Grammar 16

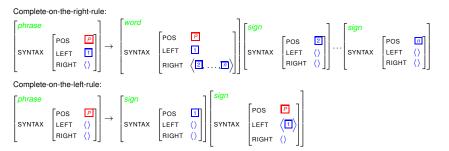
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The grammar so far

There are only two grammar rules:

The rules appear in the order in which they apply, from the bottom of the tree to the top.



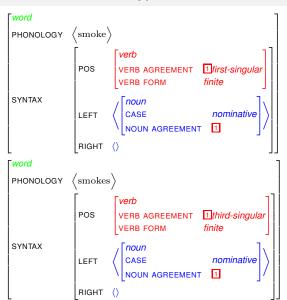
Lexical entries for typical nouns

```
Fword
PHONOLOGY (student)
                      noun
                      CASE
                                      nominative
              POS
                      NOUN AGREEMENT 11third-singular
SYNTAX
             RIGHT
_word
PHONOLOGY (students)
                     CASE
                                      nominative
             POS
                      NOUN AGREEMENT 1third-plural
SYNTAX
             RIGHT
```

Lexical entries for typical determiners

```
word
PHONOLOGY
                      determiner
              POS
SYNTAX
              LEFT
              RIGHT
Fword
PHONOLOGY
             (those)
                      determiner
              POS
SYNTAX
              LEFT
              RIGHT
```

Lexical entries for typical verbs



Auxiliaries

So far, our grammar accepts sentences with 0 and with 1 auxiliary:

- (1) a. Robin eats an apple.
 - b. Robin is eating an apple.
 - c. Robin has eaten an apple.
 - d. Robin will eat an apple.

But of course there are sentences with multiple auxiliaries:

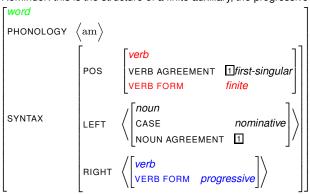
- (2) a. Robin has been eating an apple.
 - b. Robin will have eaten an apple.
 - c. Robin will be eating an apple.
 - d. Robin will have been eating an apple.

The reason that the grammar is unable to accept sentences with multiple auxiliaries is simple:

The lexicon of the previous grammars does not contain lexical entries for non-finite auxiliary forms.

Adding lexical entries for non-finite auxiliary forms

Reminder: this is the structure of a finite auxiliary, the progressive auxiliary am:

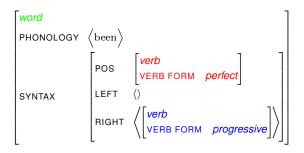


Note two things:

- The form of the auxiliary is finite.
- 2 The form it requires the verb (phrase) to its right to have is *progressive*.

Adding lexical entries for non-finite auxiliary forms, 2

It is now easy to see what the lexical entries for the non-finite forms of the progressive auxiliary have to look like:



Note:

- The non-finite forms have no verb agreement.
- 2 Their verb form is one of: bare, perfect, progressive.
- 3 Unlike the finite forms, they do not select a subject.

Excercises

- Parse the words "be", "been", and "being" and inspect the results. Explain how many results the grammar returns in each case!
- Do the same for the words "have", "had", and "having"!
- Parse test items (164)-(219) and explain why you get the results you get and their number!
- What do the result for test items (220)-(222) show about the lexical paradigms of the progressive and the perfect auxiliaries?
- Is this state of affairs unusual for auxiliaries? Hint: think of the behavior of the modal auxiliaries!
- Why does the grammar not parse test items (223)-(230)?