In [90]: ▶|
```
Corpus of English language From GtenBerg Applying Preprocessing and TF IDF
```

In [109]: ▶|
```python
filename = 'metamorphosis_clean.txt'
file = open(filename, 'rt')
text = file.read()
file.close()
```

In [18]: ▶|
```python
filename = 'metamorphosis_clean.txt'
file = open(filename, 'rt')
text = file.read()
file.close()

words = text.split()
print(words)
```

```
['One', 'morning,', 'when', 'Gregor', 'Samsa', 'woke', 'from', 'trouble
d', 'dreams,', 'he', 'found', 'himself', 'transformed', 'in', 'his', 'be
d', 'into', 'a', 'horrible', 'vermin.', 'He', 'lay', 'on', 'his', 'armour
-like', 'back,', 'and', 'if', 'he', 'lifted', 'his', 'head', 'a', 'littl
e', 'he', 'could', 'see', 'his', 'brown', 'belly,', 'slightly', 'domed',
'and', 'divided', 'by', 'arches', 'into', 'stiff', 'sections.', 'The', 'b
edding', 'was', 'hardly', 'able', 'to', 'cover', 'it', 'and', 'seemed',
'ready', 'to', 'slide', 'off', 'any', 'moment.', 'His', 'many', 'legs,',
'pitifully', 'thin', 'compared', 'with', 'the', 'size', 'of', 'the', 'res
t', 'of', 'him,', 'waved', 'about', 'helplessly', 'as', 'he', 'looked.',
'"What\'s', 'happened', 'to', 'me?"', 'he', 'thought.', 'It', "wasn't",
'a', 'dream.', 'His', 'room,', 'a', 'proper', 'human', 'room', 'althoug
h', 'a', 'little', 'too', 'small,', 'lay', 'peacefully', 'between', 'it
s', 'four', 'familiar', 'walls.', 'A', 'collection', 'of', 'textile', 'sa
mples', 'lay', 'spread', 'out', 'on', 'the', 'table', '-', 'Samsa', 'wa
s', 'a', 'travelling', 'salesman', '-', 'and', 'above', 'it', 'there', 'h
ung', 'a', 'picture', 'that', 'he', 'had', 'recently', 'cut', 'out', 'o
f', 'an', 'illustrated', 'magazine', 'and', 'housed', 'in', 'a', 'nice,',
'gilded', 'frame.', 'It', 'showed', 'a', 'lady', 'fitted', 'out', 'with',
```

In [6]: ▶|

```python
filename = 'metamorphosis_clean.txt'
file = open(filename, 'rt')
text = file.read()
file.close()

import re
words = re.split(r'\W+', text)
print(words)
```

```
['One', 'morning', 'when', 'Gregor', 'Samsa', 'woke', 'from', 'troubled',
'dreams', 'he', 'found', 'himself', 'transformed', 'in', 'his', 'bed', 'i
nto', 'a', 'horrible', 'vermin', 'He', 'lay', 'on', 'his', 'armour', 'lik
e', 'back', 'and', 'if', 'he', 'lifted', 'his', 'head', 'a', 'little', 'h
e', 'could', 'see', 'his', 'brown', 'belly', 'slightly', 'domed', 'and',
'divided', 'by', 'arches', 'into', 'stiff', 'sections', 'The', 'bedding',
'was', 'hardly', 'able', 'to', 'cover', 'it', 'and', 'seemed', 'ready',
'to', 'slide', 'off', 'any', 'moment', 'His', 'many', 'legs', 'pitifull
y', 'thin', 'compared', 'with', 'the', 'size', 'of', 'the', 'rest', 'of',
'him', 'waved', 'about', 'helplessly', 'as', 'he', 'looked', 'What', 's',
'happened', 'to', 'me', 'he', 'thought', 'It', 'wasn', 't', 'a', 'dream',
'His', 'room', 'a', 'proper', 'human', 'room', 'although', 'a', 'little',
'too', 'small', 'lay', 'peacefully', 'between', 'its', 'four', 'familia
r', 'walls', 'A', 'collection', 'of', 'textile', 'samples', 'lay', 'sprea
d', 'out', 'on', 'the', 'table', 'Samsa', 'was', 'a', 'travelling', 'sale
sman', 'and', 'above', 'it', 'there', 'hung', 'a', 'picture', 'that', 'h
e', 'had', 'recently', 'cut', 'out', 'of', 'an', 'illustrated', 'magazin
e', 'and', 'housed', 'in', 'a', 'nice', 'gilded', 'frame', 'It', 'showe
d', 'a', 'lady', 'fitted', 'out', 'with', 'a', 'fur', 'hat', 'and', 'fu
```

