

# Tag Prediction on Stack Exchange

## Group 3

Shravan Honade  
Ritesh Sengar  
Nikhil Patil  
Dhananjay Ghate  
Neena Chaudhari

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# Problem Description and Original Analytics Plan

## Primary objectives:

This project aims to use data and modeling to explore and predict tags for questions on Stack Exchange by using Natural Language Processing (NLP) with Keras Word2Vec , Paragraph2Vec. The primary objectives are as follows:

1. Data Extraction -> Stack Exchange API
2. Exploratory Data Analysis (EDA) -> ggplot, wordcloud, word embedding
3. Machine Learning Model Development -> Keras Word2Vec and Paragraph2Vec technique

# Comments and Reviews

## Peer Comments and Reviews

**Data Retrieval** - To retrieve data and tags from the Stack Exchange API in R, we are using the httr package, which allows you to send HTTP requests and handle responses. httr will be used to interact with APIs and retrieve data for analysis.

**Reduce manual tagging efforts** - The project aims to streamline and improve the tagging process on Stack Exchange by automating the suggestion of relevant tags through a combination of NLP, machine learning, and statistical analysis, enhancing the overall user experience on the platform.

## Professor's Comments and Reviews

**Given the extensive amount of data and tags available, need to narrow down your focus** - To refine our search, we will concentrate on a specific topic, like Python, as a focal point.

# Data Summary

- Data Retrieval using Stack Exchange API in R.
- Number of Rows - 650K+ and Columns - 11
- Summary of columns -
  - *tags*: Categories or labels associated with the questions.
  - *question\_id*: Unique identifier for each question.
  - *title*: Title of the question.
  - *is\_answered*: Indicates whether the question has been answered (TRUE or FALSE).
  - *view\_count*: Number of views the question has received.
  - *answer\_count*: Number of answers the question has.
  - *score*: Score assigned to the question based on votes.
  - *last\_activity\_date*: Timestamp of the last activity on the question.
  - *creation\_date*: Timestamp of when the question was created.
  - *last\_edit\_date*: Timestamp of the last edit made to the question.
  - *content\_license*: License under which the content is distributed.
  - *link*: URL link to the question on Stack Overflow.

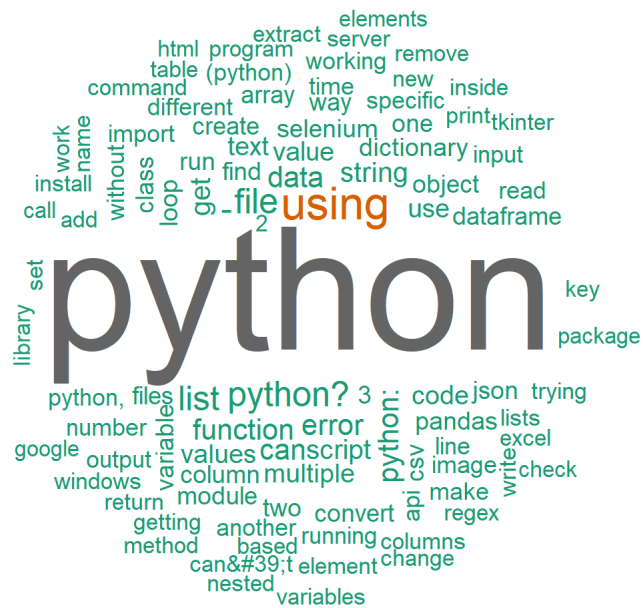
# Data

```
example_data <- head(df, 5)
knitr::kable(
  example_data,
  caption = "Stack Exchange Dataset",
  format = "html",
  full_width = FALSE
)
```

tags	question_id	title	is_answered	view_count	answer_count	score
python contour scipy-optimize data-fitting uncertainty	77592064	How do I find the uncertainties on a fit with correlated parameters in python?	False	4	0	0
python	77591142	How to check whether a string is Palindrome or not in Python programme?	True	57	3	0
python python-import relative-path relative-import	73991299	Importing a Python module from subfolder of another folder using relative path	True	1003	2	0
python gitlab repository	77547154	Python Code to Check Multiple Files on Gitlab repository by group ID	False	30	1	0
python image-processing python-imaging-library huffman-code	77591994	Huffman Encoding/Decoding - Black Image Issue. [Python]	False	9	0	0

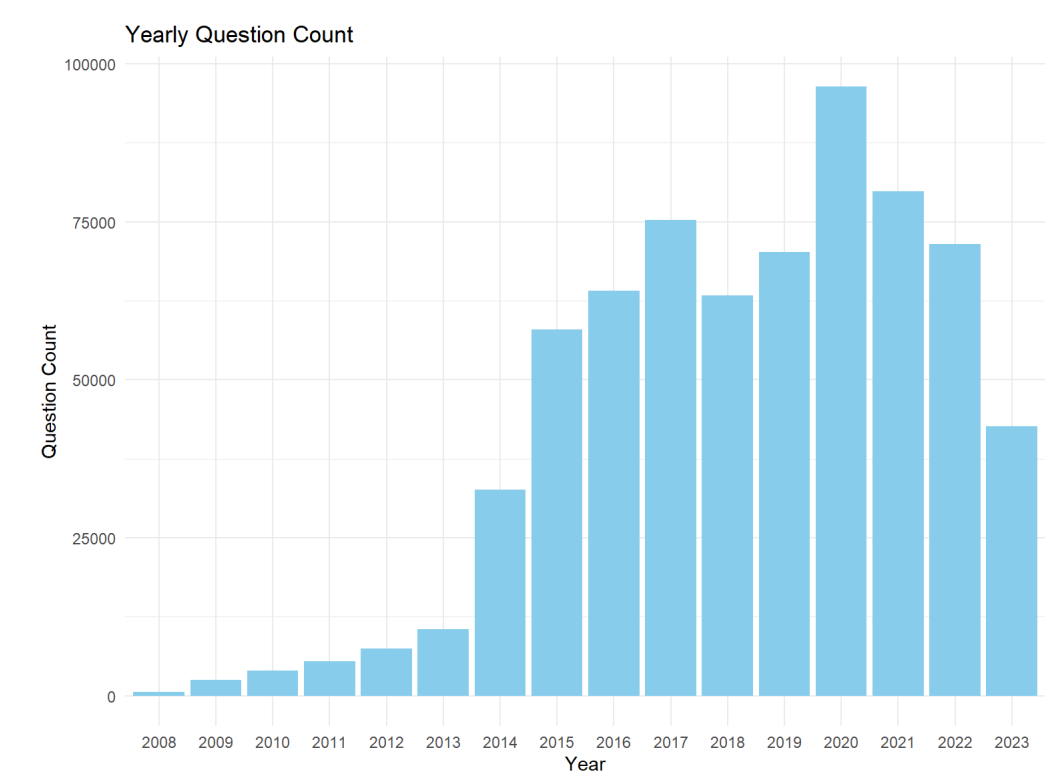
# Exploratory Data Analysis

## Common words/tags in titles



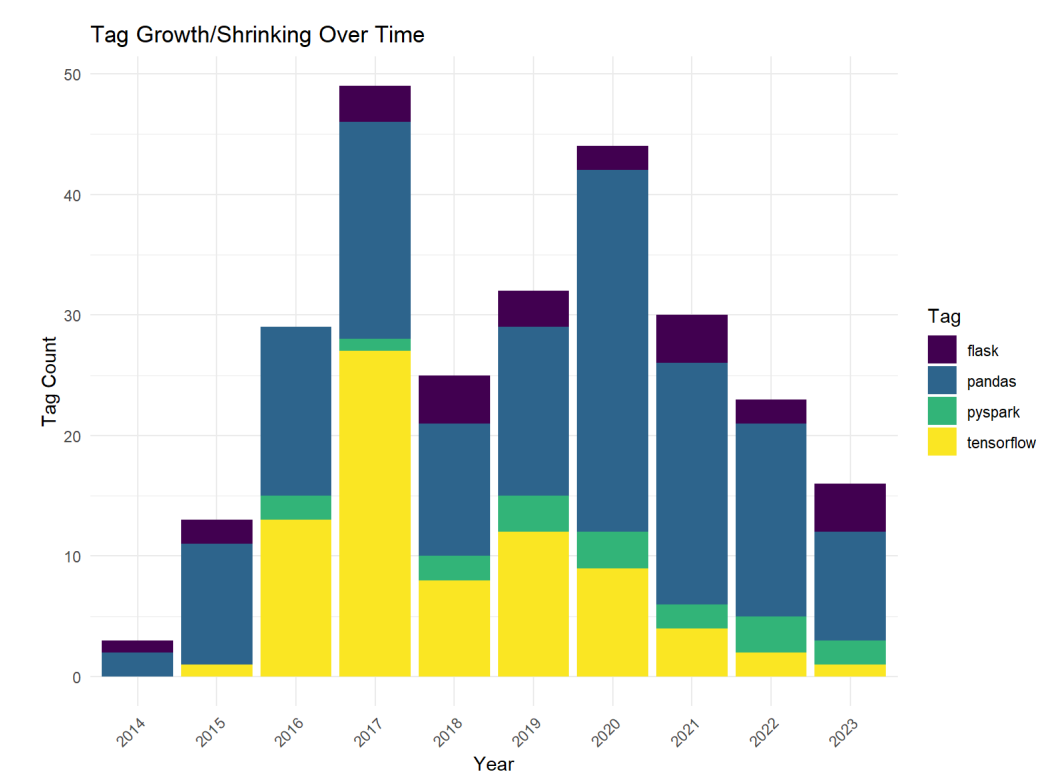
# Exploratory Data Analysis

## Questions asked over Years



# Exploratory Data Analysis

Tag growth/shrinking over time





# Keras Word2Vec Model

Word2Vec is a tool that learns compact numerical representations (vectors) for words by analyzing how they are used together in a given set of text.

- **Goal:** Word2Vec is like a brain for computers that tries to understand words in a way that's similar to how humans do.
- **Representation:** Instead of just knowing what a word is, Word2Vec wants to represent each word as a special kind of number. These numbers capture the essence of what each word means.
- **How it Learns:** Imagine teaching a computer to understand words by reading a lot of text. It looks at the words that often appear together and learns that they must be related.
- **Two Jobs:** Word2Vec has two main jobs or games to play: **Guess the Word:** Given the words around it, try to guess what the missing word is. This helps the computer learn the meaning of words based on context.
- **Guess the Context:** Given a word, try to guess what words are likely to appear around it. This helps the computer understand how words relate to each other.
- **Vectors:** Once trained, each word gets its special set of numbers (vector). Words with similar meanings have vectors that point in similar directions.

# Keras Word2Vec Results

Question -> How to run python in conda environment ?

##	run	elevenlabs	pitch	layered	book	days	logstash
##	1.0000000	0.5737176	0.5550957	0.5288951	0.4849439	0.4794046	0.4791245

# Vector Representation

##	X1	X2	X3	X4
## lttrgt	-0.79423070	-1.28407741	0.203916699	-0.602335632
## expose	-0.27607352	-1.41493046	-1.510694861	1.609885812
## socketaccept	-0.83635324	1.04424453	1.013631105	-1.411699533
## methoddescriptor	0.54895473	0.49504569	-0.372702867	0.569103777
## mud	-0.89083678	0.89819539	0.754269063	0.011664150
## proper	-1.60589099	0.49050245	-1.456710458	1.520637393
## belonging	-1.42912698	-1.57354057	-0.281750888	-0.671806157
## dosnt	1.21090126	0.07892574	-0.018372336	0.014927704
## wrongversionnumber	-1.50266111	0.56841779	0.713584304	-0.948245525
## transformer	0.13342538	0.64793748	-0.557868540	1.522997737
## pyrunstring	1.66171360	-0.90709376	-0.925389051	1.346472502
## sanitizer	0.29699481	1.58176374	1.239713550	1.449180961
## ole	-1.47845495	-1.56826878	1.647583604	-0.285922199
## render	1.06253958	-1.42736411	0.816846609	-0.601772070
## daskdataframe	-0.24726555	0.79329157	-0.820488751	-0.438574940
## sclient	0.41411054	-0.53869110	-0.272140920	0.089128695
## piece	0.74496943	1.33534861	0.907051980	-0.232196674
## dictkey	-1.75209320	0.76328844	-1.604280949	-0.570318997
## stringformat	-0.42781830	-0.49450153	1.325998306	0.241534978
## normals	0.27462873	1.31846988	0.441989243	0.585204303
## poisson	-0.29949442	0.81789160	-1.259926796	-1.401893973
## memsql	1.41905713	1.06992614	0.943943620	0.783887982
## googlepythonapi	1.49607968	-1.43566632	-0.883384645	-1.542677283
## unclickable	-0.83594298	-1.26282954	-1.381439328	0.467082888
## supress	1.33865011	-1.53367126	-0.682529867	0.443771809
## transferfunction	0.82393259	-1.37119102	1.171897054	-0.168635041
## id	0.88874650	-0.74955946	1.524606824	0.730212212
## cqlengine	-0.65419877	1.37112498	0.728502095	0.110353306
## succeeds	-0.31942984	-0.06261003	-0.612340629	0.275542051
## developers	-1.16451478	1.20324802	-0.713726282	-0.073104665
## inspectelement	-1.41065633	0.57559741	-1.559493303	0.191982478
## avarage	1.14237547	0.65392601	0.745464325	1.204539895
## httpcookie	0.25724348	1.02681100	0.272620052	-0.620065629
## windowsx	1.06453991	-1.43261480	1.026276946	0.407535613
## track	0.83318573	0.87926728	1.157831430	1.337311625
## exercise	0.40662095	-0.33518410	0.966509581	1.525183916
## scrabble	0.04763725	0.17839810	0.376185596	0.553191304
## ipythonjupyter	-0.94188374	1.59437871	-0.898275197	-0.224107713
## mkdir	-0.29442963	-1.41740131	-1.135309219	-1.298245788
## comparing	0.57091725	-0.45691180	0.786144555	-1.274830103
## anticaptcha	1.35653937	-0.12221926	-0.981368124	0.747888386
## ifconfig	0.43122217	-0.15935835	-1.219967842	1.623334050
## rpg	-0.76203406	0.38027215	-1.519826055	0.836140156
## rich	1.47579205	-1.13515842	0.904275298	1.505739689
## autoincrement	0.10884722	-0.29560307	0.497144610	0.880148113
## netsh	1.78014183	1.24918807	-0.427780598	0.743317008
## finding	0.99298769	0.80323988	0.969515979	-0.017751995
## texttable	0.24811189	-1.56425130	-0.082063325	-0.902202129
## vmwareworkstation	1.16191268	-0.32730830	-1.713276029	-0.948240638
## regularlanguage	1.75711989	-0.01873934	-0.187883720	-0.744182289
## spoofing	1.38989055	0.75163007	-0.693740249	-1.633390427
## palette	0.23636235	-0.14729461	0.049920801	-1.372698069
## suitable	1.64225185	0.99353832	1.251419544	1.101413488
## gil	-0.49447116	-0.48054582	0.855047107	0.503097713
## headerquot	-0.33941147	-1.61251402	-0.500254095	-1.400086880
## excecute	-1.49356878	0.90741473	0.503752530	-0.712455451
## lightfm	1.46085930	0.39472401	0.410369247	0.138185918
## folium	1.29728866	-1.09322584	0.568385303	-0.718932867
## daskdelayed	0.03387673	-0.98379570	0.197630346	-1.465566754
## ntlm	-0.73723584	-0.91624671	-1.378408313	-0.312622726
## hovernool	0.18539020	0.20778881	-0.978680491	-1.149105310
## rasterizing	-0.91070694	0.88977593	1.308933377	0.002347792
## sendkeys	1.46194482	1.30532932	1.136706829	-0.839638054
## statsforecast	1.63736773	1.47514713	0.020440955	-0.462225646
## serialexception	0.77372605	0.91547418	-0.332553446	1.078723431
## thanks	0.09635360	-0.81333923	-0.784790277	-1.198826909
## listview	-0.34601274	1.37726200	-0.212269068	0.838192463
## maturity	0.78083014	-1.47481835	0.030773340	-0.701201081
## pythonsocialauth	-1.35658824	0.02187494	-1.351445317	-0.568048596
## randomchoice	0.67049152	0.26719907	0.854467571	0.839644551
## systematically	1.65719724	0.67252415	-1.130508780	-0.984478354
## compilerconstruction	1.41106868	1.82252681	0.411938757	0.328981459
## directed	0.05766616	1.12361634	0.653206348	-1.076934695
## ordinals	-0.59693009	-0.31570044	1.692836404	0.671741903
## projection	-0.41813275	0.06789738	1.631956100	-0.854926884
## assignmentoperator	0.16875969	-0.63360840	-0.103643201	0.351853877
## mpeg	1.53713572	-1.28669131	-1.480736494	1.589659691
## serviceaccount	0.13322102	1.15790653	1.093874335	0.934960842
## knowledgegraph	-1.48556042	-0.83697933	0.276637644	-0.902684033

