Find the frequency of words in a webpage

In [92]:

```
#import packages
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
import seaborn as sns
%matplotlib inline
import nltk
import re
import urllib.request
from bs4 import BeautifulSoup as bs
nltk.download('stopwords')
from nltk.corpus import stopwords
from nltk.stem.porter import PorterStemmer
```

```
[nltk_data] Downloading package stopwords to
[nltk_data]     C:\Users\mallikarjuna.m\AppData\Roaming\nltk_data...
[nltk_data]   Package stopwords is already up-to-date!
```

In [66]:

```
#Extract data from web_page
web_page= urllib.request.urlopen('http://php.net/')
html = web_page.read()
data = bs(html,"html5lib")
string = data.get_text(strip=True)
words = [i for i in string.split()]
```

In [68]:

```
len(words)
```

Out[68]:

```
3328
```

In [86]:

```
#pre-process the extracted data
corpus = []
for i in range(0, len(words)):
    review = re.sub('[^a-zA-Z]', ' ', words[i])
    review = review.lower()
    review = review.split()
    ps = PorterStemmer()
    review = [ps.stem(word) for word in review if not word in set(stopwords.words('english'
    review = ' '.join(review)
    corpus.append(review)
```

In [87]:

```
while '' in corpus:
    corpus.remove('')
```

In [88]:

```
corpus
```

Out[88]:

```
['php',
 'hypertext',
 'preprocessordownloadsdocumentationget',
 'involvedhelpget',
 'startedintroductiona',
 'simpl',
 'tutoriallanguag',
 'referencebas',
 'syntaxtypesvariablesconstantsexpressionsoperatorscontrol',
 'structuresfunctionsclass',
 'objectsnamespaceserrorsexceptionsgeneratorsrefer',
 'explainedpredefin',
 'variablespredefin',
 'exceptionspredefin',
 'interfac',
 'classescontext',
 'option',
```

In [93]:

```
#Word Frequency count and disply of top 10 words by frequency
freq = nltk.FreqDist(corpus)
word_list = pd.DataFrame([[key,value] for key,value in freq.items()],columns=["Words","Freq
top_10 = word_list.sort_values(by=['Freq'],ascending=False).head(10)
```

In [94]:

```
top_10
```

Out[94]:

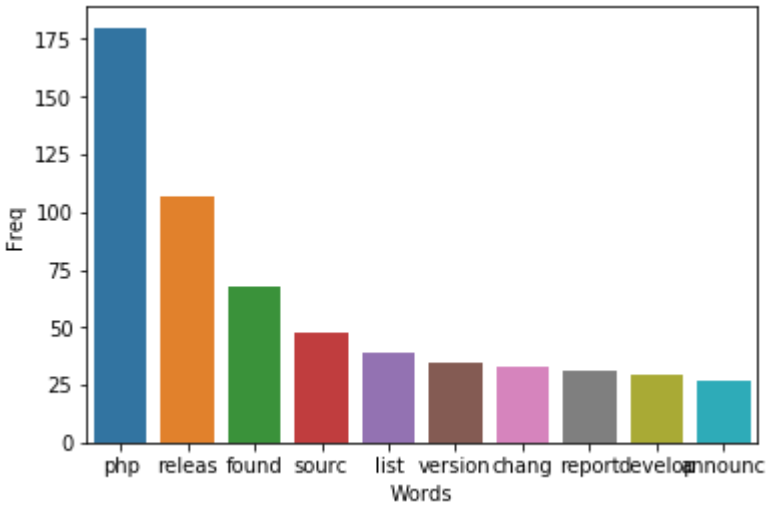
	Words	Freq
0	php	180
142	releas	107
155	found	68
147	sourc	48
157	list	39
146	version	35
158	chang	33
235	report	31
133	develop	29
135	announc	27

In [103]:

```
sns.barplot(x='Words', y= 'Freq', data=top_10)
```

Out[103]:

```
<matplotlib.axes._subplots.AxesSubplot at 0x2a34c9ca048>
```



In [ ]: