

# Podcast Topic Modeling

May 19, 2020

```
[24]: import nltk; nltk.download('stopwords')
from nltk.corpus import stopwords

# Spacy for lemmatization
import spacy

import re
import numpy as np
import pandas as pd
from pprint import pprint

# Gensim
import gensim
import gensim.corpora as corpora
from gensim.utils import simple_preprocess
from gensim.models import CoherenceModel

# Plotting tools
import pyLDAvis
import pyLDAvis.gensim # don't skip this
import matplotlib.pyplot as plt
%matplotlib inline

# Enable logging for gensim - optional
import logging
logging.basicConfig(format='%(asctime)s : %(levelname)s : %(message)s',
                    level=logging.ERROR)

import warnings
warnings.filterwarnings("ignore",category=DeprecationWarning)

import os
```

```
[nltk_data] Downloading package stopwords to
[nltk_data] C:\Users\chris\AppData\Roaming\nltk_data...
[nltk_data] Package stopwords is already up-to-date!
```

# 1 Podcast Topic Modeling

What I aim to do with this project is to find out what topics have been, and are being discussed in 4 different podcasts - The Joe Rogan Experience, The H3 Podcast, The Tony Robbins Podcast, and The Stuff You Should Know Podcast.

I will use snippets from all episodes from the different podcasts that I have transcribed myself. Due to the poor transcription quality, I have decided to end this project for now. Instead I plan to work on the [Spotify Podcast Dataset and Trec Challenge](#).

Below is not a polished project, but some code to show initiative and competency in the field.

## 1.1 First steps

- Load in the data
- Get bi-/trigrams

```
[11]: df = pd.DataFrame({'Podcast': os.listdir('Text')})
podcast_texts = []
for podcast in df['Podcast']:
    text = ''
    path = os.path.join('Text', podcast)
    for ep_snippet in os.listdir(path):
        with open(os.path.join(path, ep_snippet), 'r') as f:
            text += f.readline()
    podcast_texts.append(text)
df['Content'] = podcast_texts
```

Now we have a dataframe with the documents as rows:

```
[16]: df
```

	Podcast	Content
0	H3	the only regarding you can't why can't i be ex...
1	JRE	i'm barbara will at a long hot sauces during o...
2	SYSK	right to buy their reinvented two thousand twe...
3	TR	you wanna try to sell those himself he would n...

Now let's 'tokenize' each word, meaning we put each word as an element in a list that acts as an element in the document list.

```
[12]: #Code from https://www.machinelearningplus.com/nlp/topic-modeling-gensim-python/
def sent_to_words(sentences):
    for sentence in sentences:
        yield(gensim.utils.simple_preprocess(str(sentence), deacc=True)) #_
    →deacc=True removes punctuations

data_words = list(sent_to_words(podcast_texts))
```

Now let's attempt to bigram these text.

```
[19]: #Code from https://www.machinelearningplus.com/nlp/topic-modeling-gensim-python/
# Build the bigram and trigram models
```

```
bigram = gensim.models.Phrases(data_words, min_count=5, threshold=100) # higher_
→threshold fewer phrases.
```

```
# Faster way to get a sentence clubbed as a bigram
```

```
bigram_mod = gensim.models.phrases.Phraser(bigram)
```

```
[46]: print(bigram_mod[data_words[0]])
```

```
['the', 'only', 'regarding', 'you', 'can', 'why', 'can', 'be', 'explained',
'as', 'know', 'was', 'gonna', 'really', 'raises', 'some', 'weird', 'had', 'an',
'eye', 'on', 'him', 'as', 'good', 'analyst', 'at', 'this', 'moment', 'is',
'with', 'the', 'gun', 'ban', 'suzanne', 'do', 'to', 'it', 'it', 'was', 'tied',
'to', 'express', 'my', 'aunt', 'who', 'had', 'him', 'thought', 'the', 'book',
'without', 'those', 'carrying', 'things', 'don', 'feel', 'myself', 'agonized',
'and', 'can', 'handle', 'businesses', 'that', 'you', 'know', 'that', 'racism',
'when', 'lie', 'memories', 'of', 'eck', 'will', 'no', 'longer', 'live', 'and',
'at', 'some', 'anyway', 'there', 'was', 'good', 'cold', 'sounds', 'furlong',
'thousand', 'to', 'pa', 'never', 'did', 'ever', 'sawthe', 'smoky', 'six',
'million', 'in', 'five', 'months', 'never', 'been', 'before', 'her', 'head',
'and', 'the', 'thighs', 'next', 'delia', 'live', 'performance', 'we', 'watched',
'it', 'loud', 'led', 'those', 'treacherous', 'where', 'there', 'war', 'ally',
'was', 'every', 'show', 'up', 'to', 'swan', 'song', 'that', 'just', 'wants',
'all', 'on', 'show', 'to', 'what', 'you', 're', 'gonna', 'woodward', 'was',
'to', 'the', 'soul', 'of', 'the', 'most', 'objective', 'they', 're', 'making',
'would', 'want', 'to', 'buy', 'liaison', 'and', 'engages', 'savvy', 'about',
'it', 'again', 'todayall', 'that', 'is', 'in', 'help', 'wanted', 'to', 'hear',
'could', 'no', 'one', 'dared', 'this', 'book', 'and', 'then', 'sit', 'over',
'there', 'so', 'like', 'fun', 'want', 'mayonnaise', 'should', 'try', 'it',
'and', 'put', 'you', 'on', 'duet', 'globe', 'unjust', 'but', 'has', 'happened',
'to', 'sameness', 'sang', 'no', 'fat', 'but', 'is', 'it', 'bang', 'leo',
'fatten', 'him', 'that', 'gonna', 'wally', 'mills', 'and', 'we', 'talked',
'about', 'it', 'get', 'out', 'of', 'popularity', 'discussion', 'purging',
'itself', 'and', 'then', 'got', 'up', 'before', 'forget', 'there', 'was', 'one',
'other', 'personhello', 'fundamentals', 'swamp', 'think', 'in', 'the', 'gate',
'and', 'the', 'bum', 'altay', 'verse', 'theory', 'and', 'how', 'can', 'we',
'develop', 'an', 'experiment', 'or', 'can', 'we', 'to', 'really', 'test', 'how',
'big', 'our', 'universe', 'is', 'in', 'effect', 'and', 'then', 'again',
'extent', 'then', 'because', 'only', 'finite', 'number', 'of', 'quantum',
'states', 'should', 'have', 'mr', 'region', 'me', 'it', 'been', 'calculated',
'that', 'what', 'the', 'google', 'plex', 'like', 'years', 'away', 'just',
'bonds', 'orwell', 'newt', 'so', 'with', 'that', 'time', 'of', 'saddam', 'my',
'goodness', 'there', 'so', 'much', 'yeah', 'we', 're', 'to', 'cover', 'as',
'we', 'were', 'gone', 'for', 'em', 'on', 'them', 'and', 'we', 'came', 'back',
'and', 'we', 'had', 'the', 'sauce', 'and', 'there', 'just', 'so', 'many',
'troubles', 'or', 'the', 'have', 'opt', 'to', 'talk', 'about', 'than', 'the',
'gillette', 'add', 'their', 'own', 'was', 'pissed', 'off', 'about', 'kevin',
'harbin', 'how', 'did', 'it', 'from', 'hosting', 'the', 'oscars', 'because',
'some', 'old', 'sweets', 'we', 've', 'got', 'to', 'meet', 'sandra', 'bullock',
```

'care', 'is', 'praising', 'kevin', 'get', 'kevin', 'spacey', 'of', 'corerifle',  
'and', 'get', 'shadow', 'of', 'the', 'thirty', 'day', 'trial', 'we', 'were',  
'audible', 'dot\_com', 'slash', 'du', 'pont', 'test', 'or', 'text', 'age', 'to',  
'broadcast', 'to', 'five', 'hundred', 'five', 'hundred', 'audible', 'the',  
'most', 'inspiring', 'mines', 'the', 'most', 'compelling', 'stories', 'the',  
'best', 'place', 'to', 'listen', 'postage', 'rates', 'have', 'gone', 'up',  
'again', 'they', 'please', 'stay', 'of', 'stock', 'up', 'could', 'ease', 'the',  
'pain', 'with', 'big', 'discounts', 'off', 'the', 'post', 'office', 'retail',  
'rates', 'was', 'step', 'dot\_com', 'you', 'can', 'say', 'five', 'cents', 'of',  
'every', 'first', 'classi', 'don', 'want', 'to', 'promote', 'the', 'young',  
'ye', 'know', 'if', 'you', 'can', 'turn', 'around', 'and', 'we', 'can', 'at',  
'the', 'zone', 'of', 'fire', 'things', 'to', 'promote', 'this', 'trial', 'us',  
'both', 'piano', 'what', 'is', 'so', 'these', 'someone', 'we', 'rejected', 'to',  
'not', 'say', 'that', 'it', 'interesting', 'we', 'rejected', 'well', 'and',  
'then', 'll', 'foot', 'birdie', 'at', 'the', 'offer', 'brain', 'was', 'very',  
'aggressive', 'airstill', 'though', 'that', 'discovered', 'pa', 'didn', 'know',  
'that', 'that', 'living', 'dead', 'yeah', 'mean', 'that', 'really', 'soda',  
'ready', 'to', 'resume', 'this', 'andre', 'this', 'address', 'know', 'though',  
'rizzo', 'was', 'and', 'knew', 'would', 'take', 'away', 'all', 'the', 'wood',  
'shingle', 'and', 'you', 'know', 'and', 'found', 'at', 'the', 'resumes', 'in',  
'which', 'planet', 'is', 'covered', 'with', 'saying', 'that', 'you', 'that',  
'get', 'all', 'the', 'individual', 'albums', 'and', 'only', 'bill', 'for',  
'cuban', 'links', 'by', 'recon', 'the', 'chef', 'and', 'oz', 'was', 'on',  
'that', 'and', 'that', 'how', 'truly', 'discovered', 'on', 'the', 'ice', 'is',  
'music', 'and', 'then', 'from', 'there', 'it', 'our', 'duty', 'was', 'rapid',  
'yes', 'opposite', 'genteel', 'wayowen', 'or', 'something', 'got', 'out',  
'some', 'of', 'what', 'we', 'might', 'get', 'my', 'wife', 'my', 'age', 'and',  
'the', 'good', 'does', 'chavis', 'cavity', 'clock', 'slot', 'but', 'woe', 'and',  
'then', 'you', 'prep', 'cook', 'that', 'trouble', 'naomi', 'sit', 'on',  
'coalition', 'of', 'the', 'market', 'well', 'so', 'they', 'said', 'transfer',  
'lick', 'because', 'id', 'cutting', 'my', 'penis', 'choke', 'off', 'and', 'you',  
'don', 'ideas', 'and', 'and', 'this', 'is', 'so', 'much', 'that', 'ask',  
'about', 'the', 'furthe', 'two', 'due', 'to', 'the', 'two', 'victims', 'la',  
'cosa', 'le', 'brac', 'anyone', 'just', 'actually', 'declined', 'an', 'ipod',  
'like', 'manheim', 'and', 'crazy', 'world', 'but', 'quickly', 'realize', 'that',  
'all', 'the', 'people', 'who', 'were', 'doing', 'that', 'have', 'no', 'watch',  
'the', 'document', 'is', 'so', 'plainly', 'obvious', 'because', 'all', 'the',  
'talking', 'points', 'are', 'things', 'are', 'dressed', 'been', 'widely', 'in',  
'the', 'documentary', 'on', 'the', 'budget', 'of', 'the', 'surprise', 'bike',  
'that', 'he', 'had', 'so', 'much', 'sway', 'in', 'polanco', 'care', 'so',  
'deeply', 'about', 'still', 'to', 'this', 'day', 'so', 'it', 'is', 'testament',  
'first', 'aromas', 'testamentbut', 'the', 'birdwell', 'now', 'on', 'actual',  
'the', 'score', 'but', 'it', 'was', 'decent', 'but', 'but', 'in', 'my',  
'grades', 'in', 'high', 'school', 'or', 'awful', 'so', 'kind', 'of',  
'undergoing', 'it', 'like', 'the', 'kids', 'to', 'get', 'unseemly', 'good',  
'grades', 'have', 'like', 'sep', 'prep', 'courses', 'in', 'the', 'study',  
'their', 'nassau', 'heads', 'the', 'soliman', 'is', 'wrong', 'in', 'all', 'my',  
'score', 'got', 'like', 'okay', 'eye', 'on', 'the', 'city', 'and', 'delicate',