In [10]:

```python
filename = 'metamorphosis_clean.txt'
file = open(filename, 'rt')
text = file.read()
file.close()

words = text.split()


import string
table = str.maketrans('', '', string.punctuation)
stripped = [w.translate(table) for w in words]
print(stripped)
```

```
a , , it , was , his , mother , , its , quarter , to , seve
n', 'Didnt', 'you', 'want', 'to', 'go', 'somewhere', 'That', 'gentle', 'v
oice', 'Gregor', 'was', 'shocked', 'when', 'he', 'heard', 'his', 'own',
'voice', 'answering', 'it', 'could', 'hardly', 'be', 'recognised', 'as',
'the', 'voice', 'he', 'had', 'had', 'before', 'As', 'if', 'from', 'deep',
'inside', 'him', 'there', 'was', 'a', 'painful', 'and', 'uncontrollable',
'squeaking', 'mixed', 'in', 'with', 'it', 'the', 'words', 'could', 'be',
'made', 'out', 'at', 'first', 'but', 'then', 'there', 'was', 'a', 'sort',
'of', 'echo', 'which', 'made', 'them', 'unclear', 'leaving', 'the', 'hear
er', 'unsure', 'whether', 'he', 'had', 'heard', 'properly', 'or', 'not',
'Gregor', 'had', 'wanted', 'to', 'give', 'a', 'full', 'answer', 'and', 'e
xplain', 'everything', 'but', 'in', 'the', 'circumstances', 'contented',
'himself', 'with', 'saying', 'Yes', 'mother', 'yes', 'thankyou', 'Im', 'g
etting', 'up', 'now', 'The', 'change', 'in', 'Gregors', 'voice', 'probabl
y', 'could', 'not', 'be', 'noticed', 'outside', 'through', 'the', 'woode
n', 'door', 'as', 'his', 'mother', 'was', 'satisfied', 'with', 'this', 'e
xplanation', 'and', 'shuffled', 'away', 'But', 'this', 'short', 'conversa
tion', 'made', 'the', 'other', 'members', 'of', 'the', 'family', 'aware',
'that', 'Gregor', 'against', 'their', 'expectations', 'was', 'still', 'a
t', 'home', 'and', 'soon', 'his', 'father', 'came', 'knocking', 'at', 'on
e', 'of', 'the', 'side', 'doors', 'gently', 'but', 'with', 'his', 'fist'
```

In [12]:

```
filename = 'metamorphosis_clean.txt'
file = open(filename, 'rt')
text = file.read()
file.close()

words = text.split()

words = [word.lower() for word in words]
print(words)
```

```
['one', 'morning,', 'when', 'gregor', 'samsa', 'woke', 'from', 'trouble
d', 'dreams,', 'he', 'found', 'himself', 'transformed', 'in', 'his', 'be
d', 'into', 'a', 'horrible', 'vermin.', 'he', 'lay', 'on', 'his', 'armour
-like', 'back,', 'and', 'if', 'he', 'lifted', 'his', 'head', 'a', 'littl
e', 'he', 'could', 'see', 'his', 'brown', 'belly,', 'slightly', 'domed',
'and', 'divided', 'by', 'arches', 'into', 'stiff', 'sections.', 'the', 'b
edding', 'was', 'hardly', 'able', 'to', 'cover', 'it', 'and', 'seemed',
'ready', 'to', 'slide', 'off', 'any', 'moment.', 'his', 'many', 'legs,',
'pitifully', 'thin', 'compared', 'with', 'the', 'size', 'of', 'the', 'res
t', 'of', 'him,', 'waved', 'about', 'helplessly', 'as', 'he', 'looked.',
'"what\'s', 'happened', 'to', 'me?"', 'he', 'thought.', 'it', "wasn't",
'a', 'dream.', 'his', 'room,', 'a', 'proper', 'human', 'room', 'althoug
h', 'a', 'little', 'too', 'small,', 'lay', 'peacefully', 'between', 'it
s', 'four', 'familiar', 'walls.', 'a', 'collection', 'of', 'textile', 'sa
mples', 'lay', 'spread', 'out', 'on', 'the', 'table', '-', 'samsa', 'wa
s', 'a', 'travelling', 'salesman', '-', 'and', 'above', 'it', 'there', 'h
ung', 'a', 'picture', 'that', 'he', 'had', 'recently', 'cut', 'out', 'o
f', 'an', 'illustrated', 'magazine', 'and', 'housed', 'in', 'a', 'nice,',
'gilded', 'frame.', 'it', 'showed', 'a', 'lady', 'fitted', 'out', 'with',
```

