

Analyses of English Aux, p. 1

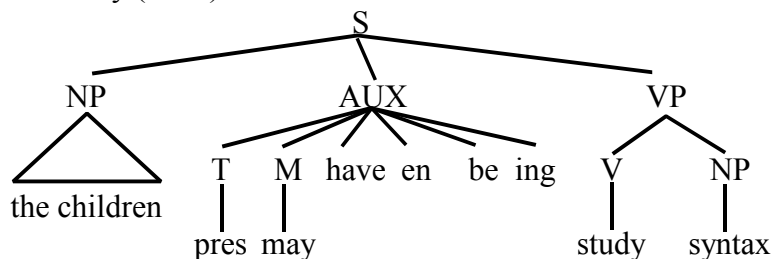
The children will take syntax.

is it:

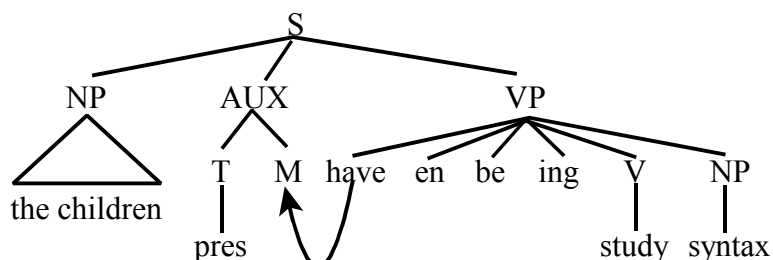
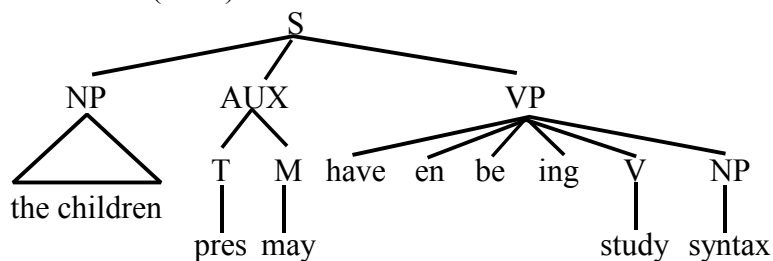
- **aux-predicate analysis:** *will* is the head of the sentence, and *[take syntax]* is a complement of *will*
- **aux-feature analysis:** *take* is the head of the sentence, and *will* is a “modifier” or morphological marker expressing/realizing future tense

Structural analysis based on aux-feature analysis

(1) Chomsky (1965)



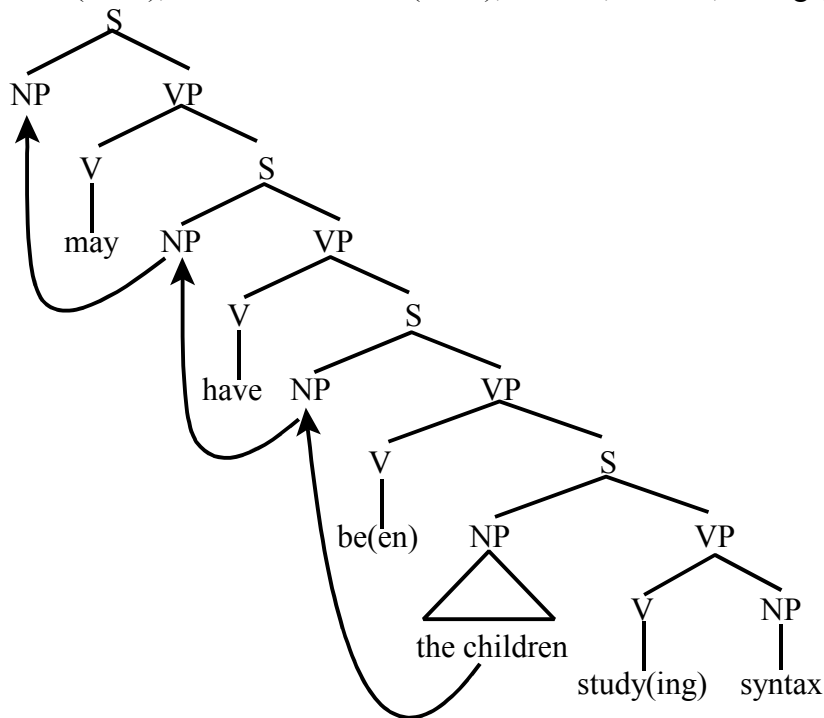
(2) Jackendoff (1972)



Analyses of English Aux, p. 2

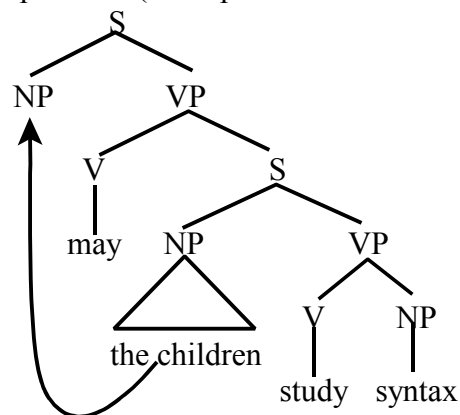
Structural analysis based on aux-predicate analysis

- (3) Ross (1969); Pullum & Wilson (1977); Gazdar, Pullum, & Sag (1982)



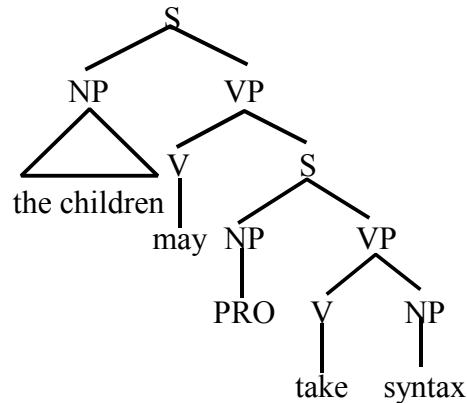
Some auxiliaries are ambiguous between an epistemic reading (which is raising-like) and a root reading (control-like). This can be captured by an aux-predicate analysis.

- (4) a. The children may study syntax.
 b. epistemic (≈It is possible that the children will study syntax.)



Analyses of English Aux, p. 3

- c. root (\approx The children have permission to study syntax.)



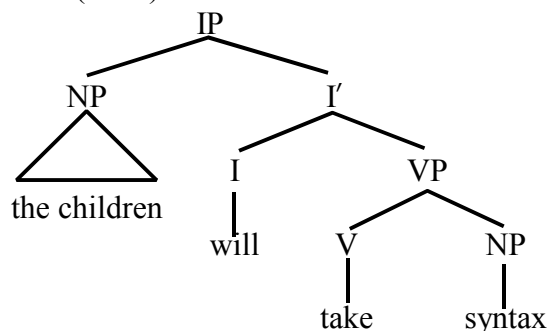
This is the standard analysis in HPSG; Sag (2000) provides the following lexical entry for supportive *do*, in which it syntactically selects a VP complement with which it shares a subject.

$$(5) \left[\begin{array}{l} \text{HEAD} \left[\begin{array}{ll} v & \\ \text{VFORM} & \textit{fin} \\ \text{AUX} & + \end{array} \right] \\ \text{COMPS} \left\langle \begin{array}{l} \text{VP} \\ \left[\begin{array}{ll} \text{VFORM} & \textit{base} \\ \text{SUBJ} & \boxed{1} \end{array} \right] \end{array} \right\rangle \\ \text{SUBJ} \boxed{1} \end{array} \right]$$

Some variants of the original analysis accept this in part; for example, Jackendoff (1977) considers progressive *be* to be an argument-taking predicate.

IP analysis: aux-predicate analysis + separate category

- (6) hinted at by Chomsky (1981), but the first explicit proposal to this effect appears to be Falk (1984). Current versions are based on Chomsky (1986)



Analyses of English Aux, p. 4

Have and *be*, under this analysis, are verbs which become infls when finite (often referred to as V-to-I), either by movement in a transformational framework or lexically in a constraint-based lexical framework.

IP analysis + aux-Feature analysis

- (7) Pollock (1989: 385, 386) “[*Have* and *be* and their French equivalents] have a unique status with respect to θ -theory: they arguably fail to assign any θ -role to the constituents they are subcategorized for.... That aspectual *be/être*, *have/avoir*, and ‘passive’ *be/être* are not θ -role assigners is not, I think, controversial.” This is a necessary element of the analysis as it explains the ability of *have* and *be* to raise to the infl position (or rather its equivalent in his exploded-infl theory).

Chomsky (1995: 198) takes the position that auxiliaries have no semantic features (such as predicate-argument structure).

Radford (1997): “Whereas a typical verb like *want* may take a range of different types of complement..., by contrast auxiliaries typically take a verb expression as their complement, and have the semantic function of marking grammatical properties associated with the relevant verb, such as *tense*, *aspect*, *voice*, *mood*, or *modality*.”

Given the structural IP analysis, which we will assume to be correct, this is the approach which is consistent with the structure-function mapping principles.

References

- Chomsky, Noam (1965) *Aspects of the Theory of Syntax*. Cambridge, Mass: MIT Press.
 Chomsky, Noam (1981) *Lectures on Government and Binding*. Dordrecht: Foris.
 Chomsky, Noam (1986) *Barriers*. Cambridge, Mass: MIT Press.
 Chomsky, Noam (1995) *The Minimalist Program*. Cambridge, Mass: MIT Press.
 Falk, Yehuda N. (1984) “The English Auxiliary System: A Lexical-Functional Analysis.” *Language* 60: 483–509.
 Gazdar, Gerald, Geoffrey K. Pullum, and Ivan Sag (1982) “Auxiliaries and Related Phenomena in a Restrictive Theory of Grammar.” *Language* 58: 591–638.
 Jackendoff, Ray (1972) *Semantic Interpretation in Generative Grammar*. Cambridge, Mass: MIT Press.
 Jackendoff, Ray (1977) *\bar{X} Syntax*. Cambridge, Mass: MIT Press.
 Pollock, Jean-Yves (1989) “Verb Movement, Universal Grammar, and the Structure of IP.” *Linguistic Inquiry* 20: 365–424.
 Pullum, Geoffrey K., and Deirdre Wilson (1977) “Autonomous Syntax and the Analysis of Auxiliaries.” *Language* 53: 741–788.
 Radford, Andrew (1997) *Syntactic Theory and the Structure of English: A Minimalist Approach*. Cambridge: Cambridge University Press.
 Ross, John Robert (1969) “Auxiliaries are Main Verbs.” in W. Todd, ed., *Studies in Philosophical Linguistics*. Evanston, Ill: Great Expectations Press. 77–102.
 Sag, Ivan (2000) “Rules and Exceptions in the English Auxiliary System.” Presented at the 7th International Conference on HPSG, University of California, Berkeley.
<http://eo.stanford.edu/sag/publications.html>