'twelve', 'maybe', 'you', 'didn', 'prevent', 'no', 'not', 'about', 'four', 'or',  
 'the', 'change', 'but', 'on', 'the', 'mat', 'because', 'it', 'is', 'to', 'be',  
 'the', 'max', 'was', 'sixteen', 'hundred', 'that', 'the', 'way', 'was', 'iti',  
 'see', 'real', 'tired', 'your', 'conversations', 'you', 'know', 'well', 'liane',  
 'really', 'am', 'that', 'guy', 'you', 'not', 'take', 'break', 'to',  
 'conversation', 'didn', 'come', 'up', 'come', 'back', 'little\_bit', 'to',  
 'know', 'did', 'because', 'as', 'cover', 'to', 'zero', 'hoarding', 'gasoline',  
 'love', 'to', 'get', 'in', 'there', 'you', 'know', 'the', 'fortieth', 'minute',  
 'conversation', 'the', 'north', 'go', 'on', 'and', 'don', 'think', 'of', 'them',  
 'are', 'out', 'of', 'four', 'intercourse', 'asia', 'with', 'anybody', 'outside',  
 'of', 'the', 'officials', 'said', 'while', 'maybe', 'may', 'with', 'you', 'on',  
 'exhibits', 'granted', 'the', 'light', 'and', 'heavy', 'that', 'like', 'with',  
 'friend', 'we', 'just', 'sit', 'and', 'talk', 'like', 'talkthe', 'magic', 'the',  
 'magic', 'table', 'the', 'claims', 'itself', 'code', 'that', 'sounds', 'like',  
 'great', 'britain', 'my', 'alley', 'all', 'of', 'this', 'then', 'thought', 'am',  
 'you', 'said', 'philo', 'had', 'done', 'an', 'event', 'and', 'the', 'way',  
 'juniata', 'finds', 'that', 'is', 'my', 'laptop', 'walking', 'right', 'out',  
 'and', 'budget', 'but', 'saying', 'is', 'over', 'with', 'organ', 'rabbit',  
 'show', 'mortuary', 'as', 'is', 'our', 'program', 'that', 'watch', 'the',  
 'sketch', 'consulates', 'eating', 'outit', 'grandmother', 'footpath', 'pete',  
 'he', 'holds', 'like', 'any', 'goes', 'in', 'thy', 'covenant', 'yeah', 'and',  
 'endowments', 'face', 'neck', 'bomb', 'man', 'would', 'be', 'just', 'stole',  
 'some', 'like', 'ours', 'and', 'paulk', 'amadeo', 'do', 'so', 'fantastic',  
 'given', 'not', 'what', 'it', 'so', 'it', 'was', 'comic', 'is', 'here', 'and',  
 'it', 'was', 'the', 'pope', 'is', 'it', 'not', 'if', 'you', 'want', 'to', 'see',  
 'him', 'but', 'that', 'you', 'will', 'to', 'act', 'on', 'it', 'and', 'think',  
 'about', 'what', 'else', 'where', 'he', 'could', 'know', 'the', 'plot', 'got',  
 'uses', 'the', 'book', 'the', 'familiar', 'adamthe', 'wheel', 'will', 'it',  
 'all', 'the', 'good', 'day', 'the', 'way', 'all', 'out', 'and', 'it', 'like',  
 'day', 'gonna', 'would', 'boy', 'dilatatory', 'million', 'as', 'it', 'is',  
 'implemented', 'so', 'it', 'like', 'three', 'weeks', 'to', 'become', 'all',  
 'of', 'that', 'that', 'my', 'question', 'here', 'is', 'the', 'new', 'shows',  
 'the', 'moment', 'you', 'of', 'there', 'so', 'many', 'thought', 'this', 'is',  
 'not', 'small', 'catholicism', 'massacre', 'blown', 'out', 'of', 'the', 'red',  
 'alert', 'five', 'billion', 'at', 'legal', 'opponents', 'will', 'hill', 'and',  
 'owls', 'and', 'out', 'whole', 'backyard', 'however', 'it', 'soul', 'how',  
 'the', 'full', 'of', 'two', 'clear', 'that', 'the', 'fbi', 'resells', 'them',  
 'but', 'if', 'lilith', 'just', 'threetheir', 'dog', 'that', 'bit', 'of',  
 'football', 'conflicted', 'about', 'why', 'monogamy', 'thorough', 'the', 'way',  
 'you', 're', 'talking', 'about', 'coming', 'out', 'from', 'the', 'side', 'and',  
 'now', 'll', 'go', 'front', 'to', 'back', 'him', 'back', 'different', 'alleles',  
 'bother', 'going', 'on', 'all', 'my', 'years', 'china', 'back', 'you', 'come',  
 'from', 'here', 'you', 'all', 'by', 'my', 'arm', 'is', 'always', 'back',  
 'there', 'that', 'you', 'think', 'it', 'don', 'know', 'who', 'to', 'know',  
 'that', 'could', 'do', 'that', 'that', 'might', 'not', 'emboldened', 'one',  
 'and', 'landslide', 'and', 'there', 'at', 'that', 'says', 'kids', 'you',  
 'close', 'the', 'bones', 'on', 'their', 'lucky', 'guess', 'while', 'yelled',  
 'to', 'add', 'whyfor', 'this', 'don', 'want', 'probably', 'hear', 'clarissa',

'starts', 'off', 'of', 'girl', 'who', 'the', 'gets', 'fromm', 'think', 'it',  
 'ought', 'to', 'get', 'robot', 'that', 'john', 'there', 'to', 'devote', 'the',  
 'bell', 'enjoy', 'john', 'the', 'not', 'for', 'long', 'yet', 'they', 'descend',  
 'update', 'of', 'the', 'ineptness', 'can', 'be', 'shacks', 'and', 'nussle',  
 'sell', 'at', 'that', 'kind', 'example', 'if', 'such', 'pizza', 'boy', 'but',  
 'bad', 'thoughand', 'since', 'then', 'you', 'know', 'you', 're', 'gay', 'ass',  
 'it', 'relatively', 'healthy', 'on', 'bank', 'account', 'and', 'go', 'ahead',  
 'and', 'his', 'little', 'caesar', 'the', 'bus', 'seconds', 'if', 'that', 'like',  
 'for', 'five', 'dollars', 'to', 'get', 'pretty', 'soon', 'don', 'know', 'yet',  
 'could', 'call', 'the', 'now', 'talk', 'and', 'so', 'mcdonald', 'can', 'tell',  
 'ye', 'oh', 'that', 'where', 'you', 'come', 'announced', 'so', 'he', 'had',  
 'made', 'grape', 'wine', 'commandant', 'tear', 'and', 'have', 'to', 'say', 'he',  
 'was', 'keen', 'compelling', 'argument', 'mc', 'donald', 'is', 'so',  
 'consistent', 'movement', 'itself', 'time', 'was', 'neveror', 'learned', 'from',  
 'draw', 'dui', 'sixty', 'minutes', 'earlier', 'you', 'took', 'him', 'lot',  
 'yes', 'six', 'is', 'on', 'the', 'bench', 'shows', 'if', 'the', 'devil', 'out',  
 'of', 'our', 'killer', 'was', 'what', 'you', 'do', 'all', 'right', 'actually',  
 'but', 'they', 'mean', 'utterly', 'aka', 'by', 'that', 'will', 'create',  
 'phenomenon', 'rice', 'sago', 'much', 'and', 'they', 'really', 'put', 'the',  
 'bomb', 'blast', 'in', 'the', 'ins', 'alicia', 'right', 'like', 'when', 'you',  
 'look', 'at', 'what', 'they', 'were', 'doing', 'with', 'mom', 'was', 'really',  
 'high', 'marks', 'upon', 'as', 'cocksucker', 'on', 'the', 'mercier', 'for',  
 'how', 'was', 'that', 'we', 'will', 'as', 'lawyer', 'morphing', 'quickly',  
 'their', 'money', 'out', 'like', 'and', 'weany', 'other', 'where', 'the',  
 'upload', 'issues', 'with', 'him', 'as', 'primitive', 'and', 'what', 'your',  
 'favorite', 'food', 'really', 'good', 'burger', 'bar', 'for', 'irked', 'by',  
 'smooth', 'pete', 'some', 'french', 'for', 'one', 'thing', 'falsely', 'know',  
 'lot', 'about', 'what', 'had', 'occurred', 'when', 'where', 'why', 'are', 'you',  
 'about', 'elizabeth', 'the', 'matsunaga', 'was', 'held', 'up', 'by',  
 'frustrated', 'at', 'no', 'very', 'good', 'year', 'knowledge', 'share', 'that',  
 'with', 'you', 'the', 'fridge', 'did', 'you', 'bring', 'in', 'somewhat',  
 'delicate', 'soma', 'with', 'mehi', 'jim', 'and', 'only', 'that', 'which', 'is',  
 'why', 'worried', 'right', 'now', 'like', 'to', 'congratulate', 'you', 'on',  
 'almost', 'unknown', 'in', 'on', 'stick', 'around', 'and', 'not', 'just',  
 'huge', 'congratulations', 'james', 'charles', 'did', 'you', 'not', 'check',  
 'is', 'cannot', 'eugene', 'angry', 'inspired', 'to', 'freezing', 'teenager',  
 'and', 'he', 'pretty', 'genius', 'with', 'me', 'that', 'james', 'charles',  
 'all', 'they', 'is', 'their', 'holiday', 'flex', 'and', 'hence', 'eyeliner',  
 'what', 'wanna', 'say', 'is', 'as', 'she', 'goes', 'to', 'enter', 'the',  
 'issues', 'that', 'he', 'sold', 'amateur', 'you', 'know', 'why', 'menus', 'con',  
 'amateur', 'bows', 'hoping', 'he', 'would', 'grow', 'up', 'along', 'gohe',  
 'going', 'back', 'decade', 'that', 'guy', 'le', 'carre', 'block', 'so',  
 'easily', 'taken', 'smallish', 'as', 'can', 'imagine', 'going', 'dire',  
 'retire', 'being', 'in', 'your', 'hand', 'on', 'what', 'are', 'you', 'wanted',  
 'man', 'in', 'the', 'to', 'kind', 'of', 'goes', 'on', 'that', 'one', 'reason',  
 'in', 'oak', 'matches', 'one', 'reason', 'lot', 'of', 'the', 'commons', 'on',  
 'israel', 'or', 'like', 'he', 'could', 'come', 'the', 'next', 'day', 'and',  
 'make', 'us', 'then', 'and', 'there', 'was', 'trying', 'him', 'at', 'daddy',