## generatorexpression	1.29781127	-1.23685312	-0.312930822	0.860291898
## experiencing	0.47693315	0.70972067	-1.155166864	1.112174392
## tokenize	0.86245656	1.45172977	0.740266621	-1.291226864
## readcsv	-1.14057171	1.41273868	-0.310774177	0.869016290
## managerdict	0.71246356	0.94216383	1.773010254	-0.573320389
## cleardb	-0.86953038	0.70857012	-1.061865091	0.577455461
## qtmultimedia	0.80008161	1.41766167	0.830957830	-1.187817216
## executescrpt	0.20111500	-1.59583306	0.079110913	-1.512818336
## fluid	1.79068971	0.99324811	-0.630772114	-1.376997828
## flag	0.02090038	0.81411213	0.214962900	0.120147489
## pssh	-1.11972606	-1.14471221	-0.818511665	-1.289352655
## fitness	0.49676198	-0.87083209	-1.003238559	-0.463190019
## pascal	1.03804696	-0.35947427	-0.970511079	-0.648340821
## idlpython	1.34283912	0.98987734	1.411104441	-0.319805086
## cloned	0.49844918	-1.66466057	0.790416181	-1.039585948
## neg	-1.71235049	-1.75281227	0.810105741	0.301926196
## excelformula	-0.08707480	0.40356222	-0.043857232	0.136461094
## expr	0.06053558	0.25217426	-0.556368649	0.152754158
## quotconnection	-0.70457983	0.98859531	-1.413608909	0.388208598
## sqlites	0.67320526	0.09501800	-0.733267844	-0.636688113
## apachenifi	0.04429740	0.05718592	1.606619477	1.589232802
## celerybeat	-0.01106502	0.23940264	-1.254002094	0.044750083
## relaxation	1.50219262	0.73782599	-0.272179455	-0.711121202
## difficult	0.22300972	-0.54878801	-1.488012552	1.509037375
## userprofile	1.00077748	1.20103931	-1.407129288	0.086817175
## latlng	-1.02306521	1.36103642	1.554088593	0.945089698
## plyer	0.58250773	0.77183312	1.148370504	0.274734706
##.djangoregistration	1.59036255	1.49478102	-1.617294312	0.569635332
## googlechromeextension	0.94987953	-0.17274065	0.164508671	0.159573302
## incrementdecrement	-0.93038851	1.20378196	0.554204166	-1.621280313
## user	0.35956585	0.33248129	-0.986640453	-1.004292965
## quotdatequot	1.13652694	-0.23655581	0.583256900	-0.728998244
## signalslots	-0.87346208	1.08972216	1.144625783	-1.212929249
## inject	0.06537534	-0.48086005	1.238319278	0.234382495
## inferior	-1.20527327	0.07350188	0.993467510	-0.386174023
## objectrecognition	1.49676824	-0.08455523	0.601847768	0.309457779
## hiddenmarkovmodels	-0.90501612	-1.56892574	0.094751544	-0.139476925
## nestled	0.05679462	-0.40834716	-0.835513413	-0.236678898
## processed	-0.11912489	-0.88738108	-1.156136394	-0.141888410
## trojan	0.83240730	-1.82480311	-0.070284002	-1.602274776
## commontableexpression	-1.65110886	-0.97950232	-0.371436745	-1.083721519
## york	1.11181378	-1.16776371	-0.487007231	0.102899902
## teamviewer	0.33953053	1.39182305	0.147321567	0.553345025
## adhoc	-0.56384069	1.51939511	-0.901673913	-1.373241305
## store	0.25922206	-0.14207144	0.010927340	0.773119569
## rediscli	-0.87002861	-0.45132759	-1.339586496	0.405411065
## sine	-1.61340797	-0.56747800	0.013755821	-1.227051854
## mulitple	0.74894422	-0.93948597	0.258815736	0.619463503
## undo	0.52483320	-1.58052754	1.619137049	0.310001791
## autoconf	-1.76066148	-0.68081766	-1.417104959	-1.558813691
## lxmletree	-0.03196272	0.40195903	0.531510055	-1.640128374
## sar	0.58816117	-1.51833844	-0.819224715	1.302022099
## absent	0.97815078	-0.95156950	-0.409673005	0.494609147
## rookie	-1.00588834	1.72741532	0.255791605	-0.943676591
## garbled	-1.42820954	-0.26339254	-0.689771414	0.404506862
## rpyc	0.19084823	0.45898494	1.574493051	-0.651007056
## buckets	0.96770746	-0.65675509	0.253275961	-0.983408213
## encrypted	1.24583888	0.20181717	-1.173973680	1.222151518
## deallocate	-0.03727077	-1.56843102	-0.784081757	-0.295588106
## qstandaritemmodel	1.16303420	-1.01253808	0.134611487	0.885917902
## newline	-0.73549533	-1.46668029	0.066418529	1.023972154
## changelog	1.69011891	-1.78496420	-0.824988842	-0.362701118
## qfiledialog	-0.61048740	-0.07849503	-0.211806700	-1.724944949
## partitioning	-1.04973495	-1.58208692	1.606510758	0.993927240
## armv	0.47689399	-1.11998856	-0.522749901	-1.195894241
## standardscaler	1.18394935	-0.87023443	-1.705564976	-1.214293838
## pythonbeautifulsoup	-0.89183670	-0.49914610	1.735131860	-1.056904435
## refactoring	-0.08406000	0.06747656	-1.160468340	0.656785071
## superclasses	-1.22734928	1.18328524	0.995809436	0.765883625
## predecessor	1.30150926	-1.07125366	1.216383576	-0.506467104
## ltgt	1.16012537	0.34136811	0.026423551	0.285569012
## sequential	-1.06745088	0.71435583	1.286775827	-0.943934858
## module	-1.44745433	0.96340221	-0.066577181	0.597859561
## configurationfiles	1.40827274	0.46050540	1.635234475	-1.134753704
## ultimately	-1.68983734	-1.30207837	-0.965768278	0.751861751
## uisng	1.20358062	-1.58869660	1.229616761	-1.104492188
## byquot	0.94527817	0.12871353	1.543325305	1.262049556
## cpuarchitecture	-0.86459178	-1.34990132	0.986172676	0.805169821
## deltar	-1.69775748	-0.63071114	-0.194934979	-1.762810111
## knowing	-0.47834498	-1.02299070	-1.197383881	-0.820299447
## hacking	-1.16798997	0.35849124	1.166123152	0.655642986
## imgkit	0.89661014	1.46464837	-1.368572235	1.232362986
## ramp	-1.35342336	-0.95258683	0.457879931	1.629544854
## lat	-0.18889788	0.97725970	-0.382183254	1.142204881
## natural	-1.04329383	-0.56365776	0.766171455	-0.778474808

```

## screenbrightness 1.36858666 1.75253975 -0.481077999 0.566416860
## dplot -1.20596290 0.96920437 1.316245794 0.805268705
## scissor 1.52565098 -1.60098028 -1.096407294 0.776678741
## lemmatize 1.27858770 0.11373997 1.172429562 -0.846922040
## windowsfirewall 1.44882548 -0.64520556 0.095547184 0.850213528
## pops 1.38564956 -0.69966632 -1.635656357 1.354761362
## quotexceptquot 1.14390719 -0.01758063 0.564296663 0.960573792
## fa 1.38492465 -0.33185259 -1.363876939 0.643821299
## googlecloudlp -0.03125916 0.94660109 1.791564703 1.549597144
## jax 1.36836982 -0.94287592 -1.050178528 -0.087666668
## jboss -0.71250886 0.70870656 -1.282764077 0.377986908
## voicerecognition 0.79579788 0.52277660 0.264091909 1.474284053
## splitting 0.09103872 1.06494212 0.942877233 -1.552028894
## numberquot 1.55041063 -0.55317128 -0.236470103 0.547715247
## methodsignature 1.16427982 -1.23400879 -0.935148001 -1.543366075
## sourced 1.88170958 0.45303878 0.926620960 0.151021034
## ljust -1.13161063 0.81444824 -1.477352619 -0.624569237
## linux 0.92481232 -1.08594799 0.439290851 -1.329598069
## pythonalpine -0.40481228 -0.33576837 -0.007686026 -1.538418531
## vscode remote 0.91774732 -0.92109579 0.935061574 -0.818238795
## pythonfractions 1.70037138 -0.44472069 -0.373403758 -1.198260784
## mapquest -0.72860938 -0.89405501 -1.418838978 -1.257099628
## questdb 0.15369552 -1.26875973 1.374841094 -0.064643405
## dnsresolver 1.41780615 -0.02361894 -0.920533955 -1.486098409
## meanshift -0.64343339 0.42453137 -1.253847837 0.574445069
## sports 0.38921025 -0.27423033 -0.035201505 0.409573644
## itertools 0.37809700 0.22533767 1.650003552 -1.421054840
## hybrid 0.76282692 1.49293983 -0.707725585 0.756307006
## offloading 1.55898333 0.69258964 1.467899799 0.967663050
## dashdb 0.38440043 -0.67618102 -0.724443257 -0.978153765
## ansicolors 1.74324727 0.68948734 1.121699333 -1.624899864
## observe -1.31391251 1.68740010 -0.723201632 1.341376424
## getpost 0.83372474 -1.36662698 -0.254002392 -1.109335423
## digitsum -1.44794154 0.21716817 0.951447487 -0.598730326
## faiss 1.07839680 -0.45112476 -0.963390768 -1.756026387
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## X5 X6 X7 X8
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## hovertool	0.315262526	-1.559504986	-1.035434365	-0.869223475
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## executescript	-1.519016862	-1.252450943	-1.393864036	-1.565732241
## fluid	1.485704422	-0.039291605	0.848210394	-0.855149150
## flag	0.587549925	1.123754859	0.094991431	-0.755264878
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## fitness	1.190457940	0.031394895	-1.549627900	-1.380568147
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## belonging	-0.08780704	-1.101050138	-1.537033439	1.691101074
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## developers	1.49692857	-0.536399186	-1.269931316	1.547636151
## inspectelement	-0.85803020	1.063439250	-0.366400898	-0.760609031
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## track	0.74996138	-0.798699856	-0.776551843	1.419999242
## exercise	1.61229765	1.571841002	-0.905053079	-0.368047804
## scrabble	1.36951613	1.579544425	0.597769082	-1.585430980
## ipythonjupyter	-1.11547768	0.084829919	-0.759204388	-1.202983618
## mkdir	-1.16088951	0.970625579	0.513666153	0.996626318
## comparing	0.01331402	1.661785245	1.332592487	1.190513253
## anticaptcha	-1.64020240	0.855921209	0.243541181	1.523950219
## ifconfig	-0.66224992	1.503220439	1.370065928	0.731937170
## rpg	0.90062916	-1.005674720	-1.553992033	-0.940914392
## rich	1.47682333	0.396702588	-0.467281610	-1.339008212
## autoincrement	-0.87768418	0.568060398	-0.060578607	1.223375440
## netsh	-1.56935644	1.441914082	0.147625014	-1.050351024
## finding	-1.62449920	-0.372447699	1.475920916	-1.079948187
## texttable	-0.97319746	0.382871985	1.410162210	0.909175575
## vmwareworkstation	-1.05176079	0.159065723	-1.654939890	-0.885013878
## regularlanguage	0.63151014	0.593581080	-0.002822135	0.444598228
## spoofing	0.38988149	-1.071293235	1.333177090	-0.104155697
## palette	0.85763788	-0.184866682	1.382512450	0.748118162
## suitable	-1.19320285	-0.435461491	-1.205184102	-1.128211856
## gil	0.29573530	0.304232299	-0.683306158	-1.485494018
## headerquot	0.67320687	-1.332507849	-0.112305515	-0.848677754
## excecute	0.95538139	1.207678914	-1.482322693	-0.300947726
## lightfm	-0.38851562	-1.060977340	-1.280948162	-0.065710679
## folium	0.66148746	1.299778461	-0.996346116	1.171473742
## daskdelayed	1.59044552	-1.448030829	-0.530112088	0.950807631
## ntlm	-0.08104434	-1.135356426	-1.646330595	0.738821089
## hovertools	-1.07419360	0.524671495	1.005993247	-0.471817255
## rasterizing	-1.07235992	0.642761350	-1.620713353	0.766274571
## sendkeys	0.04894786	-0.036688596	0.367546737	0.621857405
## statsforecast	0.81743538	0.137547493	-0.269822955	0.898558438
## serialexception	-0.57386059	1.391309738	0.501004517	-0.771940947
## thanks	-0.59226805	-1.090526700	0.855612397	0.533179879
## listview	-1.46471095	-0.586125731	0.084522821	0.235151380
## maturity	1.27261138	0.910950065	-1.023262620	-0.980978608
## pythonsocialauth	-0.14553139	-0.778030694	-0.747690678	1.480569959
## randomchoice	-0.85216880	0.253333598	-1.422203064	0.849175572
## systematically	-1.28624213	0.719555497	-0.901526034	-1.230944276
## compilerconstruction	0.95485765	-1.566839695	-0.096169136	0.174373433
## directed	0.38277066	0.106071584	0.443955809	-1.060967565
## ordinals	0.48065597	0.761346877	1.552664757	1.049642563
## projection	-0.29926783	0.589124858	-1.604532599	-0.976316333
## assignmentoperator	-1.20377517	-1.225960851	-0.630056500	1.366471767
## mpeg	1.04564464	0.744690776	-1.305797935	-1.624394059
## serviceaccount	1.50867307	-0.754658639	-0.201513151	1.276054978
## knowledgegraph	1.39545977	1.347734213	0.618911684	1.322047949
## generatorexpression	-0.40794128	-1.408280253	1.229527473	-0.337379634
## experiencing	1.03358984	1.790066957	0.544479966	0.501447856
## tokenise	1.36179030	-0.829497576	1.588588476	-1.417735696
## readcsv	0.03375463	0.537445188	-0.776587665	-0.317501962
## managerdict	0.95652175	0.440638095	1.421258807	0.533479452
## cleardb	0.71430743	0.645478010	-1.586515307	0.417181492
## qtmultimedia	1.55837178	1.062187195	1.155900121	0.990875185
## executescript	-0.29209512	-0.054801490	-1.493324161	0.002842003
## fluid	0.67855144	-1.014064431	-0.508948445	0.560409248
## flag	-0.67673993	-1.268543243	1.405828714	-1.668431044
## pssh	0.04162252	0.902794659	0.466243446	-0.300807565
## fitness	1.35699856	-1.324518442	-1.537430048	1.383793473
## pascal	1.50501335	1.386237025	-1.310543656	0.670221150
## idlpython	0.15833087	1.436975121	-1.448195457	-0.607834995
## cloned	-1.10620248	1.144309640	-0.113464095	1.582373500
## neg	1.12043238	-1.156219244	-1.592650056	0.036437944
## excelformula	-0.57769001	-0.832708061	-1.526147723	1.277939081
## expr	0.71047217	-0.378959477	-1.385014534	-0.313790768
## quotconnection	-1.58857560	1.524341822	-0.152619660	-1.217645764
## sqlites	-0.83289242	0.453523189	0.646808326	1.361299872
## apachenifi	-0.83198345	0.861199856	1.688958168	-0.003444459
## celerybeat	0.17942332	1.205151081	1.304304361	0.416617036
## relaxation	-0.61668289	1.480924129	-0.856285751	1.708926201



## difficult	0.79451925	0.436781883	-1.566524029	-1.501756191
## userprofile	-1.38952744	-0.341488600	-0.407229483	-1.440880299
## latlng	-0.04614873	-0.114145719	0.522994816	-1.339045405
## plyer	0.15518329	-1.624066949	0.629398286	-1.242154837
##.djangoregistration	-1.19217658	1.123121858	1.127192378	-1.055224299
## googlechromeextension	-0.62853682	1.145300388	-1.752201557	0.378427893
## incrementdecrement	-1.45077682	0.082646847	0.098426282	-1.221523046
## user	-0.13221204	0.374533296	0.799448967	0.487158984
## quotdatequot	-1.08911490	0.675644934	1.154042006	-0.242324069
## signalsslots	-0.18849744	1.320159435	0.702162623	-0.788454890
## inject	-1.17777145	-1.643391490	-0.659387350	-1.541117311
## inferior	0.72585577	-1.179267526	1.404120088	1.260354280
## objectrecognition	-0.99381047	0.979673028	-0.781438291	1.566001892
## hiddenmarkovmodels	1.49891198	-0.106960334	-1.450614333	0.698188365
## nestled	0.10848208	1.645040035	0.592373908	1.495207667
## processed	0.04810452	-0.016672065	1.621725917	-0.354380727
## trojan	0.91242826	1.552061677	1.268428922	-0.485722333
## commentableexpression	0.30125397	1.344462991	0.680458248	1.309345484
## york	0.03423846	-0.880436778	-1.704312205	-0.567662001
## teamviewer	-0.24168257	-1.010362029	-0.866900980	-0.648055971
## adhoc	-0.80247664	0.807349205	-1.246656299	-0.695222080
## store	-1.70272458	-1.104753971	0.104725048	0.898161054
## rediscli	0.60420704	1.152234554	-0.532061458	1.621083498
## sine	1.64331377	0.643789053	-0.136464983	-0.698807716
## multiple	1.38224101	-0.312305659	-0.048410542	-1.266269803
## undo	-1.57198644	-1.297543287	1.170854688	-1.175116658
## autoconf	1.18606055	0.962622702	0.839764237	1.207188368
## lxmletree	-0.43836555	-1.645107269	0.412928402	0.321661770
## sar	-0.74287480	0.270631015	-1.118141294	-1.079214454
## absent	-0.82446539	0.791063845	-0.897140920	-0.978199065
## rookie	-1.30020416	-0.476200372	-0.078514911	-0.009264844
## garbled	0.91066784	0.126229599	-0.238560691	0.280004084
## rpyc	-1.37168550	-0.874345183	-0.789451361	-1.276834965
## buckets	-1.40520191	0.972670555	-0.660743237	-0.832297921
## encrypted	0.56319892	0.611819208	1.649408221	-0.879210174
## deallocate	0.17571028	-0.992376685	0.527451336	0.601563036
## qstandarditemmodel	-1.18190634	-1.499089956	0.548867643	-0.464458197
## newline	0.91182864	-0.894541323	1.278235793	-1.425228596
## changelog	1.50307822	0.736113191	0.424583554	0.972197235
## qfiledialog	-1.44798326	-0.224261954	1.618642092	0.540763140
## partitioning	0.95273685	-0.296452016	0.155337244	1.059174299
## armv	-1.40222025	-1.318324804	-1.086324215	-0.559242606
## standardscaler	1.15239465	-0.663011730	0.101227023	0.482642561
## pythonbeautifulsoup	-0.60811883	1.363135576	-0.429355294	0.441714346
## refactoring	-0.66484547	0.051311474	-1.442670703	1.127305388
## superclasses	-1.21064007	-1.819510460	-0.441523135	-1.209758043
## predecessor	1.18888259	-0.119240947	1.133877635	0.918738723
## ltgt	-1.17460132	-0.202794492	-0.863714755	-0.089636371
## sequential	1.70753050	0.504765570	1.794139862	-1.131684184
## module	1.24642563	0.130376786	0.478145748	-0.112401448
## configurationfiles	1.23893118	-0.621085882	-0.901769221	-0.225231946
## ultimately	-0.37276560	-0.141631812	-0.530464292	1.713590503
## uisng	1.09127188	-0.368032306	-0.280319363	-0.123042442
## byquot	-1.23349714	-1.279961705	-0.778941751	-0.012273687
## cpuarchitecture	-0.05604777	0.471395135	1.777187228	0.538412869
## deltar	-1.66504049	1.368219018	-1.243287325	-0.984075844
## knowing	0.11756562	-0.684246182	-1.112031817	1.610836267
## hacking	-0.84518242	1.244181395	1.246011734	-1.506702423
## imgkit	1.09143174	0.683157563	1.188837528	-1.706719756
## ramp	-1.24618983	0.770859599	-0.930687129	-1.356301546
## lat	1.35472548	0.136981219	-0.693702817	-0.211532399
## natural	1.47201526	0.838091195	0.046723254	-0.989571750
## screenbrightness	0.76276702	-1.809928298	0.979618430	0.354111046
## dplot	0.69481373	-0.687259078	-1.103677750	-0.133459494
## scissor	0.20957807	0.309573203	1.175460577	-1.055626750
## lemmatize	1.20983219	0.393479586	1.287580490	1.579894066
## windowsfirewall	-0.68058240	-0.084628575	1.401669383	-1.023945332
## pops	-1.11295164	0.284357160	1.443023682	-1.383645654
## quotexceptquot	-0.85045445	0.703706443	-0.666341066	-0.842556775
## fa	0.87864131	0.338337779	1.374366879	1.190482497
## googlecloudulp	1.60691237	-0.473595798	0.712725997	0.155439749
## jax	0.33077088	0.611056566	-0.024462163	-0.095497012
## jboss	-0.13406321	0.255589247	-1.671628118	0.220089525
## voicerecognition	1.66744685	0.266884774	-0.370254636	-1.719232917
## splitting	0.30178273	0.593691289	1.723294020	-0.539531469
## numberquot	-0.41073564	0.597882748	-1.398592353	0.329962432
## methodsignature	1.27550006	-1.463203311	1.534413815	-0.579293013
## sourced	0.83140725	-1.509546399	-0.323012054	0.589290917
## ljust	1.21794438	-1.192417622	-1.293914318	-1.285014749
## linux	0.22309220	1.241903305	-0.849968791	0.473067909
## pythonalpine	-1.48425341	-0.547853231	-0.124082603	0.170709014
## vscoderemote	-0.02411418	-0.896811366	-1.032357693	0.038218439
## pythonfractions	0.46391019	1.210758328	-0.874595165	1.506264806
## mapquest	1.13696957	-0.441066951	0.053766005	-0.451159716
## questdb	0.14752327	-1.177426934	-1.189599633	-0.618210375

## dnsresolver	-1.58167791	0.866750956	1.050892234	-0.295589328
## meanshift	-1.35273802	1.533283114	-0.858474851	0.535107493
## sports	-0.76568496	-1.343422771	0.451785475	-0.986931741
## itertools	1.66413355	-1.322831035	0.665622413	1.518416882
## hybrid	0.35526544	0.670605719	-1.309658527	-1.618471742
## offloading	-0.42241663	-0.654006660	1.025017619	-1.631428957
## dashdb	0.70803642	0.530960679	1.451783180	0.650628328
## ansicolors	-1.69782209	-0.403561264	-0.295065790	0.480293572
## observe	1.62701368	-1.694431186	0.681174636	0.077852070
## getpost	1.17496288	-0.184949264	1.107785106	-0.916860938
## digitsum	0.84208953	-0.638101816	-0.730937719	0.148776069
## faiss	0.07043102	0.015935935	1.543264031	-0.095918730
## clexe	1.47270513	-1.114381909	-1.486158729	0.758623123
##	X13	X14	X15	X16
## lttrgt	-1.342755914	0.14334795	1.604348660	-0.255260915
## expose	-0.100006357	0.04365104	0.587196589	0.652390301
## socketaccept	-1.571650147	-1.63781905	-0.006326423	1.453809500
## methoddescriptor	0.404151648	-0.09332108	-1.304746866	-0.964390934
## mud	-0.300867826	1.53855693	0.394206285	1.003236651
## proper	-0.040959712	-0.10239343	0.271411121	0.845334768
## belonging	-1.285846710	-1.54376400	-0.921245158	0.019650815
## dosnt	-0.070504516	-0.48239625	-1.541758895	-1.592577219
## wrongversionnumber	-1.238717079	1.52176011	-0.819033742	-0.965761423
## transformer	-1.038043141	1.58990955	-1.104703069	0.329054385
## pyrunstring	-1.333283782	0.82706159	0.851214290	-0.990839779
## sanitizer	-0.199144691	-0.44892159	1.570912719	-0.039789535
## ole	1.439625740	-1.33898020	0.728783846	1.361734509
## render	0.869608998	1.09578919	1.281968355	0.346768439
## daskdataframe	-0.494950175	1.62197554	1.432885647	-0.174745247
## sclient	-1.288613200	-0.15341300	0.446861356	0.855643332
## piece	-0.812500715	1.65022898	1.770385027	0.219008237
## dictkey	-1.102554798	-0.79470521	1.711281300	-1.132653713
## stringformat	-0.711439788	-1.18019915	1.377360106	-0.643664837
## normals	0.843522489	-0.25498655	0.336149305	-1.568502307
## poisson	1.110759258	1.63345730	0.266339034	-0.323637635
## memsql	1.586407661	0.73701417	0.031348202	1.126089454
## googlepythonapi	0.526345015	-0.02548562	0.098869219	1.403799415
## unclickable	1.170386195	1.64949059	-0.046375144	-1.395633340
## supress	-0.359991848	1.27187276	-1.430994987	1.186982751
## transferfunction	0.291835904	-0.95124257	-0.414841950	0.836297452
## id	0.303121060	-0.26294360	