Import Statements

```
In [10]:  import nltk
          import nltk.corpus
          from nltk.corpus import brown
          from nltk.text import Text
```
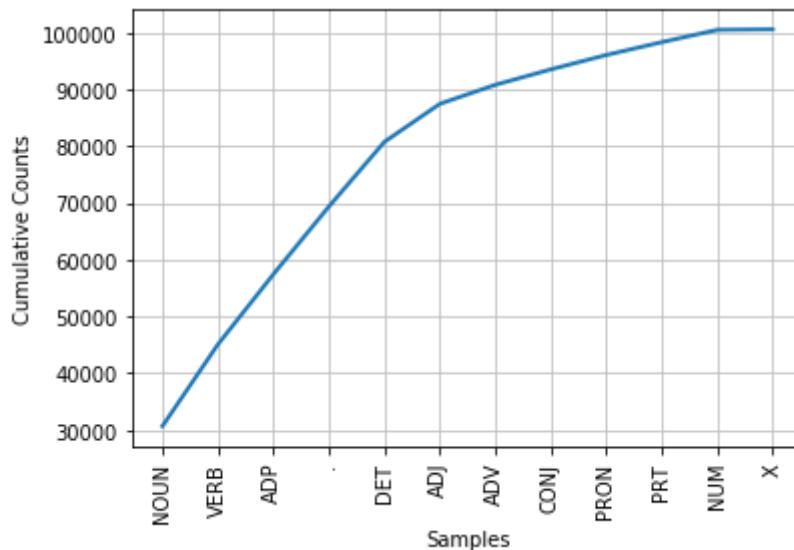
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```
In [11]:  text = nltk.word_tokenize("I want to run. I loved the run!")
          nltk.pos_tag(text)
```

```
Out[11]:  [('I', 'PRP'),
          ('want', 'VBP'),
          ('to', 'TO'),
          ('run', 'VB'),
          ('.', '.'),
          ('I', 'PRP'),
          ('loved', 'VBD'),
          ('the', 'DT'),
          ('run', 'NN'),
          ('!', '.')]
```

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```
In [12]: brwn_news_tg = brown.tagged_words(categories='news', tagset='universal')
         tag_freq_dist = nltk.FreqDist(tag for (word, tag) in brwn_news_tg)
         tag_freq_dist.keys()
         tag_freq_dist.plot(cumulative=True)
         tag_freq_dist
```



```
Out[12]: FreqDist({'NOUN': 30654, 'VERB': 14399, 'ADP': 12355, '.': 11928, 'DE
         T': 11389, 'ADJ': 6706, 'ADV': 3349, 'CONJ': 2717, 'PRON': 2535, 'PRT':
         2264, ...})
```

```
In [13]: total = tag_freq_dist['NOUN']+tag_freq_dist['DET']+tag_freq_dist['PRT']+
         tag_freq_dist['VERB']+tag_freq_dist['PRON']
         percent = 0
         for i in tag_freq_dist:
             percent = percent + tag_freq_dist[i]

         percentVal = total * 100 / percent
         print('Percent of words tagged: ',percentVal)
```

```
         Percent of words tagged:  60.903594088748335
```

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```
In [14]: brown_news_tagged = brown.tagged_words(categories='news', tagset = 'univ
         ersal')
         tag_fd = nltk.FreqDist(tag for (word, tag) in brown_news_tagged)
         tag_fd.keys()
```