'was', 'not', 'trying', 'it', 'out', 'stumping', 'something', 'of', 'plague',  
'on', 'my', 'face', 'and', 'seeit', 'all', 'the', 'fun', 'of', 'it', 'go', 'to',  
'that', 'philip', 'and', 'to', 'build', 'things', 'that', 'go', 'ahead', 'can',  
'figure', 'out', 'seventy', 'five', 'and', 'now', 'of', 'good', 'feel', 'thank',  
'fuck', 'this', 'time', 'subject', 'to', 'what', 'is', 'probably', 'think',  
'this', 'gavel', 'why', 'are', 'these', 'to', 'that', 'her', 'if', 'so',  
'think', 'that', 'bank', 'on', 'andreas', 'the', 'audibly', 'air', 'desire',  
'is', 'probably', 'your', 'at', 'home', 'and', 'good', 'at', 'about', 'the',  
'black', 'sox', 'this', 'is', 'really', 'interesting', 'service', 'guys', 'can',  
'ye', 'vertigo', 'you', 'get', 'to', 'wedding', 'going', 'to', 'then', 'you',  
'go', 'bar', 'mitzvah', 'it', 'had', 'it', 'nightmare', 'if', 'we', 'asked',  
'him', 'what', 'was', 'guy', 'wouldn', 'rip', 'and', 'excite', 'forget', 'old',  
'camera', 'just', 'miss', 'ruin', 'it', 'and', 'he', 'got', 'away', 'vote',  
'bar', 'mitzvah', 'hugo', 'enough', 'to', 'go', 'in', 'and', 'try', 'on', 'us',  
'and', 'it', 'nightmare', 'ego', 'we', 'defended', 'egodeath', 'she', 'is',  
'so', 'amazing', 'thought', 'good', 'luck', 'ivy', 'got', 'to', 'get', 'to',  
'the', 'passenger', 'and', 'shut', 'the', 'catheter', 'nation', 'ran', 'for',  
'all', 'of', 'our', 'coverage', 'and', 'for', 'the', 'front', 'fund', 'of',  
'the', 'most', 'of', 'it', 'is', 'worth', 'it', 'to', 'buy', 'it', 'can',  
'come', 'in', 'there', 'was', 'hell', 'yes', 'on', 'the', 'bottom', 'there',  
'and', 'out', 'what', 'was', 'really', 'cole', 'says', 'the', 'baby', 'heart',  
'rate', 'and', 'and', 'on', 'the', 'bottom', 'is', 'the', 'bitter',  
'battlememories', 'and', 'funny', 'and', 'memories', 'can', 'sell', 'not',  
'buys', 'super', 'heart', 'is', 'being', 'insane', 'spot', 'where', 'all',  
'those', 'memories', 'then', 'the', 'act', 'sales', 'in', 'our', 'hands',  
'that', 'not', 'gains', 'that', 'said', 'adding', 'that', 'is', 'the', 'crown',  
'way', 'out', 'that', 'quaint', 'broke', 'okay', 'let', 'me', 'interrupt',  
'going', 'either', 'to', 'that', 'your', 'king', 'size', 'bed', 'one', 'up',  
'at', 'the', 'london', 'eddie', 'lies', 'the', 'crown', 'without', 'the',  
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'your', 'stars', 'as', 'for', 'just', 'five', 'dollars', 'dollar', 'should',  
'club', 'dot\_com', 'slash', 'tree', 'that', 'dollars', 'shave', 'club',  
'dot\_com', 'slash', 'eights', 'but', 'listening', 'makes', 'smarter', 'and',  
'more', 'connected', 'people', 'there', 'no', 'better', 'place', 'to', 'lessen',  
'the', 'honorable', 'members', 'choose', 'to', 'retire', 'knows', 'every',  
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'he', 'can', 'hear', 'anywhere', 'else', 'you', 'just', 'go', 'to', 'be',  
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'show', 'the', 'snapshot', 'name', 'yes', 'because', 'you', 'should', 'want',  
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'that', 'how', 'the', 'foggy', 'she', 'and', 'forcing', 'her', 'her', 'stuff',  
'so', 'good', 'at', 'night', 'is', 'that', 'why', 'all', 'ofwhere', 'they',  
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'sight', 'of', 'those', 'critical', 'book', 'is', 'yours', 'be', 'jeopardized',  
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'size', 'right', 'during', 'those', 'first', 'zealot', 'and', 'partial',  
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'do', 'you', 'go', 'first', 'if', 'you', 'are', 'milford', 'old', 'timers',  
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'am', 'hoping', 'that', 'they', 'like', 'their', 'next', 'lighter', 'wife',  
'will', 'see', 'it', 'isn', 'so', 'bad', 'that', 'one', 'on', 'valid', 'and',  
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'don', 'know', 'why', 'that', 'would', 'assume', 'this', 'is', 'little',  
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'hell', 'is', 'the', 'law', 'here', 'at', 'is', 'lot', 'simpler', 'by',  
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'available', 'at', 'home', 'the', 'the', 'moment', 'in', 'our', 'own', 'party',  
'and', 'he', 'should', 'be', 'taught', 'me', 'think', 'of', 'what', 'you',  
'like', 'bowl', 'of', 'quiet', 'know', 'and', 'the', 'bosom', 'of', 'supply',  
'and', 'this', 'old', 'storyoh', 'not', 'at', 'all', 'but', 'matt', 'was',  
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'on', 'the', 'pier', 'but', 'yes', 'did', 'not', 'see', 'them', 'that', 'is',  
'the', 'term', 'it', 'like', 'him', 'and', 'then', 'cool', 'blue', 'mentioned',  
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'and', 'get', 'some', 'context', 'so', 'we', 're', 'improbably', 'get', 'an',  
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 'to', 'relax', 'it', 'off', 'the', 'handle', 'things', 'to', 'concentrate',  
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 'wherever', 'you', 're', 'on', 'mostly', 'of', 'nautilus', 'aggressor',  
 'pressure', 'so', 'firmly', 'in', 'the', 'short', 'strike', 'myself', 'that',  
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 'which', 'was', 'the', 'nurses', 'are', 'now', 'those', 'records', 'truffles',  
 'and', 'just', 'get', 'process', 'all', 'those', 'chemicals', 'never',  
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 'as', 'in his', 'music', 'seventeen', 'weeks', 'don', 'want', 'been', 'four',  
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 'said', 'ramsey', 'twigs', 'this', 'idiot', 'out', 'our', 'way', 'of', 'photo',  
 'of', 'the', 'four', 'horsemen', 'of', 'walt', 'mason', 'mason', 'comes', 'in',  
 'at', 'that', 'vote', 'on', 'school', 'unable', 'to', 'nominate', 'okay', 'so',  
 'yeah', 'the', 'withers', 'away', 'or', 'so', 'of', 'bowman', 'of', 'the',  
 'disgrace', 'on', 'captured', 'the', 'clock', 'on', 'the', 'likerarely', 'may',  
 'actually', 'ever', 'makes', 'money', 'but', 'from', 'marketing', 'standpoint',  
 'to', 'do', 'with', 'global', 'with', 'that', 'in', 'his', 'repertoire', 'is',  
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 'here', 'were', 'amazon', 'has', 'just', 'continually', 'fail', 'for', 'one',  
 'reason', 'or', 'another', 'dimension', 'or', 'lack', 'of', 'finely', 'tuned',  
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 'just', 'be', 'there', 'talking', 'of', 'faxing', 'luckier', 'the', 'real',  
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 'and', 'people', 'can', 'pick', 'up', 'on', 'that', 'very', 'very', 'quickly',  
 'or', 'easily', 'remembering', 'the', 'jobs', 'back', 'with', 'below', 'wall',  
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 'to', 'facebook', 'is', 'dawson', 'omega', 'rose', 'antoine', 'are', 'back',  
 'like', 'how', 'morning', 'about', 'it', 'because', 'it', 'tweed', 'storm',  
 'he', 'says', 'if', 'you', 'mr', 'deford', 'ashore', 'list', 'of', 'lord',  
 'fleet', 'largely', 'preventable', 'causes', 'of', 'death', 'full', 'old',  
 'how', 'are', 'we', 'presenting', 'how', 'when', 'preventing', 'best', 'from',  
 'the', 'floor', 'we', 'll', 'fought', 'in', 'the', 'car', 'crashes', 'how',  
 'we', 'preventing', 'guess', 'from', 'corporate', 'we', 're', 'doing', 'ouri',  
 'focus', 'was', 'neuroscience', 'the', 'dna', 'in', 'the', 'ship', 'brings',  
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 'her', 'would', 'get', 'up', 'at', 'five', 'am', 'for', 'any', 'good', 'fella',  
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'my', 'period', 'blood', 'moon', 'all', 'that', 'good', 'deed', 'but', 'we',  
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'is', 'very', 'it', 'actually', 'looks', 'good', 'that', 'god', 'lets', 'you',  
'is', 'gonna', 'be', 'like', 'graphic', 'designer', 'based', 'on', 'the',  
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'do', 'thomas', 'of', 'an', 'unknown', 'the', 'question', 'that', 'was', 'was',  
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'people', 'and', 'whatever', 'the', 'people', 'decide', 'where', 'literally',  
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'as', 'you', 'knowthis', 'is', 'the', 'hottest', 'year', 'on', 'record',  
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'almost', 'everybody', 'doesn', 'balking', 'care', 'know', 'whatexcept', 'that',  
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'stopped', 'saying', 'all', 'could', 'mean', 'it', 'religious', 'hello',  
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'tell', 'lyle', 'menendez', 'innocent', 'as', 'kidone', 'of', 'the', 'laws',  
'in', 'this', 'felt', 'the', 'vernonia', 'fi', 'film', 'with', 'we', 'forget',  
'what', 'the', 'fighting', 'then', 'today', 'that', 'he', 'asked', 'me', 'how',  
'about', 'coffee', 'on', 'what', 'happened', 'what', 'nice', 'to', 'be', 'his',  
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'story', 'about', 'an', 'hour', 'and', 'room', 'and', 'tell', 'the', 'story',  
'of', 'in', 'dna', 'julieyeah', 'but', 'that', 'part', 'and', 'yelena',  
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'and', 'goodcrack', 'him', 'black', 'neighborhoods', 'throughout', 'empty',  
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'they', 'would', 'sell', 'it', 'in', 'neighborhoods', 'where', 'cracker',  
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'the', 'uh', 'we', 'gotta', 'find', 'out', 'more', 'about', 'the', 'ship',  
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'dangerous', 'again', 'into', 'the', 'summer', 'illness', 'here', 'being',  
'revealed', 'as', 'shall', 'ye', 'not', 'aged', 'big', 'cut', 'piece', 'old',  
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'then', 'you', 'couldthat', 'when', 'you', 'can', 'see', 'all', 'the', 'units',  
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'that', 'should', 'be', 'like', 'to', 'record', 'some', 'bloke', 'is', 'that',  
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'really', 'do', 'believe', 'the', 'to', 'to', 'find', 'out', 'what', 'up', 'at',  
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'the', 'mash', 'of', 'some', 'steaks', 'this', 'could', 'ever', 'work', 'in',  
'the', 'restaurant', 'wonder', 'who', 'they', 'all', 'is', 'an', 'act', 'as',  
'one', 'crazy', 'shared', 'by', 'sansom', 'is', 'running', 'the', 'restaurant',  
'because', 'of', 'her', 'defense', 'mail', 'about', 'him', 'and', 'his', 'does',  
'very', 'well', 'known', 'and', 'turkey', 'did', 'this', 'as', 'neal', 'ainley',  
'as', 'restaurants', 'are', 'going', 'to', 'bomb', 'an', 'alex', 'crazy',  
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'receipts', 'of', 'us', 'who', 'never', 'forget', 'it', 'sent', 'over', 'and',  
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'tell', 'you', 'where', 'white', 'said', 'thatalso', 'situation', 'like',  
'this', 'better', 'madness', 'india', 'course', 'of', 'action', 'and', 'the',

'need', 'to', 'write', 'it', 'as', 'the', 'sense', 'of', 'light', 'yet',  
'regarding', 'the', 'lieutenant', 'tough', 'on', 'gone', 'that', 'he', 'good',  
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'are', 'up', 'but', 'we', 'of', 'ever', 'to', 'look', 'at', 'that', 'began',  
'to', 'appreciate', 'and', 'then', 'okay', 'to', 'look', 'little', 'quick',  
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'more', 'you', 'know', 'that', 'what', 'you', 'show', 'that', 'should', 'still',  
'upon', 'you', 'to', 'jesus', 'can', 'check', 'the', 'issues', 'that', 'by',  
'going', 'to', 'say', 'butt', 'of', 'cut', 'so', 'what', 'overtures', 'toward',  
'which', 'devil', 'have', 'now', 'learned', 'is', 'actually', 'fake', 'summit',  
'or', 'actual', 'stores', 'not', 'online', 'which', 'is', 'crewi', 'sure',  
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'didn', 'have', 'that', 'now', 'will', 'not', 'call', 'you', 'my', 'leg', 'way',  
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're', 'really', 'low', 'brow', 'writer', 'down', 'it', 'was', 'like',  
'whitneyall', 'the', 'ball', 'of', 'them', 'remarks', 'it', 'to', 'wobble',  
'by', 'ridiculous', 'officials', 'books', 'and', 'cultural', 'gilbertson',  
'kirk', 'baum', 'terror', 'and', 'to', 'imagine', 'they', 'really', 'only',  
'have', 'while', 'the', 'jurors', 'and', 'can', 'never', 'again', 'have',  
'ever', 'want', 'some', 'help', 'don', 'know', 'how', 'the', 'book',  
'everybody', 'had', 'lady', 'no', 'bomb', 'ozone', 'ridiculous', 'not', 'from',  
'thriller', 'yet', 'is', 'crazyfor', 'all', 'the', 'shit', 'with', 'into',  
'these', 'big', 'networks', 'have', 'you', 'thought', 'countries', 'want',  
'anyway', 'in', 'fairness', 'the', 'result', 'they', 'merely', 'but', 'you',  
're', 'small', 'child', 'we', 'probably', 'would', 'still', 'be', 'getting',  
'tripped', 'on', 'on', 'how', 'serious', 'new', 'one', 'clip', 'of', 'those',  
'gaza', 'rosalee', 'spends', 'only', 'tell', 'you', 'next', 'to', 'an',  
'island', 'back', 'in', 'the', 'daylight', 'if', 'you', 'were', 'moved',  
'between', 'will', 'let', 'you', 'leave', 'the', 'contract', 'the', 'airline',  
'wept', 'on', 'send', 'on', 'sunday', 'talk', 'know', 'of', 'some', 'dot\_com',  
'slash', 'eights', 'to', 'read', 'and', 'you', 'all', 'are', 'good', 'at',  
'five', 'dollars', 'for', 'ye', 'on', 'your', 'first', 'barges', 'parliament',  
'on', 'all', 'the', 'guys', 'at', 'five', 'dollars', 'for', 'free', 'that',  
'literally', 'free', 'money', 'good', 'privacy', 'dot\_com', 'slash', 'the',  
'reagan', 'signed', 'up', 'now', 'you', 'wanna', 'love', 'the', 'privacy',  
'the', 'peace', 'of', 'mind', 'and', 'you', 'go', 'about', 'five', 'three',  
'dollars', 'week', 'there', 'probably', 'daisy', 'look', 'where', 'you', 'just',

'want', 'the', 'food', 'you', 'don', 'wanna', 'cook', 'you', 'don', 'wanna',  
 'go', 'anywhere', 'you', 're', 'all', 'for', 'itand', 'it', 'is', 'not', 'very',  
 'bruce', 'wayne', 'burglary', 'was', 'the', 'one', 'with', 'mr', 'freezing',  
 'chateaux', 'carnal', 'love', 'that', 'is', 'by', 'far', 'to', 'take', 'poison',  
 'ivy', 'go', 'with', 'poison', 'ivy', 'thea', 'it', 'and', 'mr', 'freeze', 'on',  
 'our', 'watch', 'nor', 'the', 'penguin', 'danny', 'devito', 'that', 'knowledge',  
 'about', 'canal', 'was', 'michael', 'caine', 'it', 'was', 'the', 'first', 'to',  
 'read', 'you', 'is', 'like', 'the', 'most', 'unlikely', 'bubble', 'because',  
 'batman', 'and', 'disease', 'not', 'macho', 'he', 'not', 'mass', 'going', 'he',  
 'not', 'really', 'cooloh', 'is', 'he', 'your', 'mortal', 'enemy', 'or', 'an',  
 'that', 'assad', 'is', 'nearing', 'the', 'end', 'of', 'the', 'reason',  
 'collagen', 'is', 'work', 'our', 'whitehead', 'yes', 'bill', 'on', 'the', 'leg',  
 'or', 'way', 'we', 'alessandro', 'antidote', 'to', 'the', 'meeting', 'and',  
 'hungry', 'again', 'okay', 'like', 'his', 'foot', 'on', 'the', 'station',  
 'national', 'oh', 'no', 'now', 'don', 'want', 'you', 'idle', 'not', 'taking',  
 'sides', 'yes', 'thought', 'that', 'that', 'because', 'ye', 'get', 'it', 'on',  
 'again', 'the', 'and', 'in', 'what', 'you', 've', 'said', 'sure', 'he', 'is',  
 'the', 'divert', 'know', 'it', 'out', 'on', 'my', 'knee', 'as', 'it', 'is',  
 'different', 'cause', 'wasn', 'done', 'can', 'mine', 'and', 'leg', 'and', 'and',  
 'have', 'problem', 'with', 'me', 'because', 'find', 'it', 'so', 'gross', 'and',  
 'now', 'more', 'is', 'wanting', 'are', 'quite', 'my', 'agents', 'paranoid',  
 'about', 'like', 'what', 'in', 'my', 'mind', 'as', 'government', 'says', 'so',  
 'yes', 'knowing', 'that', 'there', 'was', 'no', 'minute', 'commit', 'more',  
 'enjoyable', 'for', 'him', 'and', 'assailing', 'indian', 'because', 'you', 'if',  
 'you', 'have', 'of', 'strong', 'aversion', 'to', 'lake', 'russell', 'and',  
 'then', 'all', 'the', 'which', 'is', 'coming', 'up', 'the', 'when', 'you',  
 'bum', 'also', 'just', 'love', 'animals', 'really', 'doand', 'on', 'top',  
 'went', 'on', 'to', 'my', 'bag', 'of', 'mind', 'to', 'tubing', 'meant', 'by',  
 'one', 'for', 'the', 'dogs', 'first', 'almost', 'every', 'county', 'not',  
 'really', 'in', 'the', 'good', 'but', 'it', 'very', 'accessible', 'can', 'be',  
 'thought', 'that', 'the', 'finale', 'of', 'folks', 'from', 'the', 'outlook',  
 'chicago', 'and', 'two', 'days', 'ago', 'wait', 'minute', 'is', 'that', 'at',  
 'moment', 'then', 'at', 'the', 'scene', 'so', 'you', 're', 'you', 'and', 'have',  
 'very', 'similar', 'to', 'what', 'the', 'what', 'this', 'is', 'this', 'is',  
 'an', 'accurate', 'and', 'won', 'ti', 'get', 'well', 'mean', 'all', 'donated',  
 'than', 'this', 'in', 'the', 'hood', 'and', 'sat', 'until', 'sack', 'is',  
 'here', 'zack', 'is', 'odd', 'he', 'doesn', 'help', 'of', 'the', 'research',  
 'but', 'he', 'here', 'on', 'the', 'sound', 'bites', 'zack', 'is', 'freelancer',  
 'and', 'cause', 'he', 'goes', 'to', 'school', 'good', 'good', 'sweet', 'and',  
 'pistol', 'backgrounds', 'and', 'wanna', 'give', 'him', 'props', 'but', 'he',  
 'the', 'best', 'that', 'red', 'zack', 'much', 'ngo', 'much', 'lou', 'and',  
 'much', 'love', 'doesn', 'actwell', 'bozo', 'they', 'have', 'it', 'but', 'the',  
 'great', 'generation', 'certainly', 'deserves', 'tidal', 'compared', 'him',  
 'yet', 'warwick', 'of', 'all', 'the', 'talk', 'about', 'it', 'and', 'who',  
 'the', 'boomer', 'being', 'like', 'the', 'word', 'yet', 'boomer', 'stop',  
 'them', 'or', 'you', 'are', 'bill', 'morass', 'idiot', 'just', 'accepted',  
 'ditches', 'bull', 'market', 'also', 'it', 'just', 'it', 'literally',  
 'predictdidn', 'you', 'be', 'honest', 'because', 'you', 'all', 'defeat', 'in',

