

```
import nltk
nltk.download('stopwords')
nltk.download('wordnet')
nltk.download('punkt')
nltk.download('omw-1.4')

[nltk_data] Downloading package stopwords to /
[nltk_data] Package stopwords is already up-
[nltk_data] Downloading package wordnet to /ro
[nltk_data] Package wordnet is already up-to
[nltk_data] Downloading package punkt to /root
[nltk_data] Package punkt is already up-to-d
[nltk_data] Downloading package omw-1.4 to /ro
True
```



```
from nltk.book import *

*** Introductory Examples for the NLTK Book **
Loading text1, ..., text9 and sent1, ..., sent
Type the name of the text or sentence to view
Type: 'texts()' or 'sents()' to list the mater
text1: Moby Dick by Herman Melville 1851
text2: Sense and Sensibility by Jane Austen 18
text3: The Book of Genesis
text4: Inaugural Address Corpus
text5: Chat Corpus
text6: Monty Python and the Holy Grail
text7: Wall Street Journal
text8: Personals Corpus
text9: The Man Who Was Thursday by G . K . Che
```



```
text1.tokens[:20]
```

```
[['',
 'Moby',
 'Dick',
 'by',
 'Herman',
 'Melville',
 '1851',
 ''],
 'ETYMOLOGY',
 ':',
 '(',
 'Supplied',
 'by',
 'a',
 'Late',
 'Consumptive',
 'Usher',
```

```
'to',
'a',
'Grammar']
```

The two things I would describe about the tokens method is that it's easy to use for a couple of words in a text and it separates all the words with commas which makes it very easy to read.

```
text1.concordance('sea', 5, 5)
```

```
Displaying 5 of 455 matches:
the sea
Indian Sea
the sea
the sea
the sea
```

The count methods act the same as it outputs the number of times the word appears in the text or list.

```
text1.tokens.count('sea')
```

```
433
```

```
text1.count('sea')
```

```
433
```

```
raw_text = 'To make matters even more interesting, Ra
```

```
from nltk.tokenize import word_tokenize
tokens = word_tokenize(raw_text)
tokens[:10]
```

```
['To',
 'make',
 'matters',
 'even',
 'more',
 'interesting',
 ',',
 'Rawkus',
 'says',
 'he']
```



Shon Liskov
4:19 PM Today



Monsieur, K. (2022, February 27). Rawkus is no longer coaching Sentinels - Valorant. [esports.com](https://www.esports.com/en/rawkus-is-no-longer-coaching-sentinels-329630). Retrieved September 11, 2022, from <https://www.esports.com/en/rawkus-is-no-longer-coaching-sentinels-329630>

```
from nltk.tokenize import sent_tokenize
tokens = sent_tokenize(raw_text)
tokens

['To make matters even more interesting,
Rawkus says he hasn't been coaching the team
for two weeks already.',
 'Unfortunately for the FaZe player turned
Sentinels coach, the only tournament that
will go on his resume is VCT Champions, where
Sentinels was eliminated in the group stage
after losses to FURIA and KRÜ Esports.',
 'The ex-coach also detailed the deal FaZe
and Sentinels had in place for him.',
 'Both organizations worked out a deal after
FaZe was eliminated from the VCT Last Chance
Qualifier.',
 'Sentinels essentially borrowed Rawkus'
services while he was still contracted to
FaZe, up until January 1st.']
```

```
from nltk.stem import PorterStemmer
stemmer = PorterStemmer()
tokens = word_tokenize(raw_text)
for w in tokens:
    print(stemmer.stem(w))
```

```
rawku
say
he
hasn
,
t
been
coach
the
team
for
two
week
alreadi
.
unfortun
for
the
faze
player
turn
sentinel
coach
,
the
onli
```

tournament
 that
 will
 go
 on
 hi
 resum
 is
 vct
 champion
 ,
 where
 sentinel
 wa
 elimin
 in
 the
 group
 stage
 after
 loss
 to
 furia
 and
 krü
 esport
 .
 the
 ex-coach
 also
 detail
 the



Shon Liskov
4:29 PM Today



The NLTK library is very useful and has many packages to choose from for many NLP projects. The code quality of NLTK is very slick and simple to read and write. Only takes about three to five lines to output the result you wish for. Chat bots are perfect examples for the use of NLTK and utilizing the works of how NLTK can generate different outputs for user input.

interest - interesting rawku - rawkus elimin - eliminated
 wa - wa week - week

```

from nltk.stem import WordNetLemmatizer
lemma = WordNetLemmatizer()
words = nltk.word_tokenize(raw_text)
for w in words:
    print(lemma.lemmatize(w))
  
```

sentineis
 coach
 ,
 the
 only
 tournament
 that
 will
 go
 on
 his
 resume
 is

VCT
Champions
,
where
Sentinels
wa
eliminated
in
the
group
stage
after
loss
to
FURIA
and
KRÜ
Esports
.
The
ex-coach
also
detailed
the
deal
FaZe
and
Sentinels
had
in
place
for
him
.
Both
organization
worked
out
a
deal
after
FaZe
wa
eliminated
from
the

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