Agenda: evidence of and models for complex structure in language

I. A highly ambiguous sentence From last lecture:

"I saw her duck with a telescope."

Many interpretations are possible, but these do *not* correspond to *all* possible combinations of possible interpretations of the various "sub-units".

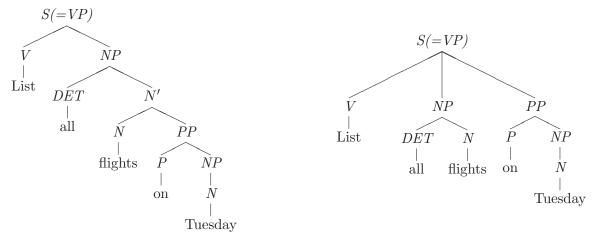
II. Evidence for constituents Consider the sentence

"List all flights on Tuesday."

Are there natural "chunks", or *constituents*?

- 1. "List all flights when?" vs. "List all what Tuesday?"
- 2. "On Tuesday, list all flights" vs. "Flights on, list all Tuesday"
- 3. "List ... all ... flights [...] on Tuesday" vs. "List ... all ... flights on ... Tuesday"
- 4. "All flights on Tuesday, please"

III. Tree representation of (syntactic) sentence structure



NP=noun phrase; VP=verb phrase; PP=prepositional phrase. N' (pronounced "N-bar") is a "bare noun phrase". The labels just above the leaves represent parts of speech (POSs); DET=determiner.

IV. X-bar schemas Briefly, the main idea is that (in English) a "motif" is the following type of constituent structure:

