## POS

**Part-of-speech** Specific lexical categories based on their syntactic context and role

POS Tagging A process of classifying and labeling POS tags for words

#### 4 Problematic cases

This section discusses difficult tagging decisions. Section 4.1 discusses parts of speech that are easily confused and guidelines on how to tag such cases. Section 4.2 contains an alphabetical list of specific problematic words and collocations.

### 4.1 Confusing parts of speech

This section discusses parts of speech that are easily confused and gives guidelines on how to tag such cases.

#### CC or DT

When they are the first members of the double conjunctions  $both \dots and$ ,  $either \dots or$  and  $neither \dots nor$ , both, either and neither are tagged as coordinating conjunctions (CC), not as determiners (DT).

EXAMPLES: Either/DT child could sing.

But:

Either/CC a boy could sing or/CC a girl could dance. Either/CC a boy or/CC a girl could sing. Either/CC a boy or/CC girl could sing.

Consult - <a href="https://www.cis.uni-muenchen.de/-schmid/tools/TreeTagger/data/Penn-Treebank-Tagset.pdf">https://www.cis.uni-muenchen.de/-schmid/tools/TreeTagger/data/Penn-Treebank-Tagset.pdf</a>



# POS Tagging

- Retain punctuation and upper cases
- sent\_tokenize > word\_tokenize

```
nltk_pos_tagged = nltk.pos_tag(words[15:40])
pd.DataFrame(nltk_pos_tagged, columns=['Word', 'POS tag']).T
                                                                  15
                                                                                         20
         0
  Word the Rabbit-Hole Alice was beginning
                                         to get very tired of ... the bank
                                                                                   of having nothing
                                                       JJ IN ... DT
POS tag
       DT
                      NNP VBD
                                        TO VB
                                                  RB
                                                                       NN
                                                                            , CC
                                                                                       VBG
                                                                                                   TO VB
                                    VBG
```

Transposing from vertical to horizontal

