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In [2]:	Inltk_data] Inltk_	c:\Usera\Use		
The state of the s	Shakespeare The following script of the first	downloads the Gutenberg dataset and prints the names of all the files in the dataset.		
Out [2]: [In [3]: happer [5] Add En [5]	'austen-emma.tx 'austen-persuas 'austen-sense.t 'bible-kjv.txt' 'blake-poems.tx 'bryant-stories 'burgess-buster 'carroll-alice.'chesterton-bro 'chesterton-bro 'chesterton-thu 'edgeworth-pare 'melville-moby 'milton-paradis 'shakespeare-ra 'shakespeare-ma 'whitman-leaves The file shakes 'shakespeare-ma 'whitman-leaves The Tragedie of Actus Primus. So Catus Primus	xt', sion.txt', txt', y', xt', s.txt', rbrown.txt', txt', ll.txt', ursday.txt', ents.txt', dick.txt', se.txt', aesar.txt', aesar.txt', aesar.txt', selbeth.txt', scht.txt', scht.txt' scht.txt' coppeare-hamlet.txt contains raw text for the novel "Hamlet". To read this file, the raw method from the gutenberg class can be used: 00 characters from out dataset: ltk.corpus.gutenberg.raw('shakespeare-hamlet.txt') xt[:5000]) f Hamlet by William Shakespeare 1599] coena Prima. and Francisco two Centinels. 's there?		
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Y A	Barnardo. Who Fran. Nay answour selfe Bar. Long liu Fran. Barnard Bar. He Fran. You con	and Francisco two Centinels. 's there?		
	Fran. You com	Enter Barnardo and Francisco two Centinels. Barnardo. Who's there? Fran. Nay answer me: Stand & vnfold your selfe Bar. Long liue the King Fran. Barnardo?		
Ma	Fran. You come most carefully vpon your houre Bar. 'Tis now strook twelue, get thee to bed Francisco Fran. For this releefe much thankes: 'Tis bitter cold, And I am sicke at heart Barn. Haue you had quiet Guard? Fran. Not a Mouse stirring			
Eı	Barn. Well, goodnight. If you do meet Horatio and Marcellus, the Riuals of my Watch, bid them make hast. Enter Horatio and Marcellus. Fran. I thinke I heare them. Stand: who's there? Hor. Friends to this ground Mar. And Leige-men to the Dane Fran. Giue you good night			
Ez	Mar. O farwel honest Soldier, who hath relieu'd you? Fra. Barnardo ha's my place: giue you goodnight. Exit Fran. Mar. Holla Barnardo Bar. Say, what is Horatio there? Hor. A peece of him Bar. Welcome Horatio, welcome good Marcellus Mar. What, ha's this thing appear'd againe to night Bar. I have seene nothing Mar. Horatio sales, 'tis but our Fantasie, And will not let beleefe take hold of him Touching this dreaded sight, twice seene of vs, Therefore I have intreated him along with vs, to watch the minutes of this Night, That if againe this Apparition come, He may approve our eyes, and speake to it Hor. Tush, tush, 'twill not appeare Bar. Sit downe a-while, And let vs once againe assaile your eares, That are so fortified against our Story, What we two Nights have seene Hor. Well, sit we downe, And let vs heere Barnardo speake of this Barn. Last night of all, When yond same Starre that's Westward from the Pole Had made his course t' illume that part of Heaven Where now it burnes, Marcellus and my selfe, The bell then bearing one Mar. Feace, breake thee of: Enter the Chost. Looke where it comes againe			
To Th W:				
He Ar Th Wh				
Wl Ha Wl Th				
	Barn. In the Mar. Thou art Barn. Lookes Hora. Most li	same figure, like the King that's dead t a Scholler; speake to it Horatio it not like the King? Marke it Horatio ike: It harrowes me with fear & wonder d be spoke too		
Ir	Hor. What art Together with the In which the Mai Did sometimes ma Mar. It is of Barn. See, it	t thou that vsurp'st this time of night, hat Faire and Warlike forme iesty of buried Denmarke arch: By Heauen I charge thee speake		
