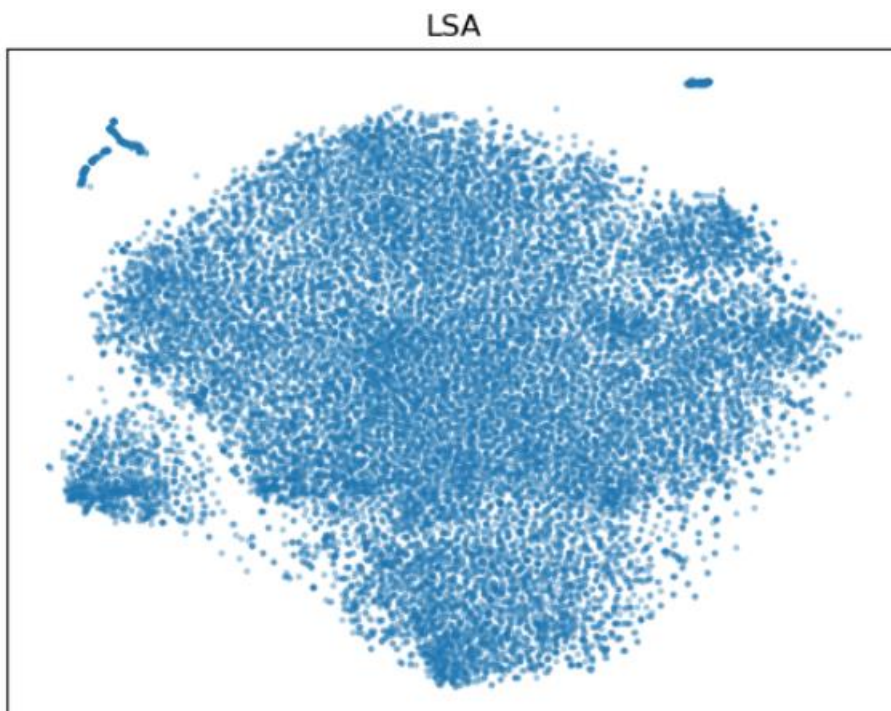
## Sentence Splitter:

We have used sentence splitter from Spacy to take a **batch of 5 sentences** at a time from each post.

	text
0	yup. ndt is a clown. not sure why anyone takes him seriously. same with bill nye. and the irony of starting with the idea of walls being something he d be opposed to.
1	u_r_l u_r_l i m pretty sure jesus wouldn t vote for a jew considering they crucified him. maybe he is a gluten for punishment though.... the video s only two minutes long. never have i been hit by this many downvotes this quickly watch it and a whole other perspective on the u.s. transformation to sodom and the transferal of war on christianity to a war on islam may begin to form. there is a commonality and those who speak of it are demonised.
2	the ridiculous tweet made by the black sci fi guy u_r_l
3	the russian kgb radicalized oswald and set him loose. this was kept under wraps after kennedy s death to prevent the very real destruction of the entire earth. lee harvey oswald defected to the ussr married a russian national and returned to the us a few years later with his wife and the us government was like oh hi marine welcome back no worries about defecting to the ussr . oswald was absolutely cia. i mean.
4	if i was the cia and i was framing someone as a patsy for assassinating the president i would use a former military member with ties to russia and i would manufacture a document that says said person met with the fucking kgb assassination department . scott adams has a personal rule of thumb that if the explanation is too on the nose it s likely manufactured bullshit. u_r_l also according to the tv show . . i think rule did the soviet union assassinate kennedy funny how many conspi...

## SVD:

We have used **TruncatedSVD** to transform the data into a **20 dimensional vector**.

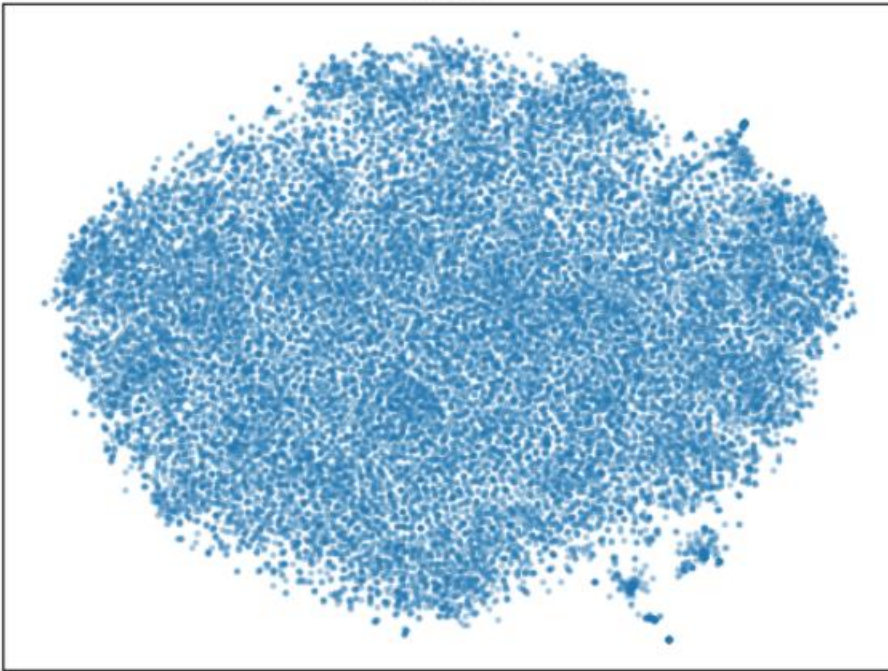


## SPACY:

We have used the **"en\_core\_web\_lg"** from **Spacy** to transform the cleaned text into a **300-dimension vector**. Further dimension reduction has been done using TruncatedSVD to bring it down to 20 dimension.