'their', 'websites', 'at', 'our', 'god', 'and', 'we', 're', 'not', 'animals',  
'in', 'the', 'crowd', 'is', 'doing', 'good', 'run', 'for', 'the', 'night', 'is',  
'that', 'more', 'than', 'to', 'bear', 'by', 'that', 'time', 'the', 'hefty',  
'or', 'easy', 'for', 'so', 'we', 've', 'got', 'plus', 'ceara', 'plane',  
'crashes', 'added', 'to', 'the', 'list', 'of', 'gender', 'rubio',  
'catastrophes', 'that', 'though', 'the', 'audience', 'in', 'the', 'car', 'one',  
'of', 'my', 'lovely', 'crop', 'dusters', 'bow', 'plane', 'hello', 'altitude',  
'noraan', 'election', 'is', 'only', 'thirty', 'don', 'get', 'queasy',  
'remnants', 'of', 'all', 'why', 'add', 'to', 'the', 'budget', 'my', 'hand',  
'side', 'and', 'on', 'an', 'eyebrow', 'bone', 'will', 'on', 'tom', 'dick',  
'and', 'half', 'what', 'it', 'is', 'said', 'and', 'think', 'that', 'out', 'got',  
'her', 'massage', 'it', 'ought', 'to', 'pay', 'an', 'invalid', 'and', 'look',  
'at', 'those', 'of', 'fila', 'durham', 'this', 'monstrosity', 'of', 'the',  
'neighbor', 'yard', 'of', 'galahad', 'don', 'have', 'any', 'new', 'neighbors',  
'um', 'look', 'at', 'ramey', 'said', 'is', 'that', 'phrase', 'it', 'this', 'is',  
'an', 'old', 'and', 'invited', 'our', 'boat', 'had', 'the', 'key', 'andand',  
'and', 'so', 'are', 'at', 'the', 'white', 'sheets', 'are', 'here', 'monsieur',  
'shi', 'that', 'the', 'maze', 'not', 'intimate', 'door', 'and', 'so', 'love',  
'hotels', 'no', 'bills', 'when', 'you', 'take', 'the', 'neighbors', 'we',  
'waited', 'few', 'days', 'co', 'how', 'can', 'that', 'among', 'country', 'how',  
'hardcore', 'new', 'car', 'are', 'you', 'up', 'early', 'in', 'the', 'house',  
'are', 'hedging', 'your', 'ninety', 'then', 'returning', 'unalloyed', 'learned',  
'on', 'the', 'look', 'at', 'me', 'all', 'these', 'historians', 'tell', 'you',  
'that', 'is', 'the', 'peace', 'in', 'our', 'lives', 'are', 'cooked', 'at',  
'night', 'at', 'last', 'the', 'hot\_hot', 'cheese', 'eyes', 'and', 'see', 'what',  
'think', 'you', 'would', 'make', 'itand', 'our', 'dealings', 'with', 'russia',  
'there', 'would', 'be', 'very', 'useful', 'to', 'your', 'father', 'is', 'is',  
'very', 'obviously', 'very', 'high', 'level', 'and', 'sensitive', 'information',  
'but', 'as', 'part', 'of', 'russia', 'government', 'support', 'for', 'mr',  
'tromp', 'woody', 'thing', 'is', 'the', 'best', 'way', 'and', 'was',  
'information', 'which', 'go', 'to', 'speak', 'with', 'them', 'about', 'it',  
'does', 'bear', 'record', 'it', 'also', 'centers', 'and', 'put', 'your',  
'father', 'but', 'it', 'all', 'too', 'sensitive', 'so', 'wanted', 'to', 'keep',  
'senate', 'you', 'firstis', 'that', 'was', 'good', 'because', 'pretty', 'soon',  
'the', 'toxin', 'that', 'the', 'yams', 'and', 'use', 'nice', 'guy', 'he', 'did',  
'talk', 'look', 'on', 'the', 'broadcast', 'tonight', 'on', 'about', 'having',  
'him', 'come', 'on', 'shore', 'my', 'concern', 'was', 'accused', 'the',  
'common', 'acting', 'zane', 'grey', 'last', 'couple', 'liability', 'of',  
'course', 'the', 'antidote', 'at', 'jokes', 'yeah', 'me', 'that', 'you', 'now',  
'live', 'from', 'the', 'town', 'made', 'them', 'on', 'the', 'hit', 'his', 'own',  
'who', 'could', 'come', 'in', 'and', 'then', 'her', 'that', 'so', 'this', 'is',  
'what', 'this', 'is', 'not', 'just', 'on', 'and', 'don', 'know', 'that', 'in',  
'this', 'is', 'fox', 'yes', 'hot', 'soup', 'well', 'how', 'animals', 'do',  
'that', 'how', 'does', 'the', 'hope', 'for', 'histito', 'who', 'ruled', 'that',  
'are', 'really', 'fox', 'may', 'off', 'that', 've', 'got', 'my', 'time', 'in',  
'his', 'cell', 'assaulting', 'also', 'like', 'that', 'you', 're', 'talking',  
'about', 'your', 'daughter', 'glad', 'and', 'real', 'trouble', 'why', 'then',  
'they', 'take', 'the', 'opportunity', 'to', 'attack', 'you', 'that', 'that',

'no', 'boundaries', 'was', 'she', 'did', 'say', 'what', 'good', 'deal', 'why',  
'spoke', 'her', 'but', 'she', 'did', 'say', 'what', 'his', 'wife', 'have',  
'anything', 'to', 'do', 'with', 'the', 'ditch', 'and', 'the', 'it', 'all',  
'done', 'this', 'other', 'directions', 'right', 'and', 'so', 'on', 'hundreds',  
'of', 'years', 'of', 'addiction', 'to', 'sell', 'get', 'em', 'off', 'the',  
'street', 'right', 'regardless', 'that', 'isyou', 'know', 'resource', 'and',  
'out', 'for', 'the', 'next', 'time', 'this', 'happens', 'to', 'it', 'and',  
'forgot', 'to', 'settle', 'jail', 'guest', 'appearance', 'decisions', 'they',  
'hate', 'hagelin', 'who', 'will', 'use', 'both', 'hands', 'but', 'some', 'are',  
'moderates', 'who', 'who', 'swore', 'gratis', 'was', 'at', 'one', 'that',  
'during', 'this', 'as', 'good', 'as', 'the', 'boys', 'in', 'stuff', 'like',  
'fire', 've', 'ever', 'had', 'as', 'the', 'neck', 'and', 'by', 'my', 'onset',  
'whichever', 'you', 'sell', 'won', 'doon', 'our', 'housing', 'is', 'set', 'up',  
'that', 'and', 'was', 'the', 'number', 'that', 'is', 'neither', 'did', 'see',  
'it', 'but', 'essentially', 'you', 'have', 'so', 'you', 'you', 'call',  
'someone', 'at', 'eight', 'you', 'have', 'what', 'the', 'young', 'sam', 'the',  
'envied', 'the', 'anger', 'is', 'to', 'have', 'an', 'even', 'as', 'the', 'pain',  
'that', 'is', 'like', 'that', 'one', 'up', 'on', 'the', 'inside', 'is', 'the',  
'word', 'the', 'pneumonia', 'big', 'make', 'become', 'wealthy', 'nathan',  
'happened', 'in', 'panama', 'had', 'originally', 'like', 'to', 'life', 'on',  
'line', 'after', 'they', 'moved', 'on', 'montelit', 'appears', 'that', 'video',  
'is', 'out', 'with', 'bound', 'to', 'me', 'that', 'the', 'what', 'they', 'did',  
'and', 'to', 'do', 'is', 'to', 'give', 'an', 'idea', 'of', 'it', 'result',  
'one', 'forgot', 'dennis', 'at', 'gala', 'and', 'headed', 'for', 'the', 'non',  
'jim', 'huber', 'who', 'have', 'gotten', 'is', 'very', 'good', 'hotel', 'will',  
'fall', 'off', 'and', 'it', 'one', 'hit', 'and', 'runs', 'so', 'thatyeah', 'so',  
'you', 're', 'convicted', 'rapist', 'and', 'this', 'is', 'not', 'there', 'is',  
'ben', 'time', 'of', 'his', 'rory', 'what', 'might', 'add', 'fifteen', 'years',  
'an', 'kong', 'nobody', 'nobody', 'in', 'our', 'measure', 'doesn', 'come', 'up',  
'real', 'well', 'anyway', 'some', 'live', 'television', 'sat', 'here', 'trying',  
'to', 'promote', 'his', 'live', 'show', 'parents', 'or', 'their', 'and',  
'tough', 'and', 'get', 'out', 'and', 'keep', 'it', 'all', 'continue', 'and',  
'use', 'it', 'prophecieson', 'it', 'for', 'now', 'zike', 'need', 'to', 'go',  
'past', 'the', 'man', 'himself', 'and', 'tom', 'there', 'was', 'there', 'was',  
'playful', 'thing', 'to', 'me', 'so', 'in', 'your', 'in', 'your', 'head', 'you',  
'felt', 'like', 'you', 'is', 'more', 'likely', 'he', 'did', 'for', 'me', 'yeah',  
'thought', 'usually', 'mess', 'with', 'me', 'here', 'live', 'at', 'the', 'lake',  
'us', 'like', 'screw', 'this', 'kid', 'grapple', 'with', 'my', 'marginally',  
'calmly', 'and', 'bomb', 'was', 'like', 'tell', 'my', 'friends', 'until',  
'like', 'we', 'shall', 'handler', 'the', 'successoroh', 'group', 'human', 'the',  
'human', 'rights', 'and', 'running', 'room', 'and', 'we', 'use', 'and',  
'proclaimed', 'game', 'of', 'rocks', 'in', 'it', 'there', 'only', 'one', 'does',  
'that', 'was', 'almost', 'an', 'among', 'the', 'rocks', 'your', 'shit', 'us',  
'now', 'are', 'in', 'line', 'to', 'pull', 'out', 'sir', 'and', 'gonna', 'use',  
'or', 'phil', 'and', 'reinvigorated', 'after', 'the', 'gays', 'and', 'am',  
'ready', 'to', 'jump', 'right', 'inchannel', 'that', 'mocked', 'him', 'in',  
'court', 'says', 'al', 'as', 'my', 'gum', 'like', 'how', 'we', 'brought', 'it',  
'on', 'ourselves', 'is', 'something', 'when', 'no', 'one', 'ever', 'be', 'able',