I s Wl	Barn. How now s not this some What thinke you Hor. Before my	y God, I might not this beleeue sible and true auouch		
Wl So He	Mar. Is it not like the King? Such was the very Armout be had on, Show has the very Armout be had on, When the 'Ambitious Norwey combatted; So frown'd he once, when in an angry parle He snot the sleuded Pollas on the Loc. 'Tha strange Mar. Thus twice before, and just at this dead houre, Whin Mortiell stelle, hath he gone by our Maten Her. In what purticular thought to work, I know not: But in the grosse and scope of my opinion, This boucke some etrange crruption to our State Mar. Good now sit downe, a tell me be that knowne Why this same strict and most observant Watch, So nightly coyled the subject of the Lend, and why such dayly Cast of Brazen (Lannon And Forraigne Mart for Implemente of were) Why such impresse of Shirt-wrights, whose sore Taske Do's not diwide the Sunday From the weeke, what night be toward, that this swearch heat Doth make the Night loyst-Labouser with the day: Who is't that can informe me? Hor. That can I, At least the whisper goes so: Our last Ning, Whose Image even but now eppear'd to ve, Was (as you know) by Forthbrase of Norway, Swa (as you know) by Forthbrase who for Norway, O'fhereto prick'd on by a most emulate Fride) Do's lay this Fortibrises who by a Seel'd Compact, Well ratified by Law, and Beraidrie, Did sloy this Fortibries who by a Seel'd Compact, Well ratified by Law, and Beraidrie, Did to forfeite (with his life) all those his Lands Which he stood seir'd on, to the Conqueror: Against the which, & Ohly to ongetent Was gaged by our Kingt which had return'd To the Innoritance of Fortibries, Had be bin Vanguisher, as by the same Coulman And carriage of the Article designe, His fall to Hamlet. Now air, young Fortinbras, O'f veinprocoul Mettle, but and the His, Hath to the astrate of Norway, heere and there, Shark's wy at list of Loundesse Revolutes, For Foode and Die, to some interprise Diet to recover of vie you yetrong hand And termes Complishing have no our France) Her Source of rise our Addition the cheefe heed of this post-hast, and Rowage in the Land.			
Th Wh So An An Wh				
W1 D0 W1 A1 W1 W3 (1)				
D: We D: Wh Aq Wa To Ha An H:				
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Ton [4]: A	Tokenizing AI = """In compute ligence demonstration and text to the computer of the computer	words uter science, artificial intelligence (AI), sometimes called machine intelligence, is nstrated by machines, unlike the natural intelligence displayed by humans and animals. ooks define the field as the study of "intelligent agents": any device that perceives nd takes actions that maximize its chance of successfully achieving its goals.""		
Out[5]: st In [6]: f : In [7]: A: A: Out[7]: [<pre>str from nltk.tokenize import word_tokenize AI_tokens = word_tokenize(AI) AI_tokens</pre>			
	<pre>['In', 'computer', 'science', ',', 'artificial', 'intelligence', '(', 'AI', ')', ',', 'sometimes', 'called',</pre>			
	<pre>'machine', 'intelligence', ',', 'is', 'intelligence', 'demonstrated', 'by', 'machines', ',', 'unlike', 'the',</pre>			
	<pre>':', 'any', 'device', 'that', 'perceives', 'its', 'environment', 'and', 'takes', 'actions', 'that',</pre>			
	<pre>'maximize', 'its', 'chance', 'of', 'successfully', 'achieving', 'its', 'goals', '.']</pre>			
in [9]: f :	Frequency o			
