Experiment 05

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Parts of Speech

```
text = "TON 618 (short for Tonantzintla 618) is a hyperluminous, broad-absorption-line, radio-loud quasar and Lyman-alpha blob located near t
```

Importing necessary dependencies

Word Tokenization

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

▼ Parts of Speech Tagging

```
tagged_words = nltk.pos_tag(words, tagset = 'universal')
tagged_words
for t in tagged_words:
     print(t)
      ('TON', '.')
('618', 'NUM')
('(', '.')
('short', 'ADJ')
('for', 'ADP')
      ('Tonantzintla', 'NOUN')
      ('618', 'NUM')
(')', '.')
('is', 'VERB')
('a', 'DET')
       ('hyperluminous', 'ADJ')
      ('broad-absorption-line', 'ADJ')
       (',', '.')
       ('radio-loud', 'ADJ')
      ('quasar', 'NOUN')
('and', 'CONJ')
       ('Lyman-alpha', 'NOUN')
       ('blob', 'NOUN')
      ('located', 'VERB')
      ('near', 'ADP')
('the', 'DET')
      ('border', 'NOUN')
      ('of', 'ADP')
('the', 'DET')
      ('constellations', 'NOUN')
      ('Canes', 'NOUN')
       ('Venatici', 'NOUN')
      ('and', 'CONJ')
('Coma', 'NOUN')
       ('Berenices', 'NOUN')
       (',', '.')
```

```
('with', 'ADP')
('the', 'DET')
('projected', 'VERB')
('comoving', 'NOUN')
('distance', 'NOUN')
('of', 'ADP')
('approximately', 'ADV')
('18.2', 'NUM')
('billion', 'NUM')
('light-years', 'NOUN')
('from', 'ADP')
('Earth', 'NOUN')
('.', '.')
```