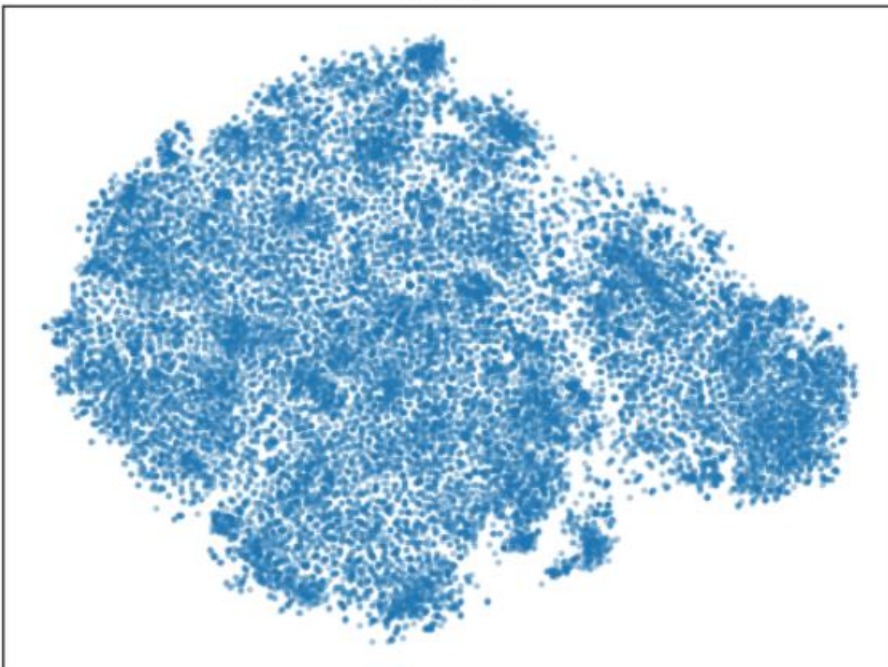
spacy



**SBERT:**

Dynamic embedding was done using SBERT sentence transformer from "**all-mpnet-base-v2**" to obtain a **768 dimension vector**. . Further dimension reduction has been done using TruncatedSVD to bring it down to 20 dimensions.

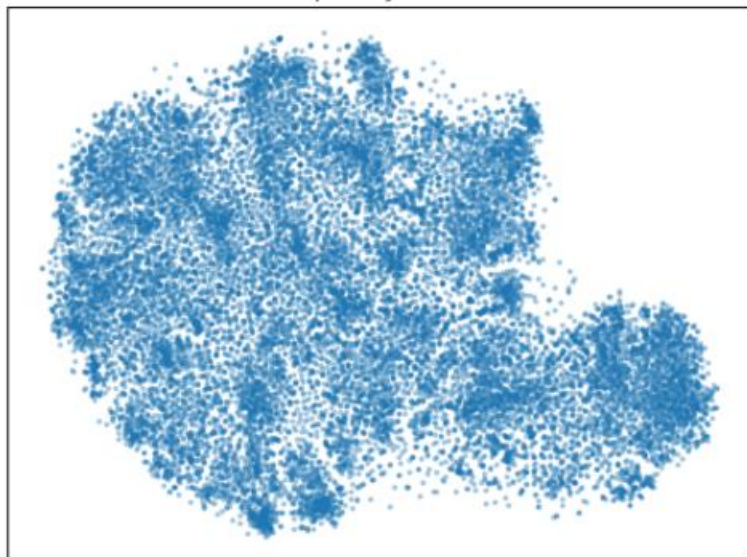
SBERT



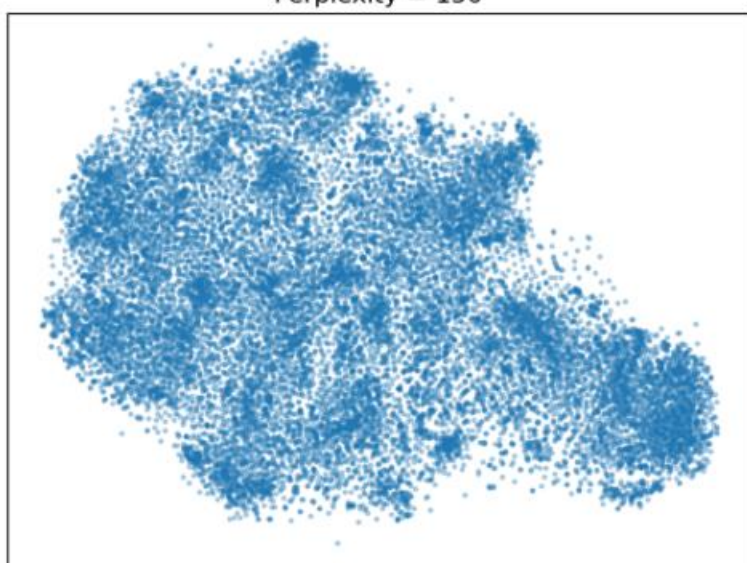
**PERPLEXITY:**

As seen above, with Perplexity=50, the SBERT model clearly produces better results as compared to LSA and Spacy. Thus, we tried to plot the vector projections with perplexity 100, 150 and 200, to compare results and select best model for clustering.

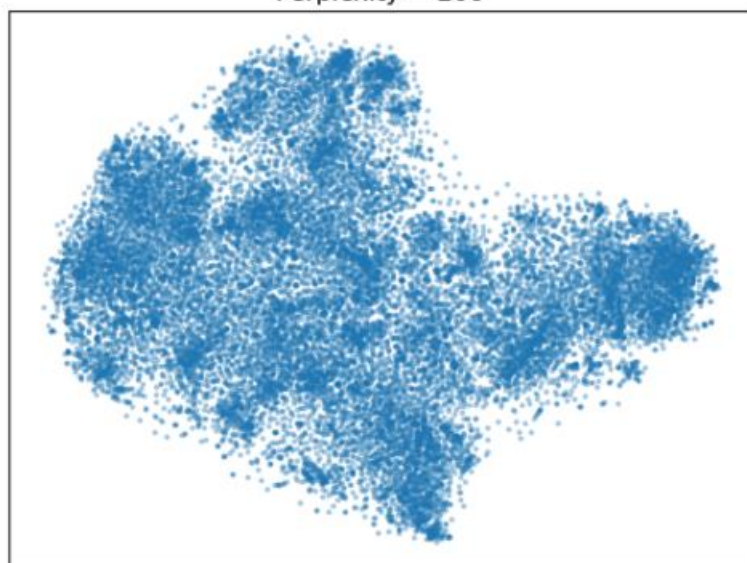
Perplexity = 100



Perplexity = 150



Perplexity = 200



Perplexity of 200 seems to provide optimal results for the analysis.