0.481213778	0.227570906
## cqlengine	-1.233833909	0.36623916	1.498040676	1.304639101
## succeeds	-1.067804933	-0.55267602	-0.527307153	0.981883764
## developers	1.002615929	0.71745312	1.303051710	-1.064143658
## inspectelement	0.488563925	-0.95767349	0.950555682	1.163940907
## avarage	1.400688648	-0.80214995	1.115273237	0.075384632
## httpcookie	-0.006857208	-0.42218933	-1.703689218	1.548959017
## windowsx	-0.379868686	-0.32005486	-1.076859713	1.399480462
## track	0.271956056	1.10683262	-0.486219198	-0.769066513
## exercise	1.076277733	0.89165449	0.398507863	0.224741653
## scrabble	-1.168744326	0.85544336	1.627527118	-0.196871176
## ipythonjupyter	-1.234699130	-0.89046222	-0.418715388	-1.447950125
## mkdir	-0.859416902	-0.02197394	-1.603547931	1.142850637
## comparing	1.174019575	1.41769600	-0.519602299	-1.212563276
## anticaptcha	0.727116644	0.21355712	0.496375382	1.506754160
## ifconfig	-0.655817151	-0.80408120	-0.728653789	-1.377121568
## rpg	1.066025257	-0.46044865	-1.014045358	1.217249751
## rich	0.685368598	1.25719166	0.211782902	0.473921657
## autoincrement	1.620558977	-0.71486014	1.333993316	-1.623417616
## netsh	-1.131490231	1.70863688	1.788815498	0.503964365
## finding	1.623228669	-0.26428488	0.758512139	0.609952807
## texttable	-1.460376382	-1.31078565	-1.154870629	1.425253630
## vmwareworkstation	0.877030849	-0.21765074	0.761231303	0.686536729
## regularlanguage	-0.796225429	-1.49822783	-0.152031705	-1.409876108
## spoofing	-0.736906528	0.95343274	0.556095779	0.165302306
## palette	0.716365457	1.90073645	0.444582134	-0.227170587
## suitable	-1.016392708	0.88697881	0.748649657	-0.727291882
## gil	1.598120093	1.89308035	1.171980619	1.256269574
## headerquot	0.748864591	-0.60930574	0.066709593	0.830727279
## excecute	0.974557459	1.56395435	0.948053479	0.599411726
## lightfm	-1.223949671	-0.86060601	0.158650160	-0.441268533
## folium	-1.197363853	1.51691329	-0.771342754	-0.369382590
## daskdelayed	-1.577669501	-0.61693513	-0.331796885	-0.021875335
## ntlim	1.641105294	-0.22938567	-0.966205657	-1.802173495
## hovertool	-0.443325698	1.76196814	1.771419406	0.575995326
## rasterizing	0.590068161	0.46537486	1.652957439	-1.519907355
## sendkeys	0.413455337	1.37539804	-1.296643257	1.421930552
## statsforecast	-0.002877815	1.73916006	1.354252458	0.814461112
## serialexception	1.567139387	0.22790679	-0.445576906	0.199743122
## thanks	-1.313833356	1.13942552	-0.542448282	1.590617776
## listview	0.042009644	-0.01210653	1.326620817	0.887748003
## maturity	0.749933004	0.27573976	1.527680635	1.487032652
## pythonsocialauth	1.566678643	-1.57637286	-0.497410029	1.104473948
## randomchoice	-0.398467094	-0.97808683	-0.746837318	1.172147989
## systematically	-0.054256696	1.33395898	1.298386216	0.706353486

## compilerconstruction	1.784911871	0.89448237	-0.479068547	0.755615056
## directed	1.350691795	0.44386098	-1.413960934	1.304246545
## ordinals	0.607080460	-0.73440105	-1.128793240	0.126399815
## projection	1.537447333	1.10261476	-1.327654839	1.366565824
## assignmentoperator	-0.044902284	-1.66301298	-1.011288166	0.664624035
## mpeg	0.263974160	-0.18824026	-1.542934656	0.644797981
## serviceaccount	-1.192237854	1.35883641	-1.458328605	0.304218918
## knowledgegraph	-1.276631236	0.70278257	1.400536060	-1.083575368
## generatorexpression	1.349877596	-0.84589982	1.607339501	0.719371498
## experiencing	-0.987430930	-0.47605187	0.929444373	0.720080197
## tokenise	-0.371496439	1.14454556	0.277631193	-0.939929843
## readcsv	0.821260929	-0.86092633	-0.040422156	1.120677352
## managerdict	-1.173512578	1.62114465	0.444206566	0.687112868
## cleardb	1.243042827	1.11160469	1.418874145	-0.408913642
## qtmultimedia	0.835929453	-0.35293019	0.506350100	-1.454436183
## executescript	-0.403977543	1.43925107	1.082197785	-0.052038942
## fluid	1.257778287	-0.38496897	-1.763012409	1.541975141
## flag	0.469351947	-0.81139648	0.804556310	0.780258477
## pssh	-0.760708511	1.11177707	-1.235551000	0.068620078
## fitness	1.499476075	-1.48586226	1.565239549	0.007914783
## pascal	0.177990198	-1.28373325	0.730845571	-0.894153297
## idlepython	1.229627848	0.27108717	-0.786845386	0.206552625
## cloned	1.357031107	-0.29485026	-1.475342512	-1.468104482
## neg	-0.014903717	-0.33282864	0.376775295	1.482122064
## excelformula	1.430303574	-0.98189557	-0.295111865	0.021503072
## expr	-0.400569022	0.53798938	-0.830781579	0.955943346
## quotconnection	-0.043334782	-0.62509173	-0.486920953	-1.468544245
## sqlites	0.154145673	0.56467980	1.576771498	-1.521254897
## apachenifi	-0.890387714	-0.69888502	0.963942587	0.047038119
## celerybeat	0.161106884	-0.34090844	-1.519056082	-0.069376267
## relaxation	1.258010983	-0.77259570	-1.232997656	1.068823338
## difficult	-1.477347612	0.96134561	1.007639289	0.217233375
## userprofile	-0.939713120	0.43679526	-1.164378643	1.442770243
## latlng	-1.001937032	0.67232734	0.412646115	0.046353143
## plyer	-1.084568024	-1.36941135	1.304818749	-1.594009876
## djangoeregistration	-0.659943402	-0.03700899	-0.801091790	-1.242063522
## googlechromeextension	0.041553207	-1.01505136	-0.930339575	1.647542834
## incrementdecrement	-0.970108271	0.38473812	-1.127645612	0.215035379
## user	1.130463481	-1.63324070	-0.616067529	0.449244350
## quotdatequot	-1.372311473	1.45812011	-0.056099478	-0.817686081
## signalsslots	0.192268282	-1.38468218	-0.362032682	1.381033659
## inject	1.530960917	0.16189386	-0.058564845	1.351409554
## inferior	0.678683162	-1.53358400	1.483908176	0.196802691
## objectrecognition	0.847305536	-1.32488084	1.596979737	-1.260809541
## hiddenmarkovmodels	-0.161876276	-0.49024794	0.819630206	0.893223405
## nested	-1.526263475	-0.27197197	-0.549776673	1.592878580
## processed	-0.791387737	0.19455875	-0.664382279	1.703542829
## trojan	0.046649210	-0.14728819	0.639753759	-0.675186872
## commontableexpression	-1.562226057	-0.55666459	0.269082099	0.963068902
## york	0.920400262	0.76747507	-1.455116749	1.550568938
## teamviewer	-0.476979792	1.39947939	1.624159336	0.044283174
## adhoc	0.181546822	1.07022643	-1.270098925	0.258758247
## store	0.473269343	0.24619976	-1.571556449	-0.653468251
## rediscli	-0.195870936	1.21279514	-0.392943740	-1.288424730
## sine	-0.028049853	0.24646279	0.582308352	-0.278305143
## mulitple	1.249324441	0.85500932	1.531203747	-0.045499530
## undo	0.911208749	0.02029687	-0.283157945	-0.506580651
## autoconf	1.184760451	-1.69839752	0.120063342	1.138555408
## lxmltree	0.490430176	0.16095220	1.356489658	0.337466240
## sar	-0.651476622	-1.66960776	0.028299265	-1.234997869
## absent	1.492194772	-1.28626728	0.193303555	1.178206325
## rookie	0.044472199	-1.63381195	-0.426899076	0.119891763
## garbled	-0.025170410	-0.26573610	0.618699312	0.023076933
## rpyc	0.934941590	1.07997584	-1.219701409	-0.062909819
## buckets	-1.410421252	-1.35975540	-0.109465048	-0.311529428
## encrypted	-1.194779158	0.01632258	-0.241240159	1.564823627
## deallocate	0.511215866	-0.85034627	0.950193226	-1.114203930
## qstandarditemmodel	0.501045465	-0.02840508	0.403819501	0.807684660
## newline	-0.414631754	-0.95448327	1.146136880	0.540256977
## changelog	1.489443898	-0.39115885	-0.707583606	0.225218788
## qfiledialog	-0.660966814	0.48830467	-1.407881498	0.949851990
## partitioning	0.893721402	-1.60799849	-0.168949008	1.505807400
## armv	1.179762959	0.22527051	0.727453232	-0.416920602
## standardscaler	0.717296839	0.36568132	-1.301394582	1.209879398
## pythonbeautifulsoup	-0.592005610	-0.22102012	0.914283156	1.559800625
## refactoring	1.595508695	1.57448196	-1.670992017	-1.554773569
## superclasses	-0.918324351	0.19532610	1.086798429	0.082534693
## predecessor	-0.844366312	-0.86020607	-0.174055591	1.016056418
## ltgt	1.428906560	-0.21554427	1.696725488	-1.721795321
## sequential	0.255403459	-1.15266621	1.301827073	-0.135385484
## module	-1.465670705	-1.55729556	0.681072533	-1.613652468
## configurationfiles	0.477674574	-0.47288623	-0.912518799	-0.836423934
## ultimately	1.165153146	-0.72818929	-0.578329384	0.110351682
## uisng	0.645861983	-1.45329475	-1.497001052	0.253459930
## byquot	0.464449465	0.06804398	0.241045371	1.306778193

## cpuarchitecture	-0.746574283	0.86800039	-0.121287607	-0.686670125
## deltars	-1.742068887	-0.61612624	-0.421761721	-1.419254899
## knowing	-0.366424114	-1.48436856	-0.718330383	-1.507866859
## hacking	-0.461386979	1.41582346	-1.303630829	0.885608375
## imgkit	0.381969571	-1.72065222	0.248297051	1.238091588
## ramp	0.893931866	-0.61182249	-0.019200429	-0.890588582
## lat	-1.008757949	-0.94820338	0.382317454	-1.575487852
## natural	0.837914586	-1.63904989	1.140004635	-0.780897915
## screenbrightness	-0.628858089	0.36975521	0.232654959	-0.378417760
## dplot	0.931926608	1.57181549	-0.615114927	0.309813172
## scissor	-1.238920569	0.96437013	0.742250919	-0.181663856
## lemmatize	0.975623488	0.71912229	0.135133713	-0.094037153
## windowsfirewall	0.242140323	-0.22833741	-1.470809340	0.819027603
## pops	1.172419786	-0.55491459	1.449741483	1.149170637
## quotexceptquot	0.652227759	-0.03922214	-1.700798392	1.270754695
## fa	1.334023118	1.29836214	0.129854918	-0.764623404
## googlecloudldp	-1.497652292	0.13291889	-0.379646480	-0.472099274
## jax	1.480982423	1.60410297	1.149115801	-0.320433050
## jboss	-0.864601731	-0.01708981	-0.735413432	-0.290181577
## voicerecognition	0.368680447	0.46358624	-1.143906713	-1.325408816
## splitting	-0.394072503	1.30830455	0.394863993	0.232129201
## numberquot	0.966331661	-0.82689589	0.834941328	-0.057010252
## methodsignature	0.201063469	0.13568106	-0.793597639	1.336044431
## sourced	-0.436832756	-0.67046583	-1.369557142	0.648781955
## ljust	0.944815874	-1.24393106	0.723356366	1.146561623
## linux	-0.303573787	1.20610690	-0.232712835	0.022565577
## pythonalpine	-0.839416683	1.41318321	-0.703030646	1.657075167
## vscooderemote	1.784016013	-1.05036128	-1.368053913	0.895588994
## pythonfractions	1.584122658	0.52461624	-1.408216596	0.074647710
## mapquest	1.255898833	1.11895204	-0.540676892	-0.440574348
## questdb	-1.073767662	-1.00280666	-1.150331736	-1.626299500
## dnsresolver	1.584804893	-1.26900625	0.810405195	-1.195584893
## meanshift	-1.442224860	-0.72993863	-0.393864751	-1.609616041
## sports	-0.190440848	0.87196058	1.015834808	-1.306296706
## itertools	1.638554335	0.01985408	0.385550529	-0.744072855
## hybrid	-0.148423433	0.94994843	-0.915596485	-1.099718213
## offloading	0.606733322	1.68204570	1.057003975	1.507111669
## dashdb	0.697544634	1.45937717	1.366812348	1.339403272
## ansicolors	-1.080490828	1.47557998	-0.234046638	0.207933053
## observe	0.065425389	0.73277265	-0.902569175	-0.736576498
## getpost	1.405718207	-0.70085216	0.664612949	-0.209116593
## digitsum	-0.918191791	-1.25107992	0.761257112	-1.513339639
## faiss	-1.684665561	0.86765075	1.182224989	0.513843596
## claxe	0.536855578	-0.76434249	0.549904823	-1.080364347
##	X17	X18	X19	X20
## lttrgt	0.8243902922	-0.84950238	1.249624729	-0.380525976
## expose	-0.7760964632	0.17180070	0.754164934	-0.907038391
## socketaccept	-0.2750697136	1.29167104	0.242471710	0.882473290
## methoddescriptor	-1.5326045752	-0.89964461	1.702930570	1.778371572
## mud	0.9903143048	0.95581651	-0.385259241	0.987414300
## proper	-1.4847856760	1.14508092	1.564718962	-0.410352707
## belonging	-1.5130888224	-0.64996570	-0.722261727	-1.469932556
## dosnt	1.3975492716	0.85716867	1.604468346	-0.451509446
## wrongversionnumber	-0.3849260807	-0.15287787	-0.876648605	0.879201949
## transformer	0.6991333365	-0.19374126	-0.329420835	-1.306565404
## pyrunstring	-0.3621896207	-1.20192778	-0.751033068	-0.986640573
## sanitizer	-0.6846010685	1.09055638	-0.498125285	0.444795191
## ole	-0.0114540830	0.74603558	0.219204709	1.132602453
## render	1.1601192951	1.50848889	-1.303448439	1.669130325
## askdataframe	1.3221448660	0.18318200	-1.563293099	0.377234578
## sclient	-1.6732518673	-1.00482273	1.235643148	1.703913212
## piece	1.5805689096	-1.33057857	0.168168992	0.125823259
## dictkey	-0.8998091817	1.84712338	-0.001410907	-1.684910417
## stringformat	-0.5355564952	-1.33668768	1.460963845	-0.582179070
## normals	-1.1608873606	1.66072690	-0.493309110	-0.114315823
## poisson	1.3020935059	0.38800630	0.767548382	0.500069320
## memsql	-0.5066895485	-1.03094018	0.513372660	1.710670948
## googlepythonapi	0.1758541763	0.58297169	1.172243357	-0.737878561
## unclickable	-0.6371970177	-0.53209257	-1.273999095	-1.617122531
## supress	-1.2667973042	-0.91410738	0.220090315	1.497124076
## transferfunction	-1.1821966171	-1.36212587	-0.666851401	0.097894005
## id	-0.8251990080	-1.22533107	-1.227839828	0.127611712
## cqlengine	-0.6339681149	-1.05137074	1.473350286	0.358348250
## succeeds	1.1905648708	1.46768320	-1.005364656	-0.306862324
## developers	0.9758365750	-0.02627542	-0.077559285	-0.117756836
## inspectelement	1.2023175955	1.44073474	-1.347000360	-1.270614028
## avarage	1.4869437218	0.78190386	-1.410269618	-0.045931984
## httpcookie	0.6972944140	-0.79764587	-0.833493650	0.571374297
## windowsx	-0.6034254432	0.95162022	0.511186540	-1.211352706
## track	-1.1935344934	0.15791929	0.248152882	-0.701651931
## exercise	1.7514213324	-1.62099612	0.471580088	-0.917030275
## scrabble	-0.4126784801	0.72720522	-0.812930465	0.827426851
## ipythonjupyter	1.5226809978	0.30501765	-1.117024541	-1.695350766
## mkdir	-0.4943825901	-1.04413521	1.197017074	1.027293921
## comparing	1.5533037186	1.13635314	0.554469347	-0.844103038



## anticaptcha	1.3505839109	-1.36950958	0.593949437	-0.407006472
## ifconfig	-1.4400272369	-1.20903838	-0.660044074	-0.066938974
## rpg	0.3670732975	1.57200420	-0.985439360	-1.092228174
## rich	0.6782002449	-1.58760333	0.331385374	0.631676257
## autoincrement	-0.9235343933	-0.95818418	0.798142672	1.415620446
## netsh	-1.3150006533	1.19030094	1.500450611	-1.770936966
## finding	1.6130089760	0.41083235	-1.587923646	0.636221886
## texttable	-0.2962365150	0.52298212	0.843262017	1.267796993
## vmwareworkstation	-1.6120235920	-1.08431542	1.698974490	1.281199217
## regularlanguage	-0.1956351995	-1.14624238	1.547568083	0.111811340
## spoofing	1.2590501308	0.83069539	0.378981054	-1.512567759
## palette	-1.5387102365	-0.73097831	-1.525300384	0.862537861
## suitable	-1.0072890520	-0.21947177	-1.429055095	-0.648664713
## gil	0.5220161676	-1.27295780	0.172151104	0.267745674
## headerquot	0.0418302901	1.61847687	0.857847452	0.487963766
## execute	-1.6782262325	-0.55557173	0.473933041	0.879124224
## lightfm	0.1783522666	-1.34723282	-0.300772935	1.623626232
## folium	-0.8623239398	0.32544374	-1.572116733	-1.070886254
## daskdelayed	-1.4756566286	-0.76768965	-0.559261501	0.913801193
## ntlm	1.4924398661	0.58580315	-0.049959343	-0.738156259
## hovertool	-0.4701640308	1.56741107	1.680252075	-0.328598261
## rasterizing	0.6167507172	-1.47478318	-0.306620479	-1.481263041
## sendkeys	0.4153983593	-0.72172689	-1.379075766	0.245400414
## statsforecast	1.6055231094	-1.70627022	-0.528156877	-1.019121289
## serialexception	-0.1697274745	0.16640055	-0.117329881	-0.056341890
## thanks	-1.5894154310	1.04940367	0.249683470	0.402416974
## listview	0.0320874043	1.71909654	-0.621413410	0.037334632
## maturity	-0.3737472296	1.35580921	-0.925360262	-1.436218858
## pythonsocialauth	1.5064533949	1.50728643	0.260970473	-0.106351011
## randomchoice	-1.5630317926	-0.29539225	-0.479185581	-1.591429591
## systematically	-0.7450703382	-0.29116756	-0.359289140	1.329703569
## compilerconstruction	-0.7518898845	0.45856979	0.460814804	1.359211683
## directed	1.2136335373	-1.34603298	0.648684919	0.352276534
## ordinals	-0.5860961676	1.04175794	-0.192092553	0.142738417
## projection	0.9171565175	-0.58232754	0.342954755	-0.880808413
## assignmentoperator	-0.2898445725	1.07477450	0.001569897	1.471980572
## mpeg	0.5060260892	0.42700753	0.030083857	-0.853890955
## serviceaccount	-0.5396686792	0.30265936	-0.711214781	0.417968899
## knowledgegraph	-0.1936223805	-0.75922197	1.144780874	-0.188820317
## generatorexpression	-1.3714100122	1.20629919	-0.957769692	-0.107658699
## experiencing	0.0996513665	1.52820814	0.909425795	1.754423499
## tokenize	-0.4914745688	0.89919060	-0.224507883	-0.823962331
## readcsv	0.9918859005	-0.90703493	0.936579227	-0.632101834
## managerdict	-0.8948451281	-1.24609506	-0.180355057	1.564902186
## clearadb	-1.1747244596	-1.44880855	-1.585242391	0.052884560
## qtmultimedia	-1.7405164242	0.45011431	1.064386487	-0.651280105
## executescrypt	0.5140694380	0.22412220	-0.838445425	-1.195792556
## fluid	-0.1255745292	0.42841220	-1.718858123	1.619979858
## flag	0.4475091398	-1.19883668	0.702874780	-0.862531960
## pssh	0.3027358651	1.47486663	1.303808689	0.426135302
## fitness	-0.8465536833	0.92813092	1.060371637	1.547204494
## pascal	-0.9223522544	1.41290677	0.247750267	0.495939970
## idlpython	1.3369644880	0.35807633	1.199067831	0.976370513
## cloned	0.8037467003	-1.65433669	-0.536275327	0.096577816
## neg	0.6326382756	-1.46203113	-1.513660431	-0.478346765
## excelformula	0.6153626442	-1.12642086	1.577827692	0.803820610
## expr	-0.3537514210	1.46634579	0.868671656	1.460249305
## quotconnection	-0.1420801431	-0.06722058	-0.073842980	0.678035080
## sqlites	1.0874224901	0.40905812	0.691092074	1.307887316
## apachenifi	-1.6298761368	-0.88666588	-1.716398597	-0.797250628
## celerybeat	-0.2124647051	-1.53983986	-0.010712421	0.318392426
## relaxation	-0.3164407909	-0.63809264	-0.482062757	-0.571492434
## difficult	0.6709144115	0.09188899	-1.488377690	-0.146918789
## userprofile	0.6200124621	1.38602555	-1.294283986	0.699782312
## latlng	1.5219558477	1.10643947	1.339556932	0.959286213
## plyer	-1.0725290775	1.19130325	1.554918408	1.629139662
##.djangoregistration	-0.8336377740	0.89337641	1.577382207	0.472553283
## googlechromeextension	0.9405567050	-0.22646368	1.170969963	0.567175925
## incrementdecrement	-1.5422871113	-0.54641622	-0.712443709	-1.126329780
## user	-1.4563245773	-0.27307785	-0.418885022	1.529462337
## quotdatequot	-1.2164145708	-1.46822155	-0.132621720	1.032618761
## signalsslots	1.3149557114	0.38160470	1.072715998	-0.993117452
## inject	-0.7609068751	-1.69981039	1.141134143	0.834037066
## inferior	0.9056743979	1.45785105	1.384265184	0.016406186
## objectrecognition	0.2751533091	-1.48045540	-0.710694253	0.589427769
## hiddenmarkovmodels	-1.0776462555	1.20378256	-1.316627860	-0.392537087
## nestled	-0.2220184952	0.70947659	1.490364909	0.284567654
## processed	0.0857979730	1.67776906	-0.648199022	-1.293579340
## trojan	1.4730925560	0.04034600	-0.733804405	-1.805121303
## commontableexpression	0.8111727238	-1.61878598	-0.127829701	-0.351381212
## york	0.8458238840	0.15952544	1.537686586	0.542770326
## teamviewer	-1.6855340004	0.07212375	-0.655083477	1.358265757
## adhoc	1.0338525772	1.00351226	0.737668335	0.908193946
## store	1.3432202339	1.35218859	0.150969595	1.272298932
## rediscli	-1.7618447542	-1.47232449	0.438408405	1.296764493

## sine	-0.6429547668	-0.78426707	-1.174828053	0.006930123
## multiple	1.3388261795	0.25232473	0.458049655	-1.671507239
## undo	0.3449853063	0.54382288	1.094131351	1.469564795
## autoconf	-1.0324975252	1.73390818	0.022883276	1.186726570
## lxmletree	-0.5721428394	0.92443401	-0.625693917	-0.859155059
## sar	0.1509643942	-1.13005447	0.853159964	-0.033522781
## absent	-1.3438787460	1.45178080	0.840039074	-0.107287519
## rookie	-0.3481492102	0.59641594	-0.522117972	-0.179455966
## garbled	0.1136912778	-0.86786610	-2.041070938	0.142386019
## rpyc	-1.4643574953	-0.38797966	-0.459814519	-1.249241471
## buckets	0.4964753985	1.64096749	-1.701266527	1.715855241
## encrypted	0.6904107928	-0.32340646	1.174155235	1.287952900
## deallocate	-1.1325647831	-0.76011527	-1.005869985	-1.417062759
## qstandarditemmodel	-0.8922430873	0.57232505	0.110705808	0.322900236
## newline	1.3469239473	0.66031563	-0.217671618	-0.269177705
## changelog	0.9020709395	-0.30789730	-0.544070899	0.169275045
## qfiledialog	-0.0308617223	1.19650507	-1.698885679	1.091506124
## partitioning	0.0004974244	-0.39029065	-0.122220106	1.266184688
## armv	-0.4932511151	1.44387507	1.252043486	0.492078662
## standardscaler	-1.0156886578	1.17964470	-0.980599225	0.513925433
## pythonbeautifulsoup	-1.3061009645	0.91545171	0.360428542	-0.327743053
## refactoring	-1.0878641605	-1.51201320	1.210524440	-0.817517221
## superclasses	-0.1488376409	0.20504315	-1.658796668	0.956794918
## predecessor	1.4364833832	0.27520946	-1.089280128	1.397200704
## ltgt	-0.7797718644	-1.15912032	-0.995089591	-1.123215318
## sequential	0.6699539423	1.21232045	-0.686998844	-1.679356337
## module	1.3370461464	-0.07293178	0.201058820	0.270094037
## configurationfiles	1.5206648111	0.03254657	1.254283309	1.560019970
## ultimately	-1.7994402647	0.69987148	1.577463865	-0.953144610
## uisng	1.0084798336	0.30921414	0.244056880	-0.968516648
## byquot	-1.4975180626	-0.43888670	1.447510004	0.139051005
## cpuarchitecture	1.0485639572	-1.08320594	-1.413800001	1.766000986
## deltar	-0.2016062886	0.66868556	0.600776255	-0.587093353
## knowing	-0.4274030030	0.97932029	0.220492125	0.241076127
## hacking	0.8000347018	-1.37812090	-0.717705607	-0.570236623
## imgkit	-1.0911235809	-0.38339502	-1.555308342	0.338943630
## ramp	0.8313004375	-0.50784248	-1.054850698	-1.743283033
## lat	-1.3120535612	-0.43910736	0.060540121	-0.218082175
## natural	0.2825802267	1.12781918	0.576028645	0.782244265
## screenbrightness	-0.2114460319	-0.70603848	-0.157018617	0.994356036
## dplot	-0.3071323335	0.14972499	-0.124464042	-1.650043249
## scissor	-0.8124182820	0.95336092	-1.147759557	-0.588142097
## lemmatize	0.5967544913	1.28056777	-0.888279200	-1.293687463
## windowsfirewall	0.8153270483	1.29377890	0.228119954	-1.207223296
## pops	-0.5922178030	0.96125060	0.257919371	0.814865708
## quotexceptquot	-0.7454411387	-1.48856115	-0.266699761	-0.220765024
## fa	-0.4470946193	-0.31773171	0.026473030	-0.476450562
## googlecloudlp	0.2138974667	0.69862247	-1.433274150	-1.554197669
## jax	-0.2637431920	0.59073824	-0.033785131	-1.238511920
## jboss	-1.4129577875	-0.77214879	0.423412353	1.135743856
## voicerecognition	0.2040498406	0.54079992	-0.303817779	0.213996843
## splitting	1.2593607903	-0.51901484	-1.536401153	-0.512387455
## numberquot	0.0950174630	-0.27606973	0.139944807	-1.533161283
## methodsignature	-0.2515543103	1.46227789	-0.811636925	-0.611770153
## sourced	1.9053546190	1.68622708	0.699772418	0.953346431
## ljust	-1.0440434217	-1.16599381	-0.764348805	-1.049173236
## linux	0.4172611237	-0.70993721	-1.533353448	-0.337659597
## pythonalpine	-1.4945826530	-1.06226122	0.672952712	0.476871699
## vscode	1.4153703451	1.27050567	-0.580084801	1.125229001
## pythonfractions	0.1164700389	0.17314938	-0.341285020	-0.675786257
## mapquest	0.7048854828	-1.51889503	-0.125949457	-0.834690928
## questdb	-0.7387614250	-1.15938866	1.094275475	0.936379611
## dnsresolver	-0.3013328314	0.16429569	1.342844725	1.228638887
## meanshift	-1.5585203171	-0.56281751	1.177340984	0.694966733
## sports	-1.5297158957	0.88964528	-1.416749954	-0.712071419
## itertools	0.9096741080	1.21296704	-0.406265706	1.256260991
## hybrid	1.3919146061	-0.09742739	1.619838834	0.733198225
## offloading	-0.4911848307	-1.11750615	0.014354249	-0.885457873
## dashdb	0.0852021202	1.21810424	0.388667762	1.419246674
## ansicolors	-0.3738849163	0.07212298	1.093701959	0.639111280
## observe	-0.4157300293	-0.83057344	-0.673389614	-1.068332076
## getpost	1.5327436924	-0.77421790	-0.138487607	1.041092873
## digitsum	0.4090321362	-0.04077145	-0.672388554	-0.938965201
## faiss	-0.8197291493	0.13283898	-1.599683166	1.734979272
## clexe	0.6102572680	-0.85121119	-1.306361556	1.241818428
##	X21	X22	X23	X24
## ltrgt	-4.104007e-01	-0.8919203281	0.483828753	0.240009308
## expose	-1.832796e+00	-0.4407058656	-0.288612038	-0.837716937
## socketaccept	1.352260e+00	-1.3464723825	0.820686758	0.793474436
## methoddescriptor	-6.462678e-01	0.9761474729	-1.108595967	-0.767527819
## mud	-2.485269e-01	1.3793687820	0.802156687	1.644128680
## proper	1.666731e+00	0.6370465159	-1.443751454	-1.313472629
## belonging	1.383944e-01	-1.0833044052	-0.348551601	1.034720302
## dosnt	-1.447553e+00	0.4868796170	-1.286805034	0.005919957
## wrongversionnumber	-4.458209e-05	-1.5863633156	-0.844943702	1.371119022

## transformer	1.198000e+00	0.1499320567	0.391013384	-1.097465158
## pyrunstring	-1.285172e+00	0.7026937604	-1.718840957	0.098395966
## sanitizer	-7.943449e-01	1.3067680597	-1.518323660	-0.399603367
## ole	-4.478408e-01	-1.2322157621	0.669671714	0.384273469
## render	-1.487749e+00	1.3919477463	0.287505180	-0.635536551
## daskdataframe	1.299087e+00	-0.0091409981	0.816708624	-0.933503985
## sclient	-1.072981e+00	-1.6185551882	-1.670665026	1.542029381
## piece	2.396196e-01	-0.0574846007	-1.474944234	-0.957732141
## dictkey	3.703945e-01	-0.1492427289	0.257805109	0.848579347
## stringformat	8.102200e-01	-1.1988408566	0.315852523	1.401017904
## normals	-1.501257e+00	0.8294999599	0.033280451	1.158605576
## poisson	-4.918118e-02	-1.5171798468	0.897540748	0.211781844
## memsql	1.173107e-02	1.5596992970	0.966167510	-0.663798571
## googlepythonapi	-4.516913e-01	-0.0652210265	-0.740747333	-0.185832903
## unclickable	1.311911e-01	0.1288550943	-1.189875007	-1.203326941
## supress	3.912836e-01	1.4318914413	0.545626342	0.249614134
## transferfunction	-2.327174e-01	0.2028605938	0.454271466	-0.351027906
## id	1.943984e+00	1.5169134140	-0.239249676	-0.684350073
## cqlengine	-1.326498e-01	-0.0676389188	-1.581499100	-0.845882595
## succeeds	2.627088e-01	-1.0413873196	1.557285309	-1.538305044
## developers	9.104742e-01	-0.7091701627	0.114140488	1.328896999
## inspectelement	-1.256455e+00	0.2727523744	-1.595819592	-1.277389884
## avarage	1.486654e+00	-1.3552346230	-1.035497427	0.730726123
## httpcookie	-1.602184e+00	1.2158607244	0.975840807	-1.742556453
## windowsex	1.059478e+00	0.2078908980	-0.382181644	0.028182028
## track	-5.112621e-01	-1.5126683712	-1.022517562	0.111065939
## exercise	-1.372121e+00	1.4350621700	0.938597083	-0.332653433
## scrabble	-6.161250e-01	1.2085479498	0.545102179	1.220416903
## ipythonjupyter	2.455772e-02	0.0783446282	-0.133211762	1.830065489
## mkdir	3.559771e-01	0.7150205970	1.654999614	0.735936940
## comparing	1.415969e+00	0.3678738773	0.428241283	0.040348187
## anticaptcha	1.278229e+00	-0.8202327490	-1.715506673	-0.835512221
## ifconfig	5.963402e-01	1.1839715242	0.345880896	-0.744124115
## rpg	-7.077039e-01	1.3103671074	0.183976620	1.164135933
## rich	1.226656e+00	1.2287515402	1.244076490	1.181272030
## autoincrement	1.178354e+00	1.4901671410	-1.617823720	-1.474678874
## netsh	5.155736e-01	1.0819382668	0.644615471	-0.397496134
## finding	3.858826e-02	-0.5649958253	-1.100532532	1.153456450
## texttable	-1.192492e+00	0.8384442329	1.295711994	-0.250560790
## vmwareworkstation	6.837233e-01	0.0001742319	-0.452190727	0.415731668
## regularlanguage	5.142205e-02	-1.4483278990	-1.384829998	0.392387211
## spoofing	1.382003e+00	-0.4630796909	0.216427222	0.395158052
## palette	-9.974169e-01	0.1343133748	0.709576964	0.826860726
## suitable	-1.553339e-01	0.8387002945	-1.610596776	-0.836670637
## gil	-1.187605e+00	-1.6797398329	-0.147159517	-0.119941957
## headerquot	-1.589350e+00	0.6104015708	-0.370054930	1.236762285
## execute	-4.950750e-01	0.7814216018	1.555218697	1.597877622
## lightfm	9.271121e-01	-0.2613267601	-1.218547583	-0.089569114
## folium	-1.161396e+00	0.9316335917	-1.197531819	0.352433175
## daskdelayed	1.787232e-01	-0.9153188467	-1.269673347	1.074006319
## ntlm	5.267723e-01	0.1557999998	-0.395466387	0.093849249
## hovertools	-3.913169e-01	0.3703021705	1.617584348	-1.627897739
## rasterizing	-1.962137e-01	0.2004053593	1.193932772	0.328848243
## sendkeys	6.931516e-01	-1.3398560286	-0.077781469	1.364953876
## statsforecast	1.309033e+00	-0.0642858297	0.063500427	0.559100270
## serialexception	-7.310466e-01	-0.6232479811	-0.530692101	-1.368083119
## thanks	-5.084856e-01	-0.9708365202	-1.083751798	-0.367647767
## listview	-1.757764e+00	-1.1084607840	0.338253587	0.081049897
## maturity	-8.371677e-02	1.2823486328	-1.312374592	0.214586705
## pythonsocialauth	-8.460714e-01	-1.5281763077	0.656267405	-0.345753133
## randomchoice	4.839498e-02	-0.0665718019	1.219359875	1.631935000
## systematically	-7.440520e-01	-0.4804171324	-0.626252353	1.601093411
## compilerconstruction	-9.522976e-01	1.2761708498	-0.415672421	-0.195166007
## directed	8.235112e-01	0.9894829988	-1.192214966	0.257210970
## ordinals	-9.013588e-01	-1.7168049812	0.116521165	1.633152962
## projection	1.555883e+00	-0.2736061215	-1.538902402	-1.268582344
## assignmentoperator	-4.042712e-01	-0.2556158900	0.248906195	-0.384833038
## mpeg	2.747000e-02	-0.2732937336	-0.705868125	0.464937627
## serviceaccount	-6.105440e-01	1.4199832678	-1.141188145	-1.519264936
## knowledgegraph	-1.067017e+00	0.6338481903	0.937633276	-1.471196771
## generatorexpression	-1.461341e+00	1.1770896912	1.671845913	1.548825502
## experiencing	1.242019e+00	-1.8155280352	-0.292800099	0.239868060
## tokenise	-1.529438e+00	-0.7965769768	0.944138288	-0.559391558
## readcsv	-7.529522e-01	-0.0177945141	-0.139945790	-1.349281907
## managerdict	-1.134541e+00	1.2909053564	-1.517374039	-0.434360802
## cleardb	-8.399434e-01	-0.8560194969	-0.234070435	0.249965981
## qtmultimedia	8.423484e-01	1.1047385931	1.200507760	-1.261131883
## executescript	-1.360070e+00	1.2691602707	1.199022889	-0.833327591
## fluid	-9.682326e-01	0.0100791501	-1.209527135	-1.088152170
## flag	-3.198993e-01	1.4876480103	0.011803696	1.248395324
## pssh	-1.487651e+00	0.9690030217	-1.324542165	1.455935121
## fitness	-8.869795e-01	-0.1518760920	-0.968310595	0.486990273
## pascal	-4.126189e-01	1.6339166164	0.070499457	0.387873799
## idlepython	8.739036e-01	0.5426160693	0.467711329	1.449415684
## cloned	-6.723114e-01	-1.0962953568	-1.514076233	1.642967343

## neg	4.734434e-01	-0.9027639031	-1.615227818	1.212034345
## excelformula	-3.421949e-01	-0.0312168077	-0.401676446	1.494635820
## expr	-1.565756e+00	1.6366199255	-0.777691841	-1.226740599
## quotconnection	7.651812e-02	-0.4490308166	1.403815985	-1.200918436
## sqlites	1.495421e+00	0.3129137754	-1.276404262	0.971598089
## apachenifi	-6.969292e-02	0.6877458096	0.048616208	0.706170857
## celerybeat	1.019578e+00	-0.9477980733	1.297049642	1.472909808
## relaxation	-2.728970e-01	-0.0715382770	0.583365202	-0.868084192
## difficult	1.373441e+00	1.1527417898	-0.665564656	0.088784851
## userprofile	-1.496237e+00	0.9241460562	0.076044530	-0.659673572
## latlng	-1.244565e+00	0.6946880221	-1.369710922	0.904819906
## plyer	-9.785864e-01	-1.2220751047	0.235004500	-0.121083364
##.djangoregistration	1.285364e+00	-0.2493446022	-0.240673557	-0.042423692
## googlechromeextension	-1.868886e+00	-1.1113783121	-1.814007163	-0.668159544
## incrementdecrement	-5.937616e-01	-0.9658763409	0.197867051	1.040055394
## user	-1.478767e+00	0.1644031107	1.812735081	0.468366235
## quotdatequot	-1.075924e+00	1.0319330692	-1.507140636	-0.578368425
## signalsslots	-1.804954e+00	-0.7315200567	0.934736013	0.413548768
## inject	6.391566e-01	-1.1084355116	0.028565215	1.516905427
## inferior	-5.256885e-01	-0.9723005891	-0.915175319	0.787807345
## objectrecognition	4.933849e-01	0.9573076963	-1.467001796	-0.567224026
## hiddenmarkovmodels	1.228013e+00	-0.1924545169	-1.144151449	-1.692371964
## nestled	-4.520237e-01	1.6045708656	0.429155052	1.591471553
## processed	1.749303e+00	-0.2947913706	-1.074921489	1.099425912
## trojan	1.322574e+00	-0.6721885204	1.019823432	-0.262766093
## commontableexpression	-1.221129e+00	-0.6488361359	1.056273580	-1.219154716
## york	1.665590e+00	-0.2316629291	-0.591586351	0.264567226
## teamviewer	4.843558e-01	-1.5896099806	0.884199262	-0.744736135
## adhoc	1.501069e+00	-1.3576924801	0.579161704	1.470361114
## store	-1.458173e+00	1.2524567842	-0.443011284	1.030782819
## rediscli	1.678101e+00	0.0045351633	0.582149088	-1.392367840
## sine	1.180335e-01	-0.1907002032	1.278394699	0.042580627
## multitple	4.876587e-01	-1.3944160938	-0.712592423	1.361467719
## undo	-1.644247e-01	0.9496973753	0.045919985	-0.626681030
## autoconf	-1.007879e+00	0.9033353329	-1.028624415	-0.787916899
## lxmlemtree	6.960931e-01	-1.4256672859	-1.105087399	-1.479571819
## sar	-1.957936e-01	-1.3557257652	-0.676701963	-0.139152274
## absent	1.495620e+00	1.3290194273	-0.050872080	-0.171576962
## rookie	9.968213e-01	-0.4409183264	0.735368669	-1.069611549
## garbled	-3.699020e-01	-0.0228894558	1.369658470	-0.195941493
## rpyc	-1.989667e-01	-1.6873223782	1.350384593	0.827538073
## buckets	1.482309e+00	-0.0596980192	0.122446135	-0.834010780
## encrypted	-5.048113e-01	-0.6285946965	0.195407599	-1.618296027
## deallocate	-9.058849e-01	1.3189796209	0.478165448	-0.167128533
## qstandarditemmodel	1.183500e+00	-1.1666702032	0.667778373	-0.762551963
## newline	-9.796191e-01	0.0392921641	-1.445690274	1.317597628
## changelog	-1.677995e+00	0.4955375791	0.336135179	-1.812249541
## qfiledialog	1.169178e+00	1.1177073717	1.408868790	0.175135389
## partitioning	-1.388816e-01	-0.0196437370	-1.234902501	1.087248802
## armv	7.056020e-01	-1.4339371920	1.320308089	-1.561704755
## standardscaler	-1.296190e+00	1.2542500496	0.987664461	-0.080676973
## pythonbeautifulsoup	-1.311805e+00	-1.1318572760	-1.617223382	-0.550650835
## refactoring	-1.596476e+00	-1.3533322811	-1.472957015	-0.663905501
## superclasses	8.432533e-01	0.4646704197	0.263729781	-0.515860796
## predecessor	-1.046280e+00	-0.9936521053	-1.467165947	1.383263707
## ltgt	-1.151957e+00	1.0969288349	1.264957190	-0.888514876
## sequential	3.355240e-01	-1.4362070560	-1.200301290	1.139292836
## module	1.106708e+00	1.4713418484	0.014207444	0.336144894
## configurationfiles	1.493619e-01	1.4626880884	0.372350901	1.097997427
## ultimately	-6.843193e-01	-1.2476937771	0.170625150	0.025539432
## uisng	6.893318e-01	1.5238360167	-1.478263378	0.668087006
## byquot	-9.115419e-01	-1.4978253841	1.281539917	1.578198671
## cpuarchitecture	1.580337e+00	0.3915208578	-0.920497954	-1.208550096
## deltars	3.035343e-01	-0.6726265550	-0.786728919	-0.763408363
## knowing	-1.380710e+00	-1.5025531054	-0.842641234	1.395837188
## hacking	1.453199e+00	0.1054250225	-1.492408156	0.237253129
## imgkit	-9.161265e-01	-1.5053702593	0.407961488	-1.383203387
## ramp	5.560659e-01	1.1216613054	-1.549453378	-1.214447975
## lat	-1.404108e+00	0.8847472668	1.606614351	1.025025845
## natural	9.421923e-01	0.6595040560	-0.932658315	0.271250546
## screenbrightness	2.052692e-01	0.0279240031	0.492719084	1.031659722
## dplot	1.586909e+00	-0.0989953578	0.530607164	1.514797211
## scissor	1.501709e+00	0.4041682184	-1.043797970	-1.450424075
## lemmatize	-4.402864e-01	-0.8898247480	-0.535484374	1.426049232
## windowsfirewall	2.201428e-01	-1.3350863457	-0.274977177	-1.344509244
## pops	-5.700305e-01	1.2240198851	-1.474762678	-1.340567708
## quotexceptquot	2.704208e-01	-0.1504338235	-1.099436641	-1.871430755
## fa	1.259179e+00	-1.2737177610	0.361094415	0.163783997
## googleclouddlp	2.352231e-01	0.4285422564	1.321111560	-0.325352609
## jax	1.390393e+00	-1.4056754112	-1.629929900	-0.725266278
## jboss	-1.673906e+00	-0.9736259580	-0.070913985	0.729926288
## voicerecognition	1.765321e-01	0.6850885749	-0.140777618	-0.776613712
## splitting	-1.568663e+00	-0.3557950258	1.640305161	-0.322514683
## numberquot	-1.395829e+00	-0.5209757090	0.861107886	0.416502655
## methodsignature	-5.741817e-01	0.4963743091	1.229734659	-0.785530806



## sourced	-5.605912e-02	0.6760405898	-0.487595171	1.358572483
## ljust	-9.316068e-01	-0.9662277699	1.351252913	-0.134197086
## linux	1.329144e+00	-1.2808752060	1.103125811	-0.187818050
## pythonalpine	5.648063e-01	1.0018930435	-1.527419090	-0.231875107
## vscode remote	7.657570e-01	0.9492964149	0.633240283	-1.305453300
## pythonfractions	1.663571e+00	-1.5661830902	0.009603253	1.390047908
## mapquest	-1.107668e+00	1.4364229441	-1.570479155	1.261504650
## questdb	1.296835e+00	-1.5002623796	0.073004641	-1.260845304
## dnsresolver	1.018658e+00	-1.0335303545	1.119161963	1.066505075
## meanshift	3.194075e-01	1.2460349798	-1.248830557	0.867645144
## sports	5.262206e-01	0.2244811207	-1.263608932	0.172967568
## itertools	-1.048424e+00	-1.3052979708	0.444534600	-1.037132740
## hybrid	-7.793463e-01	1.2249614000	-1.523754120	-1.644883275
## offloading	-1.107199e+00	-0.9135501981	0.288812906	1.342800379
## dashdb	9.062367e-01	-1.5725121498	-0.565495610	-0.684247494
## ansicolors	1.662123e+00	0.6654967666	-1.028623343	1.516668558
## observe	-1.620512e+00	-0.6200028658	-0.211171255	0.974191904
## getpost	-1.172639e+00	0.2001822591	-0.145854369	0.423378944
## digitsum	1.550057e+00	-1.4643948078	0.581475377	0.450422347
## faiss	-9.059758e-01	0.5588844419	0.248559743	0.558262169
## clexe	1.322710e+00	0.0378382020	0.539347410	-0.328097701
##	X25	X26	X27	X28
## ltrgt	1.326266527	-0.8293788433	0.332437992	1.18630874
## expose	0.522901833	0.9740210176	-0.712052345	1.60710204
## socketaccept	-0.268914640	0.6595348716	-0.753704190	-0.24432173
## methoddescriptor	-0.774959087	0.4663389921	0.843122602	1.52162433
## mud	1.403112173	0.6829330325	-0.059979588	1.09882319
## proper	-0.159520060	0.1688320637	-1.266452789	-0.41145721
## belonging	-0.547871947	-1.6889784336	1.600592732	0.86777717
## dosnt	0.647555649	1.4185321331	-0.479540914	-0.14115852
## wrongversionnumber	0.948940635	-1.5933028460	-1.162353516	-0.51819211
## transformer	1.208892345	-1.0510137081	-1.505036592	-1.11234510
## pyrunstring	0.670082808	0.9439463019	-0.596562564	-0.86506808
## sanitizer	-1.096321940	1.3695262671	0.362978965	0.17321779
## ole	0.241870850	1.1283979416	0.969486773	0.74411303
## render	-0.497265220	-0.8455811143	-1.415374279	0.95768970
## daskdataframe	1.420257330	0.1458235681	0.404374927	-0.05667334
## sclient	-0.543641150	-0.7239108086	-1.478762627	-0.24477261
## piece	0.815362811	-1.5776602030	-0.473214328	-0.08777409
## dictkey	-0.876789868	-1.4560810328	0.747651398	-0.72720170
## stringformat	-1.041518211	-1.3343269825	1.151758909	1.01738310
## normals	-1.633455634	0.7294530869	-0.062359851	-1.32575572
## poisson	1.199491262	-1.3453959227	1.624482393	-0.69066578
## memsql	0.276750892	1.7112162113	0.153930768	0.79372591
## googlepythonapi	0.520207882	-1.2290583849	1.130854964	-1.02637374
## unclickable	-0.056130391	-1.5885744095	-0.061627086	-0.13815302
## supress	0.170359105	-0.8432281613	0.616858661	-0.70328468
## transferfunction	0.770198822	1.7265771627	-1.515834212	-0.69352752
## id	-0.403419286	0.0161098652	1.366302609	-0.44328925
## cqlengine	1.185165167	-1.1392314434	-1.499224305	0.56827295
## succeeds	-0.066282533	1.5826017857	0.515436530	0.77914464
## developers	1.143918872	-0.2192049325	-0.540036142	0.33032572
## inspectelement	0.558220208	0.9172906280	-0.263178408	1.26094306
## avarage	-0.619382322	-1.5185887814	0.381686181	1.04710662
## httpcookie	-0.382065743	1.0935777426	1.132888436	-0.29559240
## windowsx	1.508061290	0.7645654082	-1.525030255	-0.46857792
## track	1.409788609	1.2008943558	0.393206596	1.13724351
## exercise	0.184283569	0.3201564550	1.417190552	0.77296680
## scrabble	-0.652505994	0.3241451681	1.473327875	0.80895054
## ipythonjupyter	-0.955479383	0.4578516781	1.740002990	0.70867622
## mkdir	-0.074251913	1.4634569883	-1.486720800	0.63807118
## comparing	-0.604123533	1.1233721972	0.836932778	-1.21013677
## anticaptcha	-1.333437085	-0.3889478743	0.217412904	-1.49560404
## ifconfig	1.439969778	-1.6119619608	-1.496122122	1.42234433
## rpg	-1.105850697	-0.5876404643	-0.283323705	-1.61573231
## rich	0.102578066	-0.0523788594	0.527680218	0.38027483
## autoincrement	0.638026536	1.4411748648	-0.876437485	-1.36982071
## netsh	0.4119971108	-0.2555010915	0.136709407	0.30378294
## finding	0.865899861	1.4770734310	-1.075173974	1.30033410
## texttable	-1.266545773	1.5832427740	0.255508721	1.40435481
## vmwareworkstation	0.719641149	0.6679646969	0.276885867	-0.47601569
## regularlanguage	-0.455258369	-0.4194725454	-1.559813738	1.14041615
## spoofing	-0.711680710	-1.5017007589	-1.440276027	-0.81618184
## palette	-0.625326097	-1.9077755213	-0.338254750	0.98161501
## suitable	0.033631090	0.5219556689	1.475341082	-1.02343225
## gil	1.090677142	-0.0928956047	1.305833220	-0.90279734
## headerquot	-1.465822577	-0.1707352251	0.307856768	-0.14376363
## excecute	0.683317900	1.2486914396	1.465440512	-0.28374326
## lightfm	1.620604396	1.1321998835	1.407317162	0.60482442
## folium	-0.883987904	-0.1567423940	-0.664744735	-0.35028666
## daskdelayed	-0.056822773	-0.2515729368	-1.312651038	1.46656728
## ntlm	0.457113802	0.6445143223	0.330118984	-0.63999969
## hovertool	-0.587041676	0.4783184826	0.964028656	-0.67730761
## rasterizing	0.980180502	1.1796679497	0.815158665	-0.74401075
## sendkeys	0.366861016	0.6904516816	1.494340181	1.53313398

## statsforecast	-0.249165609	1.5056105852	1.063579679	-1.39899552
## serialexception	1.713435888	0.0968872309	0.872404218	1.48593116
## thanks	0.615845144	1.4714009762	1.215125203	-0.41482562
## listview	0.757732868	-0.5673751235	1.041235924	0.13629451
## maturity	0.827621758	0.6342271566	-1.112041473	-1.42748034
## pythonsocialauth	0.936665595	1.2146317959	-1.560906053	0.16095175
## randomchoice	-1.689199805	1.4191854000	1.574284196	0.61104584
## systematically	1.020093799	-0.6058404446	0.698727310	-0.81281239
## compilerconstruction	1.057153940	0.8208089471	-0.011721763	-1.76692915
## directed	1.601148963	0.3819341660	-1.372042298	-1.01422918
## ordinals	-1.133988500	-0.1155851781	0.136418641	-0.56486905
## projection	0.495206267	-0.7773605585	-0.954866707	0.90718842
## assignmentoperator	-1.036440015	-1.4934713840	-1.594188571	-0.71484423
## mpeg	0.198249847	1.2008965015	1.725493312	-1.05260515
## serviceaccount	1.078307629	-0.2637788057	1.207176208	1.27029407
## knowledgegraph	1.267573357	-0.8423055410	0.012679380	0.14587227
## generatorexpression	-0.128114596	1.6166864634	-0.255543351	-1.61516213
## experiencing	0.004120819	-0.2674323022	1.810920358	0.04088912
## tokenise	1.550338149	0.3978811204	1.409934759	1.48503482
## readcsv	-1.460795760	-1.5950205326	1.616534233	-1.36146641
## managerdict	1.454652786	-0.0546241142	1.236382246	-0.90712422
## cleardb	1.141007185	-0.7705608010	0.151712656	1.47951794
## qtmultimedia	1.211352706	-1.7212730646	1.100216031	-1.44113159
## executescript	0.256365359	-0.2095929831	1.213268518	-0.15486872
## fluid	-0.409883052	0.3291896880	-0.221283183	-0.40530610
## flag	-0.532510877	-1.6713447571	0.623588502	-1.27300107
## pssh	-0.098228455	-1.0010670424	0.141313821	1.05124223
## fitness	1.445436120	-0.4673374295	1.107328176	0.74729031
## pascal	0.097884864	-1.3402228355	0.825337589	0.85562670
## idlepython	1.451356411	-0.4479140043	-0.563271344	-1.62996995
## cloned	-0.950689554	1.6670609713	-1.618982553	-1.32240474
## neg	-1.116520643	0.9626103044	-0.830824971	0.03417738
## excelformula	-0.185283571	1.4459784031	-0.631386399	1.47431207
## expr	1.245054126	-1.6771949530	0.277815610	0.96331203
## quotconnection	-1.430091143	1.3885380030	-0.932184458	-0.55777520
## sqllites	1.488105059	1.4440842867	0.647746146	-1.55742490
## apachenifi	-1.131342649	0.1653679311	1.326312065	0.31648031
## celerybeat	-1.667863011	-0.7505578399	-0.437073588	1.51019430
## relaxation	0.176458731	0.9174851179	-0.318944007	0.41721803
## difficult	-0.273299724	1.5666499138	1.311460257	1.48968327
## userprofile	-1.427259445	1.3017170429	0.199018985	-0.24822843
## latlng	-0.574715257	0.6572053432	-0.909080088	-1.36386847
## plyer	-0.489978313	1.2425367832	-0.037847109	1.32201946
##.djangoregistration	0.893593132	0.2397398502	-1.222168684	-1.44417167