for [10]: Find [11]: for [11]:	<pre>for word in AI_tokens: fdist[word.lower()]+=1 fdist FreqDist({',': 4, 'intelligence': 4, 'the': 3, 'its': 3, 'ai': 2, 'by': 2, 'and': 2, '.': 2, 'of': 'that': 2,}) fdist_top10 = fdist.most_common(10) ## frequency of first 10 words fdist_top10 [(',', 4).</pre>			
	<pre>('intelligence', 4), ('the', 3), ('its', 3), ('ai', 2), ('by', 2), ('and', 2), ('.', 2), ('of', 2), ('that', 2)]</pre>			
e qr qr	e."	ead of worrying about what you cannot control, shift your energy to what you can creat nltk.word_tokenize(string)		
n [15]: q q ut[15]: [quotes_bigrams ('Instead', 'of ('of', 'worryir ('worrying', 'a ('about', 'what	ng'), about'), t'),		
	<pre>('worrying', 'about'), ('about', 'what'), ('what', 'you'), ('you', 'can'), ('can', 'not'), ('not', 'control'), ('control', ','), (',', 'shift'), ('shift', 'your'), ('your', 'energy'), ('energy', 'to'), ('to', 'what'), ('what', 'you'), ('you', 'can'),</pre>			
n [16]: qn qn ut[16]: [('can', 'create' ('create', '.') quotes_ngrams = quotes_ngrams			
	('of', 'worrying', 'a' ('worrying', 'a' ('about', 'what	f', 'worrying', 'about', 'what'), ng', 'about', 'what', 'you'), about', 'what', 'you', 'can'), t', 'you', 'can', 'not'),		
	('of', 'worrying', 'a ('worrying', 'a ('about', 'what ('what', 'you', ('you', 'can', ('can', 'not', ('not', 'control', (',', 'shift', ('shift', 'your ('your', 'energy', 'to' ('to', 'what',	ng', 'about', 'what', 'you'), about', 'what', 'you', 'can'),		
No. 17]: f : p:	('of', 'worrying', 'a ('worrying', 'a ('about', 'what ('what', 'you', ('you', 'can', ('can', 'not', ('not', 'control', ',' ('shift', 'your ('your', 'energy', 'to' ('to', 'what', ('what', 'you', Stemming Normalize words into From nltk.stem a ost = PorterSter ost.stem("Having	ng', 'about', 'what', 'you'), about', 'what', 'you', 'can'), t', 'you', 'can', 'not'), , 'can', 'not', 'control'), 'not', 'control', ','), 'control', ',', 'shift'), ol', ',', 'shift', 'your'), ', 'shift', 'your', 'energy'), 'your', 'energy', 'to'), r', 'energy', 'to', 'what'), gy', 'to', 'what', 'you'), ', 'what', 'you', 'can'), 'you', 'can', 'create'), , 'can', 'create', '.')] pits base form or root form import PorterStemmer mmer()		
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In [27]: post_punctuation Out[27]: ['In', 'computer', 'science', '/', 'artificial', 'intelligence', '/', 'AI', '/', '/', 'sometimes', 'called', 'machine', 'intelligence', '/', 'is', 'intelligence', 'demonstrated', 'by', 'machines', '/', 'unlike', 'the', 'natural', 'intelligence', 'displayed', 'by', 'humans', 'and', 'animals', '/', 'Leading', 'AI', 'textbooks', 'define', 'the', 'field', 'as', 'the', 'study', 'of', , , , 'intelligent', 'agents', '//', '/', 'any', 'device', 'that', 'perceives', 'its', 'environment', 'and', 'takes', 'actions', 'that', 'maximize', 'its', 'chance', 'of', 'successfully', 'achieving', 'its', 'goals', '/'] In [28]: len(post_punctuation) Out[28]: 65 **POS: Parts of speech** · Generally speaking gramatical types of words like noun, verb, adverb, ajectives · A word can have more then one parts of speech based on the context it is used • Ex. "Google something on the internet", Here google is used as a verb although its a noun. · These are some sort of ambiquities or difficulties which makes the NLU much more harder as compared to NLG · Because once u understand the language Generation is quite easy In [29]: sent='krishna is a natural when it comes to singing' sent tokens=word tokenize(sent) In [30]: for token in sent tokens: print(nltk.pos_tag([token])) [('krishna', 'NN')] [('is', 'VBZ')] [('a', 'DT')] [('natural', 'JJ')] [('when', 