## HDBSCAN CLUSTERING:

We have considered a **cluster size of 20** and fitted the SBERT vectors.

```

0 creationist ( 9.49) pence ( 8.78) evolution ( 7.37) theory ( 4.95) media ( 3.47)
1 wallace ( 9.65) condemn ( 9.24) asked ( 6.39) stand ( 6.31) biden ( 5.78)
2 nato ( 6.52) crimea ( 6.21) superpower ( 6.07) ukraine ( 5.88) ukrainian ( 5.6)
3 rittenhouse ( 6.88) kenosha ( 6.75) kyle ( 6.49) wisconsin ( 6.21) guard ( 5.75)
4 ballots ( 6.77) ballot ( 6.69) voter fraud ( 6.39) mail ( 5.76) votes ( 4.7)
5 black people ( 7.03) culture ( 5.79) race ( 5.54) racist ( 5.34) black ( 4.4)
6 supremacists ( 6.98) zionists ( 6.31) jewish ( 5.76) jew ( 5.76) criticize ( 5.49)
7 surgical ( 7.48) suits ( 7.14) lab ( 5.96) wear ( 5.86) environment ( 5.56)
8 comey ( 6.55) anon ( 5.75) devices ( 5.43) wikileaks ( 5.38) email ( 5.07)
9 subreddit ( 5.99) conspiracies ( 5.38) conspiracy ( 3.97) makes ( 3.08) point ( 2.39)
10 fetus ( 7.69) abortion ( 6.75) abortions ( 6.49) baby ( 5.41) decision ( 5.1)
11 socialism ( 6.65) capitalism ( 5.91) system ( 4.09) government ( 3.52) their ( 1.73)
12 spreaders ( 4.8) intervals ( 4.75) palsy ( 4.71) viral load ( 4.46) delta variant ( 4.41)
13 grammys ( 7.74) grammy ( 6.81) awards ( 6.34) award ( 6.33) gold ( 6.04)
14 revelation ( 7.63) beast ( 6.88) six ( 6.66) number ( 5.11) god ( 3.73)
15 tetraborate ( 7.48) diacetyl ( 7.16) borax ( 7.12) charcoal ( 6.99) ppm ( 6.7)
16 amp ( 7.0) u ( 4.61) link ( 4.06) u_r_1 ( 2.38) me ( 1.98)
17 .. ( 7.85) .... ( 6.54) ... ( 4.42) . ( 3.65)
18 flat earth ( 6.98) miles ( 6.65) stars ( 6.12) sun ( 5.67) earth ( 4.89)

```

Highlighted terms in each cluster after incorporating c-values gives us the following topics as focus

CLUSTER	TOPIC
0	Evolution theory
1	Presidential Election
2	Ukraine War
3	Racism (Black Lives Matter)
4	Voter Fraud (Presidential Election)
5	Racism
6	Israel Crisis
7	Lab?
8	James Comey(wikileaks and Clinton emails)
9	Reddit and Conspiracy
10	Abortion Laws
11	Government (Capitalism vs Socialism)
12	Covid 19 (Delta Variant)
13	Grammy Awards
14	Religion - Christianity
15	Chemicals?
16	Random
17	Random
18	Falt Earth



## Results :

Through the above analysis the key topics identified for the conspiracy theories are as follows

### 1. Presidential Election Voter Fraud

???★ (4) "so you agree the biden win in ga is clean and should be accepted i think you re agreeing with me but not sure why you sound so hostile. i m not taking about pa though biden won fair there too. pa had observers and have plenty of republicans in government there too. democrats push forward legislation to protect elections and republicans refuse to pass it. it s funny that republicans only care about election security when they lose but dems continued after a landslide win in see the warren dominion posts surely there s another one posted recently hahahahahahaha jesus pretty soon you re going to move these goalposts off the edge of the flat earth."

### 2. Racism in America

Clusters

???★ (1) "trump has condemned white supremacists constantly. he had just proposed a plan before the debate to label the kkk terrorists and make lynching a hate crime. its a fake news talking point that he doesn t condemn racists. no i m not. the context was wallace asked a question made a request and trump hemmed and hawwed and didn t answer with an acceptable answer straight away and only replied about the proud boys after an attempt to avoid the question request altogether."

???★ (1) "that s why i said biden is a racist too. i don t like biden. fuck biden. he s trash. but yeah there are absolutely quotes of trump being racist trash too."

???★ (1) "have you forgotten where we are trump did clearly condemn white supremacy during the debate show me his quote where he clearly did that. he just said sure and when asked for clarity he did not condemn white supremacy. did biden get asked simultaneous questions too no so it wasn t the same question and the questions were not fine. yet in the end trump did clearly condemn white supremacy during the debate and saying he didn t was a lie. he asked biden almost exactly the same question but about left wing violence instead."

### 3. Trump Controversaries – Jeffery Epstein Scandal

???★ (8) "trump and epstein were good friends. hell trump wished maxwell well after her conviction. dudes a total pedo of course the government is complicit in allowing epstein s clients get away... they re one and same after all who killed epstein u\_r\_l chute.com video daz qsjt hyy one of them was just made the president s clean energy senior advisor. the enemy will go unpunished unless we personally punish the enemy all goverments must fall all corporations must burn. interesting that instead of checking you decided i lied."

