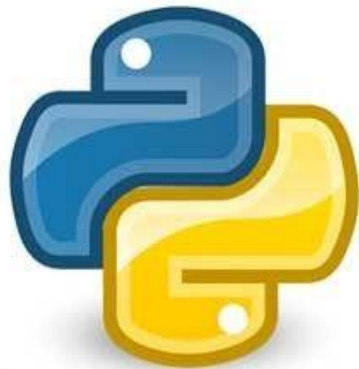


Finding Antonyms And Synonym Using Python Natural Language Processing Toolkit



Natural Language Analysis
with Python NLTK

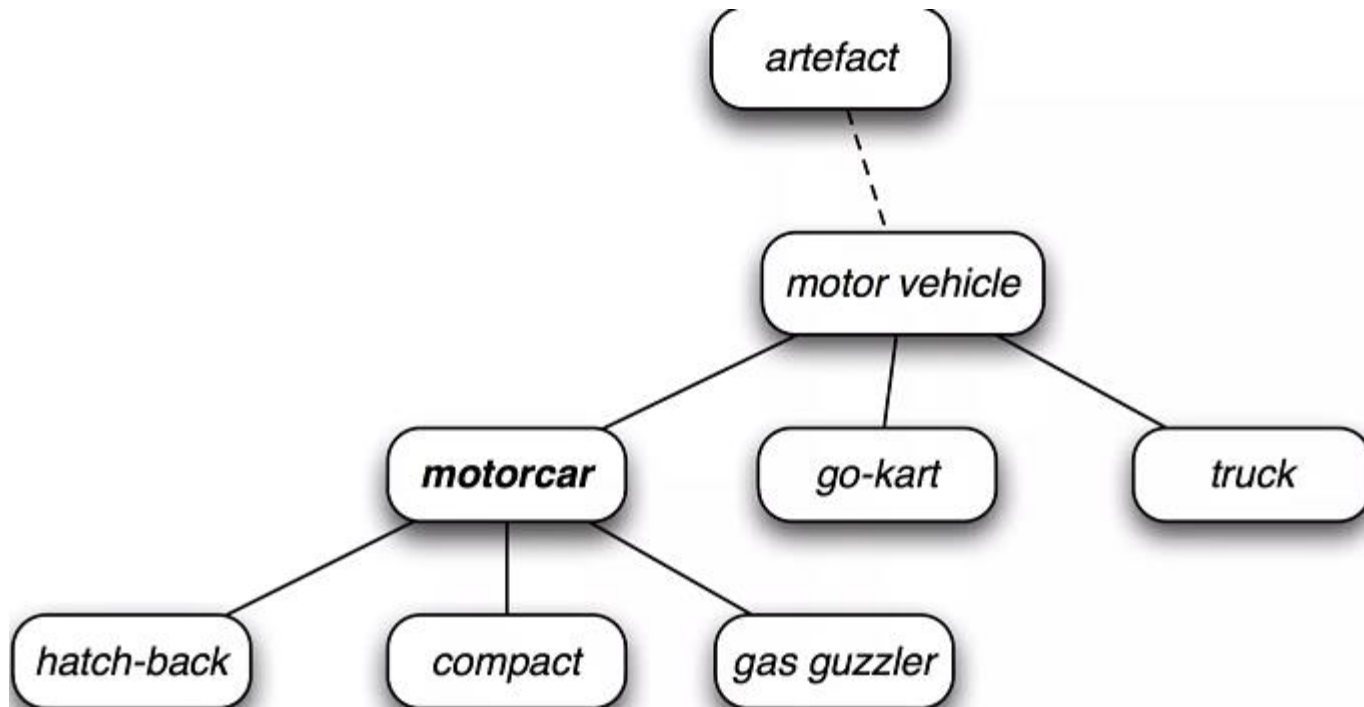
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Synonyms/Antonyms Using Python NLTK

Step#1 Import NLTK and Wordnet

```
import nltk  
from nltk.corpus import wordnet
```

Wordnet is a large collection of words and vocabulary from the English language that are related to each other and are grouped in some way. A collection of similar words is called lemmas.



Synonyms/Antonyms Using Python NLTK

Step#2 Declare 2 arrays to collect Synonyms and Antonyms

```
array_synonyms = []  
array_antonyms = []
```

Step#3 Retrieve all synonym using loop

Synsets: synonyms are words that have similar meanings. A synonym set, or **synset**, is a group of synonyms. A synset, therefore, corresponds to an abstract concept.

```
for vsyn in wordnet.synsets("good"):
```

Step#4 Retrieve synonym names (using lemmas name property) And append it to array

The synonyms contained within a synset are called lemmas. You can access the string versions of these synonyms via a Synset's lemma_names property

```
for l in vsyn.lemmas():  
    print(l.name())  
    array_synonyms.append(l.name())
```

**Step#5 Check Lemmas Antonyms method
And append it to array_antonyms array**

```
if l.antonyms():  
    array_antonyms.append(l.antonyms()[0].name())
```

Step#6 Print Array output

```
print(array_synonyms)  
print(array_antonyms)
```

Any Question?

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