

▼ POS tagging

```
import nltk
from nltk.tokenize import word_tokenize
from nltk import pos_tag
```

```
nltk.download('punkt')
nltk.download('averaged_perceptron_tagger')
```

```
[nltk_data] Downloading package punkt to /root/nltk_data...
[nltk_data] Package punkt is already up-to-date!
[nltk_data] Downloading package averaged_perceptron_tagger to
[nltk_data] /root/nltk_data...
[nltk_data] Package averaged_perceptron_tagger is already up-to-
[nltk_data] date!
True
```

```
# Input text
input_text = "The quick brown fox jumps over the lazy dog."
```

```
# Tokenize the input text into words
words = word_tokenize(input_text)
```

```
# Perform POS tagging
pos_tags = pos_tag(words)
```

```
# Print the POS tags for each word
for word, pos_tag in pos_tags:
    print(f"{word}({pos_tag})", end=" ")
```

```
The(DT) quick(JJ) brown(NN) fox(NN) jumps(VBZ) over(IN) the(DT) lazy(JJ) dog(NN) .(.)
```

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