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# Comp814 Text Mining

# Parsing Lab

# Objective

The objective is of this lab is to be able to use a parser and extract simple clauses from a given sentence.

# Task

1. Type the following sample starter code and run it to get started.

***import nltk***

***sent = "I saw a boy in the park with a telescope."***

***taggedS = nltk.pos\_tag(nltk.word\_tokenize(sent))***

***grammar = "NP: {<DT>?<JJ>\*<NN>}"***

***cp = nltk.RegexpParser(grammar)***

***result = cp.parse(taggedS)***

***print(result)***

***result.draw()***

1. Interpret the output to determine which of the two interpretations the parser parses the sentence.
2. Try and rewrite the sentence in a different way to get the other interpretation without changing the overall meaning.
3. Try other sentences and interpret the output and see if the parser output is correct.
4. Download a news article from NZ Herald or anther site and read in the article as a text file.
5. Parse all the sentences in the text file.
6. Extract all the definite nouns in the text. (definite nouns are nouns followed by the determiner “the”).
7. Count the definite nouns and output them in a sorted ascending order.
8. Upload your python code file to Blackboard by 6pm Friday this week.