

Basic NLP Project

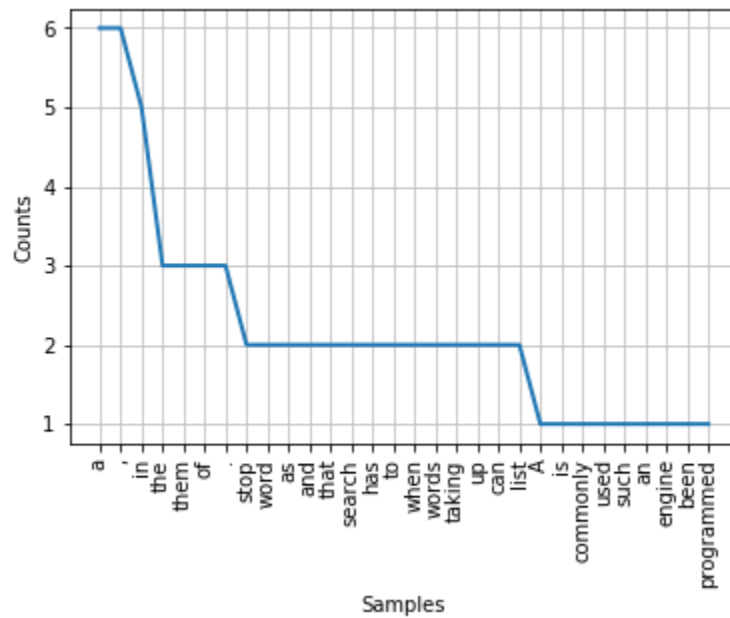
Parse a Text File to show the count of Words in the File.

Also, illustrate the count of words in a graph.

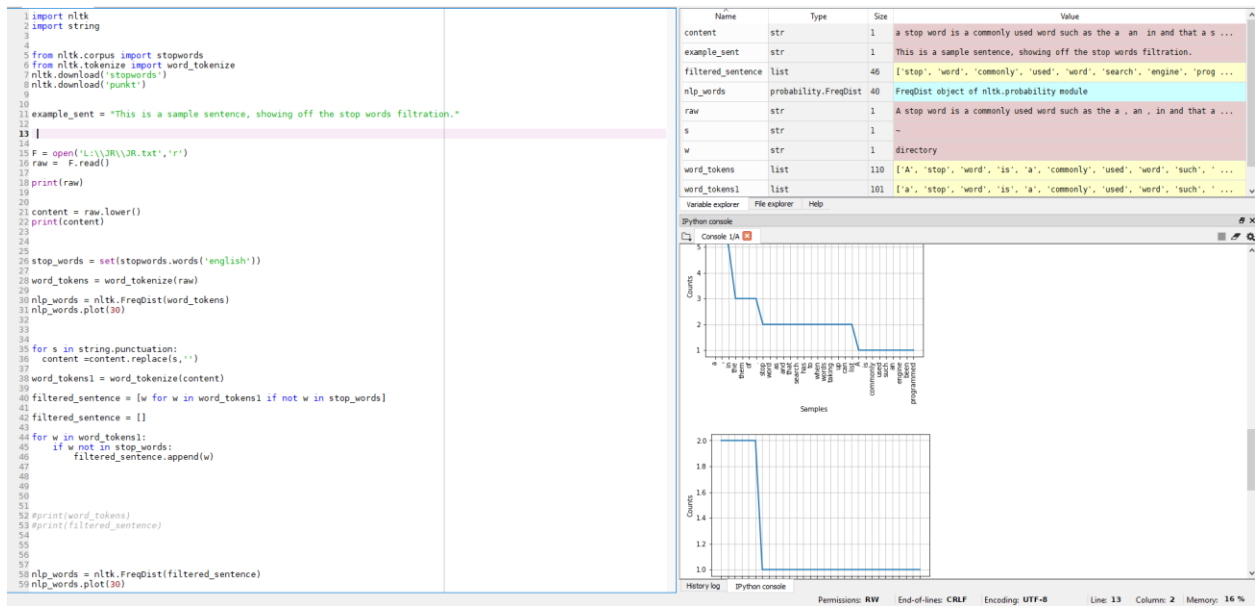
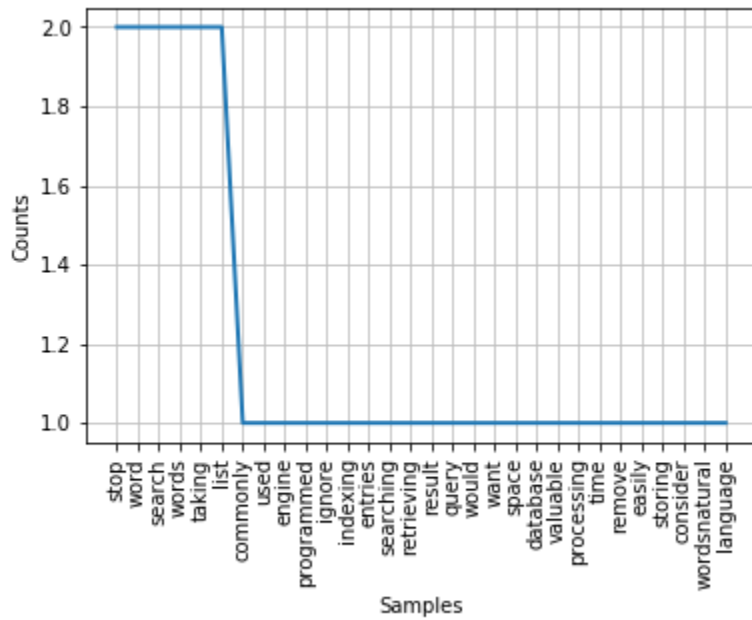
Compare, the results obtained before and after cleaning the texts.

Solution:

Plot before cleaning the text



Plot after cleaning text



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In [19]: wordfreq1 = []
...: for w in filtered_sentence:
...:     wordfreq1.append(filtered_sentence.count(w))
...:
...: List1 = str(filtered_sentence)
...: Frequencies1 = str(wordfreq1)
...: d1 = {'Month':List1,'Day':Frequencies1}
...: df1 = pd.DataFrame(d, index=[0])
...: df1
Out[19]:

```

	Month	Day
0	['A', 'stop', 'word', 'is', 'a', 'commonly', '...]	[1, 2, 2, 1, 6, 1, 1, 2, 1, 2, 3, 6, 6, 1, 6, ...]

```

In [20]: wordfreq1 = []
...: for w in filtered_sentence:
...:     wordfreq1.append(filtered_sentence.count(w))
...:
...: List1 = str(filtered_sentence)
...: Frequencies1 = str(wordfreq1)
...: d1 = {'Month':List1,'Day':Frequencies1}
...: df1 = pd.DataFrame(d1, index=[0])
...: df1
Out[20]:

```

	Month	Day
0	['stop', 'word', 'commonly', 'used', 'word', '...]	[2, 2, 1, 1, 2, 2, 1, 1, 1, 1, 1, 1, 1, 1, 2, ...]

Looking at the two graphs the first thing I noticed that in the first graph before cleaning the data the words in with smaller and upper caps were counted as a different word.

The maximum of any word found in the first graph was 6 but in the second it reduced to 2. Along with that it can be seen that the most occurring words of the first graph were removed from the data after data cleaning which shows how many meaning less words we have in a normal text.

Further, stop words and punctuations were also present in the first graph which were removed in the second graph after cleaning the data.

For our ease we only plotted 30 words in a graph so the words on x-axis are visible and readable.