'WRB')] [('it', 'PRP')] [('comes', 'VBZ')] [('to', 'TO')] [('singing', 'VBG')] Named Entity Recognition Naming such as-- movie monetary value organization location quantities · person from a text Three phases of NAE 1. Noun Pharase identification:-Extract all the noun phrases from a text using dependency passing and parts of speech tagging 2. Phase classification:- in this step all the extracted nouns and phrases are classified into respective categories such as location names and much more 3. Validation layer to evalute if something goes wrong using knowledge graphs</br> Popular knowledge craft:- Google knowledge graph, IBM Watson, Wkipedia Google's CEO Sundar Pichai introduced the new pixel at Minnesota Roi Centre Event Google-Organization · Sundar Pichai- person Minnesota-Location Roi centre event-location In [31]: import nltk from nltk import ne_chunk NE sent="The Indian Politicians shouts in the Parliament House" In [32]: NE tokens=word tokenize(NE sent) NE_tags=nltk.pos_tag(NE_tokens) In [33]: NE NER=ne chunk(NE tags) print(NE NER) (S The/DT (GPE Indian/JJ) Politicians/NNPS shouts/NNS in/IN the/DT (ORGANIZATION Parliament/NNP House/NNP)) Chunking picking up individual pieces of information and grouping them into bigger pieces In [34]: new = "The cat sat on a mat and ate the rat" new Tokens = nltk.pos tag(word tokenize(new)) new Tokens Out[34]: [('The', 'DT'), ('cat', 'NN'), ('sat', 'VBD'), ('on', 'IN'), ('a', 'DT'), ('mat', 'NN'), ('and', 'CC'), ('ate', 'VB'), ('the', 'DT'), ('rat', 'NN')] In [35]: grammar np = r"NP:{<DT>?<JJ>*<NN>}" chunk parser = nltk.RegexpParser(grammar np) In [36]: chunk result = chunk parser.parse(new Tokens) chunk result The Ghostscript executable isn't found. See http://web.mit.edu/ghostscript/www/Install.htm If you're using a Mac, you can try installing https://docs.brew.sh/Installation then `brew install ghostscript` ______ Traceback (most recent call last) ~\anaconda3\lib\site-packages\nltk\tree.py in repr png (self) 805 env vars=['PATH'], --> 806 verbose=False, 807 ~\anaconda3\lib\site-packages\nltk\internals.py in find_binary(name, path_to_bin, env_vars, searchpat h, binary_names, url, verbose) 696 find binary iter(--> 697 name, path to bin, env vars, searchpath, binary names, url, verbose 698 ~\anaconda3\lib\site-packages\nltk\internals.py in find binary iter(name, path_to_bin, env_vars, sear chpath, binary_names, url, verbose) 680 for file in find file iter(--> 681 path to bin or name, env vars, searchpath, binary names, url, verbose 682 ~\anaconda3\lib\site-packages\nltk\internals.py in find file iter(filename, env_vars, searchpath, fil e_names, url, verbose, finding dir) div = '=' * 75 638 --> 639 raise LookupError('\n\n%s\n%s\n%s' % (div, msg, div)) 640 LookupError: ______ NLTK was unable to find the gs file! Use software specific configuration paramaters or set the PATH environment variable. ______ During handling of the above exception, another exception occurred: Traceback (most recent call last) LookupError ~\anaconda3\lib\site-packages\IPython\core\formatters.py in __call__(self, obj) 343 method = get_real_method(obj, self.print_method) 344 if method is not None: --> 345 return method() 346 return None 347 else: ~\anaconda3\lib\site-packages\nltk\tree.py in _repr_png_(self) "https://docs.brew.sh/Installation then `brew install ghostscript`") print(pre_error_message, file=sys.stderr) 818 --> 819 raise LookupError 820 821 with open(out_path, 'rb') as sr: LookupError: Out[36]: Tree('S', [Tree('NP', [('The', 'DT'), ('cat', 'NN')]), ('sat', 'VBD'), ('on', 