Linguistics 201 – Introduction to Linguistic Theory Fall 2007 – Section D

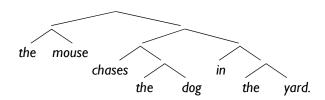
## Constituency tests

Constituents of a sentence are chunks of that sentence that constitute a linguistically relevant part of that sentence.

Limiting cases: Every sentence is a constituent, every word is a constituent.

What we want to find out: What's in between?

The tree structure below represents the constituency structure of the English sentence "The mouse chases the dog in the yard."



In a constituency structure tree, every node corresponds to a constituent of the sentence, and every constituent of the sentence is represented by a node. Therefore this tree tells us that

- every word is a constituent (terminal nodes)
- the whole sentence is one (root node)

but also what larger constituents there are:

- the mouse
- the dog
- chases the dog
- the yard
- in the yard
- chases the dog in the yard

It also tells us that for instance "mouse chases" is not a constituent, and neither is "in the".

How do we find out what's a constituent?

Linguists argue for the constituent structure of a sentence based on the behavior that certain groups of words have. For this class, we'll use two characteristics that have been taken as tests for constituency.

## Substitution test

If a chunk of words can be substituted with one of the following pro-forms, and the result is a grammatical sentence with the same meaning as the original one, then the chunk is a constituent.

pronouns	he, she, it, they, do so / do it / do that there, then such one (with a contrastive meaning, as for instance in "this boy vs. that one")	
Example:	The mouse chased the dog there	

Example: The mouse chased the dog there. where there replaces in the yard. → in the yard is a constituent of the sentence The mouse chased the dog in the yard

## Answer to questions

If a chunk of words can stand alone as an answer to a question, it's a constituent of the corresponding full sentence answer.

Example:	What did the mouse do? Chase the dog in the yard.
	The mouse chased the dog in the yard.
	$\rightarrow$ chase the dog in the yard is a constituent of the sentence The mouse chased the
	dog in the yard.

## Constituent names

We also talked about having names for constituents. Those names are related to the *heads* of the constituents. A constituent headed by a *noun* is called a *noun phrase* (or *NP*), etc. In the substitution test, the different pro-forms substitute for different constituents:

pro-form	can stand in for a
he, she, it, they, do so / do it / do that there, then such one	<ul> <li>NP (noun phrase)</li> <li>VP (verb phrase)</li> <li>PP (prepositional phrase) or AdvP (adverb phrase)</li> <li>AP (adjective phrase)</li> <li>N' (read as "N-bar"; it's a constituent that contains a noun, its arguments and modifiers, but not the determiner)</li> </ul>