

Grammar 23: Modifiers

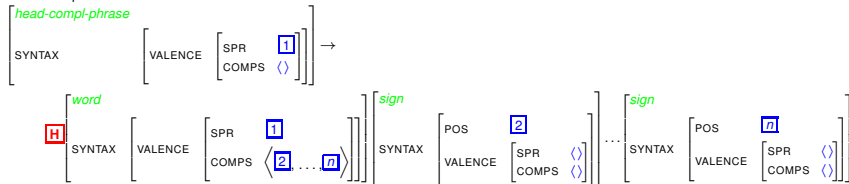
Gert Webelhuth

University of Frankfurt

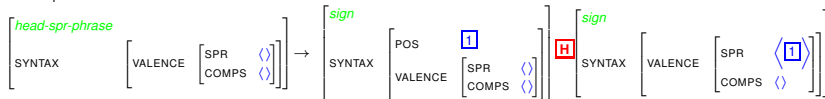
The grammar so far

There are only two grammar rules:

Head-Complement Rule:



Head-Specifier Rule:



The Head Feature Principle (HFP)

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

A typical word

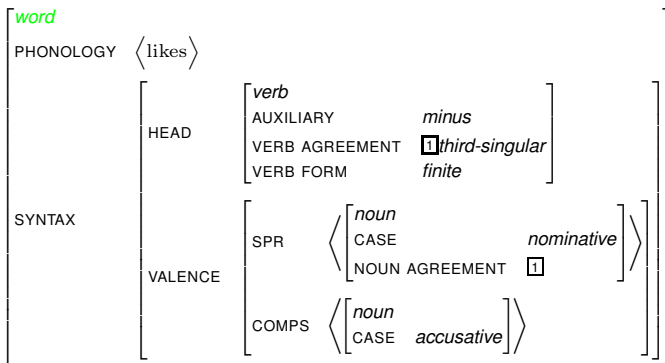


Illustration: the Head-Complement Rule

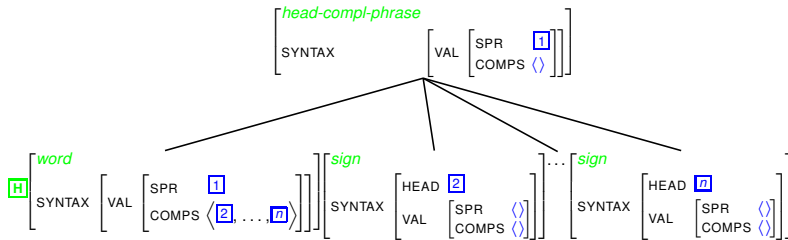
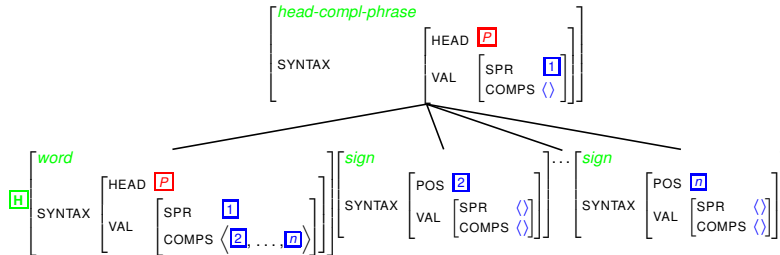


Illustration: the Head-Complement Rule + HFP



- 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.

Nouns and verbs can be modified

Premodification of Nouns:

- (1) a. red apple
- b. sweet red apple
- c. juicy sweet red apple

Postmodification of Nouns:

- (2) student fond of Kim

Nouns and verbs can be modified

Premodification of Verbs:

- (3) a. nearly fell
- b. recently died
- c. recently almost died

Postmodification of Verbs:

- (4) called Kim early
- (5) called Kim with an iPhone
- (6) called Kim early with an iPhone

Restrictions on modification

Modifiers differ as to what part of speech they can modify:

- (7) a. run quickly
- b. * run quick
- c. a quick run
- d. * a quickly run

Modifiers differ as to the side of the head they can appear on:

- (8) a red apple
- (9) * an apple red
- (10) Robin called Kim early.
- (11) * Robin early called Kim
- (12) Robin called Kim repeatedly.
- (13) Robin repeatedly called Kim

