

# Grammar 19

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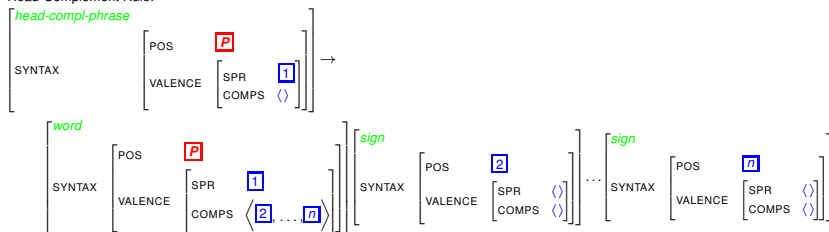
Gert Webelhuth

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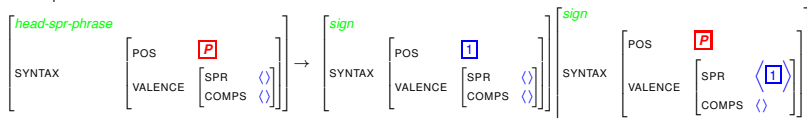
# The grammar so far

There are only two grammar rules:

Head-Complement Rule:



Head-Specifier Rule:

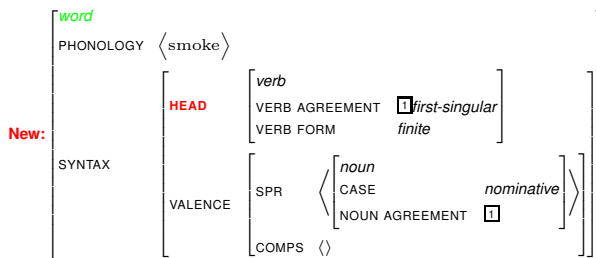
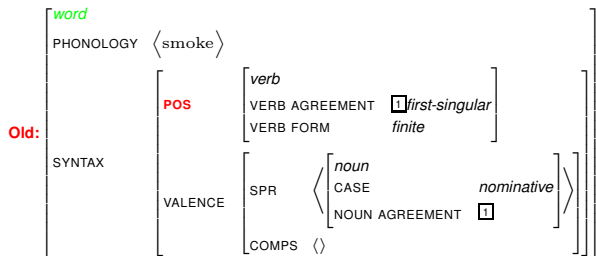


- Note that in each phrase there is one daughter whose **part of speech** value is also the phrase's **part of speech** value.
- When we write more rules, that will also be the case.

# The notion of head of a phrase

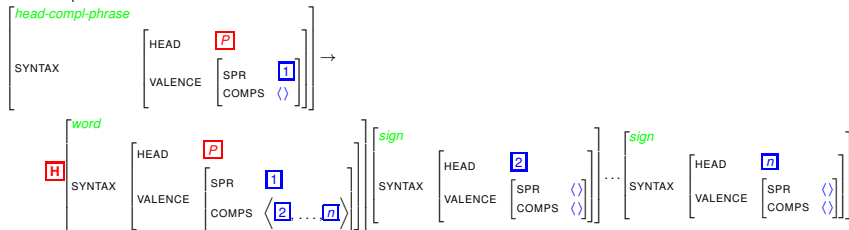
- We can capture this generalization by singling out one and only one of the daughters of a phrase as special: the phrase's **head** daughter.
- Question: What is special about the relationship between a phrase and its **head** daughter? Answer: The two signs share certain properties.
- These properties we have so far collected as the value of the attribute PART OF SPEECH.
- In order to signal that it is these properties that are shared between mother and **head** daughter, we will rename this attribute now as **HEAD**.

# Replacing the feature PART OF SPEECH by the feature HEAD

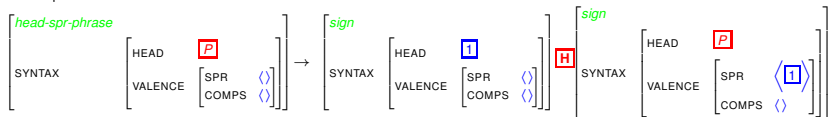


# Every phrase has a HEAD daughter

Head-Complement Rule:



Head-Specifier Rule:



Note: the **HEAD** features of the phrase are also the head features of its **HEAD** daughter in both cases!

