Scope Ambiguity in Syntax and Semantics

Ling324

Reading: Meaning and Grammar, pg. 142-157

Scope Ambiguity

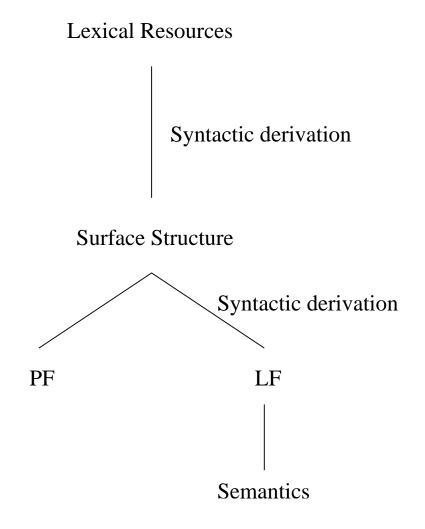
- (1) Everyone loves someone.
 - a. Wide scope reading of universal quantifier: $\forall x [\mathsf{person}(x) \to \exists y [\mathsf{person}(y) \land \mathsf{love}(x,y)]]$
 - b. Wide scope reading of existential quantifier: $\exists y [\mathsf{person}(y) \land \forall x [\mathsf{person}(x) \to \mathsf{love}(x,y)]]$

Representing Scope Ambiguity in Syntax

- In general, a sentence that is semantically ambiguous is also syntactically ambiguous.
 - (2) a. John saw a man with a pair of binoculars.
 - b. Competent women and men hold all the good jobs in the firm.
- What about sentences with scope ambiguity? Those sentences do not seem to be syntactically ambiguous.
 - (3) a. Everyone loves someone.
 - b. A professor talked to every student.

Representing Scope Ambiguity in Syntax (cont.)

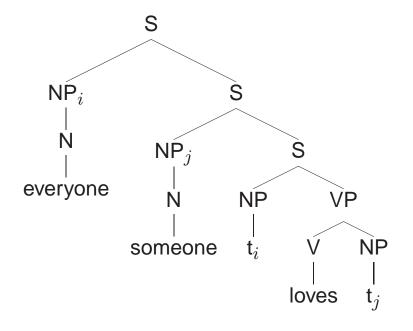
Model of the grammar

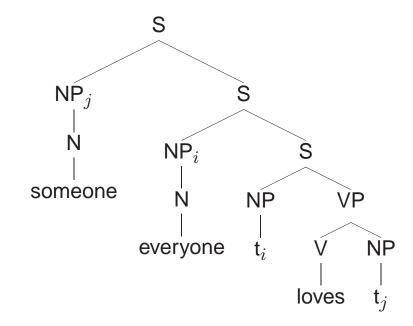


Representing Scope Ambiguity in Syntax (cont.)

- Syntactic movement takes place at LF, as well as at S-structure. S-structure movement is overt, and LF movement is covert.
- In sentences with quantifiers, the quantified expressions move at LF. This
 movement is called Quantifier Raising (QR).

QR allows for sentences with scope ambiguity to have ambiguous syntactic structure at LF.





$$\forall x [\mathsf{person}(x) \to \exists y [\mathsf{person}(y) \land \mathsf{love}(x,y)]]$$

$$\exists y [\mathsf{person}(y) \land \forall x [\mathsf{person}(x) \to \mathsf{love}(x,y)]]$$