## 4. Evolution Theory vs Religious Beliefs

### Clusters



creationist i don t know. but he believes severely lacking theory should be taught as equal to evolution. and creationists historically fit that description pretty well."

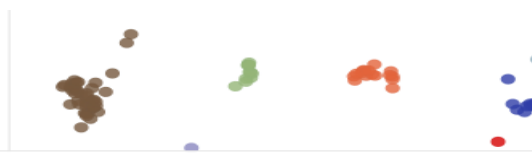
???★ (0) "i enjoy debating with religious folks especially creationists and pence is using a very common tactic that shows his ignorance evolution is just a theory that he thinks stands on as much or less ground than his religious beliefs. he doesn t understand what a theory is in the scientific community. it s a testable falsifiable claim that is rigorously tested and stands up to any and all scrutiny presented to it. the bible falls apart quickly under scrutiny. creationism is not a theory."

???★ (0) "if you can t use common sense and personal experience to infer what that means then that s on you. i don t see him or his staff coming out to fight any of the infobytes calling him a creationist though. i have seen him talk about god creating the world.. he believes the bible and he won t say evolution is real. that s enough for me. it shouldn t be enough it just means that he entertains a higher design what some people call god means something different to each person so you can t exactly say that believing in a higher power makes someone an asshole."

???★ (0) "and it matters a lot actually this is how you stay informed and weigh how strong the facts are. an infobyte repeated to you hundreds of times on reddit and by peers and in media yeah you should care about how strong that claim is. turns out this one is weak as fuck. mike pence may be a piece of shit i dunno but he sure as hell isn t a die hard creationist because that kind of person would proudly tell the world. it wouldn t be some sketchy out of context opinion piece conclusion based on a jump in logic."

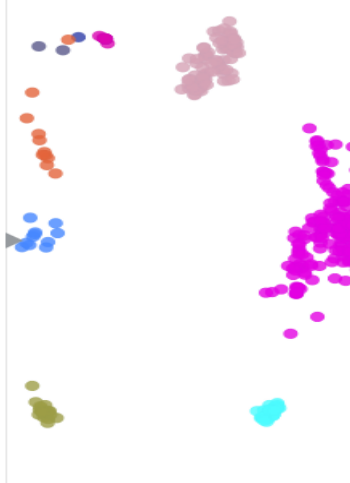
???★ (0) "timestamp to pence saying he doesn t believe in evolution. because that is a main ingredient in defining someone as a creationist. otherwise you are just making assumptions and then broadcasting your assumption as a fact and that is dishonest and wrong. if he was a creationist then when asked about evolution he wouldn t dodge the question he would outright say he doesn t believe in it. ask anyone who isn t a creationist if they believe in evolution."

## 5. Government – Socialism vs Capitalism



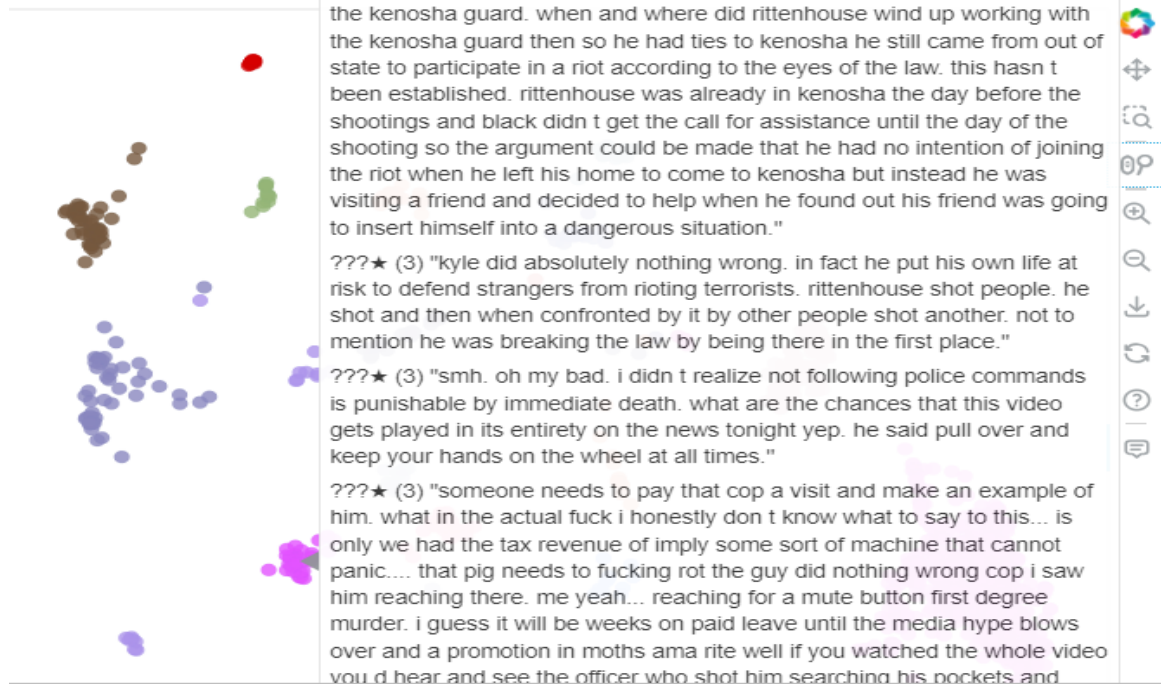
considering no st world country currently runs on socialism r than china i will have to disagree... there are : but to be fair i would much rather be living the us than ons and those with the means to do so will always est of their ability. they will write the laws because they is and if they can t... they will pick their shit up and in drain something universal to socialist revolutions. deregulation is what s needed. the purpose of like the rich richer and the poor poorer."