We will require this to be the case for all syntactic rules:

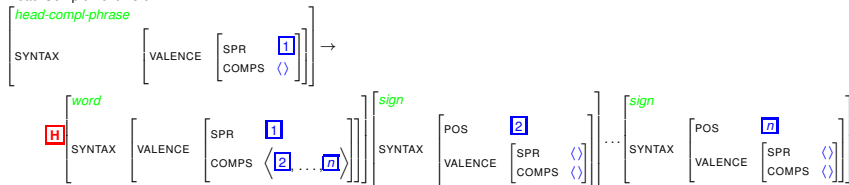
# The Head Feature Principle (HFP)

## *The Head Feature Principle (HFP)*

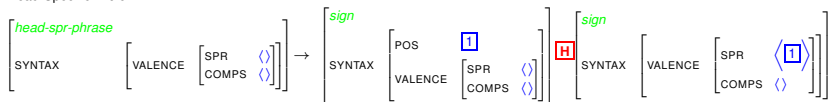
The value of **HEAD** of a phrase is also the value of **HEAD** of the phrase's head-daughter.

# This allows us to simplify the rules as follows

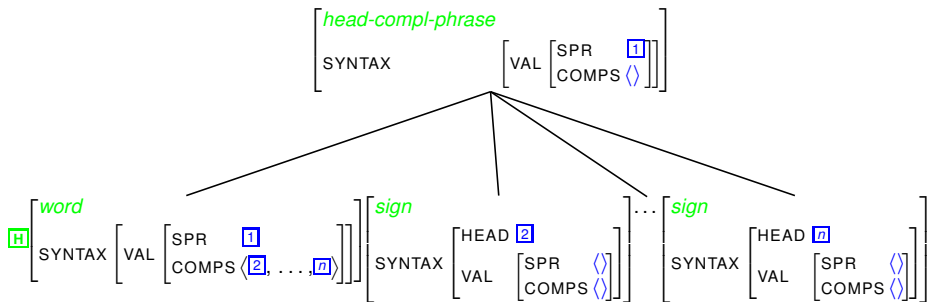
Head-Complement Rule:



Head-Specifier Rule:

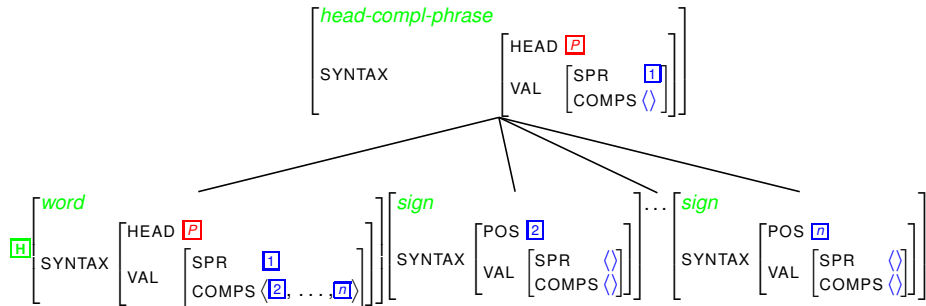


# Illustration: the Head-Complement Rule





# Illustration: the Head-Complement Rule + HFP



- The information in blue and green is a consequence of the Head-Complement Rule.
- The information in red is a consequence of the Head Feature Principle.

# Excercises

- 1 Write lexical entries in the new head format for the words *apple* and *eaten*!
- 2 By hand, draw a tree for the following sentences and then compare your solutions to the solutions the grammar produces (but only after you have drawn the trees by hand!):
  - a. *Kim smokes.*
  - b. *The student likes Kim.*
- 3 Draw a schematic tree for head-specifier phrases in the format of the tree on slide 9!