'IN'), Tree('NP', [('a', 'DT'), ('mat', 'NN')]), ('and', 'CC'), ('ate', 'VB'), Tree('NP', [('the', 'DT'), ('rat', 'N N')])]) ML Classifier - Movie Review from the nltk corpora In [37]: import pandas as pd import numpy as np In [38]: from sklearn.feature_extraction.text import CountVectorizer print (os.listdir(nltk.data.find("corpora"))) ['cmudict', 'cmudict.zip', 'gazetteers', 'gazetteers.zip', 'genesis', 'genesis.zip', 'gutenberg', 'gu tenberg.zip', 'inaugural', 'inaugural.zip', 'movie_reviews', 'movie_reviews.zip', 'names', 'names.zi p', 'omw', 'omw.zip', 'shakespeare', 'shakespeare.zip', 'stopwords', 'stopwords.zip', 'treebank', 'tr eebank.zip', 'twitter samples', 'twitter samples.zip', 'wordnet', 'wordnet.zip', 'wordnet ic', 'wordn et_ic.zip', 'words', 'words.zip'] In [39]: from nltk.corpus import movie reviews print (movie_reviews.categories()) ['neg', 'pos'] In [40]: print(len(movie reviews.fileids('pos'))) print(' ') print(movie_reviews.fileids('pos')) 1000 ['pos/cv000 29590.txt', 'pos/cv001 18431.txt', 'pos/cv002 15918.txt', 'pos/cv003 11664.txt', 'pos/cv0 04 11636.txt', 'pos/cv005 29443.txt', 'pos/cv006 15448.txt', 'pos/cv007 4968.txt', 'pos/cv008 29435.t xt', 'pos/cv009_29592.txt', 'pos/cv010_29198.txt', 'pos/cv011_12166.txt', 'pos/cv012_29576.txt', 'pos/cv011_12166.txt', 'pos/cv012_29576.txt', 'pos/cv011_12166.txt', 'pos/cv0112_12166.txt', 'pos/cv011_12166.txt', 'pos/cv0112_12166.txt', 'pos/cv0112 s/cv013_10159.txt', 'pos/cv014_13924.txt', 'pos/cv015_29439.txt', 'pos/cv016_4659.txt', 'pos/cv017_22 464.txt', 'pos/cv018_20137.txt', 'pos/cv019_14482.txt', 'pos/cv020_8825.txt', 'pos/cv021_15838.txt', 'pos/cv022_12864.txt', 'pos/cv023_12672.txt', 'pos/cv024_6778.txt', 'pos/cv025_3108.txt', 'pos/cv026_ 29325.txt', 'pos/cv027_25219.txt', 'pos/cv028_26746.txt', 'pos/cv029_18643.txt', 'pos/cv030_21593.tx t', 'pos/cv031 18452.txt', 'pos/cv032 22550.txt', 'pos/cv033 24444.txt', 'pos/cv034 29647.txt', 'pos/ cv035_3954.txt', 'pos/cv036_16831.txt', 'pos/cv037_18510.txt', 'pos/cv038_9749.txt', 'pos/cv039_6170. txt', 'pos/cv040 8276.txt', 'pos/cv041 21113.txt', 'pos/cv042 10982.txt', 'pos/cv043 15013.txt', 'po s/cv044_16969.txt', 'pos/cv045_23923.txt', 'pos/cv046_10188.txt', 'pos/cv047_1754.txt', 'pos/cv048_16 828.txt', 'pos/cv049_20471.txt', 'pos/cv050_11175.txt', 'pos/cv051_10306.txt', 'pos/cv052_29378.txt', 'pos/cv053_21822.txt', 'pos/cv054_4230.txt', 'pos/cv055_8338.txt', 'pos/cv056_13133.txt', 'pos/cv057_ 7453.txt', 'pos/cv058_8025.txt', 'pos/cv059_28885.txt', 'pos/cv060_10844.txt', 'pos/cv061_8837.txt', 'pos/cv062 23115.txt', 'pos/cv063 28997.txt', 'pos/cv064 24576.txt', 'pos/cv065 15248.txt', 'pos/cv06 6 10821.txt', 'pos/cv067 19774.txt', 'pos/cv068 13400.txt', 'pos/cv069 10801.txt', 'pos/cv070 12289.t xt', 'pos/cv071_12095.txt', 'pos/cv072_6169.txt', 'pos/cv073_21785.txt', 'pos/cv074_6875.txt', 'pos/c v075_6500.txt', 'pos/cv076_24945.txt', 'pos/cv077_22138.txt', 'pos/cv078_14730.txt', 'pos/cv079_1193 3.txt', 'pos/cv080_13465.txt', 'pos/cv081_16582.txt', 'pos/cv082_11080.txt', 'pos/cv083_24234.txt', 'pos/cv084_13566.txt', 'pos/cv085_1381.txt', 'pos/cv086_18371.txt', 'pos/cv087_1989.txt', 'pos/cv088_ 24113.txt', 'pos/cv089_11418.txt', 'pos/cv090_0042.txt', 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15600.txt', 'neg/cv015 29356.txt', 'neg/cv016 4348.txt',