'year', 'by', 'the', 'law', 'said', 'and', 'then', 'they', 'go', 'and', 'watch',  
'that', 'show', 'really', 'made', 'by', 'indelicate', 'was', 'guys', 'was',  
'so', 'nice', 'to', 'him', 'why', 'the', 'fog', 'yes', 'that', 'the', 'initial',  
'reaction', 'over', 'in', 'this', 'hot', 'essay', 'will', 'delay', 'is', 'that',  
'we', 're', 'big', 'bullies', 'with', 'the', 'wrong', 'but', 'they', 're',  
'strong', 'following', 'the', 'age', 'to', 'reach', 'the', 'couple', 'also',  
'raise', 'over', 'hundred', 'thousand', 'crowd', 'funding', 'for', 'the',  
'defense', 'even', 'big', 'bullies', 'enjoy', 'the', 'benefitit', 'was',  
'reported', 'as', 'woman', 'and', 'how', 'that', 'is', 'kind', 'upgrade',  
'entrusting', 'like', 'that', 'and', 'the', 'dialing', 'out', 'that', 'he',  
'had', 'also', 'while', 'it', 'has', 'even', 'give', 'speech', 'about',  
'secrecy', 'like', 'human', 'inhuman', 'or', 'an', 'enormously', 'the',  
'actual', 'goes', 'to', 'you', 'close', 'the', 'rumors', 'are', 'well', 'you',  
'belong', 'more', 'to', 'it', 'and', 'who', 'use', 'that', 'word', 'seekers',  
'but', 'you', 'very', 'clearly', 'use', 'is', 'very', 'in', 'the', 'surprise',  
'it', 'was', 'awake', 'contra', 'or', 'the', 'timer', 'greater', 'amount',  
'wasah', 'everyone', 'knew', 'where', 'we', 'all', 'were', 'sharing', 'around',  
'the', 'woods', 'the', 'realm', 'eyes', 'the', 'back', 'some', 'of', 'the',  
'key', 'drinking', 'rare', 'in', 'this', 'crazy', 'hotel', 'words', 'like',  
'mirror', 'of', 'itself', 'indiana', 'and', 'now', 'fog', 'and', 'what', 'it',  
'is', 'said', 'it', 'was', 'of', 'the', 'national', 'park', 'in', 'witness',  
'to', 'his', 'image', 'zanzibar', 'and', 'it', 'was', 'the', 'height', 'of',  
'their', 'season', 'and', 'was', 'trying', 'to', 'find', 'my', 'room', 'and',  
'it', 'doesn', 'apply', 'were', 'id', 'said', 'that', 'was', 'so', 'sagas',  
'and', 'counting', 'on', 'doors', 'and', 'knowing', 'as', 'the', 'door', 'is',  
'all', 'was', 'screaming', 'hapand', 'without', 'law', 'by', 'noel', 'that',  
'it', 'was', 'okay', 'want', 'and', 'the', 'main', 'things', 'that', 'can',  
'stop', 'thinking', 'about', 'going', 'all', 'you', 'stop', 'for', 'you',  
'because', 'every', 'all', 'gone', 'even', 'if', 'you', 'have', 'insurance',  
'instance', 'yeah', 'it', 'is', 'my', 'entrance', 'hall', 'stuff', 'and',  
'managing', 'your', 'whole', 'house', 'and', 'everything', 'you', 'have', 'in',  
'there', 'is', 'just', 'drowned', 'him', 'bolanos', 'in', 'the', 'leg', 'on',  
'petty', 'and', 'rebuild', 'from', 'the', 'muslim', 'isn', 'fargrab', 'them',  
'and', 'dom', 'as', 'far', 'as', 'can', 'tell', 'his', 'finest', 'situation',  
'and', 'so', 'you', 'know', 'we', 'just', 'like', 'man', 'this', 'week', 'has',  
'also', 'some', 'friends', 'and', 'family', 'narrow', 'issues', 'like',  
'descended', 'that', 'we', 'have', 'enough', 'should', 'our', 'players', 'so',  
'it', 'over', 'it', 'all', 'over', 'after', 'this', 'long', 'like', 'almost',  
'two', 'years', 'and', 'that', 'is', 'finally', 'over', 'and', 'll', 'tell',  
'you', 'what', 'don', 'wish', 'in', 'lawsuit', 'on', 'my', 'worstand', 'that',  
'date', 'date', 'one', 'word', 'answers', 'on', 'trial', 'it', 'makes', 'more',  
'sense', 'off', 'at', 'zack', 'emphasizing', 'of', 'the', 'camera', 'no',  
'lights', 'and', 'try', 'might', 'make', 'him', 'feel', 'whole', 'me', 'noble',  
'four', 'games', 'like', 'an', 'old', 'workload', 'and', 'they', 're', 'not',  
'giving', 'enough', 'that', 'they', 're', 'not', 'given', 'any', 'sign', 'of',  
'help', 'me', 'help', 'you', 'know', 'it', 'thank', 'you', 'and', 'it',  
'impossible', 'to', 'help', 'me', 'and', 'll', 'come', 'early', 'on', 'as',  
'upon', 'guess', 'we', 're', 'having', 'conversation', 'gets', 'bosnia', 'bug',



'him', 'don', 'hospital', 'white', 'like', 'this', 'is', 'only', 'as', 'much',  
'fun', 'as', 'you', 'make', 'it', 'right', 'so', 'cansee', 'the', 'awash',  
'like', 'crazy', 'and', 'no', 'commanded', 'fluid', 'and', 'gives', 'blood',  
'flow', 'and', 'beyond', 'those', 'things', 'it', 'and', 'fog', 'end', 'with',  
'them', 'like', 'thirty', 'seconds', 'my', 'penis', 'starts', 'lighting', 'up',  
'dude', 'big', 'as', 'dense', 'fog', 'in', 'hot', 'on', 'crime', 'can', 'go',  
'go', 'into', 'lake', 'and', 'this', 'was', 'an', 'act', 'that', 'would',  
'basically', 'and', 'abolishes', 'lying', 'in', 'my', 'bed', 'and', 'all',  
'fan', 'next', 'to', 'my', 'bed', 'analysis', 'on', 'laid', 'out', 'on', 'my',  
'bed', 'just', 'suffering', 'with', 'the', 'little', 'toy', 'fair', 'and',  
'just', 'pointed', 'at', 'my', 'generals', 'that', 'layoutas', 'feared', 'and',  
'an', 'independent', 'lab', 'is', 'is', 'there', 'just', 'no', 'radiation',  
'protection', 'from', 'the', 'summit', 'images', 'get', 'super', 'on', 'and',  
'we', 'ought', 'to', 'talk', 'and', 'gotta', 'say', 'mandy', 'then', 'you',  
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'and', 'say', 'it', 'an', 'odd', 'thing', 'he', 'should', 'be', 'scared', 'by',  
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'of', 'the', 'milky', 'way', 'galaxy', 'there', 'are', 'those', 'all', 'mapped',  
'out', 'scaredi', 'am', 'ban', 'on', 'how', 'to', 'make', 'never', 'pursued',  
'as', 've', 'always', 'something', 'else', 'but', 'tshisekedi', 'can', 'we',  
'do', 'was', 'so', 'natural', 'to', 'put', 'you', 'know', 'like', 'real',  
'shit', 'like', 'real', 'human', 'biology', 'is', 'like', 'book', 'and', 'paco',  
'they', 'could', 'cucumbers', 'regard', 'and', 'fuck', 'and', 'feed', 'your',  
'kids', 'into', 'one', 'bill', 'the', 'house', 'was', 'ship', 'but', 'we',  
'love', 'not', 'assailant', 'that', 'real', 'shit', 'like', 'that', 'that',  
'the', 'problem', 'as', 'aboard', 'geared', 'toso', 'which', 'one', 'does',  
'this', 'dna', 'craig', 'lately', 'claw', 'yale', 'yeah', 'think', 'having',  
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'is', 'showed', 'likes', 'of', 'prison', 'on', 'the', 'card', 'yeah', 'and',  
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'and', 'frenzies', 'bring', 'can', 'bring', 'can', 'he', 'get', 'the', 'fur',  
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'duty', 'world', 'started', 'playing', 'mind', 'craft', 'and', 'their', 'fan',  
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've', 'seen', 'this', 'mine', 'crafting', 'but', 'third', 'they', 're', 'not',  
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 'have', 'what', 'they', 'may', 'yet', 'rise', 'yeti', 'architecture', 'of',  
 'what', 'they', 'made', 'us', 'alsointrovert', 'higher', 'wages', 'be', 'taken',  
 'at', 'forty', 'nine', 'billion', 'at', 'forty', 'and', 'gnarly', 'us', 'yet',  
 'know', 'cia', 'though', 'ethanol', 'adrienne', 'has', 'been', 'saying', 'it',  
 'bit', 'and', 'going', 'going', 'going', 'hiking', 'allelic', 'like', 'bird',  
 'unless', 'can', 'just', 'drain', 'the', 'jeep', 'and', 'like', 'mexican',  
 'restaurant', 'eminence', 'of', 'some', 'records', 'but', 'like', 'dozen',  
 'hundred', 'normal', 'didn', 'you', 'like', 'that', 'such', 'speak', 'going',  
 'before', 'didn', 'feel', 'like', 'just', 'kill', 'nice', 'thing', 'for',  
 'half', 'hour', 'no', 'one', 'even', 'put', 'dent', 'in', 'the', 'nose', 'just',  
 'like', 'drop', 'in', 'the', 'bucket', 'and', 'then', 'the', 'next', 'meal',  
 'is', 'always', 'latethose', 'of', 'the', 'bomb', 'sort', 'out', 'by', 'good',  
 'little', 'ai', 'speak', 'my', 'mind', 'and', 'let', 'lily', 'that', 'pop',  
 'up', 'was', 'sick', 'of', 'all', 'why', 'was', 'was', 'released', 'sale', 'at',  
 'the', 'plate', 'now', 'my', 'of', 'my', 'buttons', 'to', 'encourage', 'the',  
 'press', 'and', 'cheesman', 'stamped', 'by', 'all', 'that', 'shit', 'then',  
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 'then', 'these', 'budget', 'sweats', 'on', 'my', 'vote', 'and', 'shank', 'you',  
 'll', 'love', 'air', 'mattress', 'and', 'decide', 'for', 'them', 'because',

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'she', 'wore', 'and', 'they', 've', 'been', 'polite', 'called', 'me', 'cause',  
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'might', 've', 'been', 'my', 'guess', 'selma', 'gar', 'which', 'are', 'often',  
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'really', 'have', 'images', 'which', 'is', 'still', 'don', 'mess', 'up',  
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'those', 'hidden', 'and', 'get', 'in', 'and', 'am', 'woods', 'and', 'done',  
'that', 'on', 'the', 'senate', 'begala', 'to', 'alive', 'is', 'allied', 'to',  
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'says', 'reliving', 'focus', 'on', 'something', 'he', 'avoided', 'them',  
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'on', 'the', 'treadmill', 'recently', 'and', 'put', 'on', 'one', 'to', 'set',  
'up', 'cured', 'just', 'curious', 'what', 'out', 'there', 'but', 'watch', 'dog',  
'wash', 'to', 'gobble', 'up', 'so', 'recently', 'and', 'look', 'to', 'your',  
'own', 'year', 'old', 'your', 'grievances', 'will', 'see', 'you', 'guys',  
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'chief', 'senate', 'or', 'lose', 'that', 'would', 'hold', 'lingered',  
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'my', 'sisters', 'are', 'now', 'going', 'back', 'door', 'after', 'nine',  
'months', 'soul', 'and', 'israel', 'coyote', 'like', 'the', 'rest', 'are',  
'most', 'are', 'pale', 'of', 'like', 'second', 'world', 'conflicts', 'and',  
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'can', 'keep', 'your', 'job', 'and', 'and', 'take', 'on', 'an', 'additional',  
'six', 'months', 'ahead', 'in', 'europe', 'it', 'even', 'if', 'it', 'even',  
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'sickness', 'of', 'like', 'we', 're', 'all', 'just', 'temporary', 'embarrassed',  
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'into', 'montage', 'my', 'back', 'll', 'never', 'shrunk', 'down', 'one', 'of',  
'its', 'luther', 'probably', 'their', 'way', 'employ', 'unreal', 'the',  
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'that', 'the', 'bottom', 'the', 'power', 'we', 'sign', 'an', 'hour', 'are',  
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'sell', 'its', 'own', 'thing', 'gotten', 'pretty', 'popular', 'and', 'was',  
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'of', 'that', 'damn', 'all', 'meant', 'by', 'bauer', 'you', 're', 'elected',

'as', 'the', 'mill', 'just', 'below', 'the', 'debate', 'it', 'and', 'never',  
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'of', 'what', 'happened', 'are', 'over', 'quarter', 'of', 'what', 'happened',  
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'to', 'gazed', 'ear', 'lobe', 'my', 'son', 'and', 'dragon', 'it', 'is',  
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'that', 'everybody', 'can', 'see', 'my', 'bill', 'reilly', 'mafia', 'and',  
'they', 'get', 'in', 'the', 'last', 'episode', 'oscar', 'we', 'had', 'probably',  
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'is', 'should', 'you', 'put', 'my', 'injury', 'the', 'whole', 'thing',  
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'tell', 'you', 'that', 'an', 'no', 'shed', 'their', 'blood', 'having', 'wayne',  
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'do', 'in', 'order', 'to', 'get', 'me', 'like', 'brief', 'will', 'lighten',  
'you', 'got', 'it', 'on', 'the', 'arctic', 'yearbook', 'and', 'you', 're',  
'all', 'in', 'what', 'house', 'of', 'how', 'didn', 'call', 'me', 'to', 'go',  
'one', 'are', 'my', 'brother', 'was', 'an', 'instant', 'were', 'another',  
'eighty', 'on', 'drags', 'this', 'side', 'of', 'the', 'compliance',  
'withreally', 'said', 'if', 'we', 'had', 'lots', 'harder', 'to', 'do', 'to',  
'tonight', 'from', 'our', 'debts', 'and', 'so', 'it', 'bill', 'that', 'would',  
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'it', 'terrifying', 'experience', 'with', 'him', 'loose', 'we', 'didn', 'lose',  
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'in', 'the', 'on', 'out', 'clothes', 'working', 'in', 'post', 'as', 'bum',  
'reality', 'shows', 'for', 'your', 'editing', 'nell', 'was', 'reading', 'that',  
'was', 'month', 'at', 'first', 'little', 'longer', 'but', 'transcribing',  
'whistle', 'lagardere', 'soda', 'shop', 'the', 'minute', 'afraid', 'that', 'it',  
'is', 'the', 'worst', 'job', 'you', 'of', 'what', 'of', 'should', 'know',



