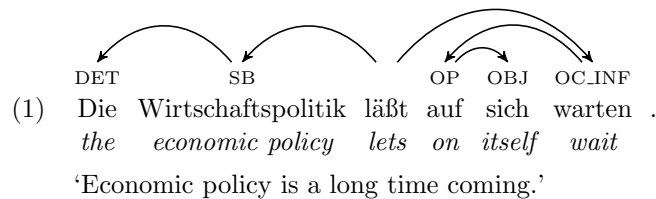


Assignment 8

L545

Due Wednesday, April 17

1. Assuming that the parser finds the correct dependency analysis for the German sentence in (1), walk through the steps of how Nivre's parser produces a parse.



2. Obtain a copy of MaltParser (<http://maltparser.org/>) and see if you can run the commands under “Start using MaltParser” at <http://maltparser.org/userguide.html>

Using MaltParser and following the user guide, do the following:

- (a) Download the Danish data set at: http://nextens.uvt.nl/~conll/free_data.html
 - (b) Train MaltParser on the Danish DDT training data. Warning: this will likely take several hours. (If you are using a mac, make sure you change the Energy Saver settings so that the computer will not go to sleep.) If you face significant problems, go ahead and reduce the size of the training data for this experiment. Be clear in your write-up as to what happened.
 - (c) Parse the Danish DDT testing data using MaltParser and the model you trained with.
 - (d) Evaluate the results. You can use `eval.pl`, available here: <http://nextens.uvt.nl/~conll/software.html> and/or you can qualitatively evaluate a set number of sentences.
3. Do question 17.5, p. 582 of Jurafsky and Martin (involving vegetarians at McDonald's).
 4. Do question 18.1, p. 609 of Jurafsky and Martin (involving semantic attachments for predicate adjectives).