```
In [1]:
        import spacy
In [2]: | nlp = spacy.load('en_core_web_sm')
In [3]: # Create a doc object
        doc = nlp(u'Tesla is looking to buy U.S. startup for $6 million')
In [4]: for token in doc:
             print(token.text)
        Tesla
        is
        looking
        to
        buy
        U.S.
        startup
        for
        $
        million
In [5]: | for token in doc:
             print(token.text, token.pos)
        Tesla 95
        is 99
        looking 99
        to 93
        buy 99
        U.S. 95
        startup 91
        for 84
        $ 98
        6 92
        million 92
```

```
In [6]:
         # To find out the Part Of Speech (POS) use token.pos
         for token in doc:
             print(token.text, token.pos, token.pos , token.dep )
         Tesla 95 PROPN nsubj
         is 99 VERB aux
         looking 99 VERB ROOT
         to 93 PART aux
         buy 99 VERB xcomp
         U.S. 95 PROPN compound
         startup 91 NOUN dobj
         for 84 ADP prep
         $ 98 SYM quantmod
         6 92 NUM compound
         million 92 NUM pobj
In [7]: | nlp.pipeline
Out[7]: [('tagger', <spacy.pipeline.Tagger at 0x119b86b50>),
          ('parser', <spacy.pipeline.DependencyParser at 0x11bd87a70>),
          ('ner', <spacy.pipeline.EntityRecognizer at 0x11bd9e050>)]
In [8]: nlp.pipe names
Out[8]: ['tagger', 'parser', 'ner']
         doc2 = nlp(u"Tesla isn't looking into startups anymore.")
In [10]: for token in doc2:
             print(token.text, token.pos, token.pos , token.dep )
         Tesla 95 PROPN nsubj
         is 99 VERB aux
         n't 85 ADV neg
         looking 99 VERB ROOT
         into 84 ADP prep
         startups 91 NOUN pobj
         anymore 85 ADV advmod
         . 96 PUNCT punct
In [11]: doc2 = nlp(u"Tesla isn't looking into startups anymore.")
```

```
In [12]: # Handling of white space is Spacy.
         for token in doc2:
             print(token.text, token.pos, token.pos , token.dep )
         Tesla 95 PROPN nsubj
         is 99 VERB aux
         n't 85 ADV neg
             102 SPACE
         looking 99 VERB ROOT
         into 84 ADP prep
         startups 91 NOUN pobj
         anymore 85 ADV advmod
         . 96 PUNCT punct
In [13]: # Use indexing to grab the tokens we want
         doc2[0]
Out[13]: Tesla
In [14]: | doc2[0].pos_
Out[14]: 'PROPN'
In [15]: doc2 = nlp(u"Tesla isn't looking into startups anymore.")
In [16]: print(doc2[0].text)
         Tesla
In [19]: print(doc2[0].lemma )
         tesla
In [18]: print(doc2[0].pos )
         PROPN
In [20]: print(doc2[0].tag )
         NNP
In [22]: print(doc2[0].shape_)
         Xxxxx
```

```
In [23]: print(doc2[0].is_alpha)
         True
In [24]: print(doc2[0].is stop)
         False
In [25]: # Span of a document
         doc3 = nlp(u'Although commmonly attributed to John Lennon from his song
         the phrase "Life is what happens to us while we are making other plans"
         cartoonist Allen Saunders and published in Reader\'s Digest in 1957, whe
In [26]: life quote = doc3[16:30]
In [27]: print(life quote)
         "Life is what happens to us while we are making other plans"
In [28]:
         #Sentences
         doc4 = nlp(u'This is the first sentence. This is another sentence. This
In [29]: | for sentence in doc4.sents:
             print(sentence)
         This is the first sentence.
         This is another sentence.
         This is the last sentence.
In [30]: doc4[6].text
Out[30]: 'This'
In [31]: | doc4[6].is sent start
Out[31]: True
In [32]: | doc4[7].text
Out[32]: 'is'
In [33]: | doc4[8].text
Out[33]: 'another'
```

```
In [34]: doc4[8].is_sent_start
```

In [ ]: # We see nothing. Last command returned None.