```
Out[14]: dict_keys(['DET', 'NOUN', 'ADJ', 'VERB', 'ADP', '.', 'ADV', 'CONJ', 'PR
         T', 'PRON', 'NUM', 'X'])
```

In [15]:
```python
wsj = nltk.corpus.treebank.tagged_words(tagset = 'universal')
word_tag_fd = nltk.FreqDist(wsj)
[word + "/" + tag for (word, tag) in word_tag_fd if tag.startswith('V')]
cfd2 = nltk.ConditionalFreqDist((tag, word) for (word, tag) in wsj)
s = cfd2['PRT'].keys()
s
```

Out[15]: dict_keys(['to', 'up', "'s", 'in', "'", 'down', 'off', 'out', 'togethe
r', 'about', 'on', 'To', 'away', 'across', 'over', 'around', 'TO', 'thr
ough', 'back', 'for', 'by'])

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```
In [16]:  wrd= nltk.corpus.gutenberg.words('chesterton-brown.txt')
          brwn_news_tggd = brown.tagged_words(categories='news', tagset = 'univers
          al')
          d = nltk.ConditionalFreqDist((wrd.lower(), tag)for (wrd, tag) in brwn_ne
          ws_tggd)
          txtlst=Text(wrd)
          for word in d.conditions():
              if len(d[word]) > 3:
                  tags = d[word].keys()
                  print(word, ' '.join(tags))

          for word in d.conditions():
              if len(d[word]) > 3:
                  txtlst.concordance(word)
```

```
that ADP PRON DET ADV
best ADJ ADV VERB NOUN
present ADJ ADV NOUN VERB
close NOUN ADJ ADV VERB
open ADJ ADV VERB NOUN
Displaying 25 of 930 matches:
of the sea . It must not be supposed that Dr Hood ' s apartments exclud
ed luxu
here , in their place ; but one felt that they were never allowed out o
f their
; but they were built upon a plan so that the strongest were always nea
rest th
ury ; but the fanciful have asserted that the whisky , brandy , and rum
seemed
 a volume of Chaucer or Shelley from that rank , its absence irritated
the min
and tobacco , it goes without saying that yet more of such heathen holi
ness pr
holiness protected the other shelves that held the specialist ' s libra
ry , an
t ' s library , and the other tables that sustained the frail and even
fairyli
ng at once rigid and restless , like that great northern sea by which (
on pur
e man was the very embodiment of all that is homely and helpless . The
doctor
restrained astonishment , not unlike that he would have shown if some h
uge but
new - comer regarded the doctor with that beaming but breathless genial
ity whi
. Pray excuse me . I ' ve come about that business of the MacNabs . I h
ave hea
iterary and educational . It is true that I have sometimes been consult
ed by t
nder them were bright with something that might be anger or might be am
usement
ow , what can be more important than that ?" The great Orion Hood ' s s
cientif
 told you my name was Brown ; well , that ' s the fact , and I ' m the
priest
ather Brown , sitting up eagerly . " That is just the awful complicatio
n ." "
ises to explain before the wedding . That is all that anyone knows for
certain
ain before the wedding . That is all that anyone knows for certain , bu
t Mrs M
rass on such a patch of ignorance as that . There are tales of two voic
es hear
cNab prefers her own original tale : that the Other Man ( or whatever i
t is )
ars . There is no stronger case than that of the wild , unworldly and p
erishin
pt ( you will excuse me for saying ) that superstitious explanation of
all inc
rch represent . It is not remarkable that such people , with the sea mo
aning b
Displaying 9 of 9 matches:
```

cial table eight or ten boxes of the best cigars ; but they were built upon a

n . I will give the MacNab family my best advice , as good as I gave the Frenc

" Even in a minute instance , it is best to look first to the main tendencies

cess . You did not have to be in the best society to have heard of Captain Cut

f money ; that he used a drug at the best , and a poison at the worst ; that h

hat was like a snail . " It might be best to go to Arthur after all . If the t

tly , " don ' t you think it ' s the best thing she can do to stop outside --

der somebody , will it really be the best plan to make sure I ' m alone with h

indeed , Father Brown , for reasons best known to himself , had lingered much

Displaying 12 of 12 matches:

