

In this assignment students have to find the frequency of words in a webpage. User can use urllib and BeautifulSoup to extract text from webpage.

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In [1]: from bs4 import BeautifulSoup
import urllib.request
import nltk
from nltk.corpus import stopwords
```

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In [2]: response = urllib.request.urlopen('http://php.net/')
html = response.read()
```

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In [3]: soup = BeautifulSoup(html,"html5lib")
```

```
In [4]: # Get all the text data from webpage
text = soup.get_text(strip=True)
# Split the data into words i.e. tokens
tokens = [t for t in text.split()]
```

```
In [5]: # Remove stop words from tokens
stw = stopwords.words('english')
clean_tokens = tokens[:]
for token in tokens:
    if token in stopwords.words('english'):
        clean_tokens.remove(token)
```

```
In [6]: # Calculate the frequency of words:
freq = nltk.FreqDist(tokens)
```

```
In [7]: i = 0
for key,val in freq.items():
    print(str(key)+':'+str(val))
    i = i+1
    if i > 4:
        break
```

PHP::1

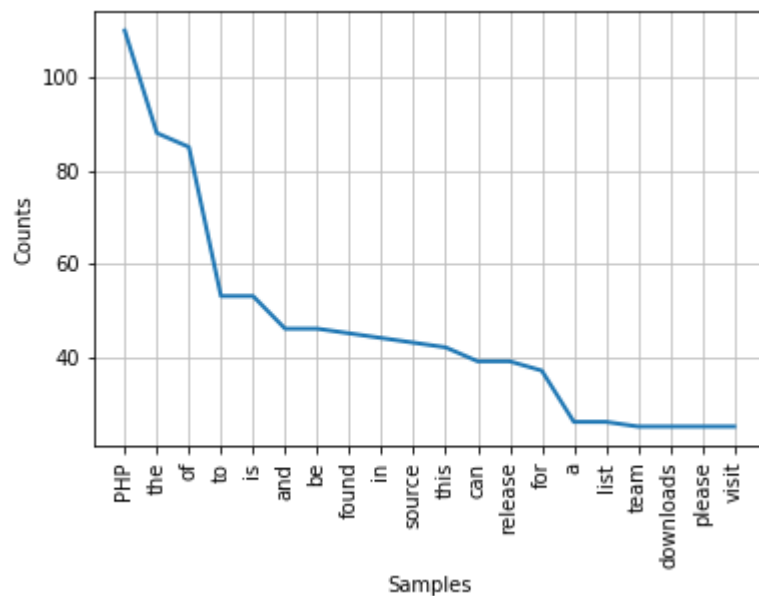
Hypertext:1

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In [8]: # Plotting top 20 frequently used words  
freq.plot(20,cumulative=False)
```



```
Out[8]: <matplotlib.axes._subplots.AxesSubplot at 0x18cf75363c8>
```

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In [ ]:
```