## googlechromeextension	1.220595598	-1.3940050602	-0.392431676	0.91518629
## incrementdecrement	1.594632864	-1.0695165396	-1.283044100	-0.06313268
## user	-0.786550343	1.0730009079	0.149857819	0.12471644
## quotdatequot	1.190110326	0.7609705925	-0.958245814	1.26492000
## signalsslots	-1.212172747	0.4145007133	1.333032966	0.62365782
## inject	-1.714559078	-0.2091876715	1.729191780	0.28273377
## inferior	-1.001685977	-0.8819240928	0.415355533	0.85791844
## objectrecognition	0.700259805	1.5389682055	-0.430303693	-0.01018098
## hiddenmarkovmodels	-0.329404831	1.1948040724	-0.795171320	-1.70664537
## nested	1.516850471	0.3200927675	0.588175058	-0.24094397
## processed	-1.841210485	0.4317430258	1.249697685	1.43386245
## trojan	1.842769980	-0.0946346074	0.038149726	-0.30904353
## commontableexpression	-1.545724630	-0.4739131033	-1.512096643	0.23444635
## york	0.490509152	1.3579790592	-0.423567325	0.87620968
## teamviewer	1.133280873	-1.3058531284	1.279653072	-0.07941773
## adhoc	-0.716817200	-0.8767293692	-0.336148500	1.26532602
## store	-1.384111881	0.0002628073	-0.539932430	0.44294292
## rediscli	-0.053872947	0.9896647334	-0.570076108	0.32893452
## sine	1.294464350	-1.7116056681	1.351837635	1.72622049
## mulitple	1.175088048	-1.1072437763	-1.489343166	0.51966029
## undo	-1.567481518	0.9336324334	-1.319185615	-0.89346498
## autoconf	-1.331296325	-1.7180309296	-0.791407466	0.86886740
## lxmletree	0.272214621	-0.6872590780	-0.344420940	-0.01071641
## sar	1.409544230	-1.5370749235	-0.245683387	0.57236373
## absent	-0.156421378	-1.0075204372	-1.684860945	-0.80569500
## rookie	-0.057401031	-0.6808924079	-0.191678867	-1.66847146
## garbled	-0.692223132	0.7700660229	-0.063038580	1.48716545
## rpyc	0.830585599	0.3827484846	-1.250178933	0.36283630
## buckets	-1.415163279	0.7039186954	0.097337365	1.23024452
## encrypted	0.668471932	0.7541574240	-1.557945848	-1.02038288
## deallocate	1.099813581	-0.6284652352	0.967214286	1.50794077
## qstandarditemmodel	1.371208549	0.2827061117	0.592775702	0.77385533
## newline	0.726276755	-0.7335914969	1.240386486	-1.30346847
## changelog	-1.580754638	0.5388415456	1.663191557	-0.15081933
## qfiledialog	0.499169499	-0.4032825530	-0.325598687	-0.03169636
## partitioning	1.024331331	0.7419317961	0.697307110	-0.50474679
## armv	0.952975988	-0.6806310415	-0.746207416	-1.49364722
## standardscaler	-1.125496268	0.9875904918	-1.518129110	1.29605031
## pythonbeautifulsoup	-0.526298642	-0.8961111307	-1.379844666	-0.26608470
## refactoring	0.869461358	1.0107153654	1.260414600	0.40822801
## superclasses	-0.032011285	-1.1334772110	1.503160834	0.30909920

## predecessor	-0.062751509	0.7637138367	1.219097376	1.37657511
## ltgt	0.196366698	-0.0707063675	0.719849527	0.18140736
## sequential	-0.038693484	0.0786414817	-0.587089062	1.63822854
## module	-1.675811768	-1.3912513256	-1.334515214	1.00388551
## configurationfiles	-0.264957696	-1.5697141886	1.640523553	-1.61042011
## ultimately	0.397010088	0.0276775304	1.531748295	1.90238941
## uisng	1.185839295	-1.7491676807	1.078209162	-0.34110048
## byquot	-1.012674093	-1.1671750546	1.480942249	-0.52257603
## cpuarchitecture	0.552783489	-0.3865260780	-1.110603690	1.06155062
## deltar	0.099470079	-0.7420828938	0.534705400	0.28848526
## knowing	-1.132484674	-0.7055286765	-0.350708783	-0.39409935
## hacking	0.716823637	0.8911048770	1.039699554	-0.47366899
## imgkit	-0.285867274	-0.5769864917	-0.004865678	0.07985551
## ramp	0.184701130	1.2178305387	0.303482324	-0.92749453
## lat	-0.517125666	-0.2857755423	1.425651789	-0.10658288
## natural	1.308700681	0.6155298352	1.074081898	-1.29623795
## screenbrightness	0.131672338	1.6033818722	1.384959221	-1.02948987
## dplot	-1.337222457	-0.9799845815	-0.593811929	1.13154888
## scissor	-1.452518940	-0.8667876720	-0.082430087	-1.64475334
## lemmatize	-0.098466344	-0.7144110799	1.551037431	1.51233721
## windowsfirewall	1.386705637	0.6299746037	1.038689137	-1.41201639
## pops	0.571007848	0.5638659596	1.282051563	-0.77060789
## quotexceptquot	-1.245944858	1.4596657753	0.868016422	-1.29491019
## fa	-0.446108729	-1.7531417608	0.425488740	-0.55994332
## googleclouddlp	-0.449246913	0.8946706057	-1.637079597	0.78686869
## jax	1.552252412	-1.5519789457	0.544588149	-1.26576746
## jboss	-1.083679318	0.9031833410	-0.411134452	-0.95529348
## voicerecognition	-0.003202664	0.2625321448	1.691940427	0.48158354
## splitting	-1.239955783	0.4449849427	0.501329064	0.44456145
## numberquot	0.292526364	1.7194970846	1.298042893	-1.32282484
## methodsignature	1.107284307	1.2887777090	0.495253265	-1.40697730
## sourced	-1.709907889	-0.3518075645	0.319390684	0.29167691
## ljust	-0.486203402	0.2694627941	-0.112265125	1.20407319
## linux	-0.323433787	0.7440500259	1.279792309	-0.20025907
## pythonalpine	1.473353028	0.8803726435	-0.615894735	-0.68364018
## vscode	-1.520397305	-0.0760709271	-1.647346497	0.19230705
## pythonfractions	-1.540446758	1.4288685322	-0.891452432	-0.34332076
## mapquest	-1.282931089	0.9591778517	-1.301817894	1.45966303
## questdb	0.018959461	-1.3563331366	-0.090220407	-0.31714967
## dnsresolver	-0.870479941	-0.4594915211	0.694490075	0.35143679
## meanshift	-1.527517080	-1.6499358416	0.894643903	-0.78732944
## sports	1.408523917	0.7287984490	-1.221846342	0.66148627
## itertools	0.779101789	-0.1591500789	-0.338460594	-0.40660802
## hybrid	0.239493385	1.3865331411	0.142455816	-0.25385815
## offloading	1.595696211	-0.2209584117	0.541495204	-0.94685781
## dashdb	0.544708490	-1.3191617727	0.788977742	0.47313675
## ansicolors	1.740203738	-1.4526091814	-0.955200016	-0.25065976
## observe	0.261672765	-1.1668144464	-1.707066417	1.31199014
## getpost	1.179862022	-1.0959084034	1.393565297	-1.37057590
## digitsum	0.199171707	0.5090853572	-0.507143021	1.13671696
## faiss	0.263933033	-0.2718454003	0.791545510	-0.30204350
## clexe	-0.885351598	-0.8799566031	-1.187094331	1.12098706
##	X29	X30	X31	X32
## lttrgt	1.246420145	-0.985334218	-1.479344368	-1.32747650
## expose	-0.435983330	1.425488830	-0.737429917	0.91374809
## socketaccept	-1.299760342	-0.077265486	1.586112738	1.43363285
## methoddescriptor	1.668906808	-1.341914892	0.528743982	-0.84811127
## mud	1.376746774	-1.278794408	-1.440086365	-0.64102089
## proper	-0.764159083	-1.472310424	-0.434569329	-0.66581917
## belonging	-0.336948991	-0.433000743	0.791654468	0.88561547
## dosnt	-1.275966525	0.991225302	-1.339251041	1.31722653
## wrongversionnumber	0.585353374	0.676598847	1.082525015	-1.18952549
## transformer	-1.498041511	0.450823694	0.776958108	1.09760928
## pyrunstring	0.361642838	-1.094255805	-1.568199992	1.33783984
## sanitizer	-0.613342226	-1.553041339	0.557197750	1.46482337
## ole	-0.326490819	-1.055778623	0.940919638	1.07123852
## render	0.228335679	0.361122638	0.570722103	-0.72279918
## daskdataframe	0.956530392	-0.199301049	-0.443875939	-1.08926010
## sclient	0.884955585	-0.803613067	-0.232723713	0.75316352
## piece	-1.148115993	1.108952403	-0.041591685	1.69572914
## dictkey	0.218393862	-1.161719680	-0.833985209	-0.81311393
## stringformat	1.361218333	0.942273438	0.917153001	-1.29586208
## normals	0.492414623	0.553824067	1.405695438	-1.22739756
## poisson	-0.381769985	-0.219215870	-1.652132154	-1.44867790
## memsql	1.057789087	1.308492422	-0.213514313	0.58245009
## googlepythonapi	-1.296409369	-0.605493784	-0.838440418	-0.28520203
## unclickable	0.892759264	1.368005633	-1.015328765	-0.34540638
## supress	-0.009866055	1.593351364	0.393220872	-0.65648574
## transferfunction	-0.946721137	-1.502595663	1.546271324	1.00018466
## id	0.117306970	-0.040734626	0.924394429	-0.80591601
## cqlengine	-0.438100010	-1.354373217	0.902323365	-0.99411887
## succeeds	1.590625167	1.565720201	1.504767776	-1.63309610
## developers	-0.021437675	-0.512071729	1.631363869	-0.66511756
## inspectelement	-1.609478831	-0.223462626	-1.119043827	0.43049192
## avarage	-1.515333891	0.974431932	-0.840293646	0.41093659

## httpcookie	0.525151968	1.202313542	-1.131535769	-0.78864205
## windowsx	0.502581775	-0.645043671	-0.168100253	1.26100922
## track	0.175908729	-0.573950231	1.261055708	1.36007345
## exercise	0.967072546	-0.427921563	0.412888646	1.27190185
## scrabble	-0.413590968	0.332362354	0.803176224	0.74905926
## ipythonjupyter	-0.608485937	-0.311123997	0.904581130	0.61190671
## mkdir	-0.381507784	1.532780647	-0.565302789	1.58435011
## comparing	0.594913840	1.433272243	1.411175013	-0.61827755
## anticaptcha	-1.024292588	0.535768986	-0.635066271	0.16395840
## ifconfig	-1.576647162	1.307908654	-0.973444521	0.28584510
## rpg	-0.697659314	-0.557192385	-1.437711000	-1.60687113
## rich	0.790790856	1.291939735	-0.484736145	-0.74128813
## autoincrement	-0.529109538	-0.683773577	0.420439750	-0.59986693
## netsh	0.261141151	1.302387118	1.339730382	1.14523304
## finding	1.090084314	0.759750664	-0.977184951	0.14485042
## texttable	-0.194223225	0.079396248	0.506247580	0.35723674
## vmwareworkstation	-1.219381094	-0.028531116	0.630317450	1.60155869
## regularlanguage	-0.230758488	-1.740621209	-0.265742093	-0.85931474
## spoofing	-0.738711953	-0.753386497	1.282865286	0.15478390
## palette	-0.402736664	-1.507830381	-0.398853928	-1.36304915
## suitable	0.216066211	0.802843034	-1.561091423	-0.27997485
## gil	0.041067999	-0.271373868	-0.649199843	1.58168387
## headerquot	-1.283740520	0.941039920	0.175980896	0.58472955
## execute	-0.844110250	0.399427474	-0.986341000	-0.06131358
## lightfm	1.429612517	-1.549879432	-1.529412389	0.23551783
## folium	0.359381348	-1.356139660	1.533645868	-1.76095736
## daskdelayed	-0.047401343	-0.017273039	1.313748479	-1.42256522
## ntlm	0.685847878	0.686956704	0.378560543	-0.70538205
## hovertool	-0.389565736	-0.258050650	-1.423289061	-0.92678142
## rasterizing	0.759365618	-1.582468748	1.585561633	-0.17355560
## sendkeys	-1.304423571	-1.018812180	0.796848714	-0.97451365
## statsforecast	0.010307529	1.063648462	0.968082786	1.13693607
## serialexception	-1.456445575	0.616735995	-0.966966867	-1.12336993
## thanks	-1.384787679	0.241717815	-1.140913129	0.94299293
## listview	-1.235895991	-0.843146145	-1.465396166	-1.77136648
## maturity	-1.088074088	0.938010335	-1.130128860	1.54739237
## pythonsocialauth	-0.821654558	-0.458697170	0.002243204	0.73039693
## randomchoice	-1.172155857	0.177093700	0.936427832	1.19445753
## systematically	1.299645662	1.273368597	-1.197220087	-0.87168765
## compilerconstruction	-1.659351468	0.068042547	-0.990112782	0.48383904
## directed	-1.623884797	-1.020017266	-0.292528838	1.42771006
## ordinals	1.355535030	-1.086936474	0.059772264	-1.58046603
## projection	1.571383953	1.365104914	-0.247109875	0.34601244
## assignmentoperator	-1.571151614	-1.231312513	-0.498651028	1.30270433
## mpeg	1.323344231	-0.249528646	1.400586605	1.32787132
## serviceaccount	-1.464739084	0.515937865	-1.323486447	-0.31168801
## knowledgegraph	0.553178251	-1.103582144	1.254566550	1.29182649
## generatorexpression	-0.838982582	0.991340995	-1.494333506	0.33667329
## experiencing	0.301189870	-0.246490031	-0.077763632	0.65606737
## tokenize	0.227485731	-0.094590500	-1.102904439	0.32824132
## readcsv	0.972712159	-1.411474586	-0.828190923	0.83224589
## managerdict	0.974674881	0.266429007	-0.075993523	1.37010157
## clearadb	-0.636134386	1.208979845	-1.355329156	-1.47983837
## qtmultimedia	0.604456544	-0.723328412	0.453249604	-1.17568910
## executescript	1.360598803	-0.422008991	0.716468275	-1.54896343
## fluid	-0.341649443	0.810009003	1.120727539	-0.98240477
## flag	0.121033132	1.151324034	-1.197125793	1.20042396
## pssh	-1.456106901	-0.339064270	-0.441988081	0.94041014
## fitness	-0.847872674	-1.024990797	-0.676069677	-1.47155035
## pascal	-0.647424817	-0.651813328	-1.017082214	1.17206275
## idlpython	-0.811680675	0.743546307	0.735378206	1.68062150
## cloned	0.675717711	1.407258272	-1.100511312	0.22767295
## neg	-0.159262240	-0.709776461	-0.872120678	-0.33658549
## excelformula	-1.457458854	1.047053337	0.167106748	-1.54390526
## expr	1.317430496	-0.717733800	1.162050605	-1.33828115
## quotconnection	-0.248789236	0.254918158	-1.208417177	0.84829205
## sqlites	0.805826068	-0.623321831	1.373455167	0.44936165
## apachenifi	1.687166452	0.060380235	0.866515756	-0.64761949
## celerybeat	-1.295274019	1.316319942	0.543694556	-1.39934266
## relaxation	1.306127548	-1.435145974	0.773935616	-1.74685323
## difficult	1.194103599	1.548455477	-0.401797831	1.28866303
## userprofile	1.124787331	1.582281232	-0.645754099	1.50701535
## latlng	-1.224356890	0.544672430	0.854692578	0.37408516
## plyer	-0.562728703	0.448028862	-0.420258731	-0.14716932
## djangoeregistration	1.090293765	0.448918968	1.007564187	-1.46877670
## googlechromeextension	0.251944661	0.238396615	0.771330953	-0.56080484
## incrementdecrement	0.071836442	0.358144909	0.705646157	1.45732725
## user	0.141123995	0.797508478	0.155879989	0.99288636
## quotdatequot	-0.542408049	-1.129194736	1.089300036	-0.28481016
## signalsslots	-0.562131763	-0.754456580	0.666809916	-0.21237150
## inject	0.905390680	0.957722604	-0.664644182	0.60242045
## inferior	0.568648458	0.086993746	-0.939130723	1.35418439
## objectrecognition	-0.648657739	0.141093537	1.504067540	-1.25033164
## hiddenmarkovmodels	-1.606218457	0.039755885	0.934091508	1.05662882
## nested	1.558381081	-1.019861937	-1.437979937	-0.65235466



## processed	-0.140437379	0.328384846	-1.434067965	-0.75611371
## trojan	-1.681959867	-1.110275626	-1.311830878	-1.72305977
## commontableexpression	-0.331557423	-1.311748862	-1.644246578	1.05373740
## york	1.494108677	0.938992321	-1.563887596	0.44847795
## teamviewer	0.772756934	0.441507638	-1.320727825	1.60249841
## adhoc	-0.219174743	-0.402822882	0.980371535	0.74023640
## store	-0.168509483	0.390800327	1.477039337	-0.37213007
## rediscli	0.304073423	-0.918190837	-0.884635150	0.65572691
## sine	0.151548386	1.418280125	1.539290428	0.40583092
## multuple	1.291250229	1.693992734	0.616926670	0.68958491
## undo	0.236470193	0.304283679	-0.270970404	-1.73865545
## autoconf	0.770522594	0.643128276	0.491703093	-0.37310070
## lxmletree	-0.336261004	-0.049371790	0.126070336	-1.32710159
## sar	0.032260317	-0.004296883	0.815216839	1.33286726
## absent	-1.147502303	-0.394953549	1.512999892	1.14764977
## rookie	1.774076700	-0.596582592	-0.831006348	-1.82515287
## garbled	-1.995785356	-0.210974231	0.954265654	-0.31362289
## rpyc	-0.977072358	-1.348729968	0.522156894	0.38896886
## buckets	-0.386840254	-0.475796849	0.905257463	-1.44408309
## encrypted	-0.578612328	-0.034631122	-0.909427047	0.29569119
## deallocate	0.971057475	-0.879232109	1.303678274	1.32801104
## qstandarditemmodel	-0.194512710	1.627965689	-0.585849524	-1.24272573
## newline	-1.444119334	0.021756615	-1.149653554	1.04249942
## changelog	-0.299649894	-0.255838394	-1.153034687	0.93303365
## qfiledialog	0.006266654	-1.457983494	0.756314337	0.82930642
## partitioning	1.387815118	-1.209770560	-0.256968796	1.11312211
## armv	1.169186831	-0.639965177	-1.156389475	-1.56196558
## standardscaler	-0.825052738	-0.991909444	0.673298895	0.68312567
## pythonbeautifulsoup	-0.897860646	0.900138676	1.030415893	-0.27845141
## refactoring	-1.491318703	0.828251302	-0.306125760	-0.35419068
## superclasses	-1.138262987	-0.253233671	-1.585188508	1.14332736
## predecessor	0.466754556	-0.821483433	0.973544240	1.02737081
## ltgt	-0.768464744	-0.575899124	-1.106131673	-0.93941551
## sequential	-0.031126944	-1.692045808	-0.556216359	-1.47951901
## module	0.586777031	0.536468089	0.922034383	-0.53053260
## configurationfiles	0.190986872	1.051197886	0.326462597	-0.97889274
## ultimately	-1.475976110	0.552004814	0.278200924	0.79592526
## uisng	-1.679970145	0.433374345	0.759620428	1.10976613
## byquot	0.858751595	1.312960505	-1.329119563	-0.11881814
## cpuarchitecture	1.611495972	0.631224632	-0.091890536	-0.15020625
## deltars	-1.326972127	-1.523259163	0.726416528	-1.58555925
## knowing	-1.447773933	-1.264685154	0.521547079	-0.11251138
## hacking	-0.266934037	-1.270558476	-0.195652291	0.73528618
## imgkit	0.497506201	1.584542632	-1.737180948	0.37767029
## ramp	-1.727918506	0.167843387	-0.288130730	0.03342037
## lat	1.580244422	0.872261643	1.587451220	-1.14792836
## natural	0.523826480	-1.072293758	-1.115788221	0.95682734
## screenbrightness	-1.544354916	-0.402918369	-1.039887667	1.64782619
## dplot	-1.285221934	0.142137766	-1.164734364	1.17527795
## scissor	0.223079950	0.618905067	1.103562474	1.34168947
## lemmatize	-1.567864537	0.189551935	-0.550274849	-1.47136009
## windowsfirewall	-1.306165099	0.237030879	-1.321799874	1.46062827
## pops	0.719070613	1.333253741	0.853344083	-1.31600499
## quotexceptquot	1.258938074	1.186113238	-0.505590975	-1.23812222
## fa	-0.511641383	0.925487638	-0.071431801	1.54541922
## googleclouddlp	1.686436772	-0.435599029	-0.806829751	-1.25853431
## jax	0.202806652	-0.336275309	-0.464512348	-0.96389884
## jboss	-1.267075539	0.998543799	-0.885803878	-1.31193519
## voicerecognition	0.879759192	-1.613307714	-0.231158197	0.47006574
## splitting	1.496185780	-0.070435569	-0.449063867	-1.75891829
## numberquot	0.164368212	0.669922113	-1.464514494	0.56064641
## methodsignature	-0.441620857	-0.403454572	-0.985662639	-0.42140326
## sourced	-0.785528600	0.137579024	-0.534826100	-1.20550549
## ljust	-1.030454755	1.056159377	1.188054323	-0.06877180
## linux	-0.476645082	-1.677074432	0.784386098	-1.26032996
## pythonalpine	-1.644210219	-0.921477556	-1.201766491	-0.07584009
## vscode remote	-0.412514389	0.497359127	0.184775338	