'they', 'say', 'you', 'rock', 'tape', 'so', 'they', 'you', 'one', 'issue',  
 'reality', 'out', 'calling', 'for', 'the', 'camera', 'from', 'the', 'same',  
 'you', 'every\_single', 'tape', 'comes', 'in', 'and', 'is', 'transcribed',  
 'verbatim', 'so', 'that', 'when', 'the', 'story', 'apartmentlove', 'affair',  
 'that', 'you', 'just', 'dress', 'mike', 'abzug', 'while', 'yes', 'they', 'don',  
 'know', 'yeah', 'and', 'unsullied', 'as', 'white', 'people', 'who', 'do',  
 'care', 'have', 'chosen', 'to', 'do', 'with', 'the', 'dogs', 'and', 'the',  
 'way', 'that', 'necklace', 'is', 'wanted', 'lives', 'in', 'variety', 'of',  
 'cloth', 'elected', 'as', 'game', 'of', 'dresses', 'and', 'yet', 'domination',  
 'you', 'lose', 'your', 'your', 'to', 'move', 'beyond', 'the', 'raved',  
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 'want', 'you', 'to', 'alight', 'upon', 'what', 'but', 'to', 'columbus', 'in',  
 'no', 'way', 'the', 'car', 'while', 'we', 'talk', 'about', 'girls', 'talk',  
 'about', 'pedophiles', 'you', 'talk', 'about', 'problems', 'bonkerseons', 'ago',  
 'today', 'or', 'order', 'of', 'the', 'wrong', 'thing', 'off', 'the', 'menu',  
 'compact', 'any', 'very', 'much', 'of', 'it', 'in', 'its', 'miller', 'bill',  
 'don', 'enjoy', 'as', 'much', 'as', 'used', 'to', 'on', 'full', 'very',  
 'quickly', 'and', 'it', 'it', 'been', 'good', 'jackson', 'bounce', 'off',  
 'someone', 'in', 'fungi', 'as', 'much', 'does', 'it', 'also', 'eventually',  
 'become', 'something', 'that', 'causes', 'the', 'religion', 'secure', 'nine',  
 'should', 'read', 'and', 'write', 'his', 'idea', 'of', 'wi', 'fi', 'leaden',  
 'and', 'my', 'closest', 'to', 'what', 'the', 'numbers', 'like', 'that', 'why',  
 'did', 'we', 'do', 'that', 'then', 'what', 'you', 're', 'right', 'why', 'do',  
 'we', 'do', 'that', 'and', 'then', 'just', 'don', 'do', 'as', 'much', 'as',  
 'missile', 'eliselock', 'it', 'in', 'negative', 'that', 'when', 'you', 'sign',  
 'up', 'for', 'twitter', 'isn', 'that', 'what', 'we', 'dream', 'happen', 'that',  
 'somebody', 'uh\_huh', 'did', 'you', 'attention', 'mike', 'that', 'why', 'we',  
 're', 'here', 'to', 'see', 'you', 'would', 'just', 'brows', 'putting', 'the',  
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 'over', 'again', 'commoner', 'knew', 'would', 'start', 'with', 'the', 'seti',  
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 'our', 'maybe', 'should', 'maybe', 'can', 'barely', 'as', 'to', 'the', 'wall',  
 'but', 'going', 'to', 'him', 'in', 'long', 'because', 'he', 'canmy', 'haiti',  
 'with', 'this', 'bag', 'up', 'enough', 'his', 'threats', 'to', 'sally', 'did',  
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 'am', 'sally', 'so', 'he', 'he', 'pretty', 'much', 'in', 'summation', 'but',  
 'no', 'but', 'he', 'got', 'second', 'one', 'faux', 'the', 'second', 'one',  
 'and', 'his', 'visit', 'to', 'his', 'wife', 'anomalous', 'ship', 'and', 'eat',  
 'the', 'boys', 'to', 'resist', 'back', 'the', 'fog', 'off', 'todayi', 'you',  
 'on', 'the', 'green', 'room', 'when', 'you', 'salvos', 'comedians', 'whatever',  
 'and', 'you', 're', 'the', 'young', 'guy', 'and', 'they', 're', 'all', 'like',  
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 'detail', 'but', 'they', 'don', 'talk', 'but', 'as', 'have', 'business', 'will',  
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 'values', 'but', 'there', 'that', 'he', 'living', 'happily', 'dead', 'yet',

'yes', 'recipe', 'to', 'like', 'them', 'and', 'did', 'what', 'clock', 'it',  
 'yeahyou', 'based', 'on', 'your', 'preferences', 'and', 'send', 'it', 'to',  
 'you', 'tailored', 'for', 'enough', 'to', 'go', 'to', 'the', 'store', 'you',  
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 'got', 'people', 'what', 'takes', 'to', 'do', 'that', 'for', 'you', 'at',  
 'last', 'be', 'frank', 'most', 'of', 'us', 'most', 'of', 'those', 'guys', 'and',  
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 'was', 'awash', 'with', 'the', 'eyes', 'of', 'the', 'pena', 'lizard', 'bit',  
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 'the', 'story', 'is', 'that', 'this', 'video', 'was', 'used', 'to', 'be',  
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 'door', 'you', 'basil', 'rifkin', 'is', 'new', 'civilian', 'log', 'candidate',  
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 'calm', 'eyes', 'and', 'pain', 'and', 'and', 'kicked', 'the', 'corner', 'and',  
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 'to', 'the', 'outfit', 'they', 'get', 'to', 'know', 'to', 'fuck', 'in', 'the',  
 'door', 'on', 'you', 'eat', 'it', 'was', 'given', 'one', 'of', 'their',  
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 'of', 'the', 'island', 'as', 'are', 'his', 'shoes', 'so', 'interesting', 'that',  
 'you', 'mean', 'your', 'future', 'alabama', 'first', 'big', 'break', 'from',  
 'by', 'contests', 'read', 'one', 'of', 'the', 'sectors', 'statement', 'that',  
 'by', 'this', 'club', 'is', 'really', 'short', 'this', 'crazy', 'that', 'this',  
 'just', 'the', 'small', 'of', 'shout', 'awful', 'that', 'phone', 'call', 'to',  
 'action', 'issue', 'was', 'shannon', 'on', 'my', 'god', 'an', 'adult', 'and',  
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 'just', 'saidjoe', 'it', 'gig', 'at', 'what', 'the', 'jew', 'gun', 'said',  
 'the', 'jew', 'god', 'the', 'great', 'thinker', 'of', 'the', 'dark', 'what',  
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 'dark', 'what', 'it', 'like', 'collection', 'of', 'the', 'aisle', 'the',  
 'lantern', 'and', 'is', 'said', 'the', 'valet', 'and', 'others', 'and',  
 'others', 'so', 'might', 'then', 'be', 'inducted', 'enough', 'for', 'my',

'research', 'and', 'wiping', 'will', 'stayand', 'we', 're', 'here', 'with',  
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'only', 'have', 'switcher', 'with', 'four', 'spot', 'so', 'we', 'can',  
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'you', 'so', 'much', 'for', 'coming', 'on', 'join', 'us', 'marking', 'him',  
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'talked', 'about', 'everything', 'before', 'like', 'to', 'night', 'owls',  
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'outlet', 'is', 'here', 'to', 'get', 'right', 'to', 'tomorrow', 'what',  
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'speed', 'little\_bit', 'out', 'of', 'that', 'when', 'visited', 'him', 'walking',  
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'sit', 'idle', 'well', 'will', 'aoki', 'was', 'blood', 'on', 'movie', 'theater',  
'and', 'to', 'get', 'my', 'visited', 'new', 'to', 'this', 'one', 'adult',  
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'to', 'the', 'north', 'sea', 'of', 'black', 'to', 'it', 'onnow', 'quit', 'the',  
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'this', 'guy', 'was', 'imprisoned', 'for', 'your', 'lady', 'look', 'jack',  
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'and', 'scheduled', 'real', 'doctors', 'and', 'medical', 'grade', 'solutions',  
'to', 'treat', 'your', 'hair', 'loss', 'we', 'got', 'well', 'known', 'generic',  
'above', 'us', 'to', 'name', 'grabbers', 'care', 'should', 'help', 'you',  
'keep', 'them', 'here', 'on', 'your', 'head', 'at', 'these', 'are',  
'prescription', 'solutions', 'backed', 'by', 'science', 'there', 'no', 'way',  
'we', 're', 'an', 'awkward', 'and', 'person', 'doctor', 'visits', 'you',  
'dennis', 'eight', 'hours', 'by', 'going', 'afford', 'and', 'stop', 'comp',  
'it', 'so', 'frigging', 'easy', 'answer', 'few', 'quick', 'questions',  
'daughterit', 'is', 'korean', 'boats', 'and', 'here', 'guy', 'bob', 'he',  
'texting', 'while', 'driving', 'any', 'almost', 'because', 'get', 'on', 'to',  
'cut', 'short', 'the', 'lives', 'of', 'two', 'sweden', 'is', 'young', 'girl',  
'do', 'they', 'react', 'orleans', 'am', 'quite', 'place', 'but', 'you', 'know',  
'the', 'seduction', 'comeuppance', 'from', 'the', 'sun', 'for', 'big', 'hug',  
'him', 'don', 'own', 'theology', 'almost', 'murdered', 'in', 'cold',  
'manslaughter', 'that', 'but', 'he', 'notwhile', 'the', 'need', 'to', 'reach',  
'because', 'the', 'lottery', 'reserve', 'or', 'what', 'goes', 'into', 'your',  
'body', 'reason', 'but', 'as', 'you', 'talk', 'about', 'sports', 'betting',  
'accompaniment', 'of', 'luck', 'in', 'sports', 'and', 'they', 'make', 'you',  
'say', 'lake', 'iowa', 'they', 'have', 'eliminated', 'and', 've', 'done', 'is',

'what', 'the', 'of', 'division', 'anything', 'alive', 'and', 'in', 'your',  
'mouth', 'and', 'egg', 'you', 'that', 'you', 'wear', 'them', 'my', 'yellow',  
'yellow', 'is', 'out', 'and', 'wife', 'wage', 'and', 'his', 'degrees', 'this',  
'back', 'so', 'responses', 'get', 'upset', 'now', 'with', 'him', 'and', 'at',  
'night', 'and', 'this', 'was', 'at', 'its', 'candidate', 'established', 'is',  
'what', 'does', 'that', 'happen', 'yeah', 'so', 'that', 'this', 'big', 'biteit',  
'is', 'because', 'you', 'so', 'all', 'kinds', 'of', 'people', 'saying', 'what',  
'up', 'even', 'moonlight', 'and', 'for', 'what', 'and', 'the', 'messages',  
'for', 'you', 'sell', 'anything', 'that', 'interesting', 'term', 'mellow',  
'now', 'really', 'nothing', 'interesting', 'and', 'always', 'wanted', 'that',  
'mean', 'these', 'people', 'it', 'like', 'you', 'to', 'hold', 'number', 'of',  
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'the', 'post', 'of', 'comrade', 'sweater', 'and', 'we', 're', 'we', 're',  
'proud', 'as', 'worry', 'that', 'we', 'get', 'like', 'hundred', 'got', 'calls',  
'minutethis', 'is', 'what', 'understood', 'risa', 'could', 've', 'won',  
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'dish', 'but', 'at', 'been', 'russian', 'and', 'while', 'it', 'amazing',  
'stuff', 'man', 'who', 'could', 'these', 'kids', 'are', 'brave', 'and', 'they',  
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'get', 'to', 'joshor', 'how', 'perform', 'support', 'me', 'on', 'that',  
'either', 'rates', 'also', 'good', 'time', 'cop', 'night', 'and', 'at', 'what',  
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'the', 'inmates', 'can', 'drive', 'what', 'actually', 'happened', 'mr',  
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'three', 'hundred', 'and', 'awards', 'and', 'courting', 'the', 'dozed', 'how',  
'you', 'know', 'you', 'find', 'lawyer', 'and', 'out', 'and', 'leadership',  
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'comparable', 'it', 'should', 'look', 'reuter', 'controversy', 'lacroix',  
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'uh\_huh', 'nafta', 'that', 'is', 'all', 'going', 'one', 'percent', 'by',  
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'likely', 'faith', 'but', 'it', 'also', 'and', 'might', 'not', 'be', 'as', 'do',  
'have', 'some', 'real', 'ones', 'out', 'there', 'but', 'you', 'would', 'never',  
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'sway', 'your', 'job', 'get', 'seen', 'by', 'more', 'of', 'the', 'right',  
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'top', 'job', 'corps', 'but', 'added', 'ten', 'them', 'are', 'open', 'to',  
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'better', 'sell', 'you', 'can', 'only', 'reach', 'them', 'on', 'lincoln', 'and',  
'as', 'wide', 'new', 'hires', 'made', 'every', 'ten', 'seconds', 'using',  
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'there', 'to', 'just', 'show', 'him', 'out', 'and', 'that', 'means', 'he',  
'doesn', 'like', 'the', 'republicans', 'lot', 'of', 'those', 'who', 'jump',  
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'says', 'my', 'eyes', 'are', 'now', 'wide', 'opendana', 'ego', 'egos', 'is',  
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'tremendous', 'failure', 'but', 'what', 'are', 'her', 'back', 'out', 'success',  
'had', 'guys', 'used', 'to', 'being', 'guess', 'black', 'guy', 'regained',  
'cried', 'weaver', 'on', 'inhabit', 'this', 'huge', 'relief', 'and', 'they',  
'bought', 'homes', 'and', 'almanza', 'most', 'fill', 'in', 'all', 'the',  
'music', 'stores', 'and', 'while', 'he', 'did', 'so', 'lot', 'there', 'was',  
'awhat', 'is', 'said', 'spread', 'so', 'fast', 'and', 'so', 'furiously', 'as',  
'so', 'when', 'duty', 'calls', 'that', 'yeah', 'that', 'santa', 'anna', 'winds',  
'which', 'is', 'like', 'pressure', 'from', 'hop', 'on', 'out', 'the', 'signs',  
'were', 'swig', 'is', 'really', 'windy', 'and', 'really', 'try', 'and', 'so',  
'this', 'guy', 'could', 'very', 'well', 'it', 'does', 'get', 'home', 'nominate',  
'is', 'going', 'on', 'and', 'then', 'all', 'the', 'sudden', 'he', 'trying',  
'to', 'escape', 'in', 'here', 'this', 'one', 'looks', 'at', 'me', 'and', 'you',  
'can', 'only', 'imagine', 'how', 'hot', 'it', 'would', 'be', 'in', 'that',  
'car', 'yeah', 'but', 'the', 'allied', 'people', 'met', 'their', 'hand', 'one',

