

Ling 106, Assignment 2. Due Wednesday, February 10th.

Part 1. Derivations.

Given our current grammar (syntactic and semantic rules), provide for each of the following sentences, (i) its syntactic tree structure; and (ii) a derivation of its truth-conditions.

- (1) Kristen is studying and not laughing.
- (2) Kali is happy.

Part 2. Ambiguity.

Consider now:

- (3) Kristen is studying and not laughing.
- (4) Kristen is not studying and laughing.

(3) is unambiguous, while (4) is. Does our grammar account for this by assigning two distinct interpretations to (4)? If no, provide the only phrase structure tree and interpretation for this sentence that our grammar generates. If yes, provide the two phrase structure trees and derivations for this sentence that our grammar generates.

Extra credit (optional). Transitives.

Our grammar does not yet account for sentences with transitive verbs:

- (5) Karen saved David.
- (6) David appreciates Karen.
- (7) Blendia invited Carlos.

- (i) Revise our current syntactic rules so that they generate these sentences.
- (ii) Propose a new semantic rule to account for VPs with transitive verbs. Keep all other semantic rules the same.
- (iii) Given your two new rules, provide the tree structure for one of the three examples above, and derive its truth-conditions.