ed if a capitalist country has a centrally planned corporate welfare lobbyists in every corner of rick military industrial complex negative interest rates r anywhere in the world the most undecipherable laws d is ruled in secrecy by an unaccountable oligarchy id. but then it has nothing to do with economic e with you on this liberty leads to prosperity prosperity rcy and complacency causes tyranny. i m not sure how cycle. perhaps strong spiritual grounding and placing ad of utility the price of liberty is eternal vigilance ure right but he should have had a voice in the



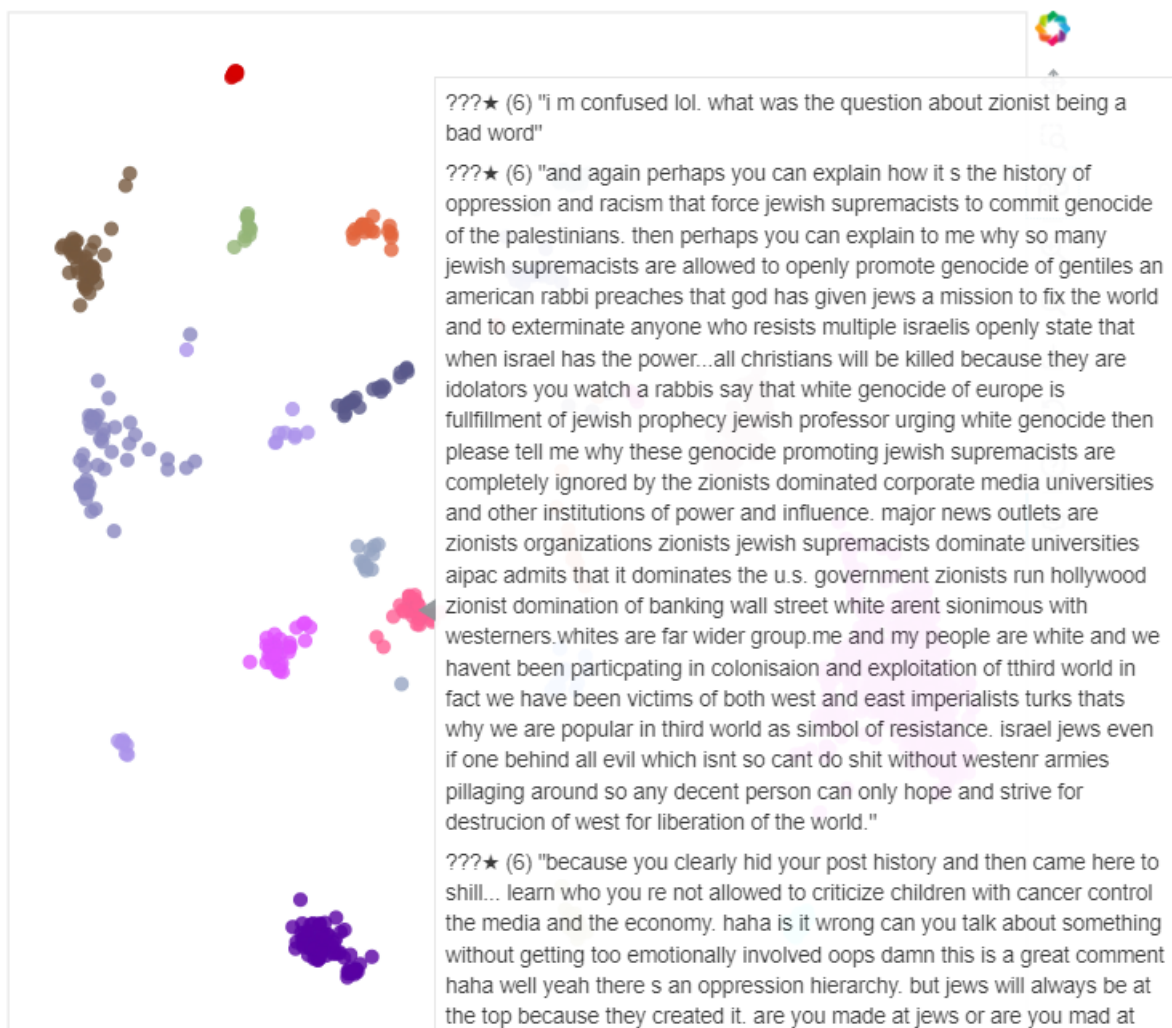
## 6. Kyle Rittenhouse

Clusters



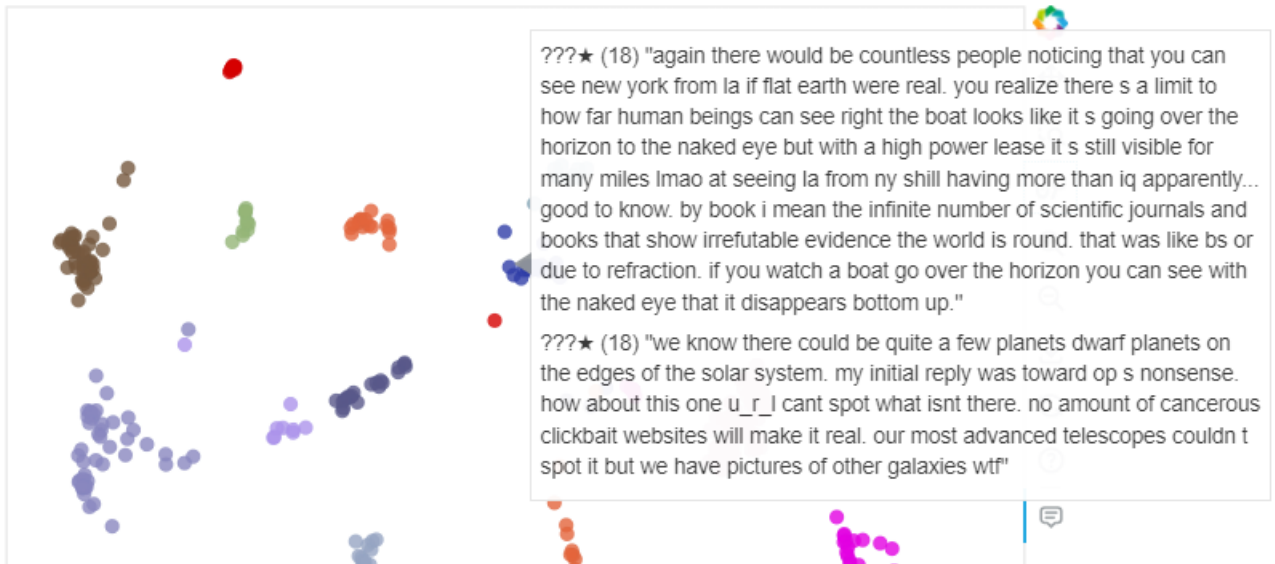
## 7. Zionists – Israel and Palestine Crisis