'neg/cv017 23 487.txt', 'neg/cv018_21672.txt', 'neg/cv019_16117.txt', 'neg/cv020_9234.txt', 'neg/cv021_17313.txt', 'neg/cv022 14227.txt', 'neg/cv023 13847.txt', 'neg/cv024 7033.txt', 'neg/cv025 29825.txt', 'neg/cv026 _29229.txt', 'neg/cv027_26270.txt', 'neg/cv028_26964.txt', 'neg/cv029_19943.txt', 'neg/cv030_22893.tx t', 'neg/cv031 19540.txt', 'neg/cv032 23718.txt', 'neg/cv033 25680.txt', 'neg/cv034 29446.txt', 'neg/ cv035_3343.txt', 'neg/cv036_18385.txt', 'neg/cv037_19798.txt', 'neg/cv038_9781.txt', 'neg/cv039_5963. txt', 'neg/cv040 8829.txt', 'neg/cv041 22364.txt', 'neg/cv042 11927.txt', 'neg/cv043 16808.txt', 'ne g/cv044_18429.txt', 'neg/cv045_25077.txt', 'neg/cv046_10613.txt', 'neg/cv047_18725.txt', 'neg/cv048_1 8380.txt', 'neg/cv049_21917.txt', 'neg/cv050_12128.txt', 'neg/cv051_10751.txt', 'neg/cv052_29318.tx t', 'neg/cv053_23117.txt', 'neg/cv054_4101.txt', 'neg/cv055_8926.txt', 'neg/cv056 14663.txt', 'neg/cv 057_7962.txt', 'neg/cv058_8469.txt', 'neg/cv059_28723.txt', 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5393.txt', 'neg/cv194 1 2855.txt', 'neg/cv195 16146.txt', 'neg/cv196 28898.txt', 'neg/cv197 29271.txt', 'neg/cv198 19313.tx t', 'neg/cv199_9721.txt', 'neg/cv200_29006.txt', 'neg/cv201_7421.txt', 'neg/cv202_11382.txt', 'neg/cv 203_19052.txt', 'neg/cv204_8930.txt', 'neg/cv205_9676.txt', 'neg/cv206_15893.txt', 'neg/cv207_29141.t xt', 'neg/cv208_9475.txt', 'neg/cv209_28973.txt', 'neg/cv210_9557.txt', 'neg/cv211_9955.txt', 'neg/cv 212 10054.txt', 'neg/cv213 20300.txt', 'neg/cv214 13285.txt', 'neg/cv215 23246.txt', 'neg/cv216 2016 5.txt', 'neg/cv217 28707.txt', 'neg/cv218 25651.txt', 'neg/cv219 19874.txt', 'neg/cv220 28906.txt', 'neg/cv221_27081.txt', 'neg/cv222_18720.txt', 'neg/cv223_28923.txt', 'neg/cv224_18875.txt', 'neg/cv22 5_29083.txt', 'neg/cv226_26692.txt', 'neg/cv227_25406.txt', 'neg/cv228_5644.txt', 'neg/cv229_15200.tx t', 'neg/cv230 7913.txt', 'neg/cv231 11028.txt', 'neg/cv232 16768.txt', 'neg/cv233 17614.txt', 'neg/c v234 22123.txt', 'neg/cv235 10704.txt', 'neg/cv236 12427.txt', 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0709.txt', 'neg/cv367_24065.txt', 'neg/cv368_11090.txt', 'neg/cv369_14245.txt', 'neg/cv370_5338.txt', 'neg/cv371_8197.txt', 'neg/cv372_6654.txt', 'neg/cv373_21872.txt', 'neg/cv374_26455.txt', 'neg/cv375_ 9932.txt', 'neg/cv376_20883.txt', 'neg/cv377_8440.txt', 'neg/cv378_21982.txt', 'neg/cv379_23167.txt', 'neg/cv380_8164.txt', 'neg/cv381_21673.txt', 'neg/cv382_8393.txt', 'neg/cv383_14662.txt', 'neg/cv384_ 18536.txt', 'neg/cv385 29621.txt', 'neg/cv386 10229.txt', 'neg/cv387 12391.txt', 'neg/cv388 12810.tx t', 'neg/cv389_9611.txt', 'neg/cv390_12187.txt', 'neg/cv391_11615.txt', 'neg/cv392_12238.txt', 'neg/c v393_29234.txt', 'neg/cv394_5311.txt', 'neg/cv395_11761.txt', 'neg/cv396_19127.txt', 'neg/cv397_2889 0.txt', 'neg/cv398_17047.txt', 'neg/cv399_28593.txt', 'neg/cv400_20631.txt', 'neg/cv401_13758.txt', 'neg/cv402_16097.txt', 'neg/cv403_6721.txt', 'neg/cv404_21805.txt', 'neg/cv405_21868.txt', 'neg/cv406 _22199.txt', 'neg/cv407_23928.txt', 'neg/cv408_5367.txt', 'neg/cv409_29625.txt', 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17966.txt', 'neg/cv776 21934.txt', 'neg/cv777 10247.tx t', 'neg/cv778_18629.txt', 'neg/cv779_18989.txt', 'neg/cv780_8467.txt', 'neg/cv781_5358.txt', 'neg/cv 782 21078.txt', 'neg/cv783 14724.txt', 'neg/cv784 16077.txt', 'neg/cv785 23748.txt', 'neg/cv786 2360 8.txt', 'neg/cv787_15277.txt', 'neg/cv788_26409.txt', 'neg/cv789_12991.txt', 'neg/cv790_16202.txt', 'neg/cv791 17995.txt', 'neg/cv792 3257.txt', 'neg/cv793 15235.txt', 'neg/cv794 17353.txt', 'neg/cv795 10291.txt', 'neg/cv796 17243.txt', 'neg/cv797 7245.txt', 'neg/cv798 24779.txt', 'neg/cv799 19812.tx t', 'neg/cv800_13494.txt', 'neg/cv801_26335.txt', 'neg/cv802_28381.txt', 'neg/cv803_8584.txt', 'neg/c v804 11763.txt', 'neg/cv805 21128.txt', 'neg/cv806 9405.txt', 'neg/cv807 23024.txt', 'neg/cv808 1377 3.txt', 'neg/cv809 5012.txt', 'neg/cv810 13660.txt', 'neg/cv811 22646.txt', 'neg/cv812 19051.txt', 'n eg/cv813_6649.txt', 'neg/cv814_20316.txt', 'neg/cv815_23466.txt', 'neg/cv816_15257.txt', 'neg/cv817_3 675.txt', 'neg/cv818_10698.txt', 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Out[56]:	['00', '000', '007', '05', '10', '100', '1000',