In [1]:

```
import nltk
nltk.download()
```

showing info https://raw.githubusercontent.com/nltk/nltk_data/gh-pages/index.xml (https://raw.githubusercontent.com/nltk/nltk_data/gh-pages/index.xml)

Out[1]: True

In [4]: ▶|

```python
filename = 'metamorphosis_clean.txt'
file = open(filename, 'rt')
text = file.read()
file.close()

from nltk import sent_tokenize
sentences = sent_tokenize(text)
print(sentences)
```

he room\(on the left.') Gregor tried to imagine whether something of the
sort\nthat had happened to him today could ever happen to the chief clerk
\ntoo; you had to concede that it was possible.', "But as if in gruff\nre
ply to this question, the chief clerk's firm footsteps in his\nhighly pol
ished boots could now be heard in the adjoining room.", 'From the room on
his right, Gregor\'s sister whispered to him to let\nhim know: "Gregor, t
he chief clerk is here."', '"Yes, I know", said\nGregor to himself; but w
ithout daring to raise his voice loud enough\nfor his sister to hear hi
m.', '"Gregor", said his father now from the room to his left, "the chief
\nclerk has come round and wants to know why you didn\'t leave on the\nnea

rly train.', "We don't know what to say to him.", 'And anyway, he\nwants
to speak to you personally.', 'So please open up this door.', 'I\'m\nsure
he\'ll be good enough to forgive the untidiness of your room."', 'Then th
e chief clerk called "Good morning, Mr. Samsa".', '"He isn\'t\nwell", sa
id his mother to the chief clerk, while his father\ncontinued to speak th
rough the door.', '"He isn\'t well, please believe\nme.', 'Why else would
Gregor have missed a train!', 'The lad only ever\nthinks about the busine
ss.', "It nearly makes me cross the way he\nnever goes out in the evening
s; he's been in town for a week now but\nstayed home every evening.", 'He
sits with us in the kitchen and just\nreads the paper or studies train ti

In [6]:

```python
# Load data
filename = 'metamorphosis_clean.txt'
file = open(filename, 'rt')
text = file.read()
file.close()

from nltk.tokenize import word_tokenize
tokens = word_tokenize(text)
print(tokens)
```

```
['One', 'morning', ',', 'when', 'Gregor', 'Samsa', 'woke', 'from', 'troub
led', 'dreams', ',', 'he', 'found', 'himself', 'transformed', 'in', 'hi
s', 'bed', 'into', 'a', 'horrible', 'vermin', '.', 'He', 'lay', 'on', 'hi
s', 'armour-like', 'back', ',', 'and', 'if', 'he', 'lifted', 'his', 'hea
d', 'a', 'little', 'he', 'could', 'see', 'his', 'brown', 'belly', ',', 's
lightly', 'domed', 'and', 'divided', 'by', 'arches', 'into', 'stiff', 'se
ctions', '.', 'The', 'bedding', 'was', 'hardly', 'able', 'to', 'cover',
'it', 'and', 'seemed', 'ready', 'to', 'slide', 'off', 'any', 'moment',
'.', 'His', 'many', 'legs', ',', 'pitifully', 'thin', 'compared', 'with',
'the', 'size', 'of', 'the', 'rest', 'of', 'him', ',', 'waved', 'about',
'helplessly', 'as', 'he', 'looked', '.', '``', 'What', "'s", 'happened',
'to', 'me', '?', "'''", 'he', 'thought', '.', 'It', 'was', "n't", 'a', 'dr
eam', '.', 'His', 'room', ',', 'a', 'proper', 'human', 'room', 'althoug
h', 'a', 'little', 'too', 'small', ',', 'lay', 'peacefully', 'between',
'its', 'four', 'familiar', 'walls', '.', 'A', 'collection', 'of', 'textil
e', 'samples', 'lay', 'spread', 'out', 'on', 'the', 'table', '-', 'Sams
a', 'was', 'a', 'travelling', 'salesman', '-', 'and', 'above', 'it', 'the
re', 'hung', 'a', 'picture', 'that', 'he', 'had', 'recently', 'cut', 'ou
t', 'of', 'an', 'illustrated', 'magazine', 'and', 'housed', 'in', 'a', 'n
```

