31/10/2020 2020-9-31-183619

```
In [1]:
          import nltk
          from nltk.tokenize import sent tokenize, word tokenize
 In [2]:
          sentence= [("the", "DT"), ("little", "JJ"), ("yellow", "JJ"),("dog", "NN"), ("barked
          grammar="NP: {<DT>?<JJ>*<NN>}"
          #productions from CFG for NP and VP
          c=nltk.RegexpParser(grammar)
          result=c.parse(sentence)
          print(result)
         (S
            (NP the/DT little/JJ yellow/JJ dog/NN)
           barked/VBD
           at/IN
           (NP the/DT cat/NN))
 In [6]:
          import nltk
 In [7]:
          sentence = [("a", "DT"),("clever","JJ"),("fox","NN"),("was","VBP"),
             ("jumping", "VBP"), ("over", "IN"), ("the", "DT"), ("wall", "NN")]
In [18]:
          grammar = "NP:{<DT>?<JJ>*<NN>}"
          parser_chunking = nltk.RegexpParser(grammar)
          parser_chunking.parse(sentence)
          output = parser_chunking.parse(sentence)
          output.draw()
                                                     Traceback (most recent call last)
         <ipython-input-18-7dec73c46613> in <module>
                3 parser_chunking.parse(sentence)
                4 output = parser_chunking.parse(sentence)
         ---> 5 output.draw()
         /ext/anaconda2020.02/lib/python3.7/site-packages/nltk/tree.py in draw(self)
             752
                          from nltk.draw.tree import draw trees
             753
         --> 754
                          draw trees(self)
             755
             756
                      def pretty print(self, sentence=None, highlight=(), stream=None, **kwarg
         s):
         /ext/anaconda2020.02/lib/python3.7/site-packages/nltk/draw/tree.py in draw trees(*tr
         ees)
            1006
                      :rtype: None
            1007
         -> 1008
                      TreeView(*trees).mainloop()
            1009
                      return
            1010
         /ext/anaconda2020.02/lib/python3.7/site-packages/nltk/draw/tree.py in __init__(self,
         *trees)
                          self._trees = trees
             857
             858
                          self.\_top = Tk()
         --> 859
                          self._top.title('NLTK')
             860
                          self._top.bind('<Control-x>', self.destroy)
             861
         /ext/anaconda2020.02/lib/python3.7/tkinter/__init__.py in __init__(self, screenName,
```

31/10/2020 2020-9-31-183619

```
baseName, className, useTk, sync, use)
            2021
                                 baseName = baseName + ext
            2022
                         interactive = 0
                         self.tk = _tkinter.create(screenName, baseName, className, interacti
         -> 2023
         ve, wantobjects, useTk, sync, use)
                         if useTk:
            2024
            2025
                             self._loadtk()
         TclError: couldn't connect to display ":0"
In [16]:
          parser_chunking = nltk.RegexpParser(grammar)
          parser_chunking.parse(sentence)
          Output = parser_chunking.parse(sentence)
          output.draw()
         NameError
                                                   Traceback (most recent call last)
         <ipython-input-16-d1cea3217b6b> in <module>
               2 parser_chunking.parse(sentence)
               3 Output = parser_chunking.parse(sentence)
         ---> 4 output.draw()
         NameError: name 'output' is not defined
In [15]:
          parser_chunking.parse(sentence)
          Output = parser_chunking.parse(sentence)
          output.draw()
                                                    Traceback (most recent call last)
         <ipython-input-15-04489642806e> in <module>
               1 parser_chunking.parse(sentence)
               2 Output = parser_chunking.parse(sentence)
         ---> 3 output.draw()
         NameError: name 'output' is not defined
In [14]:
          Output = parser_chunking.parse(sentence)
          output.draw()
                                                    Traceback (most recent call last)
         <ipython-input-14-64b12c66878d> in <module>
               1 Output = parser_chunking.parse(sentence)
         ---> 2 output.draw()
         NameError: name 'output' is not defined
In [12]:
          Output = parser chunking.parse(sentence)
In [19]:
          Output.draw()
         TclError
                                                    Traceback (most recent call last)
         <ipython-input-19-468790ca62e6> in <module>
         ----> 1 Output.draw()
         /ext/anaconda2020.02/lib/python3.7/site-packages/nltk/tree.py in draw(self)
             752
                         from nltk.draw.tree import draw_trees
             753
         --> 754
                         draw_trees(self)
```

31/10/2020 2020-9-31-183619

```
755
                    def pretty_print(self, sentence=None, highlight=(), stream=None, **kwarg
            756
        s):
        /ext/anaconda2020.02/lib/python3.7/site-packages/nltk/draw/tree.py in draw_trees(*tr
        ees)
           1006
                     :rtype: None
           1007
        -> 1008
                    TreeView(*trees).mainloop()
           1009
                    return
           1010
        /ext/anaconda2020.02/lib/python3.7/site-packages/nltk/draw/tree.py in __init__(self,
        *trees)
            857
                         self._trees = trees
            858
                         self.\_top = Tk()
        --> 859
                         self._top.title('NLTK')
            860
                         self._top.bind('<Control-x>', self.destroy)
            861
        /ext/anaconda2020.02/lib/python3.7/tkinter/__init__.py in __init__(self, screenName,
        baseName, className, useTk, sync, use)
           2021
                                baseName = baseName + ext
           2022
                         interactive = 0
        -> 2023
                         self.tk = _tkinter.create(screenName, baseName, className, interacti
        ve, wantobjects, useTk, sync, use)
                         if useTk:
           2024
           2025
                             self._loadtk()
        TclError: couldn't connect to display ":0"
In [0]:
```