	'101', '102', '103', '105', '106', '107', '108', '10th',
	'11', '113', '115', '11th', '12', '126', '129', '13',
	'132', '137', '13th', '14', '15', '15th', '16', '1600',
	'16x9', '17', '17th', '18', '180', '1809', '1869', '1871',
	'18th', '19', '1900', '1914', '1925', '1928', '1933', '1939', '1940s',
	'1947', '1948', '1949', '1950', '1950s', '1958', '1960',
	'1960s', '1961', '1962', '1963', '1964', '1966', '1967', '1968', '1968',
	'1970', '1970s', '1971', '1972', '1973', '1974', '1976', '1977', '1978',
	'1979', '1980', '1980s', '1981', '1982', '1983', '1984', '1985',
	'1986', '1987', '1988', '1989', '1990', '1990s', '1991', '1992', '1993',
	'1994', '1995', '1996', '1997', '1998', '1999', '19th', '20',
	'200', '2000', '2001', '2017', '2020', '2029', '20s', '20th', '21',
	'2176', '22', '23', '24', '25', '25th', '26', '26th',
	'27', '28', '29', '2d', '30', '300', '3000', '30th', '31',
	'32', '33', '35', '36', '37', '39', '40', '400', '43',
	'45', '47', '48', '4th', '500', '5000', '500s',
	'51', '53', '54', '57', '60', '600', '6000', '607',
	'60s', '64', '66', '70', '700', '70s', '75', '76',
	'78', '80', '800', '80s', '83', '84', '85', '87',
	'89", '8mm', '8th', '90', '90210', '90s', '92', '93', '94',
	'95', '96', '97', '98', '99', '999', '_21_jump_street_', '', '_a_night_at_the_roxbury_',
	<pre>'_and_', '_babe_', '_clueless_', '_does_', '_don', '_have_', ' in',</pre>
	<pre>'_is_', '_jerry_maguire_', '_last_', '_must_', '_not_', '_real_', '_really_', '_roxbury_', '_saturday_night_live_', '_saving',</pre>
	<pre>'_scream_', '_snl_', '_the', '_the_', 'aa', 'aaa', 'aaliyah', 'aaron',</pre>
	<pre>'aback', 'abandon', 'abandoned', 'abandonment', 'abandons', 'abdomen', 'abduction', 'abe', 'abel',</pre>
	<pre>'abetting', 'abhorrent', 'abilities', 'ability', 'ablaze', 'able', 'ably', 'abo', 'aboard',</pre>
	<pre>'abode', 'abominable', 'abomination', 'aborted', 'abortion', 'abound', 'abraham',</pre>
	<pre>'abrams', 'abrasive', 'abrupt', 'abruptly', 'abs', 'absence', 'absences', 'absent', 'absentee',</pre>
	<pre>'absolute', 'absorb', 'absorbed', 'absorbing', 'abstract', 'absurd', 'absurdity', 'absurdly',</pre>
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	<pre>'abysmal', 'abyssmally', 'abyss', 'academic', 'academy', 'accent', 'accented', 'accents', 'accept',</pre>
	<pre>'accept', 'acceptable', 'acceptance', 'accepted', 'accepting', 'accepts', 'access', 'accident', 'accidental', 'accidentally',</pre>
	<pre>'accidentally', 'accidently', 'acclaim', 'acclaimed', 'accompanied', 'accompanient', 'accompany', 'accompanying',</pre>
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	<pre>'accurately', 'accusation', 'accusations', 'accused', 'accuses', 'accusing', 'accustomed', 'accustomed', 'ace', 'acerbic',</pre>
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	<pre>'acknowledged', 'acknowledges', 'acknowledgment', 'acquaintances', 'acquired', 'acquit', 'acquittal', 'acquittal',</pre>
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	<pre>'active', 'actively', 'activist', 'activities', 'activity', 'actor', 'actors', 'actress', 'actresses',</pre>
