Computational Linguistics (CL3.101)

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26 July, Monday (Lecture 25) – Syntax 5

Taught by Prof. Radhika Mamidi

Parsing (contd.)

Chunk Tags

Sometimes, chunks (instead of nouns) can be tagged with PoS tags. For example, *bahuwa sunxara-sI* is an adjective chunk or JJP.

Thus, basic parsing involves chunking, PoS tagging and basic morph analysis.

Syntactic Representation

The syntactic analysis of a sentence can be represented in many ways: rules, FSTs, trees, etc.

Semantics

All words have some semantic properties. They can be represented using the idea of semantic features (through a form of componential analysis).

In the case of nouns, components like `physical` or `living` allow us to filter out nonsense combinations like *happy pencil*, *table eats* or *green ideas*.

For verbs, case frames show the semantic contexts in which they can occur. Case frames are sometimes represented by predicate calculus.

These semantic properties enable selectional restrictions to resolve ambiguity in sentences like *The dishwasher read the article.*