-0.43853614
## pythonfractions	0.777315259	1.378007889	-0.724102437	0.53631574
## mapquest	-1.004981756	-0.436898738	-0.997466922	-0.78374141
## questdb	1.420503736	1.370881438	-0.845433772	-1.47356474
## dnsresolver	-1.601940274	-1.087296724	-0.857668698	-0.22361639
## meanshift	-1.296576619	-0.689348042	-1.334696293	1.13909733
## sports	-1.242877603	1.497689486	0.324163914	-1.10582113
## itertools	-0.333062500	0.671874523	-0.620429099	0.60282463
## hybrid	1.367216706	-0.623473346	0.450532109	0.76251972
## offloading	-1.505588889	-1.123993635	-1.585293174	0.30519783
## dashdb	0.914731979	0.680187225	-1.407934308	-1.15567946
## ansicolors	0.829398990	-0.313543946	-1.578923821	0.30396751
## observe	-1.508238792	1.735230446	1.366434813	0.53752571
## getpost	-1.161271095	-1.229297757	-0.157434374	0.59957308
## digitsum	-0.549141645	-0.647925317	0.421051592	-1.03345394
## faiss	-0.965128183	0.806569457	-1.016217589	0.54931772
## clexe	-1.042688251	-1.149819613	-0.731779754	-1.19245052
##	X33	X34	X35	X36
## lttrgt	-0.529265940	1.6687444448	-0.70237541	0.360823005

## expose	-1.432065129	0.6242745519	0.35062146	1.427985311
## socketaccept	0.732039392	0.4716818333	-1.03442693	-1.167582035
## methoddescriptor	-1.517747641	1.1529182196	1.32383478	1.560779452
## mud	1.045047522	1.7589989901	-0.35351318	0.800987661
## proper	0.578434706	0.6870776415	1.06494367	-0.120206058
## belonging	0.979825735	0.4480523467	-1.53508568	0.660727322
## dosnt	0.629195631	-1.0984369516	-0.14470635	0.684465766
## wrongversionnumber	-0.247777745	0.8594482541	-1.18995416	1.077768445
## transformer	-1.434916139	-0.4934927225	0.20598119	-0.676432669
## pyrunstring	-0.416543841	-0.3600001335	-0.83357078	-0.708500803
## sanitizer	1.219417214	1.1086990833	-0.35636008	-0.770682991
## ole	-0.253501445	-1.1264829636	-1.50341749	0.592401445
## render	0.392354131	-0.8964602351	-1.31365120	0.973339260
## askdataframe	0.335743695	-0.8648642302	-1.76183403	0.909490943
## sclient	-0.761782229	-0.6258082390	-0.02279566	-1.675075889
## piece	-1.174030542	-1.5752210617	-1.36707544	0.820723593
## dictkey	-1.074810624	0.8942756653	-0.89028352	1.743492484
## stringformat	-0.471161187	1.3228415251	0.09606694	-1.506989360
## normals	-0.068005368	-0.7500778437	1.09943414	-1.509333372
## poisson	-1.277042985	-1.0915668011	1.38494933	-1.179715037
## memsql	-1.640143871	1.5759413242	-0.37913093	-1.602909327
## googlepythonapi	1.772516131	-1.5272129774	-1.21548128	-0.177339718
## unclickable	-1.446066022	-0.1082963124	-0.35249054	0.610156417
## supress	-1.550182939	0.3184481561	-1.04749835	0.917719722
## transferfunction	-0.097723208	-1.2640686035	-1.07718623	-0.302162290
## id	1.259623528	0.8652642369	-0.08955045	1.524144769
## cqlengine	-0.520971179	-0.7415244579	0.28155074	1.013927102
## succeeds	-0.481722802	-1.1499524117	-0.62247026	0.721251190
## developers	-0.832745492	-0.3722683489	1.16690922	1.101613283
## inspectelement	-1.538666964	1.2295441628	0.37317935	-0.142311633
## avarage	-0.112154521	-1.5427631140	1.45004404	-1.062579989
## httpcookie	-0.240097791	-1.7515583038	0.20077352	0.817340434
## windowsx	-0.037464507	0.8392399549	-1.46729732	1.155853629
## track	-1.329640031	-0.3674128652	-1.35903859	-1.117814779
## exercise	-1.343118429	-0.5014437437	1.28970230	-0.156676039
## scrabble	-1.085541964	-1.4747639894	-1.16119683	-1.607253194
## ipythonjupyter	-1.868417263	-1.5534498692	0.43010169	0.087371118
## mkdir	1.159076333	0.2074155360	0.90532881	0.874078929
## comparing	1.129668713	1.4556090832	0.85166830	-0.040337559
## anticaptcha	0.836528242	0.9075990319	1.42808199	0.559437454
## ifconfig	0.222691551	0.6248796582	-1.25332475	1.035539627
## rpg	1.155973792	0.2333158404	0.88852286	0.703102231
## rich	-1.010551691	-1.5820665359	-1.14307618	-0.756667137
## autoincrement	0.817180216	0.8372632861	-0.74889219	-0.027746869
## netsh	1.458466172	1.3785979748	0.51683265	-0.441900462
## finding	0.210003212	-1.2928619385	-0.01277975	0.396400809
## texttable	-0.887147963	-1.2179700136	-0.08964407	-1.339822173
## vmwareworkstation	0.665788889	-0.6647639275	1.61465764	1.351161003
## regularlanguage	0.972433984	1.4145066738	-0.13050719	0.620073080
## spoofing	-1.707700610	-0.6542203426	0.02431282	-0.689687252
## palette	1.035823464	0.6030017734	1.25382602	-1.562012076
## suitable	1.180784345	1.5352292061	0.06673419	-0.452809364
## gil	0.359675378	-1.1199679375	-0.44078293	-1.142130017
## headerquot	0.607981682	0.6063850522	-0.70231855	-1.481953859
## execute	-1.109276772	0.1448688656	-0.53353512	-1.680495143
## lightfm	0.825957656	0.9159961939	1.12397122	1.396515369
## folium	-0.192233890	1.6200757027	-1.17272794	0.440219313
## askdelayed	0.965707660	0.4330704808	1.33044124	-0.533849061
## ntlm	1.632460117	-1.4191628695	0.91797012	1.610422373
## hoverset	0.955202460	1.0757420063	0.84879535	0.782637894
## rasterizing	0.832093358	-1.6461727619	-0.91892940	0.606302321
## sendkeys	-0.318807542	1.2331959009	0.49475116	0.525589347
## statsforecast	-0.798705876	0.4078969359	-1.53468823	-1.406027079
## serialexception	-1.118523598	0.9659354091	-1.65244782	-1.624302268
## thanks	-0.434308529	0.5837493539	1.11452198	-1.345353365
## listview	-1.217512965	0.9744133949	-0.43273655	-0.949404955
## maturity	-0.668396950	1.2714289427	-0.11583400	0.544606149
## pythonsocialauth	-1.456670165	0.7826949954	1.50035965	-0.897964060
## randomchoice	0.912915528	-1.0018916130	-0.56731129	-0.236629546
## systematically	-0.766965628	-0.4895028770	-1.50195765	0.727027714
## compilerconstruction	-0.236484647	-0.2176730484	-1.15590799	0.568253815
## directed	1.199171424	0.8643772602	1.24624908	0.130667374
## ordinals	1.310555816	-1.4186606407	0.61531299	0.879001379
## projection	0.391168892	-0.1449296772	0.49842387	-0.942147374
## assignmentoperator	0.489706129	-1.4816666842	1.45544207	-0.900029302
## mpeg	0.199963018	-0.6823745966	0.87334132	0.635661423
## serviceaccount	-0.095598072	-0.3537420630	0.47458124	-1.283667326
## knowledgegraph	0.438927084	-1.0318098068	-0.95103520	0.763508677
## generatorexpression	0.510403574	0.1343497038	0.55160409	0.294165432
## experiencing	0.567382514	-1.6974633932	1.86319971	0.816216588
## tokenise	-1.210713744	0.0265880991	1.10406482	0.445627481
## readcsv	-0.977470875	-0.3474052250	-0.12287614	0.365207821
## managerdict	-0.416644365	-1.0006455183	-1.66467309	-1.422165275
## cleardb	0.110343859	-1.1869798899	-1.63459599	1.101751328
## qtmultimedia	0.137719497	0.8605613708	-0.54918486	1.209092021

## executescript	0.181042701	-0.9294931293	-1.11195469	1.411758304
## fluid	-0.755095899	-1.1447728872	-0.64026254	0.520126164
## flag	-0.206933632	0.3735506237	-1.03961492	-0.994937658
## pssh	-1.330000639	-0.3331801891	-1.43967021	1.454699039
## fitness	0.180800468	-0.4265975952	-0.84657586	0.794686854
## pascal	-0.050689813	0.2699808478	-1.52794302	-1.410994172
## idlpython	1.266252756	1.5969153643	1.65341496	0.828128397
## cloned	1.171894193	0.1343709081	1.27503455	-0.756983101
## neg	0.213419646	-0.4880782664	0.62827474	0.164406002
## excelformula	-0.513857186	1.0983455181	1.29252076	1.467719674
## expr	-1.215358615	1.0392884016	0.91319680	-0.903571486
## quotconnection	-0.154094219	0.4655591249	0.49112406	1.478492618
## sqlites	0.622519791	1.4626780748	0.79811114	-0.524151325
## apachenifi	-1.040603042	-0.7643040419	1.68509483	1.043091297
## celerybeat	-1.466695547	-0.6973719001	0.19506395	-1.462471128
## relaxation	0.976726294	-0.5298259258	-0.38509437	-1.607375145
## difficult	0.941949844	0.8050027490	0.78117609	-0.165243849
## userprofile	0.093017511	-1.2395958900	0.46206895	0.266283661
## latlng	-1.255053163	-0.5657881498	1.22395241	1.263689637
## plyer	0.402622461	0.2943332791	1.67138767	1.310499072
##.djangoregistration	1.401547790	-0.9895681739	-0.12334113	-1.001156092
## googlechromeextension	-1.194236279	-0.1968073994	0.34818143	-0.332918316
## incrementdecrement	0.416481733	0.8684794903	-1.33972394	0.347778827
## user	-1.633633971	1.7071154118	-1.80970466	0.696787596
## quotdatequot	-0.084886596	0.0366077013	-0.93274987	-1.312455058
## signalslots	0.539323211	0.5462281108	-0.03958164	0.845119953
## inject	-1.337134838	1.2345250845	-1.16477466	-1.035734057
## inferior	-1.089989066	-0.5631897449	-0.70874321	0.031931169
## objectrecognition	-0.040314011	-0.9078742862	1.02324605	-0.562343180
## hiddenmarkovmodels	1.428697467	1.6031020880	0.11400937	0.812461913
## nestled	-0.541886747	-0.5185320973	0.04912005	1.068144679
## processed	0.062734663	-1.6698461771	-0.10738783	-0.321411997
## trojan	-0.590018988	-0.0442667305	-1.08144093	0.360640287
## commontableexpression	-0.957493722	-1.0643520355	0.47720587	-0.406231850
## york	0.066521205	0.4809299111	0.22731598	1.518351436
## teamviewer	-0.758716106	0.7061628103	-0.64963371	-0.869019449
## adhoc	0.693778932	-1.4235601425	-1.52127838	-0.165011883
## store	-0.738344848	0.3454321623	-0.97727841	0.461453080
## rediscli	-0.821046770	-1.2740839720	1.52996886	1.048578024
## sine	-0.108369149	-1.5673557520	-0.81805438	-0.736586392
## mulitple	0.071497835	1.0779255629	-0.03841489	0.646370053
## undo	0.516389012	-1.0848531723	-1.16371071	-0.120082960
## autoconf	0.290231794	0.4128392041	0.57408702	-0.782205403
## lxmletree	0.653515637	0.8109847307	1.60513186	-0.147715017
## sar	0.015686398	0.6660021544	-1.20815980	-0.595549047
## absent	-0.006096733	-0.3998944461	1.65850067	0.189891607
## rookie	-0.752001166	0.0325365551	-1.50771856	0.948906302
## garbled	-1.839453816	-0.0579050556	0.16589387	-1.576062083
## rpyc	0.643625021	0.9750786424	-0.19585480	0.153312013
## buckets	0.231647804	-0.9736089706	0.12188660	-0.768979430
## encrypted	-0.812242866	-0.9588966370	-0.25962386	-1.005092621
## deallocate	1.450619459	1.4947057962	0.21421663	1.509568572
## qstandarditemmodel	-0.428767592	1.2253104448	1.52924359	0.838655174
## newline	-1.437345266	1.2024704218	0.57572341	-0.886907041
## changelog	-1.226722956	0.5303820968	0.68985772	-1.383077383
## qfiledialog	-0.147595942	-1.6156281233	0.17755777	-0.302420259
## partitioning	0.997507870	-0.2995044589	-0.54866713	-0.293071061
## armv	-1.180845976	0.5360234976	-1.08192801	-0.421367675
## standardscaler	-1.446547031	-0.8320814967	1.68966031	0.831960618
## pythonbeautifulsoup	-1.208542466	1.4405936003	0.75844216	-1.552436233
## refactoring	1.076548219	-0.0550860725	-0.09422064	-0.895611465
## superclasses	-1.770390034	-1.8043247461	-1.18096626	0.995697796
## predecessor	0.899599016	1.4743899107	0.50263149	-1.532815814
## ltgt	-0.629673898	0.7131685019	-1.01499844	-1.161671281
## sequential	1.266192555	-0.5814893246	1.44578445	-1.295506239
## module	1.660314202	-0.9643927217	-0.69583309	0.451253951
## configurationfiles	-1.119966865	-1.0429055691	-0.01472841	0.341689438
## ultimately	1.049997330	-1.6241887808	-0.70575124	-0.071425684
## uisng	-0.571963966	0.7222535014	-0.60720414	0.313218325
## byquot	0.279266626	1.3544234037	0.82292300	0.008496038
## cpuarchitecture	-0.148889795	-0.0717498809	-1.03840613	0.432383448
## delvars	-0.666148961	-1.3370726109	0.46334982	-0.766903937
## knowing	-1.216751099	1.2400966883	0.71767724	1.122596741
## hacking	1.519386411	1.0151399374	0.74639356	1.154372334
## imgkit	0.968766749	-0.8668935895	0.47261664	0.267161518
## ramp	0.320043415	0.6764019132	-0.16652566	-0.363235354
## lat	-1.549169540	-1.2170473337	-1.07089400	-1.400880933
## natural	1.717025638	-1.5319766998	-0.69949925	1.205710530
## screenbrightness	0.601598322	-1.6402741671	1.75049710	-0.295990765
## dplot	0.574094832	-1.0804671049	0.40167850	1.299410939
## scissor	-0.596543968	-0.4000844359	-0.41594318	-1.053060174
## lemmatize	-0.994860709	0.5753951073	1.22794628	-1.034599185
## windowsfirewall	0.898327351	1.5071309805	1.45927656	-1.256453872
## pops	0.191396832	-0.5051535368	1.44492877	-0.209825709
## quotexceptquot	1.439653993	0.2126960903	-0.53816175	-0.926472843

## fa	-1.116922021	1.4006810188	1.30654597	-1.303517580
## googlecloudlp	-1.525174856	0.1885160208	0.23731731	0.143720940
## jax	-0.321592063	-1.1577882767	-1.51896131	-1.364512444
## jboss	1.253886223	-1.0553964376	1.50050020	-1.623236179
## voicerecognition	0.590281785	-0.5102394223	-0.12408735	1.566709042
## splitting	-1.086853504	0.0843062252	1.55127537	-0.424805760
## numberquot	-0.286917150	0.8485725522	1.17533672	-0.295273364
## methodsignature	-0.355045199	-0.0766118467	0.67741036	-1.055714846
## sourced	0.323869050	0.0293140300	1.97510540	1.159528971
## ljust	0.271711081	-0.4901372492	1.50651121	1.282076001
## linux	-0.142165408	-1.4876919985	-0.87478113	0.981991470
## pythonalpine	-1.056881189	-1.2039729357	-0.27930188	0.549644291
## vscodeRemote	-1.417545676	-0.3155961037	0.24242891	-1.715396762
## pythonfractions	1.169288635	-0.0173988901	0.27786607	0.579405844
## mapquest	-0.995442748	1.0354005098	1.37346745	0.108330503
## questdb	-0.708120108	-1.5206429958	0.68724370	0.130927190
## dnsresolver	1.192459583	-0.8589298129	0.64794081	1.594719768
## meanshift	0.825384736	0.4275223315	0.30293173	1.041710615
## sports	-1.324920535	0.0474110246	1.60154796	1.222911716
## itertools	-1.008398056	-1.5067439079	0.54124254	0.401960522
## hybrid	0.290921152	1.5426913500	-0.53043765	0.596285343
## offloading	-0.888364196	-0.3168328404	-0.13941105	-0.289794058
## dashdb	-1.024481773	0.0006150069	0.83531106	-1.449993968
## ansicolors	-1.685085773	1.1855756044	1.36047423	-0.707313538
## observe	0.897585809	0.8150681853	0.22683010	-0.718542039
## getpost	-0.918079078	1.5185667276	-1.40319133	0.938509881
## digitsum	1.396471143	-0.3661477268	-1.38865149	1.262828350
## faiss	1.426774025	1.5512440205	0.36760148	-1.443059206
## clexe	-0.798901856	-0.1280927807	-0.81928176	1.155245662
##	X37	X38	X39	X40
## ltrgt	-1.28439665	0.686371863	1.376858e+00	-0.29246962
## expose	1.21531105	-1.855396867	-8.925149e-01	-1.65483367
## socketaccept	-0.17750847	0.029445201	-7.555762e-01	-0.03513026
## methoddescriptor	-1.09631717	1.334393144	-7.428440e-02	0.92626125
## mud	-1.67739356	-1.194099665	-9.667356e-02	-1.49485004
## proper	0.10153047	0.626150668	6.637763e-01	-1.52378130
## belonging	0.25010937	0.179970875	-8.704871e-01	1.29417384
## dosnt	-0.34485814	1.016818285	1.347631e+00	0.42719233
## wrongversionnumber	1.29960668	-0.800059140	1.472925e+00	1.37530935
## transformer	-1.27234519	0.979716539	3.723600e-01	1.31614459
## pyrunstring	1.39934599	-0.810401678	-8.510198e-01	0.16040055
## sanitizer	-0.70521033	1.436757684	3.532035e-01	1.35151291
## ole	-0.59397441	1.620766878	1.351469e+00	0.73119754
## render	1.39150476	1.454530358	1.463146e+00	1.32532394
## daskdataframe	1.12761784	0.018625842	-1.343919e+00	1.60397983
## sclient	0.48133451	0.693857014	-9.848675e-01	-1.26433313
## piece	-0.58189565	-1.071939468	-1.725779e+00	0.49343592
## dictkey	0.06400432	-0.405515432	-1.512658e+00	-1.43472707
## stringformat	0.18136671	0.605963826	-1.524758e+00	1.43360209
## normals	-0.86838961	0.513288438	5.880026e-01	1.39534748
## poisson	0.04988120	0.562340260	6.621742e-01	-0.43431151
## memsql	-0.43645969	-1.437372208	-1.395810e+00	-0.08877532
## googlepythonapi	-0.11398721	-0.824600816	-1.397873e+00	-0.82304704
## unclickable	-0.98060977	-1.355367303	-6.762048e-01	-0.85434598
## supress	-1.55005550	0.936078727	-4.487652e-02	0.39631674
## transferfunction	-1.09336913	0.151260838	-8.625317e-01	1.27800822
## id	-1.47819066	1.310853004	-1.624256e+00	-0.18186155
## cqlengine	0.63189089	0.936229944	-1.379395e+00	1.59528804
## succeeds	0.54333991	0.603481531	1.270710e+00	0.71789426
## developers	-1.60952806	0.238370046	1.048115e+00	1.44563758
## inspectelement	-0.13967472	-1.546778560	9.195921e-01	0.74237698
## avarage	-1.36001956	1.075514913	-5.096366e-01	-0.87246519
## httpcookie	0.90378177	1.189365506	1.304581e+00	0.99719340
## windowsx	-1.58047020	0.007324684	-1.609671e+00	0.51275378
## track	1.59224319	0.727519214	-1.176894e+00	0.12595299
## exercise	-1.16816056	-0.383978873	9.478818e-01	0.24276908
## scrabble	1.39678276	-0.634514332	-6.249343e-01	-1.34891522
## ipythonjupyter	0.54976529	0.122826189	-1.044675e+00	-0.14433601
## makedirs	1.11156762	0.934875906	7.621118e-01	-1.58060169
## comparing	0.28235665	0.945156634	-2.501086e-01	-1.46125686
## anticaptcha	0.09083017	-1.649817467	7.815094e-01	-1.17058051
## ifconfig	0.37050632	-1.115432858	-1.028695e+00	-1.23477697
## rpg	-0.52120399	-0.563318610	-1.221911e+00	-0.61010849
## rich	-0.96890467	-0.177985713	-6.409068e-01	-1.48225760
## autoincrement	-0.35435840	-1.627334714	-1.401908e+00	1.30064821
## netsh	0.19682661	-0.410488188	1.142743e+00	-0.33828765
## finding	0.67244673	-0.471963853	9.554099e-01	0.17113112
## texttable	1.10348117	0.549630761	1.496945e+00	-1.64733398
## vmwareworkstation	-0.30360976	-1.718679070	-1.257321e+00	-1.37949109
## regularlanguage	1.59483957	0.849378884	7.476504e-01	-0.94718921
## spoofing	-1.23992097	-0.436243981	1.442392e+00	0.41684595
## palette	1.44099593	1.165975809	1.279804e+00	0.62520778
## suitable	1.32350957	-0.262643129	4.804249e-01	0.52458709
## gil	1.49478447	1.687271118	1.327769e+00	0.62241614
## headerquot	1.23637795	-0.166014731	1.592944e+00	-0.51512516



## execute	-1.39703083	-0.301196754	-5.356119e-01	0.57561672
## lightfm	1.24413240	0.407079786	3.586729e-01	0.07213093
## folium	-0.56038266	0.523021817	1.528196e+00	1.32764065
## daskdelayed	-0.03533518	1.445394278	1.128672e+00	1.22181058
## ntlm	0.17947941	0.198584408	-3.194975e-01	0.87877667
## hovertool	-0.94440067	-1.157652736	1.825234e+00	1.62874854
## rasterizing	0.16744521	0.223198548	-6.151263e-01	0.72369915
## sendkeys	1.52874529	0.782509863	-5.759938e-01	-1.28672063
## statsforecast	0.15834907	0.142651618	9.780931e-01	-1.23502779
## serialexception	1.16645443	1.398384213	1.144010e+00	-1.63771093
## thanks	-1.41886199	-1.553824902	-9.968160e-01	0.28772137
## listview	-0.25002429	-0.935790718	3.964701e-01	-1.55546629
## maturity	-1.39532220	1.400831103	1.061618e+00	0.43078274
## pythonsocialauth	1.48995411	-1.051449180	-7.340869e-01	-1.00806308
## randomchoice	1.29064405	1.781609297	8.248023e-01	-0.27690268
## systematically	0.93088728	-1.541862130	-1.050084e+00	-0.14783140
## compilerconstruction	-1.76091135	-0.909743726	9.199679e-01	0.86996275
## directed	1.63188636	-1.601287484	-9.981627e-01	0.48967561
## ordinals	-0.47821361	-0.407736033	1.507776e+00	-1.10336375
## projection	0.12590650	0.498224378	1.605461e+00	1.23162687
## assignmentoperator	0.44058302	0.714237094	1.626402e+00	1.30534863
## mpeg	-1.64126706	-0.527702749	-3.739709e-01	-1.17574596
## serviceaccount	1.39093888	-0.975337982	-7.969036e-01	1.20257783
## knowledgegraph	-0.99868470	-0.933012605	6.960877e-01	-1.17041373
## generatorexpression	-0.59012914	1.129372239	-1.650023e-01	0.70714647
## experiencing	-0.25126582	0.933321893	-5.739682e-01	0.09432627
## tokenise	0.14732140	-0.752357841	7.531921e-01	-1.38833189
## readcsv	-1.11561668	-0.830054164	-6.412572e-05	0.53422463
## managerdict	-0.49582598	-0.626045585	4.171149e-01	0.91901433
## cleardb	-0.75893503	-0.616363466	2.479974e-01	-0.87249428
## qtmultimedia	-1.71391344	0.287020594	-5.239547e-02	-0.83077413
## executescrypt	-0.85746121	1.434437156	-1.059958e-01	-0.64347667
## fluid	1.32486689	-1.093859315	-1.226097e+00	0.23997775
## flag	-1.30078542	-0.810272157	-4.851231e-02	1.63435364
## pssh	1.50516593	-0.354081601	-1.043923e+00	-1.53578722
## fitness	-0.82690132	-1.520118952	7.302144e-01	0.43214223
## pascal	-0.85120118	0.150525853	-2.496671e-01	0.92289966
## idlpython	0.85463279	0.551809847	-1.361834e+00	-0.91811788
## cloned	-0.59658915	0.702361941	8.723891e-01	-0.57492214
## neg	-1.07546639	1.736551523	-7.717405e-02	-1.09068704
## excelformula	-1.59368336	0.130131707	6.833094e-01	-1.23856747
## expr	-0.69031477	-0.508654118	1.359250e+00	-0.24381740
## quotconnection	-1.48519647	-1.078379869	1.472049e+00	1.12627637
## sqlites	-1.12264788	1.000332832	-1.573822e+00	-1.47074378
## apachenifi	0.77503878	1.250854969	-1.509529e+00	-0.44224417
## celerybeat	-0.13053560	-0.676562071	1.677839e+00	-1.67990863
## relaxation	1.55088699	-0.935023248	-8.982212e-01	0.19911022
## difficult	1.53119874	0.953537226	9.749451e-01	-0.45249504
## userprofile	1.60921085	-0.204899430	-1.542255e+00	0.25676450
## latlng	0.57223541	0.679619193	-9.138157e-01	1.36133897
## plyer	-0.89010131	0.950628638	-8.500053e-01	0.97843724
##.djangoregistration	-1.30068743	0.371546984	6.695766e-01	-0.90764290
