

```
import nltk
```

```
nltk.download()
```

```
NLTK Downloader
```

```
-----
d) Download  l) List    u) Update  c) Config  h) Help   q) Quit
-----
```

```
Downloader> d
```

```
Download which package (l=list; x=cancel)?
```

```
Identifier> punkt
```

```
Downloading package punkt to /root/nltk_data...
```

```
Unzipping tokenizers/punkt.zip.
```

```
-----
d) Download  l) List    u) Update  c) Config  h) Help   q) Quit
-----
```

```
Downloader> q
```

```
True
```

```
from nltk.tokenize import sent_tokenize
```

```
text='''In the first place we have granted to God, and by this our present charter confirmed for us and our heirs
forever that the English Church shall be free, and shall have her rights entire, and her liberties inviolate;
and we will that it be thus observed; which is apparent from this that the freedom of elections,
which is reckoned most important and very essential to the English Church, we, of our pure and unconstrained will,
did grant, and did by our charter confirm and did obtain the ratification of the same from our lord, Pope Innocent II
before the quarrel arose between us and our barons: and this we will observe, and our will is that it be observed in
faith by our heirs forever. We have also granted to all freemen of our kingdom, for us and our heirs forever, all the
to be had and held by them and their heirs, of us and our heirs forever.'''
```

```
text
```

```
'In the first place we have granted to God, and by this our present charter confi
rmed for us and our heirs \nforever that the English Church shall be free, and sh
all have her rights entire, and her liberties inviolate; \nand we will that it be
thus observed; which is apparent from this that the freedom of elections, \nwhic
h is reckoned most important and very essential to the English Church, we, of our p
ure and unconstrained will, \ndid grant, and did by our charter confirm and did o
btain the ratification of the same from our lord. Pope Innocent III. \nbefore the
```

```
sentences = sent_tokenize (text)
```

```
sentences
```

```
['In the first place we have granted to God, and by this our present charter confirmed for us and our heirs
\nforever that the English Church shall be free, and shall have her rights entire, and her liberties inviolate;
\nand we will that it be thus observed; which is apparent from this that the freedom of elections, \nwhich is
reckoned most important and very essential to the English Church, we, of our pure and unconstrained will, \ndid
grant, and did by our charter confirm and did obtain the ratification of the same from our lord, Pope Innocent
III, \nbefore the quarrel arose between us and our barons: and this we will observe, and our will is that it be
observed in good \nfaith by our heirs forever.',
 'We have also granted to all freemen of our kingdom, for us and our heirs forever, all the underwritten
liberties, \nto be had and held by them and their heirs, of us and our heirs forever.']
```

```
from nltk.tokenize import word_tokenize
```

```
words = word_tokenize(text)
```

```
words
```

```
' ',  
'and',  
'our',  
'will',  
'is',  
'that',  
'it',  
'be',  
'observed',  
'in',  
'good',  
'faith',  
'by',  
'our',  
'heirs',  
'forever',  
'.',  
'We',  
'have',  
'also',  
'granted',  
'to',  
'all',  
'freemen',  
'of',  
'our',  
'kingdom',  
' ',  
'for',  
'us',  
'and',  
'our',  
'heirs',  
'forever',  
' ',  
'all',  
'the',  
'underwritten',  
'liberties',  
' ',  
'to',  
'be',  
'had',  
'and',  
'held',  
'by',  
'them',  
'and',  
'their',  
'heirs',  
' ',  
'of',  
'us',  
'and',  
'our',  
'heirs',  
'forever',  
'.']
```

```
for w in words:  
    print (w)
```

our
will
is
that
it
be
observed
in
good
faith
by
our
heirs
forever
.
We
have
also
granted
to
all
freemen
of
our
kingdom
,
for
us
and
our
heirs
forever
,
all
the
underwritten
liberties
,
to
be
had
and
held
by
them
and
their
heirs
,
of
us
and
our
heirs
forever
.

sent_tokenize (text)

['In the first place we have granted to God, and by this our present charter confirmed for us and our heirs
\nforever that the English Church shall be free, and shall have her rights entire, and her liberties inviolate;
\nand we will that it be thus observed; which is apparent from this that the freedom of elections, \nwhich is
reckoned most important and very essential to the English Church, we, of our pure and unconstrained will, \ndid
grant, and did by our charter confirm and did obtain the ratification of the same from our lord, Pope Innocent
III, \nbefore the quarrel arose between us and our barons: and this we will observe, and our will is that it be
observed in good \nfaith by our heirs forever.',
'We have also granted to all freemen of our kingdom, for us and our heirs forever, all the underwritten
liberties, \nto be had and held by them and their heirs, of us and our heirs forever.']

```
[word_tokenize(text) for t in sent_tokenize(text)]
```

```
','  
'and',  
'our',  
'will',  
'is',  
'that',  
'it',  
'be',  
'observed',  
'in',  
'good',  
'faith',  
'by',  
'our',  
'heirs',  
'forever',  
,',  
'We',  
'have',  
'also',  
'granted',  
'to',  
'all',  
'freemen',  
'of',  
'our',  
'kingdom',  
,',  
'for',  
'us',  
'and',  
'our',  
'heirs',  
'forever',  
,',  
'all',  
'the',  
'underwritten',  
'liberties',  
,',  
'to',  
'be',  
'had',  
'and',  
'held',  
'by',  
'them',  
'and',  
'their',  
'heirs',  
,',  
'of',  
'us',  
'and',  
'our',  
'heirs',  
'forever',  
'.'']
```

```
from nltk.tokenize import wordpunct_tokenize
```

```
wordpunct_tokenize(text)
```

```

will ,
'is',
'that',
'it',
'be',
'observed',
'in',
'good',
'faith',
'by',
'our',
'heirs',
'forever',
',',
'we',
'have',
'also',
'granted',
'to',
'all',
'freemen',
'of',
'our',
'kingdom',
',',
'for',
'us',
'and',
'our',
'heirs',
'forever',
',',
'all',
'the',
'underwritten',
'liberties',
',',
'to',
'be',
'had',
'and',
'held',
'by',
'them',
'and',
'their',
'heirs',
',',
'of',
'us',
'and',
'our',
'heirs',
'forever',
', ']'

```

```
text.lower()
```

```

'in the first place we have granted to god, and by this our present cha
rter confirmed for us and our heirs \nforever that the english church s
hall be free, and shall have her rights entire, and her liberties invio
late; \nand we will that it be thus observed; which is apparent from th
is that the freedom of elections, \nwhich is reckoned most important an
d very essential to the english church, we, of our pure and unconstrain
ed will. \ndid grant. and did by our charter confirm and did obtain the

```

```
text.upper()
```

'IN THE FIRST PLACE WE HAVE GRANTED TO GOD, AND BY THIS OUR PRESENT CHARTER CONFIRMED FOR US AND OUR HEIRS \nFOREVER THAT THE ENGLISH CHURCH SHALL BE FREE, AND SHALL HAVE HER RIGHTS ENTIRE, AND HER LIBERTIES INVIO LATE; \nAND WE WILL THAT IT BE THUS OBSERVED; WHICH IS APPARENT FROM TH IS THAT THE FREEDOM OF ELECTIONS, \nWHICH IS RECKONED MOST IMPORTANT AN D VERY ESSENTIAL TO THE ENGLISH CHURCH, WE, OF OUR PURE AND UNCONSTRAIN ED WILL. \nHDTG GRANT. AND DTD BY OUR CHARTER CONFTRM AND DTD ORTAIN THE

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