deal to be said on both sides . At present she has only one lodger , the young

ne and cigars , and bid you for the present a sportsman - like welcome to the l

his victories ; and another sort of present from Sir Wilson Seymour , offered l

he himself would keep it ` for the present '. And then he added quite suddenly

ew that Lord Jones was alive . Your present correspondent thinks that this , li

hat ; because a man told me who was present at a scene that no man could invent

s many people as possible should be present . All over this country I have foun

de , gentlemen ? I have no staff at present , but I can get you anything simple

ounce that the fight is off for the present ." " Anything else ?" jeered the ge

reply to it . The only other person present was a lean man with close red hair

he Divorce Court , but which was at present hovering between Grey Cottage and P

homeliest meals with some dazzling present or announcement or expedition that

Displaying 25 of 25 matches:

ed back stiffly in front and cropped close behind , outlining a square and powe

risian houses , really comparatively close , but somehow looking as inaccessibl

y heard one of the dull wooden doors close again with a click in front of them

tree from which he could crawl quite close to the only illuminated window in th

lighted and luxurious bedroom . But close as Flambeau was to the house , he he

lso was curly , but fair and cropped close to a strong , massive head -- the so

They were sitting at a small table , close up to the window , when the

priest p
 . As soon as I heard the heavy door close on him finally , I made a bo
lt for m
fter all . If the thing was crawling close all around the house like a
cat , it
y than a well - made - up face quite close ." There was another silence
. " Wel
 turned into the river mouth and was close to comparatively shallow wat
er . The
ose behind him . The tower was quite close , but its outline was curiou
sly dim
ly enough ," answered the priest , " close by here -- just by that band
stand ."
a friend of mine) that he was found close up to the Epsom Grand Stand
-- in fa
 something else . A man is throttled close by the big stand at Epsom .
Anybody
r person present was a lean man with close red hair and loose , horsey
- lookin
known one), they still kept in very close touch with each other . Inde
ed , Bou
stiff , high thorn - hedges , was so close under the pines and palisade
s of the
ant , rather sombrely , and began to close the door . Kidd started a li
ttle . "
are and bent to look at it . Seen at close quarters it had rather a sho
wy look
 his pocket , and the priest held it close to the middle part of the bl
ade , wh
t was a wordless clamour startlingly close , and loud enough to be dist
inct if
e flowers were quite short , plucked close under the head ." " Of cours
e ," sai
r for his enemies . Rifles ranked so close even to that mountain path t
hat a cr
umb devil was in him . " He had come close to the woods that walled in
the cast
Displaying 25 of 31 matches:
ng in a funny mood , pushed the door open and introduced into those lon
g , str
s heard talking to the lodger at his open window . The colloquy seemed
to end
the priest , whose eyes had remained open with a rather vacant admirati
on . "
ving the other almost with his mouth open . A day or two afterwards a c
oach co
ed she would -- The inner door burst open and a big figure appeared , w
ho was
ed seats like a throne . But at this open appeal to his rival there glo
wed in
 for an instant , and then , dashing open the door , disappeared into h
is own
 lower end of the passage , burst it open , bolt and all , and confront
ed Brun
totally unaccustomed . The door flew open . The moment before Greywood
Usher h
arden by the back gate , which stood open and by which he had undoubted

```
ly ente
rench or two , Flambeau had the door open . But it was too late . In de
ad sile
th a more thoughtful eye , he ripped open the letter from his more dist
inguish
 meant the pilot must keep both eyes open and be spry . And he heard Fa
nshaw s
tion , and the door he was trying to open shook under the bullet buried
in it
ening din as the doors of the shrine open and the monkey - god is revea
led ; a
 --'" The door of the room was flung open , and the fashionable negro s
tood fr
in peace , but his left eye was wide open , and glistened like glass in
the mo
eyes , when the front door was flung open , releasing a flood of gaslig
ht on t
happened our bedrooms overlooked the open sea , which almost came up to
our wi
 the street , who was poring over an open book on the smoking - table -
- a boo
e garden came running , and bursting open a window cried : " Am I wante
d ? Has
a work on poisons ; and was put down open at the place where it stated
that a
y inn , The Champion Arms , standing open , he went in to make inquirie
s . In
an ; but something in his pencil and open notebook , and perhaps in the
expres
marked by Sir Claude Champion for an open - air rendering of Romeo and
Juliet
```