Basic Concepts in NLP

A dog is chasing a boy on the playground

Det Noun Aux Verb Det Noun Prep Det Noun

Lexical analysis (part-of-speech tagging)

Semantic analysis

Noun Phrase Complex Verb Noun Phrase

Noun Phrase

Dog(d1).
Boy(b1).
Playground(p1).
Chasing(d1,b1,p1).

Verb Phrase

Prep Phrase

Syntactic analysis (Parsing)

Verb Phrase

+

Scared(x) if Chasing(_,x,_).

Sentence

A person saying this may be reminding another person to get the dog back.

Scared(b1)
Inference

Pragmatic analysis (speech act)

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