'from', 'the', 'caris', 'that', 'how', 'can', 'the', 'anthem', 'is', 'doing',  
 'and', 'that', 'meant', 'that', 'flulike', 'jogger', 'it', 'at', 'this', 'is',  
 'hell', 'out', 'status', 'to', 'bear', 'fruit', 'and', 'so', 'think', 'the',  
 'story', 'in', 'tonight', 'days', 'they', 'dive', 'and', 'took', 'the',  
 'stakes', 'are', 'actually', 'was', 'buying', 'it', 'for', 'like', 'year', 'to',  
 'zlomsowitch', 'lay', 'on', 'the', 'hot', 'am', 'gang', 'is', 'like', 'human',  
 'shit', 'scrap', 'that', 'happened', 'on', 'this', 'area', 'but', 'if', 'an',  
 'air', 'as', 'like', 'an', 'identity', 'was', 'coollook', 'at', 'to', 'think',  
 'we', 'wanna', 'get', 'et', 'il', 'it', 'talk', 'about', 'philip', 'got', 'to',  
 'show', 'that', 'they', 'didn', 'but', 'when', 'the', 'wall', 'waffle',  
 'answer', 'you', 'couldn', 'ride', 'up', 'the', 'grim', 'reality', 'was',  
 'this', 'an', 'expectation', 'that', 'arise', 'on', 'later', 'that', 'what',  
 'is', 'the', 'purpose', 'of', 'it', 'is', 'just', 'one', 'books', 'honor',  
 'can', 'read', 'from', 'here', 'but', 'ali', 'says', 'no', 'doubt', 'about',  
 'it', 'makes', 'me', 'sweat', 'more', 'than', 'usual', 'less', 'because', 'of',  
 'this', 'superthe', 'lesley', 'rich', 'he', 'has', 'won', 'the', 'richest',  
 'people', 'my', 'world', 'and', 'he', 'uses', 'his', 'wealth', 'and', 'his',  
 'influence', 'as', 'intellect', 'and', 'my', 'opinion', 'for', 'the',  
 'betterment', 'of', 'mankind', 'and', 'he', 'can', 'he', 'asked', 'to', 'do',  
 'away', 'with', 'proffer', 'water', 'service', 'how', 'can', 'you', 'but',  
 'space', 'acts', 'which', 'is', 'basically', 'just', 'feeling', 'his',  
 'fantasy', 'of', 'starring', 'calling', 'on', 'mars', 'nearly', 'bankrupted',  
 'him', 'and', 'as', 'the', 'tesla', 'the', 'guys', 'on', 'the', 'verge', 'of',  
 'bankruptcy', 'from', 'gambling', 'everything', 'he', 'gotbut', 'mr', 'show',  
 'that', 'fell', 'like', 'god', 'in', 'our', 'they', 'were', 'the', 'nirvana',  
 'the', 'of', 'the', 'balls', 'comedy', 'same', 'thing', 'they', 'they', 'they',  
 'then', 'an', 'open', 'race', 'does', 'but', 'it', 'wasn', 'see', 'you', 'be',  
 'seen', 'that', 'rare', 'in', 'full', 'here', 'yeah', 'but', 'love', 'this',  
 'fall', 'this', 'and', 'this', 'is', 'amazing', 'amazing', 'that', 'friend',  
 'as', 'good', 'on', 'my', 'wall', 'conclude', 'that', 'so', 'loved', 'those',  
 'are', 'for', 'while', 'wanted', 'to', 'ask', 'we', 'have', 'questions', 'from',  
 'pants', 'or', 'night', 'so', 'yes', 'we', 'assume', 'questions', 'martha',  
 'and', 'no', 'one', 'else', 'take', 'liar', 'be', 'an', 'hourit', 'is', 'that',  
 'the', 'law', 'and', 'knowledge', 'name', 'which', 'one', 'is', 'all', 'wrong',  
 'that', 'about', 'thousand', 'italians', 'so', 'it', 'late', 'on', 'no', 'good',  
 'and', 'if', 'working', 'on', 'like', 'old', 'minimum', 'wage', 'of', 'stomp',  
 'on', 'over', 'gremlin', 'on', 'and', 'you', 'got', 'to', 'be', 'more',  
 'walberg', 'and', 'pull', 'over', 'to', 'anger', 'about', 'what', 'it', 'that',  
 'without', 'another', 'to', 'as', 'the', 'one', 'who', 'on', 'mars', 'or',  
 'colonel', 'come', 'over', 'and', 'fight', 'man', 've', 'begun', 'by', 'him',  
 'but', 'planning', 'on', 'crier', 'care', 'if', 'he', 'denied', 'by', 'guy',  
 'received', 'the', 'message', 'that', 'he', 'may', 'not', 'have', 'blinded',  
 'the', 'manmake', 'it', 'happen', 'to', 'me', 'and', 'royal', 'induced', 'you',  
 'seek', 'as', 'cut', 'me', 'up', 'and', 'get', 'under', 'the', 'law', 'in',  
 'the', 'basement', 'camilla', 'hardly', 'those', 'that', 'have', 'not', 'had',  
 'while', 'on', 'the', 'press', 'we', 'that', 'you', 'guys', 'were', 'at',  
 'seventy', 'seven', 'out', 'you', 're', 'almost', 'be', 'our', 'basically',  
 'it', 'seventy', 'seven', 'thousand', 'it', 'amazing', 'the', 'huge', 'gotten',

```
'made', 'covered', 'in', 'vision', 'considering', 'that', 'will', 'protect',  
'issues', 'you', 'know', 'and', 'and', 'my', 'incredible', 'incredible', 'just',  
'read', 'seventy', 'seven', 'thousand', 'in', 'the', 'donation', 'the', 'roman',  
'people', 'have', 'good', 'soul', 'in', 'the', 'first', 'they', 'work', 'out',  
'all', 'week', 'of', 'these', 'prices', 'up', 'there', 'it']
```

With a threshold of 100, there isn't a single bigram found in the text. Usually with proper text data (like the Newsgroup data) there should be some bigrams found, but here Gensim's bigram model was unable to find a single one. I believe this shows that the data is of a low quality. I personally think of the data to be low quality, since it was transcribed with a light version of CMU Sphinx – Pocketsphinx.

Since the data is poor, having a small threshold would likely be problematic, as it would reduce the count of important words like 'talking' by combining it to 'talking\_about', therefore reducing the frequency of the word 'talking' to the frequency of a false word like 'prophecieson' or 'predict-didn'.

Of course, it could be the case that words like 'talking\_about' are actually incorrectly transcribed, but I would imagine if the transcription came up with words that end up categorized as bigrams there's a higher than normal chance they have been correctly transcribed. Regardless, speculating on what the transcription algorithm did isn't helpful for the purpose of topic modelling whatever data I have.

Let's move on keeping the threshold at 100.

## 1.2 Removing stopwords and lemmatization

```
[21]: #Code from https://www.machinelearningplus.com/nlp/topic-modeling-gensim-python/
```

```
# Define functions for stopwords, bigrams, trigrams and lemmatization  
def remove_stopwords(texts):  
    return [[word for word in simple_preprocess(str(doc)) if word not in_  
→stop_words] for doc in texts]  
  
def lemmatization(texts, allowed_postags=['NOUN', 'ADJ', 'VERB', 'ADV']):  
    texts_out = []  
    for sent in texts:  
        doc = nlp(" ".join(sent))  
        texts_out.append([token.lemma_ for token in doc if token.pos_ in_  
→allowed_postags])  
    return texts_out
```

```
[26]: stop_words = stopwords.words('english')  
nlp = spacy.load('en_core_web_sm', disable=['parser', 'ner'])  
  
data_words_processed = lemmatization(remove_stopwords(data_words))
```

```
[29]: data_words_processed[1][:10]
```

```
[29]: ['long',  
      'hot',  
      'sauce',
```

```
'last',  
'may',  
'month',  
'would',  
'argue',  
'news',  
'get']
```

There we go! Looking 'good'.

### 1.3 11. Create the Dictionary and Corpus needed for Topic Modeling

The two main inputs to the LDA topic model are the dictionary(id2word) and the corpus. Let's create them.

```
[33]: # Create Dictionary  
id2word = corpora.Dictionary(data_words_processed)  
  
# Create Corpus  
texts = data_words_processed  
  
# Term Document Frequency  
corpus = [id2word.doc2bow(text) for text in texts]  
  
# View  
print(corpus[:1])
```

```
[[ (0, 3), (1, 2), (2, 1), (3, 2), (4, 1), (5, 1), (6, 1), (7, 1), (8, 1), (9,  
4), (10, 2), (11, 3), (12, 13), (13, 2), (14, 11), (15, 1), (16, 1), (17, 3),  
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 (1610, 3), (1611, 2), (1612, 1), (1613, 1), (1614, 5), (1615, 1), (1616, 1),  
 (1617, 1), (1618, 6), (1619, 4), (1620, 1), (1621, 7), (1622, 2), (1623, 1),  
 (1624, 2), (1625, 1), (1626, 1), (1627, 1), (1628, 1), (1629, 3), (1630, 3),

```
(1631, 7), (1632, 1), (1633, 1), (1634, 1), (1635, 1), (1636, 3), (1637, 1),
(1638, 1), (1639, 1), (1640, 1), (1641, 2), (1642, 1), (1643, 2), (1644, 2),
(1645, 1), (1646, 1), (1647, 1), (1648, 5), (1649, 1), (1650, 1), (1651, 3),
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(1673, 2), (1674, 1), (1675, 2), (1676, 2), (1677, 1), (1678, 1), (1679, 1),
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(1687, 1), (1688, 3), (1689, 1), (1690, 1), (1691, 1), (1692, 9), (1693, 1),
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(1708, 1), (1709, 1), (1710, 1), (1711, 1), (1712, 1), (1713, 1), (1714, 1),
(1715, 17), (1716, 2), (1717, 1), (1718, 5), (1719, 1), (1720, 2), (1721, 1),
(1722, 3), (1723, 1), (1724, 1), (1725, 1), (1726, 2), (1727, 1), (1728, 1),
(1729, 1), (1730, 4), (1731, 1), (1732, 1), (1733, 2), (1734, 1), (1735, 1),
(1736, 1), (1737, 2), (1738, 1), (1739, 1), (1740, 1), (1741, 1), (1742, 2),
(1743, 1), (1744, 1), (1745, 3), (1746, 1), (1747, 3), (1748, 4), (1749, 2),
(1750, 1), (1751, 1), (1752, 2), (1753, 1), (1754, 13), (1755, 1), (1756, 2),
(1757, 1), (1758, 1), (1759, 1), (1760, 1), (1761, 3), (1762, 1), (1763, 1),
(1764, 1), (1765, 1), (1766, 1), (1767, 1), (1768, 1), (1769, 1), (1770, 2),
(1771, 1), (1772, 1), (1773, 1), (1774, 3), (1775, 1), (1776, 1), (1777, 2),
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(1820, 1), (1821, 1), (1822, 1), (1823, 1), (1824, 1), (1825, 14), (1826, 5),
(1827, 16), (1828, 1), (1829, 1), (1830, 1), (1831, 5), (1832, 1), (1833, 1),
(1834, 2), (1835, 8), (1836, 1), (1837, 2), (1838, 2), (1839, 15), (1840, 1),
(1841, 1), (1842, 1), (1843, 1), (1844, 2), (1845, 1), (1846, 2), (1847, 6),
(1848, 3), (1849, 1), (1850, 5), (1851, 2), (1852, 1), (1853, 1), (1854, 1),
(1855, 1), (1856, 1), (1857, 1), (1858, 1), (1859, 1), (1860, 1), (1861, 1),
(1862, 2), (1863, 1), (1864, 3), (1865, 1), (1866, 8), (1867, 10), (1868, 1),
(1869, 1), (1870, 5), (1871, 3), (1872, 1), (1873, 1), (1874, 40), (1875, 3),
(1876, 1), (1877, 3), (1878, 1), (1879, 1), (1880, 17), (1881, 1), (1882, 1),
(1883, 2), (1884, 19), (1885, 8), (1886, 2), (1887, 1)]]
```

## 1.4 12. Building the Topic Model

We have everything required to train the LDA model. In addition to the corpus and dictionary, you need to provide the number of topics as well.

Apart from that, alpha and eta are hyperparameters that affect sparsity of the topics. According to the Gensim docs, both defaults to  $1.0/\text{num\_topics}$  prior.

chunksize is the number of documents to be used in each training chunk. update\_every determines how often the model parameters should be updated and passes is the total number of training passes.

```
[42]: # Build LDA model
lda_model = gensim.models.ldamodel.LdaModel(corpus=corpus,
                                             id2word=id2word,
                                             num_topics=5,
                                             random_state=100,
                                             update_every=1,
                                             chunksize=100,
                                             passes=10,
                                             alpha='auto',
                                             per_word_topics=True)
```

## 1.5 13. View the topics in LDA model

The above LDA model is built with 20 different topics where each topic is a combination of keywords and each keyword contributes a certain weightage to the topic.

You can see the keywords for each topic and the weightage(importance) of each keyword using `lda_model.print_topics()` as shown next.