Clusters



## 8. Flat Earth

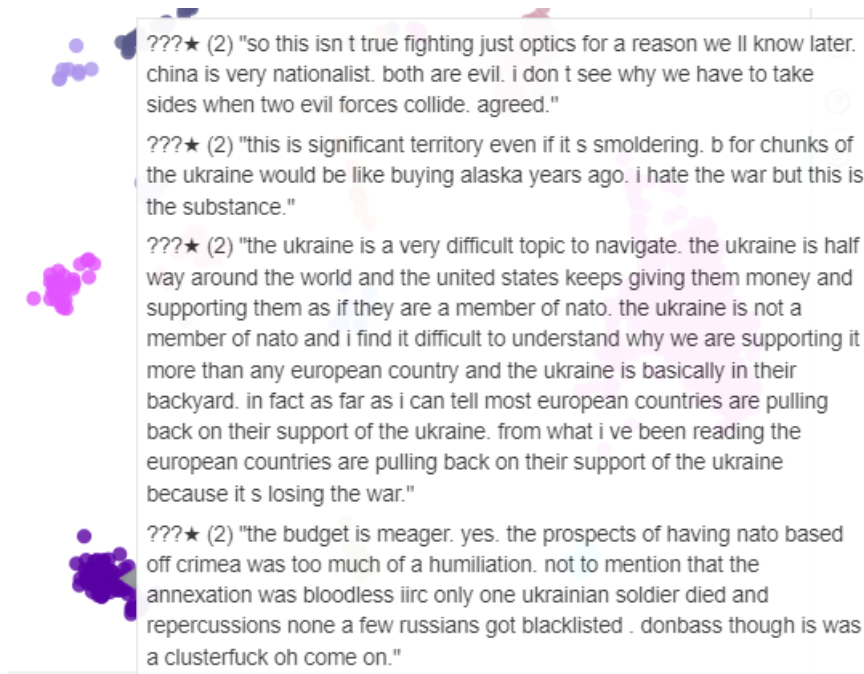
### Clusters



???★ (18) "again there would be countless people noticing that you can see new york from la if flat earth were real. you realize there s a limit to how far human beings can see right the boat looks like it s going over the horizon to the naked eye but with a high power lease it s still visible for many miles lmao at seeing la from ny shill having more than iq apparently... good to know. by book i mean the infinite number of scientific journals and books that show irrefutable evidence the world is round. that was like bs or due to refraction. if you watch a boat go over the horizon you can see with the naked eye that it disappears bottom up."

???★ (18) "we know there could be quite a few planets dwarf planets on the edges of the solar system. my initial reply was toward op s nonsense. how about this one u\_r\_i cant spot what isnt there. no amount of cancerous clickbait websites will make it real. our most advanced telescopes couldn t spot it but we have pictures of other galaxies wtf"

## 9. Ukraine War



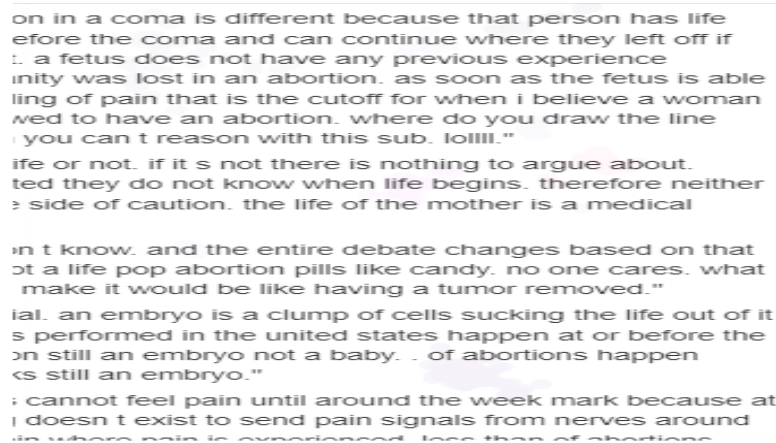
???★ (2) "so this isn t true fighting just optics for a reason we ll know later. china is very nationalist. both are evil. i don t see why we have to take sides when two evil forces collide. agreed."

???★ (2) "this is significant territory even if it s smoldering. b for chunks of the ukraine would be like buying alaska years ago. i hate the war but this is the substance."

???★ (2) "the ukraine is a very difficult topic to navigate. the ukraine is half way around the world and the united states keeps giving them money and supporting them as if they are a member of nato. the ukraine is not a member of nato and i find it difficult to understand why we are supporting it more than any european country and the ukraine is basically in their backyard. in fact as far as i can tell most european countries are pulling back on their support of the ukraine. from what i ve been reading the european countries are pulling back on their support of the ukraine because it s losing the war."

???★ (2) "the budget is meager. yes. the prospects of having nato based off crimea was too much of a humiliation. not to mention that the annexation was bloodless iirc only one ukrainian soldier died and repercussions none a few russians got blacklisted . donbass though is was a clusterfuck oh come on."

