

Natural Language Processing

Lecture 17—10/29/2013

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Today

- Finish Statistical CFG Parsing
- Dependency parsing
 - Dependency trees
 - Basic transition-based parsing
 - Machine learning

Simple Probability Model

- A derivation (tree) consists of the bag of grammar rules that are in the tree
 - The probability of a tree is the product of the probabilities of the rules in the derivation.

$$P(T, S) = \prod_{node \in T} P(rule(n))$$