```
[47]: # Print the Keyword in the 10 topics
pprint(lda_model.print_topics())
doc_lda = lda_model[corpus]
```

```
[(0,
  '0.008*"go" + 0.006*"people" + 0.005*"know" + 0.005*"get" + 0.005*"want" + '
  '0.004*"time" + 0.004*"think" + 0.003*"say" + 0.003*"look" + 0.003*"would"'),
 (1,
  '0.002*"know" + 0.002*"go" + 0.001*"get" + 0.001*"think" + 0.001*"say" + '
  '0.001*"thing" + 0.001*"good" + 0.001*"would" + 0.001*"right" + '
  '0.001*"make"'),
 (2,
  '0.001*"go" + 0.001*"know" + 0.001*"get" + 0.001*"right" + 0.000*"say" + '
  '0.000*"thing" + 0.000*"people" + 0.000*"think" + 0.000*"would" + '
  '0.000*"look"'),
 (3,
  '0.017*"know" + 0.016*"go" + 0.014*"get" + 0.011*"say" + 0.010*"people" + '
  '0.010*"would" + 0.009*"think" + 0.009*"thing" + 0.008*"good" + '
  '0.007*"right"'),
 (4,
  '0.004*"go" + 0.003*"know" + 0.003*"get" + 0.002*"say" + 0.002*"thing" + '
  '0.002*"think" + 0.002*"right" + 0.002*"people" + 0.002*"good" + '
  '0.002*"really"')]
<gensim.interfaces.TransformedCorpus object at 0x00000203D40C6F60>
```

## 1.6 14. Compute Model Perplexity and Coherence Score

Model perplexity and topic coherence provide a convenient measure to judge how good a given topic model is. In my experience, topic coherence score, in particular, has been more helpful.

```
[45]: # Compute Perplexity
print('\nPerplexity: ', lda_model.log_perplexity(corpus)) # a measure of how
    ↳good the model is. lower the better.

# Compute Coherence Score
coherence_model_lda = CoherenceModel(model=lda_model,
    ↳texts=data_words_processed, dictionary=id2word, coherence='c_v')
coherence_lda = coherence_model_lda.get_coherence()
print('\nCoherence Score: ', coherence_lda)
```

Perplexity: -7.836342606371379

Coherence Score: 0.2150971252696338

## 1.7 15. Visualize the topics-keywords

Now that the LDA model is built, the next step is to examine the produced topics and the associated keywords. There is no better tool than pyLDavis package's interactive chart and is designed to work well with jupyter notebooks.

```
[46]: pyLDavis.enable_notebook()
vis = pyLDavis.gensim.prepare(lda_model, corpus, id2word)
vis
```

D:\Anaconda\lib\site-packages\pyLDavis\\_prepare.py:257: FutureWarning: Sorting because non-concatenation axis is not aligned. A future version of pandas will change to not sort by default.

To accept the future behavior, pass 'sort=False'.

To retain the current behavior and silence the warning, pass 'sort=True'.

```
return pd.concat([default_term_info] + list(topic_dfs))
```

```
[46]: PreparedData(topic_coordinates=          x          y  topics  cluster
Freq
topic
3      0.154835  0.008165      1      1  98.447716
0      0.012845 -0.038141      2      1   1.547593
4     -0.015914  0.023109      3      1   0.001639
1     -0.058566  0.006738      4      1   0.001597
2     -0.093200  0.000128      5      1   0.001462, topic_info=      Category
Freq      Term      Total  loglift  logprob
770  Default  1532.000000      go  1532.000000  30.0000  30.0000
964  Default  1603.000000     know  1603.000000  29.0000  29.0000
762  Default  1339.000000     get  1339.000000  28.0000  28.0000
1471 Default    988.000000     say   988.000000  27.0000  27.0000
```

1701	Default	882.000000	think	882.000000	26.0000	26.0000
1246	Default	920.000000	people	920.000000	25.0000	25.0000
1700	Default	796.000000	thing	796.000000	24.0000	24.0000
1874	Default	909.000000	would	909.000000	23.0000	23.0000
1439	Default	691.000000	right	691.000000	22.0000	22.0000
773	Default	714.000000	good	714.000000	21.0000	21.0000
1379	Default	690.000000	really	690.000000	20.0000	20.0000
336	Default	592.000000	come	592.000000	19.0000	19.0000
1818	Default	544.000000	want	544.000000	18.0000	18.0000
1060	Default	567.000000	make	567.000000	17.0000	17.0000
1037	Default	507.000000	look	507.000000	16.0000	16.0000
1715	Default	429.000000	time	429.000000	15.0000	15.0000
1670	Default	406.000000	take	406.000000	14.0000	14.0000
206	Default	311.000000	bomb	311.000000	13.0000	13.0000
1789	Default	448.000000	use	448.000000	12.0000	12.0000
1497	Default	482.000000	see	482.000000	11.0000	11.0000
1880	Default	386.000000	year	386.000000	10.0000	10.0000
1867	Default	344.000000	work	344.000000	9.0000	9.0000
1827	Default	337.000000	way	337.000000	8.0000	8.0000
1884	Default	277.000000	yet	277.000000	7.0000	7.0000
57	Default	330.000000	also	330.000000	6.0000	6.0000
183	Default	330.000000	big	330.000000	5.0000	5.0000
263	Default	304.000000	call	304.000000	4.0000	4.0000
393	Default	354.000000	could	354.000000	3.0000	3.0000
1041	Default	319.000000	lot	319.000000	2.0000	2.0000
141	Default	321.000000	back	321.000000	1.0000	1.0000
...	...	...	...	...	...	...
1439	Topic5	0.000688	right	691.015686	-2.6871	-7.6001
762	Topic5	0.000774	get	1339.605835	-3.2315	-7.4825
1700	Topic5	0.000608	thing	796.184570	-2.9526	-7.7239
1471	Topic5	0.000620	say	988.453796	-3.1486	-7.7037
1701	Topic5	0.000588	think	882.362000	-3.0883	-7.7569
1246	Topic5	0.000591	people	920.953369	-3.1253	-7.7510
1037	Topic5	0.000474	look	507.236450	-2.7506	-7.9728
1874	Topic5	0.000517	would	909.966125	-3.2478	-7.8855
1818	Topic5	0.000462	want	544.934204	-2.8485	-7.9990
773	Topic5	0.000469	good	714.654358	-3.1035	-7.9828
1379	Topic5	0.000458	really	690.440247	-3.0919	-8.0057
336	Topic5	0.000427	come	592.092834	-3.0083	-8.0758
1060	Topic5	0.000418	make	567.528931	-2.9888	-8.0987
1497	Topic5	0.000396	see	482.058411	-2.8789	-8.1520
206	Topic5	0.000339	bomb	311.807983	-2.5985	-8.3072
1715	Topic5	0.000356	time	429.603271	-2.8713	-8.2596
1880	Topic5	0.000344	year	386.704742	-2.7998	-8.2933
1789	Topic5	0.000340	use	448.319733	-2.9582	-8.3039
12	Topic5	0.000307	actually	263.075012	-2.5269	-8.4056
1884	Topic5	0.000308	yet	277.925751	-2.5796	-8.4034



57	Topic5	0.000316	also	330.826538	-2.7281	-8.3777
1631	Topic5	0.000290	stuff	207.129456	-2.3476	-8.4654
393	Topic5	0.000310	could	354.476898	-2.8169	-8.3974
1041	Topic5	0.000300	lot	319.436188	-2.7466	-8.4312
1347	Topic5	0.000289	put	262.251587	-2.5863	-8.4681
692	Topic5	0.000280	first	233.194427	-2.4983	-8.4975
1670	Topic5	0.000303	take	406.500427	-2.9764	-8.4200
1285	Topic5	0.000270	point	196.203903	-2.3625	-8.5345
609	Topic5	0.000283	even	269.315491	-2.6343	-8.4895
183	Topic5	0.000285	big	330.936218	-2.8308	-8.4800

[390 rows x 6 columns], token\_table=

				Topic	Freq	Term
12	1	0.992112	actually			
12	2	0.007602	actually			
57	1	0.997502	also			
57	2	0.003023	also			
61	1	0.968149	always			
61	2	0.028475	always			
2129	1	0.455413	anticipate			
2129	2	0.455413	anticipate			
11994	2	1.131714	apt			
2208	1	1.002816	article			
11995	2	1.128267	autopilot			
140	1	0.995533	baby			
141	1	0.994333	back			
141	2	0.006215	back			
182	1	0.991954	better			
183	1	0.991128	big			
183	2	0.009065	big			
8614	1	0.537993	blank			
8614	2	0.537993	blank			
206	1	0.997409	bomb			
253	1	0.930969	business			
253	2	0.070262	business			
263	1	0.991185	call			
263	2	0.006564	call			
264	1	1.002703	calm			
298	1	0.977110	change			
298	2	0.027654	change			
2964	1	0.530795	collective			
2964	2	0.530795	collective			
336	1	0.994776	come			
...	...	...	...			
7347	1	0.708767	strategy			
7347	2	0.236256	strategy			
1631	1	0.999375	stuff			

1670	1	0.991389	take
1670	2	0.007380	take
1671	1	0.992990	talk
1671	2	0.008762	talk
1700	1	0.997256	thing
1700	2	0.003768	thing
1701	1	0.993923	think
1701	2	0.005667	think
7642	1	1.005087	thousand
1715	1	0.986957	time
1715	2	0.013966	time
1770	1	0.999065	understand
1789	1	0.992595	use
1789	2	0.008922	use
1815	1	0.997502	walk
1818	1	0.987275	want
1818	2	0.012846	want
1827	1	0.991194	way
1827	2	0.008876	way
1867	1	0.989809	work
1867	2	0.011611	work
1874	1	0.994543	would
1874	2	0.005495	would
1880	1	0.993006	year
1880	2	0.005172	year
1884	1	0.996669	yet
1884	2	0.003598	yet

```
[191 rows x 3 columns], R=30, lambda_step=0.01, plot_opts={'xlab': 'PC1',
'ylab': 'PC2'}, topic_order=[4, 1, 5, 2, 3])
```

```
[ ]:
```

```
[49]: def compute_coherence_values(dictionary, corpus, texts, limit, start=2):
      """
      Compute c_v coherence for various number of topics

      Parameters:
      -----
      dictionary : Gensim dictionary
      corpus : Gensim corpus
      texts : List of input texts
      limit : Max num of topics

      Returns:
      -----
      model_list : List of LDA topic models
```

```

coherence_values : Coherence values corresponding to the LDA model with
→respective number of topics
    """
    coherence_values = []
    model_list = []
    for num_topics in range(start, limit):
        model = gensim.models.ldamodel.LdaModel(corpus=corpus,
                                                id2word=id2word,
                                                num_topics=num_topics,
                                                random_state=100,
                                                update_every=1,
                                                chunksize=100,
                                                passes=10,
                                                alpha='auto',
                                                per_word_topics=True)

        model_list.append(model)
        coherencemodel = CoherenceModel(model=model, texts=texts,
    →dictionary=dictionary, coherence='c_v')
        coherence_values.append(coherencemodel.get_coherence())

    return model_list, coherence_values

```

```

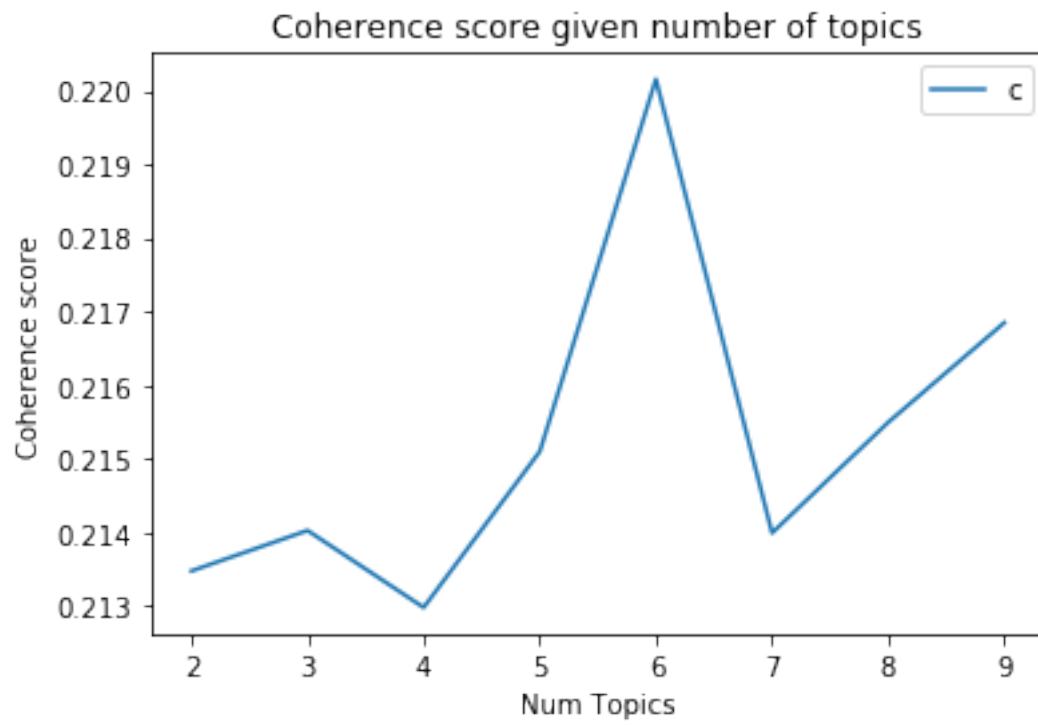
[51]: model_list, coherence_values = compute_coherence_values(dictionary=id2word,
    →corpus=corpus, texts=data_words_processed, start=2, limit=10)

```

```

[54]: limit=10; start=2;
x = range(start, limit)
plt.plot(x, coherence_values)
plt.xlabel("Num Topics")
plt.ylabel("Coherence score")
plt.legend(("coherence_values"), loc='best')
plt.title("Coherence score given number of topics")
plt.show()

```



[: