

# 07-02-2023

In [ ]:

```
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# 20BCE2685
```

In [1]:

```
from urllib import request
```

In [9]:

```
url = "https://www.gutenberg.org/files/69969/69969-0.txt"
```

In [10]:

```
response = request.urlopen(url)
```

In [11]:

```
raw = response.read().decode('utf8')
```

In [12]:

```
import nltk  
from nltk.tokenize import word_tokenize  
tokens = word_tokenize(raw)
```

In [13]:

```
print(tokens[:20])
```

```
['\ufffdThe', 'Project', 'Gutenberg', 'eBook', 'of', 'The', 'golden', 'whale  
s', 'of', 'California', 'and', 'other', 'rhymes', 'in', 'the', 'American',  
'language', ',', 'by', 'Vachel']
```

In [14]:

```
from nltk.stem import PorterStemmer  
porter = PorterStemmer()  
porter.stem('walking')
```

Out[14]:

```
'walk'
```

In [15]:

```
from nltk.stem import PorterStemmer
porter = PorterStemmer()
porter.stem('cacti')
```

Out[15]:

'cacti'

In [16]:

```
from nltk.stem import PorterStemmer
porter = PorterStemmer()
porter.stem('happiness')
```

Out[16]:

'happi'

In [17]:

```
from nltk.stem import LancasterStemmer
porter = LancasterStemmer()
porter.stem('happiness')
```

Out[17]:

'happy'

In [18]:

```
from nltk.stem import RegexpStemmer
porter = RegexpStemmer('ing')
porter.stem('singing')
```

Out[18]:

's'

In [19]:

```
from nltk.stem import RegexpStemmer
porter = RegexpStemmer('ing')
porter.stem('cling ring')
```

Out[19]:

'cl r'

In [20]:

```
from nltk.stem import SnowballStemmer
porter = SnowballStemmer('french')
porter.stem('detester')
```

Out[20]:

'detest'

In [21]:

```
from nltk.stem import SnowballStemmer
porter = SnowballStemmer('french')
porter.stem('avoir')
```

Out[21]:

'avoir'

In [22]:

```
porter = PorterStemmer()
text = "The moving picture captains of industry, like the California gold finders of 1849,"
text = [porter.stem(token) for token in text.split(" ")]
```

In [23]:

```
print(" ".join(text))
```

the move pictur captain of industry, like the california gold finder of 184  
9, make coloss fortun in two or three years, have the same gloriou irrespons  
and occasion need of the sheriff.