

Neural Networks applied in NLP

Lab 2

Get familiar with syntactic and dependency parsing by generating the corresponding trees for the following sentences:

Papa eats octopus in pajamas.

John often eats sea food or octopus.

John and Mary eat often together.

Steps:

1. (0.25p) Write a suitable grammar, able to correctly parse all sentences, with all their senses. Use as inspiration the grammars discussed in class.
2. (0,25p) Use existing modules to extract phrase structure trees for these sentences.
3. (0.25p) Implement a dependency parser (using, for instance, spaCY, NLTK or Stanza) and parse the three sentences above.
4. (0,25p) Describe an application which needs syntactic and/or dependency parsing. Explain briefly why. (1/2 pag)