Elements of Language Processing and Learning
Lab assignment report
Stage 2: Adding support of Unary Rules in the CKY ALgorithm

Benno Kruit, 10576223
Sara Veldhoen, 10545298

December 4, 2013

The CKY algorithm was originally implemented for binary rules only. We extended the code to support unary rules.

Implementation   We created a general class `Rule` to replace the `BinaryRule` and `UnaryRule` classes. Occurrences of `Rule` can be either binary or unary rules. The method `getChildren()` returns an array of Strings. This enables other functions to iterate over the children in a more general way.

The Parsing algorithm itself is run with the function `getBestParse(sentence)`. The pseudocode of the algorithm is as follows:

Match preterminal rules

Results