## googlechromeextension	-1.33735931	0.793763459	5.921718e-01	1.09568870
## incrementdecrement	1.43616855	-0.562676013	1.005723e+00	-1.55389369
## user	1.38205755	0.315788448	7.538354e-01	1.73267663
## quotdatequot	-1.19958556	0.371831745	-7.590325e-01	1.58792448
## signalsslots	1.12194896	-1.786126018	-2.319576e-01	-1.30486834
## inject	0.87616503	0.223217502	3.545716e-01	-0.04991519
## inferior	-1.10339606	-0.749782264	-8.087235e-01	0.89902306
## objectrecognition	1.06606638	-1.026721478	1.193660e+00	1.39389467
## hiddenmarkovmodels	1.68659008	-1.100796223	-8.687963e-01	-0.32977167
## nestled	1.49475837	-0.095667779	8.786384e-01	-0.42283988
## processed	1.66405034	-1.322958827	7.930269e-01	1.26504111
## trojan	-1.43541324	0.468792796	-6.380257e-01	1.62164497
## commontableexpression	1.20656478	-0.695290565	-9.378955e-03	0.89057034
## york	-0.19586900	1.572298646	1.676525e+00	1.68866372
## teamviewer	1.56504977	0.081316195	-3.938778e-02	0.75639808
## adhoc	0.55502951	0.975106716	7.615383e-01	-1.56506550
## store	1.69354749	-0.242207110	-2.968699e-01	1.54234254
## rediscli	-0.84838217	0.832213819	-1.753202e+00	1.24479461
## sine	0.59632224	0.886238158	1.104683e+00	1.11533022
## multuple	0.68642306	0.907883763	-5.340216e-02	-0.29310039
## undo	1.49937093	1.203860402	8.082920e-01	-0.74495775
## autoconf	1.01284814	-1.739692807	-1.471738e-01	0.50515574
## lxmletree	-1.50031662	-1.402357459	1.447072e+00	0.99652010
## sar	-1.53084064	1.673155665	5.104927e-01	0.05269034
## absent	-1.11773992	-0.388392061	9.614632e-01	1.00004232
## rookie	-1.32345903	1.433761477	-1.799222e+00	0.56957918
## garbled	1.08653343	1.508454442	1.767438e+00	-1.10958982
## rpyc	1.29871655	-0.139578193	1.458438e+00	0.96813172
## buckets	-0.31078658	-0.962207079	1.573250e+00	-1.43384659
## encrypted	1.42177117	0.216103151	1.722291e+00	-1.62207937
## deallocate	1.17181170	-0.925230980	-7.699696e-01	-1.33823395
## qstandarditemmodel	-0.20997652	1.711110711	1.689729e-02	1.47825110
## newline	-1.25894463	0.996536136	8.026758e-01	0.32360232

## changelog	0.22485958	0.706943691	-5.259379e-01	-0.25905943
## qfiledialog	0.38167921	-0.500747740	1.010766e+00	1.34334219
## partitioning	0.88189846	0.881274939	-4.083243e-01	-0.15978894
## armv	0.01731196	1.480656743	-3.848986e-01	0.26299372
## standardscaler	0.54787797	-0.454915375	1.234168e+00	-1.41940713
## pythonbeautifulsoup	1.62675858	-0.684922278	4.384542e-01	-0.40401378
## refactoring	1.05025518	-0.732058048	-3.658400e-01	0.57108551
## superclasses	-1.32445669	0.184129760	-1.129918e+00	0.02964555
## predecessor	-0.19466195	1.439181924	-3.305019e-01	-0.18667351
## ltgt	-1.65568566	-0.187183589	1.030278e+00	-1.59645951
## sequential	-0.47303057	-0.132918343	-2.709268e-02	-1.10926700
## module	-0.86780798	-0.831685722	-8.663529e-01	1.28784609
## configurationfiles	-1.16020870	-0.584136903	-1.540302e+00	0.71661842
## ultimately	0.55681229	0.543063939	8.219267e-01	0.10434939
## uisng	1.27681124	0.153105631	1.627278e+00	0.50261432
## byquot	-1.38158131	0.463674664	9.855266e-01	-1.35360110
## cpuarchitecture	-0.37381044	0.227542162	1.707596e+00	-0.50828069
## delvars	1.40446866	1.828682303	1.156140e+00	0.11866871
## knowing	0.53094637	-0.146104127	-1.062737e+00	0.49714851
## hacking	1.47155809	-0.998296320	-2.296397e-01	-1.33642328
## imgkit	0.40017256	-1.349033713	7.968042e-01	1.31156921
## ramp	1.40222466	-1.734765053	-4.601956e-03	1.00850487
## lat	1.06008065	0.587166131	1.084651e+00	-0.37442163
## natural	-1.53902876	-1.386089206	1.705070e+00	0.72411346
## screenbrightness	0.30258536	-0.272142261	1.422037e+00	-1.27368915
## dplot	-0.35335812	0.561586082	1.259396e+00	-1.10332060
## scissor	0.61927134	-0.337410569	1.436621e+00	0.64708561
## lemmatize	0.79245353	-1.327163339	1.051859e+00	-1.30261588
## windowsfirewall	0.61232883	0.072155394	1.209710e+00	0.83752471
## pops	0.35213554	0.826556742	4.458627e-01	-0.04966982
## quotexceptquot	-1.51797211	-1.333043575	-6.167490e-01	0.49922085
## fa	-1.22631252	-1.124515414	-9.789024e-02	-1.45658076
## googleclouddlp	-0.72686309	-0.985982895	1.060361e+00	1.68853641
## jax	1.54166889	0.540073335	-1.353321e+00	-0.58899724
## jboss	0.20420779	1.404602885	1.600176e+00	-0.41401848
## voicerecognition	-1.37266481	1.745431542	8.014570e-01	1.65979791
## splitting	-1.71110666	-0.492836058	1.050779e+00	-0.31621459
## numberquot	-1.78549993	1.420949697	1.007462e+00	-0.21446417
## methodsignature	-1.40310347	-1.122374296	-1.129662e+00	1.60775471
## sourced	0.65704560	0.503881335	1.109190e+00	-1.12595522
## ljust	-0.02116349	0.993940651	-1.298213e+00	0.35426757
## linux	-0.55685091	0.936471999	-1.551836e+00	0.52830356
## pythonalpine	1.72902465	0.450142205	-1.339761e-01	-1.54141009
## vscode remote	-0.70441288	-0.079958037	-6.061007e-01	1.34886491
## pythonfractions	0.60820955	0.508185446	1.529565e+00	0.28246856
## mapquest	-1.21792281	0.932891130	1.245677e+00	1.03985572
## questdb	-1.04809558	-0.092877395	1.148545e-01	0.88527739
## dnsresolver	-0.90481806	-1.080003619	5.043327e-01	0.20307866
## meanshift	0.49190041	-0.798013031	-3.510389e-01	-1.50821567
## sports	-1.21120226	-1.384235144	1.134175e+00	-0.40399703
## itertools	1.37174881	0.539131761	-1.522673e+00	1.32205999
## hybrid	-1.34635460	0.676472306	-3.524279e-01	-1.46753240
## offloading	0.21490833	-0.710462153	-7.647739e-01	0.34385437
## dashdb	-1.12916422	1.457568169	-1.551858e+00	0.39541745
## ansicolors	1.07718921	-0.359395713	1.602025e+00	-0.55490190
## observe	0.18738467	0.265931845	-5.016470e-02	-1.25559676
## getpost	1.18018734	-1.494751692	-2.081323e-01	-0.34318417
## digitsum	-0.83043277	-0.789025545	-3.389309e-02	0.75270450
## faiss	-1.17830753	-0.088084295	1.341312e+00	0.37922892
## clexe	-0.49064222	1.026328444	1.443465e+00	-1.25340271
##	X41	X42	X43	X44
## lttrgt	0.844214022	1.25290215	-1.5695497990	-1.578938484
## expose	0.711237729	-0.23859061	1.3120366335	-0.304496467
## socketaccept	-0.036628872	-1.63676286	-0.8384030461	0.510523081
## methoddSCRIPTOR	-1.097224355	-1.26416457	-1.5784202814	0.607962132
## mud	0.452130556	0.48379707	0.2943749726	-0.544405639
## proper	0.469943464	0.77999902	-0.4582105279	-0.078305624
## belonging	-0.984974861	-1.14338291	-0.1498958021	-1.448141098
## dosnt	1.338860750	-1.28878880	0.2739666402	-1.008639812
## wrongversionnumber	0.406140476	1.56213963	-1.5078815222	0.218096793
## transformer	-0.157271087	-0.89036721	-0.5887833238	0.301616549
## pyrunstring	0.957654238	-1.72741282	-1.4097602367	-0.582329154
## sanitizer	-1.231438279	-0.55474073	0.7385310531	-0.225750446
## ole	-0.643075347	-0.14591998	-0.9265409112	-0.137103349
## render	1.366355896	-1.71255887	-0.1543334424	0.380132794
## daskdataframe	-1.608919978	-0.53746271	0.5627264380	0.030017696
## sclient	-0.280469239	1.57208741	0.3571489453	-1.094315886
## piece	-1.190780997	0.62622368	-0.5633119345	-1.228925824
## dictkey	1.305228710	-1.05208015	0.6992571950	-1.046569943
## stringformat	0.294813275	0.10097896	0.7186326981	0.751813650
## normals	-0.311684668	-1.62062323	-0.8140255809	0.019122450
## poisson	0.395483136	1.41037917	-1.0580726862	0.550846994
## memsql	-0.033428416	-0.83406681	1.1692703962	0.357955962
## googlepythonapi	1.015308022	-1.75048411	-0.2753427327	-1.503203630
## unclickable	-0.424145430	-1.58537829	-0.3586307764	0.619195938

## supress	-1.483071804	-0.33239600	-0.7355628610	1.346873164
## transferfunction	0.080094986	-1.76119137	-0.8681666851	-1.107413530
## id	0.875887871	1.58215475	-1.1804074049	-1.062499166
## cqlengine	-1.487760425	-0.96284902	0.6355123520	1.468513370
## succeeds	1.261777282	-1.00950885	-0.4524240792	-1.068615675
## developers	1.176214695	1.72430182	-0.5127689838	-0.505750239
## inspectelement	1.143581033	1.42995584	-1.2659891844	-1.020758510
## avarage	0.375803262	0.91885608	0.9910401106	1.583865047
## httpcookie	0.407889634	0.66638803	-1.1804827452	0.049799569
## windowsx	1.392979741	1.36402750	-1.5838545561	0.149883047
## track	-0.329436511	-0.79673612	1.2707778215	1.502958894
## exercise	-0.282677144	0.46917549	-1.5067123175	1.610985398
## scrabble	1.561939716	-0.47076339	-0.5854223967	-0.857622862
## ipythonjupyter	1.624478102	-0.20346086	-1.1663451195	-0.791860640
## mkdir	0.481135845	0.21562152	-0.0370118208	-0.659063697
## comparing	-1.308809161	-1.21519184	-0.8795048594	-0.621773422
## anticaptcha	-0.991062701	-0.69894350	0.2557705939	0.854275823
## ifconfig	-0.861810446	-0.16575196	-1.1861529350	-0.806986749
## rpg	-0.444737732	-0.43111235	0.2605085969	0.060921967
## rich	1.344515204	-1.50805140	0.7968259454	0.108363338
## autoincrement	1.533049941	0.64593703	-1.1503692865	0.001348209
## netsh	-0.401095599	-0.60658991	-0.9882604480	-0.190722108
## finding	1.295065880	0.60160422	1.4641383886	-1.524566412
## texttable	0.764701366	0.54590505	-1.5989086628	-0.222823188
## vmwareworkstation	-0.122391015	-0.50091273	0.3866021335	-0.509006441
## regularlanguage	1.266518593	0.62200528	-1.0989267826	-0.341133058
## spoofing	0.793974578	-0.60520953	-1.0990816355	1.372237563
## palette	0.086238787	-0.10767388	-1.3856981993	-0.042046778
## suitable	-1.298221111	-1.64910483	1.4782967567	-0.320217311
## gil	1.492199898	0.07261222	0.9007370472	0.954689384
## headerquot	1.046839118	-1.26796627	-0.9106379747	1.417048097
## excecute	0.524755657	0.94540566	-1.2016631365	-1.334612370
## lightfm	-0.935599566	1.41664326	-0.6361396313	-0.371845782
## folium	0.254883051	0.24635705	-0.3513935506	0.949520528
## daskdelayed	1.314007878	1.44941533	-0.6424053311	0.258051455
## ntlm	-0.131452054	-1.81359470	-1.2400801182	-0.326404721
## hovertool	0.222986370	-0.29924962	0.2964175344	-0.955980420
## rasterizing	0.526933372	-0.68868738	1.6038595438	-0.020713801
## sendkeys	0.938366354	0.07525293	-1.0555129051	1.478054881
## statsforecast	1.732344508	-1.49663413	-1.0986937284	-1.159960151
## serialexception	-0.313319683	1.21421683	0.1900154501	-1.160620332
## thanks	-0.563688755	-1.26390636	0.8401198983	-1.095696092
## listview	1.111460209	-0.21700038	-1.8446006775	1.447606206
## maturity	0.159719512	1.42477190	-1.0660065413	-0.137595490
## pythonsocialauth	-1.254629493	0.03567947	0.3472931683	0.432528973
## randomchoice	0.767364502	-0.59008223	0.7553991079	-0.150387138
## systematically	1.030706286	1.09948695	-1.4971985817	1.212763548
## compilerconstruction	-1.761275053	-1.23941302	-0.6483023167	0.415734738
## directed	0.553119004	0.59265220	1.2891960144	-0.180384189
## ordinals	0.797875762	0.68790716	1.0189228058	1.397723436
## projection	-1.493448734	1.39242721	-0.2451888025	1.314677715
## assignmentoperator	-1.461155295	-0.54385507	0.3744890094	-0.996700644
## mpeg	-1.394199491	0.17635572	0.1437876970	1.487364054
## serviceaccount	-0.548756063	0.48589358	-0.7236451507	-1.484230995
## knowledgegraph	-1.028605461	1.37352371	1.4310241938	1.246229172
## generatorexpression	-0.001342421	-1.11256206	-1.3996286392	0.529424727
## experiencing	-0.594652951	0.46999526	-1.8091882467	1.775315404
## tokenise	-0.406782925	0.88501930	1.5131968260	-0.017430900
## readcsv	-0.961198032	1.34833336	-1.1168884039	-0.669357419
## managerdict	-0.328186601	0.51067984	-0.1054691598	-1.134275317
## cleardb	-0.685064435	1.35065055	0.0338957608	-1.569392443
## qtmultimedia	-0.269558102	-1.23106408	0.0001863327	-1.437073469
## executescript	-1.147356987	0.10006863	-0.6444420218	-0.710812211
## fluid	-1.202697277	-0.83235860	0.4019725919	0.606169760
## flag	0.744300544	1.62635386	0.1915992647	0.809454679
## pssh	-1.226841092	0.69576043	1.2942756414	0.096796140
## fitness	-1.182259083	-0.35538030	-1.0715986490	1.339384913
## pascal	1.454128265	-1.61180115	1.2416653633	0.852142811
## idlepython	-0.532348454	1.33696640	0.6981903911	-0.902349114
## cloned	1.375177860	-0.22077654	-0.6662633419	0.852141023
## neg	0.868624389	0.83805603	1.7019658089	1.146795630
## excelformula	-0.877472460	-1.13841105	-1.2806419134	1.228665352
## expr	-0.730802059	-0.82740712	-1.0450925827	0.573405206
## quotconnection	1.572919011	1.11268604	-1.6005985737	-1.202838421
## sqlites	1.272116542	0.87601644	0.6176794767	0.072621733
## apachenifi	-0.370409727	0.69103742	1.3017398119	1.130139470
## celerybeat	-0.217907727	-1.04917526	-0.1644161642	-0.156870246
## relaxation	-1.619326115	-1.20003569	1.1618010998	0.645259798
## difficult	-0.832502484	-0.97631472	-0.1309019178	-0.463470638
## userprofile	-0.027140332	0.72982651	-1.5698268414	0.634093523
## latlng	0.080292612	1.54246902	-1.4371529818	-0.515994310
## plyer	1.199644923	0.42985132	-0.5774277449	-1.199055791
## djangoregistration	1.130949378	-0.70870519	-0.8856772780	-0.844001293
## googlechromeextension	-1.524368048	-0.65567541	1.3826957941	-1.565029860
## incrementdecrement	-0.272440761	-0.14511578	-0.6800761223	0.113923691

## user	-1.406429529	-1.55486655	0.0967039242	-1.476891398
## quotdatequot	-1.514442921	-0.32761586	-0.1934300065	0.846880198
## signalsslots	0.381203890	1.02365088	1.3266780376	-0.424626559
## inject	0.062788114	-1.23262584	-1.4837397337	-0.209306389
## inferior	-1.560738087	-0.18388164	1.0658155680	1.281611562
## objectrecognition	0.679593563	1.59132099	-0.4963806272	-1.180772781
## hiddenmarkovmodels	0.030616269	0.02841264	-0.2873868048	-1.283684850
## nestled	1.100688934	-0.30629778	0.3556176126	-1.568587542
## processed	-1.752571940	0.36568567	-0.0634781048	1.053928614
## trojan	0.542101800	1.65311921	0.9650663733	0.944760680
## commontableexpression	1.202611327	-0.87175930	1.1429880857	-1.143883824
## york	-1.387457728	0.14033230	-1.0295841694	0.477295130
## teamviewer	1.015607476	-1.66655540	1.2118405104	0.824086189
## adhoc	-0.296407968	-0.92406911	0.8350659013	-0.693640232
## store	-0.092625834	-0.07169933	-0.5081089735	-1.579696894
## rediscli	0.350622624	-1.13561308	-1.2719362974	0.901752591
## sine	1.367147923	-0.33052433	-0.8160650730	-1.531394243
## multiple	-0.955725670	1.25264072	-1.5965943336	0.348207742
## undo	1.260166287	1.23357737	-0.5711855888	-1.164960623
## autoconf	0.349012971	-1.59425199	-0.1604582965	-0.344370008
## lxmletree	0.863868415	-1.76716793	-0.9664816856	-1.491165638
## sar	-1.238012910	-0.04570010	0.7542960048	0.798012018
## absent	-1.492066860	0.62007749	0.1882204860	-0.527778685
## rookie	0.885420859	-0.56403643	-1.7073093653	1.763313651
## garbled	0.626406610	-1.06550622	-0.2493605167	-1.460954785
## rpyc	-0.480933279	-0.26310414	-1.1172447205	1.718002796
## buckets	-1.135045767	1.30687904	-1.7661694288	-0.828486621
## encrypted	0.978078425	0.39012355	0.9983395934	-0.522200286
## deallocate	0.227103516	1.15081096	1.4980412722	-1.026300073
## qstandarditemmodel	-0.035300970	0.79788703	0.1142794490	1.388566732
## newline	0.077970326	-0.29464215	-0.9873627424	0.698863566
## changelog	-0.768061459	-1.44733465	-0.1249349266	1.303905368
## qfiledialog	1.699220896	0.90819758	-1.2413460016	0.551589489
## partitioning	-1.605396032	1.00590706	-0.1543017924	-0.992376626
## armv	-1.280500412	-1.34948611	-1.2580341101	0.484153390
## standardscaler	1.172639966	-1.29851639	0.7859811187	1.430834770
## pythonbeautifulsoup	-0.914169729	-1.67659581	1.5686531067	0.033654634
## refactoring	-1.297783852	0.45553562	0.7604928613	-0.224383458
## superclasses	-0.185933053	-0.08764310	0.3288625777	-1.823945761
## predecessor	-0.621152639	-1.43459988	0.5729466677	1.069016218
## ltgt	-0.585690022	-0.39740491	0.7818714380	1.065623045
## sequential	0.301759034	-0.20421021	0.3943695426	-1.737834573
## module	0.788952529	-0.28263250	1.3197814226	-1.147149324
## configurationfiles	0.004842727	0.65854007	0.6887986660	-0.122084305
## ultimately	-1.253975391	-0.67536646	0.0794423446	-0.647202015
## uisng	1.354448676	1.42074549	1.2618747950	0.009547745
## byquot	1.096976757	0.71722144	1.4464155436	0.717135549
## cpuarchitecture	0.065359756	-0.20214576	0.3889262974	0.401750922
## deltars	0.164052963	1.47838068	0.2391593605	-1.507651329
## knowing	-0.511096478	-1.47546923	0.5554561019	0.502502203
## hacking	0.029193863	-1.12773180	1.4569863081	-0.731371105
## imgkit	-0.490926623	-0.38682899	-0.5128107667	-1.411205649
## ramp	-1.230886102	-0.13136269	-0.5119967461	1.688979268
## lat	-0.594412386	-0.84849268	-1.2178994417	-1.291488647
## natural	1.043252230	0.66608274	0.3102511764	-0.363234937
## screenbrightness	0.178559348	1.62732434	1.7572764158	-1.056652427
## dplot	1.636964917	0.66467410	1.4970068932	-0.019057160
## scissor	0.084738635	-0.43725437	-0.2059381008	1.283605099
## lemmatize	-1.124806285	-0.45387217	-0.4587604105	1.306679845
## windowsfirewall	-0.897422850	-0.35676098	1.0035932064	-1.223461747
## pops	-1.423168540	0.78839797	-0.4186924696	0.429510742
## quotexceptquot	1.851283431	1.76005530	0.0896093547	0.972866237
## fa	1.066384435	-0.86818498	0.7237502337	-1.093501925
## googleclouddlp	-0.488262683	-1.64884877	1.6164221764	-1.148079753
## jax	0.404715955	0.02081500	0.1779626608	0.093158670
## jboss	-0.689686179	-1.60018110	-1.5216124058	0.834027588
## voicerecognition	0.324348778	0.85568559	-1.6119092703	0.064793333
## splitting	1.226568103	-0.31574395	0.9269943833	-1.376773000
## numberquot	-1.243573904	-0.24647279	-1.6069409847	-0.666503847
## methodsignature	1.103761196	0.85865909	-0.5143316388	-0.316455990
## sourced	-1.672437906	1.03000379	1.7544140816	0.983496845
## ljust	0.212862387	-0.29819086	-1.1340336800	-0.744842410
## linux	1.464122295	0.48302335	1.1167919636	0.290899217
## pythonalpine	-0.829094589	1.77651083	-1.3562445641	0.649193287
## vscooderemote	0.197647825	0.41240141	1.2998763323	-0.598784149
## pythonfractions	-0.004882299	1.04098165	0.8206792474	-1.365137815
## mapquest	-1.408153892	-0.70877188	0.9295871258	1.556163907
## questdb	0.747930110	0.01901545	-0.6360329390	-1.432555914
## dnsresolver	-1.347745419	1.51968277	1.2890124321	-0.527423978
## meanshift	1.153702974	-0.30623958	0.9715768099	0.330770582
## sports	0.771975935	1.19081354	1.4747889042	0.748077571
## itertools	0.710769713	-0.63353670	-1.0754406452	0.703704536
## hybrid	-0.505633175	-1.61308813	-1.0126368999	-1.436015010
## offloading	1.464531422	-1.26116979	1.1260287762	1.384289265
## dashdb	0.666074336	-1.43554175	-0.2387516946	-0.471345007



## ansicolors	-0.657948256	-0.22155085	0.9263027310	-0.005828288
## observe	0.003993494	0.41074586	1.3878911734	0.714132130
## getpost	0.030898247	0.93818551	-1.3659937382	0.992861450
## digitsum	1.567307591	0.73765498	1.3838167191	-1.572176456
## faiss	1.244816184	-0.53161520	-0.1755079776	1.380779982
## clexe	-1.491636634	-0.40562224	-0.3166001439	1.216410995
##	X45	X46	X47	X48
## ltrgt	-1.189560175	-0.423167855	0.48803458	0.54945385
## expose	-1.121120930	0.233451784	0.83478445	0.22800106
## socketaccept	-1.658089995	-0.903740168	-0.87232673	1.05445457
## methoddSCRIPTOR	0.299119741	-1.220764637	0.33842257	0.23633732
## mud	0.815475821	-1.610048294	0.70796508	0.83872372
## proper	-0.911740303	-0.216694206	-0.25255948	0.81307620
## belonging	-0.332168311	-0.011755645	-0.35490084	0.05689013
## dosnt	0.451844782	-0.147430435	1.34615099	1.41718280
## wrongversionnumber	-0.173750743	1.084663630	-0.14650802	-1.06579638
## transformer	0.783602834	-1.144160986	-1.37274456	1.30843425
## pyrunstring	0.814692676	1.286949635	0.25836250	-1.34693682
## sanitizer	0.649408638	0.009901160	1.33611560	0.69598544
## ole	1.398177266	0.385559112	0.40566641	1.28348124
## render	0.158151388	1.101087928	0.50746077	1.32949781
## daskdataframe	-1.674643636	-0.108986400	-0.83366716	0.70660806
## sclient	-0.523898184	-1.434210181	0.20787330	0.09456574
## piece	0.875146627	1.325203657	1.76773918	0.22993551
## dictkey	0.269889385	-1.538566232	-0.39658743	-0.13796929
## stringformat	-0.762133896	-1.116789460	1.16351914	1.36510515
## normals	-1.545393229	-0.473734528	0.59611768	-1.12693357
## poisson	-0.628922343	1.393314958	-0.71193993	-1.52774525
## memsql	-0.211211964	-0.226586238	1.45371819	-1.21232820
## googlepythonapi	-0.608581066	0.015266365	0.29119027	1.62267065
## unclickable	-0.127766743	-1.582971573	0.96422517	1.17537534
## supress	-0.956242800	0.649236500	1.49989986	-1.37975895
## transferfunction	0.591979980	-1.649208426	0.89249104	1.14759004
## id	-0.780232191	0.484834701	