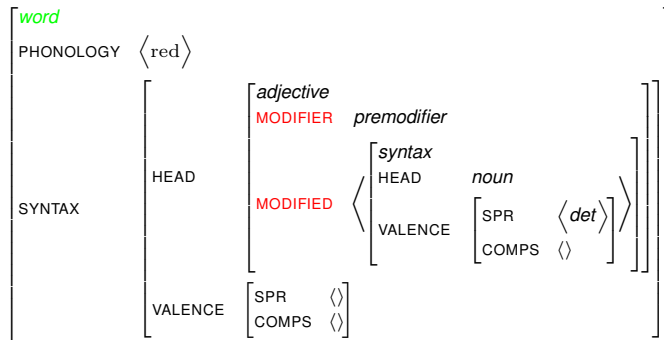
Two additions to the grammar

We need two additions to the grammar to capture the behavior of modifiers:

- 1 Information about modification in the lexical entries of modifiers.
- 2 Phrase structure rules that combine a modifier with the head it modifies.

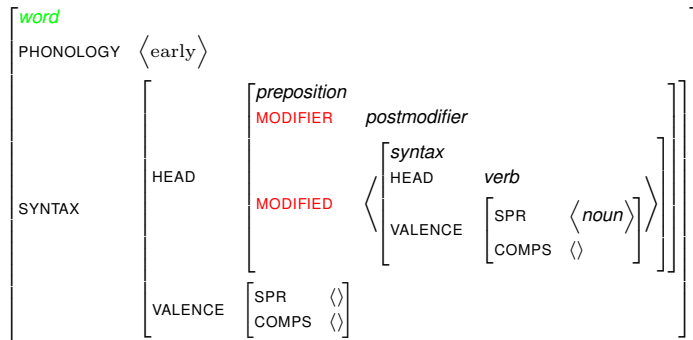
Information about modification in lexical entries

Since the head word of a constituent determines the constituent's modification behavior, we add information about modification to the head features:



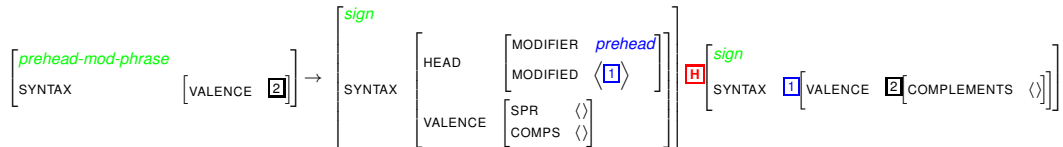
Information about modification in lexical entries, 2

Since the head word of a constituent determines the constituent's modification behavior, we add information about modification to the head features:



Two Modifier Rules

Prehead-Modifier Rule:



Posthead-Modifier Rule:



Illustration: the Prehead-Modifier Rule

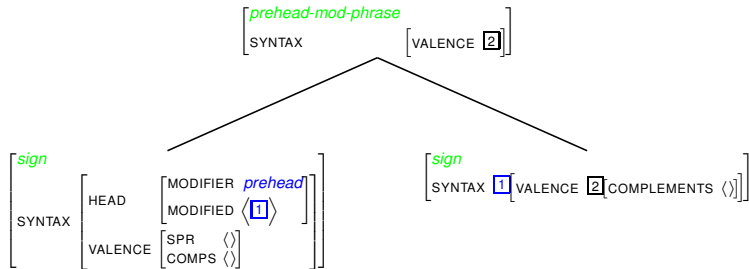
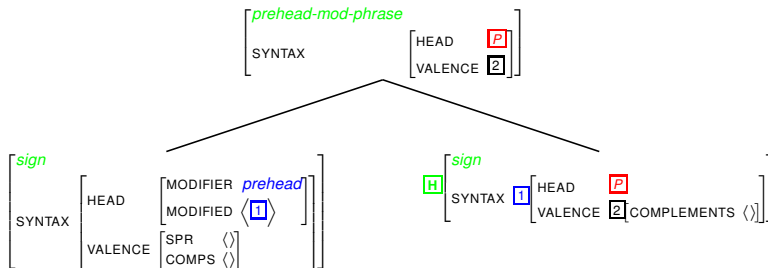


Illustration: the Prehead-Modifier Rule + HFP



- The information in red is a consequence of the Head Feature Principle.
- The remaining information is a consequence of the Prehead-Modifier Rule.

- 1 Parse the following words and carefully study the information about modification their head features contain:
red, fond, with, early!
- 2 For each of the test items (257)-(274) do the following: a. Predict in each case how many solutions the grammar will return. b. Only then parse the item and check that you made the correct prediction!