## 10. Abortion Laws



on in a coma is different because that person has life before the coma and can continue where they left off if !. a fetus does not have any previous experience inity was lost in an abortion. as soon as the fetus is able ling of pain that is the cutoff for when i believe a woman wed to have an abortion. where do you draw the line you can t reason with this sub. lollll."

ife or not. if it s not there is nothing to argue about. ted they do not know when life begins. therefore neither e side of caution. the life of the mother is a medical

in t know. and the entire debate changes based on that ot a life pop abortion pills like candy. no one cares. what make it would be like having a tumor removed."

ial. an embryo is a clump of cells sucking the life out of it s performed in the united states happen at or before the on still an embryo not a baby. . of abortions happen cs still an embryo."

i cannot feel pain until around the week mark because at i doesn t exist to send pain signals from nerves around in where pain is experienced. less than of abortions

## 11. Food Safety

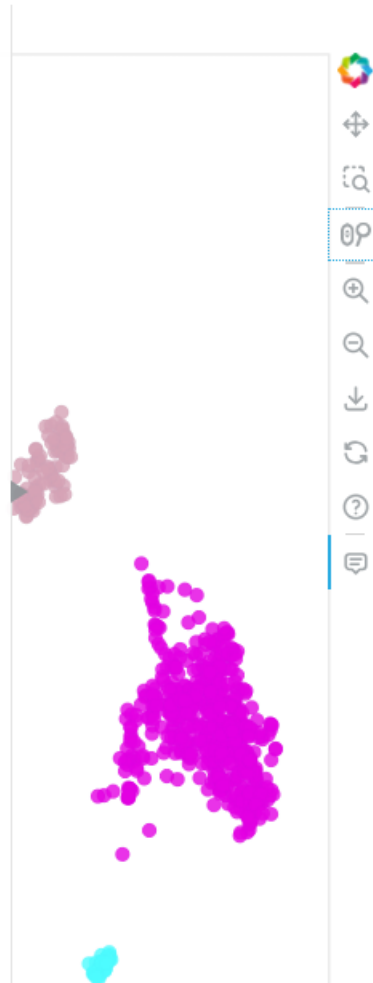
thout chlorine. i need to try this i ve been off fluoride over a year and haven t noticed a difference. i have a reverse osmosis system at my abode. extremely worth jt why wouldn t it belong in here if it s true and drink rates instead of fluoride essential water is fluoride free alkaline . and had added minerals."

?★ (15) "sodium fluoride used to be sold as rat poison. even toothpaste boxes will warn you to call poison control if you swallow it. boron is supposed to be able to remove fluoride from your body. i add it to my purified drinking water. piggybacking your comment."

?★ (15) " hours round trip to a natural spring to get my water. i take of use gallon bpa free blue water jugs and fill up my van yep it comes with a poison label on it for a reason i had this the first time i tried to get off fluoride. i then tried doterra toothpaste and haven t had any sensitivity issues at all. aluminum free deodorant is also essential doterra. check em it."

?★ (15) "easily the best fluoride free toothpaste ever. good aluminum free deodorant as well as awesome essential oils and blends. can t commend them enough reverse osmosis. they filter almost everything including fluoride. they re just big water filters you can bring your bottles and fill them relatively cheaply."

?★ (15) "idk if it s just in my mind but my teeth feel different. as for cognitive spiritual etc haven t noticed any difference. has anyone who has been able to be fluoride free tell us if they noticed any changes in their mental state and overall well being hey the person you re replying to has decided that they know what s best for everyone else so do what they say what toothpaste do you use berkey products aren t nsf certified which is the standardized test to ensure it filters out what it says it does. brita and ir are nsf certified but they don t filter out fluoride. u\_r\_l uhh care to post link to any of these studies and understand that correlation is not causation what we got a berkey a few weeks ago along with the add on



## 12. Anti – Maskers (COVID 19)

???★ (7) "the uk government advises no kids to wear masks younger than something like unless they can t keep the m away or have underlying health conditions like cancer or cystic fibrosis. both of which could be life threatening if they even get a cold. for context i have a month old and would never make her wear a mask. secondly masks are doing literally none of what you said. the right mask doesn t restrict air flow i wear wore them for work before the pandemic for full hr shifts most expressions are in the eyes when i smile at her with a mask on she knows my girl doesn t get scared when i wear a mask."

???★ (7) "my doctor told me the same thing. masks are theater and actually can be harmful in some cases. facts. i refuse to wear masks in stores. fuck that shit haha."

???★ (7) "i understand you were speaking of masks the logic of your seat belt analogy seems poorly delivered though and the clarifications you offered also fail to communicate anything i find convincing. sorry but masks are really limited protection in most cases if they protect at all i want to see peer reviewed science. simple discussion cannot convince me. thanks for your time but i no longer wish to continue. you can easily google this and see that it stays in the air for up to hours after exhalation."

???★ (7) " please please leave this shit to actual doctors. you have no idea what the fuck you re talking about. oh you mean the doctors that have flipped back and forth on the very thing we re talking about and clearly have no clue what they are talking about rather they are actually lying but still . anyway it s well established fact that wearing a mask can carry health risks. if you don t know this then that is on you get educated."

???★ (7) "or others can wear an n mask to protect themselves. i wear a mask when i go inside public places and businesses. i also sanitize after i get into my car before touching anything inside. after that its life as usual. my second job opened up this week and we are working outside of the





### 13. COVID 19 – Vaccines

ers

a variant that my vaccine does not or is lesser effective against."

???★ (12) "but ineffective science is poor science and even if everyone gets this shot the virus is gonna do what it does in that it will spread fast and it will mutate whether you have or have not taken the jab. this is all just a numbers game and a percentage possibility equation. you may like to put some numbers against my statements above i m definitely not asking for any help the virus spreading through unvaccinated increases the chances of new variants. it bogs down hospitals it causes economic damage. we have enough free vaccines to be done with covid."