In [7]:

```python
# Load data
filename = 'metamorphosis_clean.txt'
file = open(filename, 'rt')
text = file.read()
file.close()

from nltk.tokenize import word_tokenize
tokens = word_tokenize(text)

words = [word for word in tokens if word.isalpha()]
print(words[:100])
```

```
['One', 'morning', 'when', 'Gregor', 'Samsa', 'woke', 'from', 'troubled',
'dreams', 'he', 'found', 'himself', 'transformed', 'in', 'his', 'bed', 'int
o', 'a', 'horrible', 'vermin', 'He', 'lay', 'on', 'his', 'back', 'and', 'i
f', 'he', 'lifted', 'his', 'head', 'a', 'little', 'he', 'could', 'see', 'hi
s', 'brown', 'belly', 'slightly', 'domed', 'and', 'divided', 'by', 'arche
s', 'into', 'stiff', 'sections', 'The', 'bedding', 'was', 'hardly', 'able',
'to', 'cover', 'it', 'and', 'seemed', 'ready', 'to', 'slide', 'off', 'any',
'moment', 'His', 'many', 'legs', 'pitifully', 'thin', 'compared', 'with',
'the', 'size', 'of', 'the', 'rest', 'of', 'him', 'waved', 'about', 'helples
sly', 'as', 'he', 'looked', 'What', 'happened', 'to', 'me', 'he', 'though
t', 'It', 'was', 'a', 'dream', 'His', 'room', 'a', 'proper', 'human', 'roo
m']
```

In [8]:
```python
from nltk.corpus import stopwords
stop_words = stopwords.words('english')
print(stop_words)
```

```
['i', 'me', 'my', 'myself', 'we', 'our', 'ours', 'ourselves', 'you', "you're", "you've", "you'll", "you'd", 'your', 'yours', 'yourself', 'yourselves', 'he', 'him', 'his', 'himself', 'she', "she's", 'her', 'hers', 'herself', 'it', "it's", 'its', 'itself', 'they', 'them', 'their', 'theirs', 'themselves', 'what', 'which', 'who', 'whom', 'this', 'that', "that'll", 'these', 'those', 'am', 'is', 'are', 'was', 'were', 'be', 'been', 'being', 'have', 'has', 'had', 'having', 'do', 'does', 'did', 'doing', 'a', 'an', 'the', 'and', 'but', 'if', 'or', 'because', 'as', 'until', 'while', 'of', 'at', 'by', 'for', 'with', 'about', 'against', 'between', 'into', 'through', 'during', 'before', 'after', 'above', 'below', 'to', 'from', 'up', 'down', 'in', 'out', 'on', 'off', 'over', 'under', 'again', 'further', 'then', 'once', 'here', 'there', 'when', 'where', 'why', 'how', 'all', 'any', 'both', 'each', 'few', 'more', 'most', 'other', 'some', 'such', 'no', 'nor', 'not', 'only', 'own', 'same', 'so', 'than', 'too', 'very', 's', 't', 'can', 'will', 'just', 'don', "don't", 'should', "should've", 'now', 'd', 'll', 'm', 'o', 're', 've', 'y', 'ain', 'aren', "aren't", 'couldn', "couldn't", 'didn', "didn't", 'doesn', "doesn't", 'hadn', "hadn't", 'hasn', "hasn't", 'haven', "haven't", 'isn', "isn't", 'ma', 'mightn', "mightn't", 'mustn', "mustn't", 'needn', "needn't", 'shan', "shan't", 'shouldn', "shouldn't", 'wasn', "wasn't", 'weren', "weren't", 'won', "won't", 'wouldn', "wouldn't"]
```

