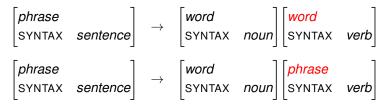
## Grammar 3

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## Phrase structure rules

For sentences:



For verb phrases:

$$\begin{vmatrix} phrase \\ syntax & verb \end{vmatrix} \rightarrow \begin{vmatrix} word \\ syntax & verb \end{vmatrix} \begin{vmatrix} word \\ syntax & noun \end{vmatrix}$$

## **Excercises**

- Parse all the test items of Grammar 3!
- Explain why "kim" and "smokes" only parse as words and not also as phrases!
- Which rules are used to make the top node of test items (6) and (10)? Why?
- Explain why the grammar makes the correct prediction for test items (14) and (15)!
- Explain why the grammar accepts test items (16) and (17), even though these strings of words are ungrammatical in English!
- What is missing from Grammar 3 to make the correct prediction for test items (16) and (17)?