-0.57044339	1.21121550
## cqlengine	-1.042709708	-0.130024478	0.48384479	-0.73111230
## succeeds	1.298981309	0.334125400	1.49087739	0.58291548
## developers	0.700271904	-1.095558643	0.98822898	-1.56148064
## inspectelement	0.077039830	-0.382109493	1.15761685	0.13230626
## avarage	0.960094988	0.053546242	0.02369870	1.52732420
## httpcookie	-1.635079741	-1.456806779	-1.64240611	0.70086473
## windowsx	0.405816406	-1.129871368	0.07452063	1.13126493
## track	1.070646405	-0.030554786	-1.34760916	-1.46750116
## exercise	0.681961477	1.390010834	-0.52128065	-0.91142100
## scrabble	-0.863623500	0.921960652	1.51721704	1.39449632
## ipythonjupyter	1.010831118	0.221711904	-1.35337901	0.25995621
## mkdir	0.001497361	-1.182736397	-1.19714499	1.19449317
## comparing	1.106876850	-0.209412977	0.93211520	-1.01882195
## anticaptcha	-0.643595397	0.571232736	-1.00618684	-0.92887038
## ifconfig	-1.262150645	-1.055886745	0.42799899	-0.86676055
## rpg	-1.513525724	0.655340135	0.01238043	-0.92226344
## rich	-0.722838938	-0.574209154	-0.98981702	-0.64233476
## autoincrement	1.290305495	0.088985279	1.15618682	-0.92339605
## netsh	1.558898211	-0.043768227	0.01724750	0.79811561
## finding	-1.495976925	0.500289798	0.76096594	-1.53329968
## texttable	0.254403383	-0.896497488	-0.77269375	-1.02735889
## vmwareworkstation	-1.284898162	0.942456603	-0.26875386	0.62997031
## regularlanguage	1.117951751	-1.715156317	-1.76018631	1.44700146
## spoofing	0.255760700	-0.406827122	-1.33892703	1.66645956
## palette	-0.311385095	0.553980589	-1.24060428	-1.54667437
## suitable	-1.236835361	0.712905645	0.45674336	-1.01428640
## gil	1.021744609	-0.791771710	-0.96494222	0.89356571
## headerquot	-1.342733026	1.663065553	1.35296893	0.26806936
## excecute	0.942025006	-0.521014750	0.55045360	1.21549952
## lightfm	0.263154298	-1.011993289	0.30604663	1.26351774
## folium	-0.852432251	1.012192130	0.14258318	-1.48297989
## daskdelayed	-0.457241058	-0.890181124	-1.32454240	1.49391091
## ntlm	-1.810432673	0.153810903	0.58465338	0.19223668
## hovertool	0.887614310	-0.106741957	-0.93702126	1.17656481
## rasterizing	-0.625904083	-1.080826163	-0.72469223	1.62253344
## sendkeys	0.808245361	1.006398439	-1.36751509	0.45296216
## statsforecast	0.893789947	-0.184815511	-0.72761708	-0.99597609
## serialexception	1.435219765	1.226242304	-1.66007590	-1.09323001
## thanks	-0.168473959	0.317446589	1.44979513	-1.29400635
## listview	-0.221430242	-0.502435923	0.90352088	1.09012568
## maturity	1.504131556	-0.015609422	-0.28302512	-0.02384785
## pythonsocialauth	0.963929951	-0.252084434	0.25499943	-0.20927572
## randomchoice	0.094998732	0.634456396	0.61321300	-1.26271760
## systematically	-1.404570222	0.915535748	-0.42395952	1.23285675
## compilerconstruction	-0.337572485	1.022444129	-0.99145156	-1.30429435
## directed	-0.403071374	0.614485979	1.33404827	1.07385898
## ordinals	-0.658571184	0.134325713	1.67577457	-0.45640782
## projection	0.017526539	-1.179551125	-0.78136396	0.33605105
## assignmentoperator	1.025224924	0.127020836	1.53059173	1.09363377
## mpeg	-0.076393224	1.020022631	-0.63879168	-0.58560824
## serviceaccount	1.510694027	0.786535144	-0.60210603	-0.64302093

## knowledgegraph	-0.771535337	-1.228022099	0.43735918	1.04208040
## generatorexpression	-0.697519183	-1.056184649	0.44543159	1.37498212
## experiencing	-0.617664218	0.581416786	0.45927268	-0.46626538
## tokenise	-1.343363166	1.156719327	-1.56082439	0.13711597
## readcsv	1.339935660	-1.331299424	-1.37862945	0.42998359
## managerdict	-0.565322459	-1.508220911	-1.08876598	-0.87196267
## cleardb	0.968496263	-1.053798437	0.12522532	-0.93748128
## qtmultimedia	1.094595075	1.147775412	0.02379082	0.96268338
## executescript	0.401112378	0.540226281	1.34369504	-1.40201628
## fluid	1.171787262	0.038283732	1.85647190	0.36838296
## flag	-1.445947170	-0.994637191	-1.51990545	1.46704876
## pssh	-0.256313413	-1.413145304	0.10796285	-1.27781034
## fitness	-0.089298628	0.421192288	0.74697548	1.01976836
## pascal	0.021132905	0.899413407	0.91615564	-1.36258531
## idlpython	-0.397986412	0.281370848	-0.96958423	0.93172055
## cloned	0.162405148	-0.719446123	0.47368589	0.81039959
## neg	1.108231187	0.614411533	-0.30835557	1.28567564
## excelformula	-0.792201281	-0.955069542	-0.07188315	0.01576402
## expr	0.067082331	-0.992777586	-1.07610905	-1.00279236
## quotconnection	-0.715795219	0.016503260	1.02827001	-1.11640620
## sqlites	-1.153290629	-1.456307888	-0.02564794	-0.39097127
## apachenifi	-0.030800458	0.869857371	0.91464263	0.12955850
## celerybeat	-0.564883411	0.430360615	1.59961319	-0.80283552
## relaxation	-1.659188509	1.558539987	-0.10035273	0.82230234
## difficult	0.722941756	0.971500576	-1.17460835	-1.33255839
## userprofile	-0.611809492	-0.269708097	-0.62423450	0.31714681
## latlng	1.354575515	-1.257964373	0.56811291	0.90818906
## plyer	-0.731231451	0.808625638	-0.85793173	-1.18296623
## djangoeregistration	0.610508561	0.807181656	1.47877085	1.11588955
## googlechromeextension	0.349025160	-0.014310251	-1.48808980	-0.99364114
## incrementdecrement	0.596788526	1.521023154	-0.67417729	-1.58068287
## user	0.067479052	-0.543862581	1.23129928	0.91104376
## quotdatequot	-0.865453839	1.488760114	1.16391444	-1.31687105
## signalsslots	1.440860391	1.449633956	1.20608282	1.31022191
## inject	-1.291017652	-0.877149165	0.86530757	-1.16849136
## inferior	0.182821989	1.269274354	1.00622034	-1.46441388
## objectrecognition	-1.306204081	-0.977524579	-0.34982333	-0.73231214
## hiddenmarkovmodels	-0.172566146	0.044522580	-1.55785179	0.85730171
## nestled	-1.625328064	0.970835686	-1.63565803	0.46294495
## processed	1.230815768	-1.019748926	0.07907094	0.12674423
## trojan	0.497293770	-0.727550507	0.43089619	0.38609645
## commontableexpression	-1.287388682	0.039345216	0.10221421	0.67247367
## york	-0.609043777	0.236697376	0.08659410	0.60445142
## teamviewer	1.332893968	1.700886369	1.52223814	1.02874184
## adhoc	0.081971750	-1.298229694	-1.34728825	-1.49440908
## store	0.574553251	-0.735359967	0.10192551	1.47932887
## rediscli	-0.359699935	-0.227882072	-1.45207369	1.32691789
## sine	-1.241245747	1.044182420	-0.24211206	-0.24454984
## mulitple	1.353882313	1.332898021	1.68547583	0.77949607
## undo	-1.138065934	-0.519797266	1.24608672	0.13750739
## autoconf	0.368963182	-1.021484256	0.51472640	-0.93656462
## lxmletree	-1.327321887	1.646023631	0.42239097	-0.98717654
## sar	1.376738906	-1.409509063	1.68280888	-0.83661181
## absent	1.381534100	-0.778234363	1.25316167	0.46850383
## rookie	0.349539399	0.164026186	-0.30966201	0.15910235
## garbled	0.631529868	-1.180390358	-1.50925326	-1.23187757
## rpyc	-1.757638454	-0.268540323	0.71753472	0.60612375
## buckets	-0.672961771	-0.253902465	-0.94564480	-1.11237204
## encrypted	1.719010472	0.665269196	0.48507202	-1.33277798
## deallocate	-1.300041795	0.057393711	-0.84345120	1.29428947
## qstandarditemmodel	1.153287768	1.496962428	0.31609926	-1.41476071
## newline	-0.606198549	-1.524496794	1.48482442	-0.47927448
## changelog	1.128208756	0.675769150	0.37051496	0.05461045
## qfiledialog	0.661216557	-0.813678682	-0.93198389	-0.48685816
## partitioning	1.534037948	-1.444576740	1.35420549	1.57177377
## armv	-0.444298446	1.107051611	1.44067299	-0.53918833
## standardscaler	-0.488455743	-0.210086763	-0.29686683	-0.37608463
## pythonbeautifulsoup	0.736012220	-1.231390834	0.86662889	-0.52308279
## refactoring	0.401526213	-1.257981062	-0.59782553	1.10161340
## superclasses	0.344226182	-1.740161300	0.12920101	-1.11257076
## predecessor	1.060369372	-1.278059840	-0.25886449	-0.90932542
## ltgt	1.484377384	-0.504848123	-1.64156449	1.23506486
## sequential	-0.112476580	-1.015568256	-0.85299873	-0.23395155
## module	-1.166992307	-1.267245173	-1.09198821	0.44533917
## configurationfiles	-0.924795508	1.706565142	1.42434859	1.64361691
## ultimately	1.517299414	-0.854976118	0.72660065	-0.33929235
## uisng	0.977538884	0.028117174	-0.29542735	1.15477610
## byquot	-0.665910602	-1.233182788	0.88742834	0.03845970
## cpuarchitecture	1.183401108	0.827896237	-1.05842793	1.76061678
## deltars	0.443456680	-1.190996885	0.86100727	-0.17331821
## knowing	-0.408103317	-1.412410498	-0.78066075	-0.19658580
## hacking	1.519644022	0.257967502	1.48840141	0.41164953
## imgkit	1.140667796	-1.234204054	-1.35284114	-0.98213863
## ramp	1.094902515	-0.275750846	-0.11829603	-0.40208036
## lat	0.580968499	-0.884133875	0.15293683	-1.10298955

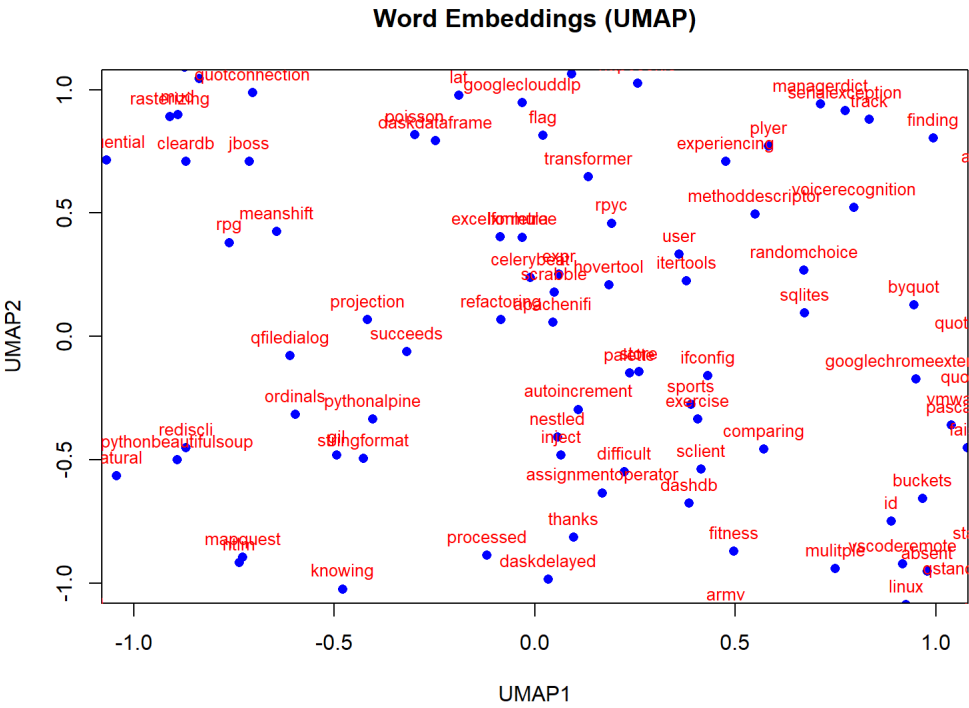
## natural	0.219048560	0.224002689	0.36621007	1.55481470
## screenbrightness	0.330412716	-0.007297884	0.18409564	-0.92256987
## dplot	-0.117108412	-1.541712999	0.67272460	1.00561666
## scissor	-0.301866889	-1.188688278	0.81924677	-1.60167527
## lemmatize	1.215537786	0.553046227	0.34928676	-0.27404568
## windowsfirewall	0.004334925	-1.485643625	-0.78112513	1.50841260
## pops	1.148415208	-0.336068839	1.18555689	1.36751461
## quotexceptquot	0.326441199	1.063831449	0.61786270	-1.02084911
## fa	0.161581978	-1.242282748	-0.28307676	0.39251605
## googlecloudulp	-1.050430655	1.001682162	-0.42453596	-0.34475040
## jax	-0.683902383	-1.517178059	1.19084871	-0.15023886
## jboss	1.684176326	0.896099269	-0.28761426	-0.18191446
## voicerecognition	0.589678288	-1.403525710	-1.22855985	-0.77372646
## splitting	-0.846451044	1.492748141	-1.24414670	-0.48886237
## numberquot	-1.623279095	0.729922295	1.64756489	-1.07504332
## methodsignature	-1.428151727	-0.948850632	0.67719817	1.27632272
## sourced	0.049703181	0.656683803	-0.72560698	-1.38045537
## ljust	-1.557492018	1.130327106	-0.31337255	-0.54383838
## linux	-0.968340993	1.107344508	-1.14258420	1.63236618
## pythonalpine	-1.323614836	0.798150957	-0.87511224	0.27399194
## vscoderemote	1.716910958	-0.225131139	-0.03443834	-0.79444879
## pythonfractions	-1.685824871	-1.062006831	-0.92550343	-0.38284862
## mapquest	1.231825352	0.621558666	-1.10387135	0.09200764
## questdb	-1.105360627	1.144742489	-1.64417231	-1.15083122
## dnsresolver	-1.402896404	0.298074186	-0.27103183	0.56730545
## meanshift	0.163274482	0.410645634	1.62303114	-1.49129534
## sports	0.657615066	0.194428295	-0.57184243	1.47197473
## itertools	0.432624072	0.864782572	-1.58790910	-0.35617271
## hybrid	-1.058877468	-0.302387625	-0.83783293	-1.24483335
## offloading	-0.989663959	0.166543856	-1.20052159	-0.70268762
## dashdb	0.841643751	1.245747447	1.02078056	0.63428056
## ansicolors	-0.652990460	0.480386078	1.02281594	-0.44379970
## observe	0.765939415	0.928240836	0.31170073	-0.30920434
## getpost	-0.959303737	-0.065089233	-1.08255398	1.51041341
## digitsum	-1.594271898	0.442339242	0.29041490	1.54083061
## faiss	-1.366679072	-0.126874626	-0.37156123	-0.41207328
## clexe	-1.538842440	0.020150468	0.60550737	-1.02408552
##	X49	X50		
## lttrgt	1.64040756	-0.166161850		
## expose	-0.50185043	-0.671482027		
## socketaccept	0.78184062	0.285080075		
## methoddSCRIPTOR	0.07962868	1.308489442		
## mud	1.64778304	-0.040022597		
## proper	0.58650100	-1.615690947		
## belonging	0.40050611	-0.196792915		
## dosnt	1.13638425	-0.786134362		
## wrongversionnumber	1.34148180	0.858937085		
## transformer	-1.36707675	0.416595221		
## pyrunstring	0.06782524	-0.005201147		
## sanitizer	-1.53865695	-1.494518280		
## ole	-1.65389800	-0.770882785		
## render	0.11068277	-0.249143288		
## daskdataframe	-0.58482689	-1.217198014		
## sclient	-0.12035105	0.756965101		
## piece	0.59537452	0.413308144		
## dictkey	0.15643471	0.109535597		
## stringformat	0.96203846	0.585360646		
## normals	-0.45066521	-1.411158085		
## poisson	1.70394373	-0.966014087		
## memsql	0.17502965	1.424419284		
## googlepythonapi	-0.83504045	-0.042335860		
## unclickable	-0.68133926	-0.610435009		
## supress	1.16007876	0.172348529		
## transferfunction	1.55068851	-1.491584778		
## id	-1.85368907	-1.027099848		
## cqlengine	-1.25049281	-1.231843352		
## succeeds	-1.62623596	0.959411323		
## developers	-0.99810928	-1.591568232		
## inspectelement	-1.04162145	1.022204041		
## avarage	-1.38974810	-0.611492276		
## httpcookie	0.85487330	-1.484169722		
## windowsex	0.16861476	-1.105454922		
## track	0.78433770	-1.559032798		
## exercise	-0.72704720	-1.236282110		
## scrabble	0.51207668	-0.689567327		
## ipythonjupyter	1.10157800	-0.176628873		
## mkdir	1.11868238	1.324024439		
## comparing	-0.62865728	-0.994893193		
## anticaptcha	1.14671302	-0.978617311		
## ifconfig	-1.56717372	0.192012772		
## rpg	-0.36957052	-1.600130916		
## rich	-1.41317856	-1.458555102		
## autoincrement	1.04322660	0.579692662		
## netsh	-0.49136227	1.591154218		
## finding	0.64991784	0.597551763		

## texttable	-0.10615606	0.717534602
## vmwareworkstation	1.67064273	0.404379010
## regularlanguage	0.64513946	1.094817758
## spoofing	1.50722563	1.326135278
## palette	0.21215178	-1.933072567
## suitable	1.28654766	0.786024451
## gil	0.54199332	-1.277284265
## headerquot	-1.70262277	-0.781629324
## execute	1.10757482	1.071742773
## lightfm	1.17296016	1.467865467
## folium	-0.51028383	-0.996661007
## daskdelayed	-1.48862422	-0.490933657
## ntlm	-1.90052366	1.490020275
## hovertool	-1.34104800	0.008679443
## rasterizing	0.65151566	1.008068204
## sendkeys	-0.04113439	1.511607528
## statsforecast	0.21079774	-1.104818583
## serialexception	-0.18378398	-0.753286421
## thanks	1.51421142	1.208058953
## listview	0.74630910	-1.642956138
## maturity	-0.05194772	0.079756729
## pythonsocialauth	-0.03106773	-1.528019905
## randomchoice	1.43071699	1.420907378
## systematically	0.29450756	0.581257820
## compilerconstruction	0.46343502	1.098526835
## directed	0.24684471	0.994203091
## ordinals	-0.43405864	-0.654582918
## projection	-0.42192689	0.752741098
## assignmentoperator	-0.99685407	-1.036568880
## mpeg	-0.77375430	-0.091288708
## serviceaccount	1.16147113	1.509976983
## knowledgegraph	1.01818478	-0.612635195
## generatorexpression	-0.34832263	-0.844481528
## experiencing	0.22023621	1.069307804
## tokenise	1.44985926	0.916721821
## readcsv	-1.82109046	0.715180159
## managerdict	-1.33804142	-0.266627580
## cleardb	-0.59971988	-1.630562067
## qtmultimedia	1.08517480	-0.924908817
## executescrypt	0.62109095	-1.527098179
## fluid	-0.37048832	-1.700835705
## flag	-0.84022254	-1.631576657
## pssh	1.35715294	-0.991614938
## fitness	0.31456208	0.276739627
## pascal	-1.06662655	-1.339667916
## idlepython	1.51938832	-1.024233580
## cloned	0.88367486	0.414793164
## neg	-0.43375966	-1.389468908
## excelformula	1.14955473	-0.972944915
## expr	-1.47659302	0.621493101
## quotconnection	-0.88565904	-1.212463140
## sqlites	-1.16922629	1.285574913
## apachenifi	-1.64121962	-0.260813087
## celerybeat	-1.30249846	0.853720725
## relaxation	0.36907718	-0.024521902
## difficult	-0.80117100	-0.588825583
## userprofile	1.08210599	1.646237373
## latlng	-1.54868627	-0.291029632
## plyer	0.03275444	-0.650679052
##.djangoregistration	1.24437928	-1.009359956
## googlechromeextension	-1.81245208	-0.040616330
## incrementdecrement	1.37559390	1.145794630
## user	0.59418815	-0.716255009
## quotdatequot	-1.07074428	-0.689202547
## signalslots	0.40128261	0.206507891
## inject	-1.06878257	0.004608884
## inferior	-1.33137023	-0.101596467
## objectrecognition	-1.18683946	-1.318191051
## hiddenmarkovmodels	0.80491179	0.406142920
## nestled	-1.56101632	-1.337692976
## processed	-1.44106698	-0.548662901
## trojan	-0.43325064	0.663341403
## commontableexpression	1.47900343	0.919050992
## york	-1.56947243	-1.356299400
## teamviewer	-0.92038864	-0.558949411
## adhoc	-0.54028440	-0.150889918
## store	1.62417161	-1.829111576
## rediscli	0.47225928	-1.500605941
## sine	-1.67451453	-1.017154455
## mulitple	-1.66544390	-0.576652050
## undo	1.34029317	-1.690613031
## autoconf	1.41016340	-0.070968278
## lxmlletree	0.64306116	1.345404863
## sar	1.23238158	-1.627702951
## absent	-0.15293829	1.419087410



## rookie	-1.45845938	1.481530666
## garbled	0.66768765	0.848276913
## rpyc	-1.46526527	1.096764088
## buckets	-0.75021648	1.468821645
## encrypted	1.48390079	1.362107992
## deallocate	-0.64967614	0.741755128
## qstandarditemmodel	-1.81760597	-0.897769511
## newline	-1.52146482	1.310391188
## changelog	-1.81431091	1.822762012
## qfiledialog	1.67447519	-0.767771661
## partitioning	1.15219891	0.998644114
## armv	-0.97209787	0.774494648
## standardscaler	0.02198995	1.521277189
## pythonbeautifulsoup	-0.46487072	0.705803156
## refactoring	-1.00182021	-0.176901489
## superclasses	0.42758664	-1.385091543
## predecessor	1.11923575	1.358852625
## ltgt	1.05628896	0.662893176
## sequential	-0.93206179	0.613371372
## module	0.93528891	-1.410671949
## configurationfiles	0.45804030	0.260753781
## ultimately	0.04307108	0.476832688
## uisng	0.62788278	-0.455062538
## byquot	-0.48181126	-1.527821422
## cpuarchitecture	-1.45103967	-1.092700601
## deltars	1.19687486	-0.008672883
## knowing	-1.36519372	-1.435611844
## hacking	0.36113489	0.775537908
## imgkit	1.12076867	0.486346543
## ramp	1.72938406	0.816727698
## lat	0.76541227	-1.344077468
## natural	1.70379829	-0.305124521
## screenbrightness	0.35434285	1.568468332
## dplot	0.97039348	1.231617570
## scissor	1.04047656	1.233367682
## lemmatize	-1.05916810	1.529113770
## windowsfirewall	0.81486315	0.481023103
## pops	-0.24546936	1.480110168
## quotexceptquot	0.99423909	0.316583276
## fa	-1.25155389	1.628226280
## googlecloudlp	0.60305613	-0.079615146
## jax	1.59764266	0.907754183
## jboss	-0.05167729	1.388969421
## voicerecognition	-1.08287656	-1.719904780
## splitting	-0.49252528	0.162359521
## numberquot	0.41072613	-1.746206641
## methodsignature	-0.12656264	-0.082800858
## sourced	0.98858893	-0.128698453
## ljust	0.35314956	-0.818909824
## linux	-1.34305763	-1.653745532
## pythonalpine	-0.15454900	-0.369424254
## vscooderemote	0.78078741	-2.015949249
## pythonfractions	-0.17653695	-1.091134071
## mapquest	1.22603905	0.162896231
## questdb	0.73051184	0.850082040
## dnsresolver	-0.07426711	-0.989258945
## meanshift	-0.69597125	0.861299574
## sports	1.37199914	0.044170909
## itertools	-1.17470396	0.650672078
## hybrid	1.56754053	0.501002610
## offloading	-1.24944210	-0.813041747
## dashdb	-1.40119994	-0.784851015
## ansicolors	0.20290776	0.567008555
## observe	-0.48299465	1.477677822
## getpost	-0.88266438	1.278304577
## digitsum	0.42447051	-1.626768351
## faiss	0.84621716	1.662345171
## clexe	0.59988678	1.303139091

# Word Embedding



## Paragraph2vec Approach

- Contextual Understanding: Paragraph2Vec excels at capturing contextual information in variable-length Stack Overflow questions, providing a holistic view of the entire text.
- Document-Level Semantics: Tailored for understanding document-level semantics, Paragraph2Vec is well-suited for tasks that require comprehending the overall context and purpose of Stack Overflow questions.
- Efficient Retrieval and Similarity: Ideal for tasks like document retrieval and similarity, Paragraph2Vec embeddings facilitate efficient operations by reducing dimensionality while retaining semantic information.
- Handling Variable-Length Texts: As Stack Overflow questions vary in length, Paragraph2Vec's ability to handle variable-length texts ensures robust performance in capturing meaningful relationships within questions.

# Paragraph2Vec Result

Question -> How to run python in conda environment ?

## Similarity Matrix

##	term1	term2	similarity	rank
## 1	conda	anaconda	0.9151204	1
## 2	conda	environement	0.8750440	4
## 3	conda	miniconda	0.8700238	5
## 4	conda	pippython	0.8859061	3
## 5	conda	pyopt	0.8862889	2
## 6	environment	env	0.9720023	1
## 7	environment	enviroment	0.9143285	3
## 8	environment	utility	0.8447001	5
## 9	environment	venv	0.8642362	4
## 10	environment	virtual	0.9175690	2
## 11	python	overwrite	0.8554232	3
## 12	python	passing	0.8754611	1
## 13	python	printing	0.8479622	5
## 14	python	pythonx	0.8709121	2
## 15	python	writing	0.8501320	4
## 16	run	execute	0.9763917	1
## 17	run	executing	0.9418076	2
## 18	run	launch	0.9300061	5
## 19	run	running	0.9352252	4
## 20	run	runs	0.9377644	3

## Related Tags

## [1]	"execute"	"env"	"executing"	"runs"	"running"
## [6]	"launch"	"virtual"	"anaconda"	"enviroment"	"pyopt"
## [11]	"pippython"	"passing"	"environement"	"pythonx"	"miniconda"
## [16]	"venv"	"overwrite"	"writing"		

## Top 5 Tags

## [1]	"execute"	"env"	"launch"	"virtual"	"anaconda"	"miniconda"
## [7]	"overwrite"					

**Thank You**