In [10]:

```python
filename = 'metamorphosis_clean.txt'
file = open(filename, 'rt')
text = file.read()
file.close()

from nltk.tokenize import word_tokenize
tokens = word_tokenize(text)

tokens = [w.lower() for w in tokens]

import string
table = str.maketrans('', '', string.punctuation)
stripped = [w.translate(table) for w in tokens]

words = [word for word in stripped if word.isalpha()]

from nltk.corpus import stopwords
stop_words = set(stopwords.words('english'))
words = [w for w in words if not w in stop_words]
print(words)
```

```
['one', 'morning', 'gregor', 'samsa', 'woke', 'troubled', 'dreams', 'foun
d', 'transformed', 'bed', 'horrible', 'vermin', 'lay', 'armourlike', 'bac
k', 'lifted', 'head', 'little', 'could', 'see', 'brown', 'belly', 'slight
ly', 'domed', 'divided', 'arches', 'stiff', 'sections', 'bedding', 'hardl
y', 'able', 'cover', 'seemed', 'ready', 'slide', 'moment', 'many', 'leg
s', 'pitifully', 'thin', 'compared', 'size', 'rest', 'waved', 'helplessl
y', 'looked', 'happened', 'thought', 'nt', 'dream', 'room', 'proper', 'hu
man', 'room', 'although', 'little', 'small', 'lay', 'peacefully', 'four',
'familiar', 'walls', 'collection', 'textile', 'samples', 'lay', 'spread',
'table', 'samsa', 'travelling', 'salesman', 'hung', 'picture', 'recentl
y', 'cut', 'illustrated', 'magazine', 'housed', 'nice', 'gilded', 'fram
e', 'showed', 'lady', 'fitted', 'fur', 'hat', 'fur', 'boa', 'sat', 'uprig
ht', 'raising', 'heavy', 'fur', 'muff', 'covered', 'whole', 'lower', 'ar
m', 'towards', 'viewer', 'gregor', 'turned', 'look', 'window', 'dull', 'w
eather', 'drops', 'rain', 'could', 'heard', 'hitting', 'pane', 'made', 'f
eel', 'quite', 'sad', 'sleep', 'little', 'bit', 'longer', 'forget', 'nons
ense', 'thought', 'something', 'unable', 'used', 'sleeping', 'right', 'pr
esent', 'state', 'could', 'nt', 'get', 'position', 'however', 'hard', 'th
rew', 'onto', 'right', 'always', 'rolled', 'back', 'must', 'tried', 'hund
```

In [12]:

```python
filename = 'metamorphosis_clean.txt'
file = open(filename, 'rt')
text = file.read()
file.close()

from nltk.tokenize import word_tokenize
tokens = word_tokenize(text)

from nltk.stem.porter import PorterStemmer
porter = PorterStemmer()
stemmed = [porter.stem(word) for word in tokens]
print(stemmed)
```

```
['one', 'morn', ',', 'when', 'gregor', 'samsa', 'woke', 'from', 'troubl',
'dream', ',', 'he', 'found', 'himself', 'transform', 'in', 'hi', 'bed',
'into', 'a', 'horribl', 'vermin', '.', 'He', 'lay', 'on', 'hi', 'armour-l
ik', 'back', ',', 'and', 'if', 'he', 'lift', 'hi', 'head', 'a', 'littl',
'he', 'could', 'see', 'hi', 'brown', 'belli', ',', 'slightli', 'dome', 'a
nd', 'divid', 'by', 'arch', 'into', 'stiff', 'section', '.', 'the', 'be
d', 'wa', 'hardli', 'abl', 'to', 'cover', 'it', 'and', 'seem', 'readi',
'to', 'slide', 'off', 'ani', 'moment', '.', 'hi', 'mani', 'leg', ',', 'pi
ti', 'thin', 'compar', 'with', 'the', 'size', 'of', 'the', 'rest', 'of',
'him', ',', 'wave', 'about', 'helplessli', 'as', 'he', 'look', '.', '``',
'what', "'s", 'happen', 'to', 'me', '?', "'", 'he', 'thought', '.', 'I
t', 'wa', "n't", 'a', 'dream', '.', 'hi', 'room', ',', 'a', 'proper', 'hu
man', 'room', 'although', 'a', 'littl', 'too', 'small', ',', 'lay', 'pea
c', 'between', 'it', 'four', 'familiar', 'wall', '.', 'A', 'collect', 'o
f', 'textil', 'sampl', 'lay', 'spread', 'out', 'on', 'the', 'tabl', '-',
'samsa', 'wa', 'a', 'travel', 'salesman', '-', 'and', 'abov', 'it', 'ther
e', 'hung', 'a', 'pictur', 'that', 'he', 'had', 'recent', 'cut', 'out',
'of', 'an', 'illustr', 'magazin', 'and', 'hous', 'in', 'a', 'nice', ',',
'gild', 'frame', '.', 'It', 'show', 'a', 'ladi', 'fit', 'out', 'with',
```

```
In [103]:  ▶  from sklearn.feature_extraction.text import CountVectorizer
              filename = 'metamorphosis_clean.txt'
              file = open(filename, 'rt')
              text = file.read()
              file.close()
              # list of text documents
              text=[text]
              # create the transform
              vectorizer = CountVectorizer()
              # tokenize and build vocab
              vectorizer.fit(text)
              # summarize
              vectorizer.vocabulary_
              # encode document
              vector = vectorizer.transform(text)
              # summarize encoded vector
              print(vector.shape)
              print(type(vector))
              print(vector.toarray())
```

```
(1, 2970)
<class 'scipy.sparse.csr.csr_matrix'>
[[ 2  2  2 ...  6 50  4]]
```

```
In [91]:  ▶  vectorizer.vocabulary_
```

```
 'leaving': 1494,
 'hearer': 1226,
 'unsure': 2766,
 'whether': 2887,
 'properly': 2006,
 'wanted': 2839,
 'give': 1131,
 'full': 1100,
 'answer': 122,
 'explain': 946,
 'circumstances': 438,
 'contented': 545,
 'saying': 2228,
 'thank': 2597,
 'noticed': 1757,
 'outside': 1825,
 'wooden': 2933,
 'satisfied': 2221,
 'explanation': 949,
 'shuffled': 2317,
```