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	<pre>'affects', 'affleck', 'afflicted', 'affluent', 'afford', 'afforded', 'aficionado', 'aficield',</pre>
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	<pre>'aftermath', 'afternoon', 'afternoons', 'afterthought', 'afterward', 'age', 'aged', 'agency', 'agenda',</pre>
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	<pre>'agility', 'aging', 'ago', 'agonizingly', 'agree', 'agreeable', 'agreed', 'agreeing', 'agreement',</pre>
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	<pre>'aidan', 'aide', 'aided', 'aiding', 'aids', 'aiello', 'ailing', 'aim',</pre>
	<pre>'aimed', 'aiming', 'aimless', 'aimlessly', 'aims', 'ain', 'air', 'aired',</pre>
	<pre>'aires', 'airline', 'airlock', 'airplane', 'airplanes', 'airport', 'airwolf', 'airy',</pre>
	<pre>'aisles', 'aka', 'akin', 'akiva', 'akroyd', 'al', 'ala', 'alan',</pre>
	<pre>'alarmed', 'alarming', 'alas', 'alaska', 'albeit', 'albert', 'albino', 'albinos',</pre>
	<pre>'alcohol', 'alcoholic', 'alcoholics', 'alcoholism', 'alcott', 'aldys', 'aldys', 'alec', 'alert', 'alerted',</pre>
	<pre>'alessandro', 'alex', 'alexander', 'alexandre', 'alfred', 'ali', 'alias', 'alice',</pre>
	<pre>'alicia', 'alien', 'alienate', 'alienated', 'alienation', 'aliens', 'align', 'alignment', 'alignment',</pre>
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	<pre>'altman', 'altogether', 'alumnus', 'alyson', 'alzheimer', 'amalgamation', 'amanda', 'amarillo',</pre>
	<pre>'amateur', 'amateurish', 'amateurishly', 'amaze', 'amazed', 'amazing', 'amazingly', 'amazon', 'ambassador',</pre>
	<pre>'ambience', 'ambiguity', 'ambiguous', 'ambition', 'ambitious', 'ambitiously', 'ambrose', 'ambush',</pre>
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	<pre>'amidst', 'amis', 'amish', 'amiss', 'amistad', 'ammo', 'ammunition', 'amnesia', 'amok',</pre>
	<pre>'amoral', 'amounts', 'ample', 'amply', 'amuck', 'amuse', 'amused', 'amusement', 'amusements',</pre>
	<pre>'amusing', 'amusingly', 'amy', 'anaconda', 'anacondas', 'anakin', 'anal', 'analogy',</pre>
	<pre>'analysis', 'analyze', 'analyzed', 'anarchic', 'anastasia', 'anatomy', 'anchor', 'ancient', 'anders',</pre>
	<pre>'anderson', 'andie', 'andre', 'andrea', 'andrew', 'andrews', 'android', 'andrzej', 'andy',</pre>
	<pre>'anemic', 'anew', 'angel', 'angela', 'angeles', 'angelic', 'angelina', 'angelo',</pre>
	<pre>'angels', 'anger', 'angered', 'angle', 'angles', 'angrily', 'angry', 'angry', 'angsty',</pre>
	<pre>'animators', 'animatronic', 'animatronics', 'anime', 'aniston', 'anita', 'anjelica', 'ann', 'anna',</pre>
	<pre>'anna', 'annabella', 'annabeth', 'anne', 'annette', 'annie', 'annihilate', 'annihilation', 'anniversary',</pre>
	<pre>'announce', 'announced', 'announcement', 'announcer', 'announces', 'announcing', 'annoy', 'annoy', 'annoyance', 'annoyed',</pre>
	<pre>'annoyed', 'annoying', 'annoyingly', 'annoys', 'anonymous', 'answer', 'answered', 'answering', 'answers',</pre>
	<pre>'antoine', 'antonio', 'antonioni', 'ants', 'antsy', 'antwerp', 'antz', 'anxiety', 'anxiety',</pre>
	<pre>'anymore', 'anytime', 'anyways', 'apart', 'apartment', 'ape', 'apes', 'apex', 'aplenty',</pre>
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	<pre>'appalling', 'appallingly', 'apparantly', 'apparently', 'apparitions', 'appeal', 'appealing', 'appeals',</pre>
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'aramis',
'arbitrary',
'arbogast',
'arc',
'arcade',
'arch',

'archer',
'archetype',

'archeologist',

In [56]: x_names=count_vect.get_feature_names()

x_names