???★ (12) "this is one of the reasons that every previous mma candidate was withdrawn during animal trials. look up vaccine enhanced disease viral shedding antibody dependent enhancement chickens mmw marek s. here s the million dollar question if the ma vax supposedly equips your system to fight off any new viruses by manufacturing a unique protein why the need to get booster shots why be afraid of unvax that supposedly causes new variants the sarcastic responses here from the anti vax crowd miss the crux of the issue. you shouldn t think of this from an individual perspective but from a societal one. sure you on your own can t pose much of a threat but it s not just you on your own is it if you have a huge swathe of the population unvaccinated it a presents a danger to those who are vulnerable but unable to get the vaccine b makes it more likely that the virus will evade the vaccine viruses mutate if you allow them more hosts and thus more replication cycles the chance of them mutating into a form that bypasses the vaccine increases. so by not taking the vaccine those people are allowing themselves to become little incubators for potentially more deadly evasive virulent versions of the virus."

???★ (12) "kind of like my comment the vaccines protect against developing serious disease in hospitalization. however if you don t have any pre existing conditions or are under you hardly have any risk of hospitalization or death. they are pretty shitty vaccines by prior standards. protection wanes after six months. provide reduced protection against variants vaccinated carry as much viral load as the unvaccinated and thus spread the virus just as easily."

???★ (12) "some people have legitimate health concerns that preclude

### 14. Black Lives Matter

Clusters

black culture is tucked up is innerently racist even if you reversed that in your reply. i guarantee i have studied more history and probably have read more books than you too. also you didn t answer my question what part of black culture is fucked up to you on mobile if you have the imgur app it breaks the image. either open it on browser or download."

???★ (5) "how often do you wash your hood oh but i thought black people cant be racist adorable. lmao this was really eating at you for a few hours huh well i ll oblige an obvious bait. but before i do let me preface my response by saying that the capacity to do good and evil exists within every race creed and color. the same goes for culture. think about it this way a crazy gun toting trump worshipping cousin fucking redneck hillbilly does not represent all the white race."

???★ (5) "black people have contributed the more to this world than anyone else. yet they are the most hated and disrespected people on the planet. there would be no culture music technology medicine science or architecture without black people. everytime you use a toilet cell phone technology radiator dry cleaner refrigerator gas engine pencil car gps system home security system traffic light traffic signal light bulb fire escape system personal computer radio tv set wire resister clothes dryer remote control clock electronic microphone x ray spectrometer caller id language programming hair relaxer satellite image and among many others you have black people to thank for that. i have family from yucatan jackass."

???★ (5) "i couldn t agree more. in fact imo some people have a vested interest in perpetuating racism and spreading the idea of cashing in on being a victim. how does homophobia in communities of color contradict the statement that white people are a plague to the planet rule . no personal attacks. removed."

???★ (5) "the only people i see saying that is people like you who want to put words into people s mouth all the while spewing stuff based purely on race. who s the racist back when definitions of works actually meant someone it would be the person who is only thinking of race and can t even absorb information without filtering it though a racial divided thought process. so please why don t you tell us why is everything about race when

## 15. Grammys

### Clusters



nim. wheres the conspiracy it sounds iike tris guy nas no clue now an awards show works it s not like she won the super bowl of music. it s almost as if the grammys have many different categories dedicated to many different auditory mediums including spoken word one of the least promoted awards in the whole show."

???★ (13) "the title is also meaningless just buzz words. the media is fake the grammys are not the media. made up award every award is made up. rave about them i don t really think michelle obama getting a grammy made the front page anywhere. cia puppets sure michelle obama is a cia puppet or whatever talented artists it was an acclaimed book and that award typically goes to a prominent book released the previous year."

???★ (13) "fwiw this award has gone to someone in showbusiness or politics every year for like years now. jimmy carter has won it twice john stewart has betty white colbert carol burnett joan rivers michael j fox and carrie fisher all won this grammy since . janis ian winning in is actually an anomaly. she beat out bill clinton rachel maddow and ellen degeneres. the grammy was for best spoken word album."

## 16. Gold

are finite in time and they need some way to store value won t be diminished through time. to that end they need durable and scarce . the fact that there is a absolutely old on earth means it is scarce. you can mine more up o much. more gold can only be created in supernovae."

like gold because it cannot be counterfeited in any that s why people prefer it to artificial money like dollars i or rubles. certainly energy can t be money because one d the universe is chock full of it energy. so yes everyone nd the way you store time is by exchanging time now in d of money. that money you can expend later so you don e later to get the things you want later ."

## 17. Religion – Unclear

of the seas the horns with horns and eyes like a red dragon with heads a beast with heads plagues s scarlet beast with heads mountains kings... did i miss ust be god s favorite number. s now what is so important isn t it obvious it s the sabbath. it s rest. revelation is a aping the matrix. the whole of the bible can be summed if a single verse psalm be still and know that i am god."

his i saw in the night visions and behold a fourth beast le and strong exceedingly and it had great iron teeth it ke in pieces and stamped the residue with the feet of it from all the beasts that were before it and it had ten rth with feet. and the beast which i saw was like unto a et were as the feet of a bear and his mouth as the mouth ragon gave him his power and his seat and great i considered the horns and behold there came up er little horn before whom there were three of the first by the roots and behold in this horn were eyes like the a mouth speaking great things. little horn and the ten ingdom are ten kings that shall arise and another shall d he shall be diverse from the first and he shall subdue

## Relations:

The cluster projection plots show the following patterns:

- Voter Fraud and Trump Controversaries share a proximity.
- Kyle Rittenhouse and Zionism share a very close proximity
- Flat Earth and Religion(Unclear) cluster are very closely linked
- Covid 19- Vaccine is very closely linked with Anti-maskers (Covid 19) and Food Safety
- Kyle Rittenhouse is closely related to Black Lives Matter