Will Schell

NLTK Assignment 1

Chapter 1 end of chap problems:

4a) Words in text 2:

Code: len(text2)

- 141,576 words

4b) Distinct words in text 2:

Code: len(set(text2))

- 6833 words
- 5) In table 1.1, compare the lexical diversity scores for romantic fiction and humor. Which has a higher lexically diverse score?

Romantic Fiction is more lexically diverse

- 8) What is the purpose of len(set(text4)) and state the 2 steps in preforming the computation
- the purpose of this statement is to get the distinct word count
- first, it takes the set of all words and puts them into a list with no repeating words using the set() function
- second, it takes the list of words and counts them using the len() function 10)

```
>>> my_sent = ["Hey," , " you" , " never" , " know."]
>>> my_sent = ''.join(my_sent)
>>> print(my_sent)
Hey, you never know.
>>> my_sent = my_sent.split()
>>> print(my_sent)
['Hey,', 'you', 'never', 'know.']
>>> |
```

15)

25)

```
>>> sent = ["she", "sells", "sea", "shells", "by", "the", "sea", "shore"]
>>> print([w for w in set(sent) if w.startswith('sh')])
'shells', 'shore', 'she']
>>> print([w for w in set(sent) if len(w) > 4])
'shells', 'sells', 'shore']
>>> ■
```

```
>>> def vocab_size(text):
... return len(text)
```

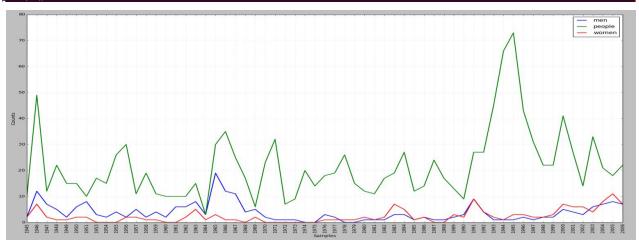
Chapter 2 end of chapter problems:

1)

2)

4)

```
>>> from nitk.corpus import state_union
| from nit
```



```
>>> len(text2)
14576
32 len(set(text2))
33 len(set(text2))
33 len(set(text2))
33 len(set(text3))
35 len(text3)
35 len(text3)
35 len(text3)
36 len(set(text3))
37 len(set(text2))
38 len(set(text3))
39 len(text3) / len(set(text3))
39 len(text3) / len(set(text3))
30 len(text3) / len(set(text3))
30 len(text3) / len(set(text3))
30 len(text3) / len(set(text3))
31 len(set(text3))
32 len(text3) / len(set(text3))
32 len(text3) / len(set(text3))
33 len(text3) / len(set(text3))
34 len(set(text3))
35 len(text3) / len(set(text3))
36 len(text3) / len(set(text3))
37 len(text3) / len(set(text3))
38 len(text3) / len(set(text3))
39 len(text3) / len(set(text3))
30 len(text3) / len(set(text3))
30 len(text3) / len(set(text3))
31 len(text3) / len(set(text3))
32 len(text3) / len(set(text3))
33 len(text3) / len(set(text3))
34 len(text3) / len(set(text3))
35 len(text3) / len(set(text3))
36 len(text3) / len(set(text3))
37 len(text3) / len(set(text3))
38 len(text3) / len(set(text3))
39 len(text3) / len(set(text3))
39 len(text3) / len(set(text3))
30 len(text3) / len(set(text3))
30 len(text3) / len(set(text3))
31 len(text3) / len(set(text3))
32 len(text3) / len(set(text3))
33 len(text3) / len(set(text3))
34 len(text3) / len(set(text3))
35 len(text3) / len(set(text3))
35 len(text3) / len(set(text3))
35 len(text3) / len(set(text3))
36 len(text3) / len(set(text3))
37 len(text3) / len(set(text3))
38 len(text3) / len(set(text3))
39 len(text3) / len(set(text3))
30 len(text3) / len(
```

```
we text2 concordance("little")

Ospalaying 25 of 160 natchess

Id spare so considerable a sum with little inconvenience."—He thought of it present, of shewing them with how little attention to the confort of other p unds from the fortune of their dear little boy would be impovertishing him to the to ruin himself, and their poor little boy—"Mhy 150 be sure said to the foreign and the propertishing him to the to ruin himself, and their poor little boy—"Mhy 150 be sure said to the confortable." His wife hesitated a little however, in giving her consent to owned their of the himself and tittle, however, in giving her consent to owned him, to hear him read with so little present of furniture too may be accoved him. In the hear him read with so little present of furniture too may be accoved him. In the himself and the himsel
```

Chapter 3 end of chapter problems: 6)