In [108]: ▶|
```python
from sklearn.feature_extraction.text import TfidfVectorizer

filename = 'metamorphosis_clean.txt'
file = open(filename, 'rt')
text = file.read()
file.close()

text = [text]

vectorizer = TfidfVectorizer()

vectorizer.fit(text)

print(vectorizer.vocabulary_)
print(vectorizer.idf_)

vector = vectorizer.transform([text[0]])

vector.shape
vector.toarray()
```

```
rmation': 2690, 'appearance': 138, 'staring': 2451, 'motionless': 1682,
'coming': 479, 'threatened': 2629, 'bite': 279, 'hide': 1247, 'flee': 103
0, 'protruded': 2012, 'carrying': 375, 'bedsheet': 241, 'arranged': 168,
'bent': 268, 'sheet': 2290, 'glimpsed': 1141, 'arrangement': 169, 'fourte
en': 1078, 'appreciated': 146, 'girl': 1129, 'somewhat': 2396, 'useless':
2787, 'behaved': 254, 'improvement': 1336, 'visit': 2819, 'persuaded': 19
03, 'listened': 1539, 'closely': 457, 'approved': 152, 'unfortunate': 274
3, 'courage': 597, 'adult': 61, 'appreciation': 147, 'square': 2436, 'met
ers': 1636, 'crawl': 607, 'entertain': 887, 'freely': 1084, 'relaxed': 21
12, 'happy': 1200, 'letting': 1508, 'crash': 605, 'entertaining': 888, 't
races': 2680, 'removing': 2128, 'dare': 636, 'sixteen': 2346, 'bravely':
311, 'cook': 566, 'helped': 1238, 'unless': 2753, 'choose': 432, 'approac
hed': 150, 'express': 952, 'joy': 1424, 'folds': 1045, 'thrown': 2637, 'r
efrained': 2097, 'spying': 2435, 'pair': 1847, 'feeble': 990, 'heaving':
1232, 'heaviest': 1230, 'warnings': 2845, 'lasted': 1470, 'labouring': 14
55, 'minutes': 1650, 'saddened': 2203, 'heart': 1228, 'abandoned': 18, 'w
hose': 2900, 'whereabouts': 2885, 'tone': 2662, 'added': 52, 'cope': 570,
'comes': 475, 'unchanged': 2726, 'communication': 485, 'monotonous': 167
1, 'months': 1674, 'emptied': 865, 'transform': 2689, 'cave': 389, 'inher
ited': 1368, 'unimpeded': 2748, 'shaken': 2281, 'influence': 1365, 'mindl
```

In [ ]: ▶|

In [ ]: ▶|