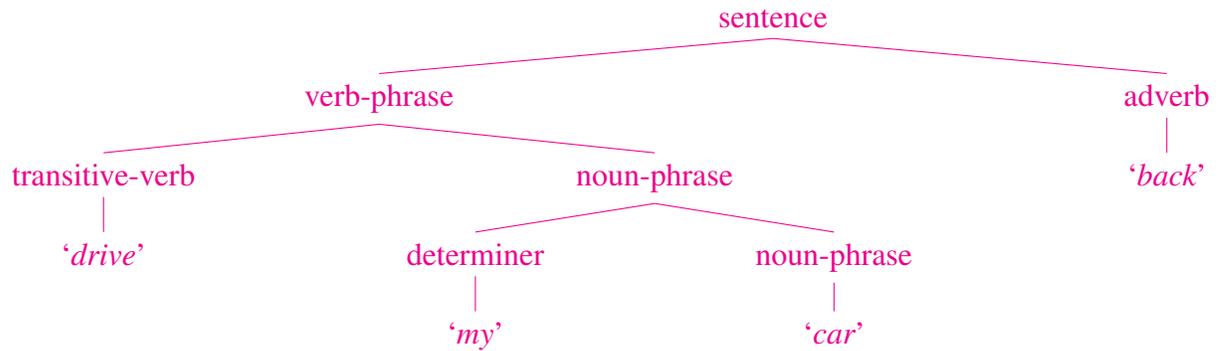


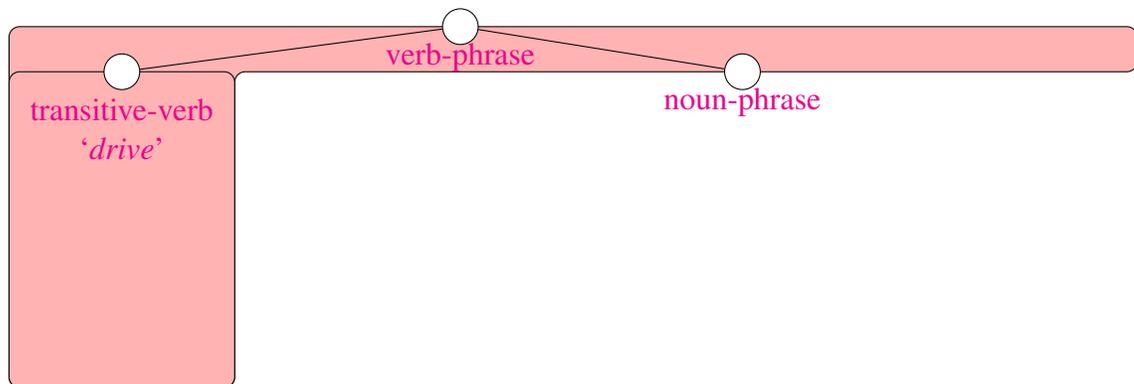
Ling 5701: Problem Set 4

Due via Carmen dropbox at 11:59 PM 4/2.

- Consult the lecture notes on hierarchical sequential prediction. According to the model in those notes, assume the following complex event (a sentence) is being recognized:

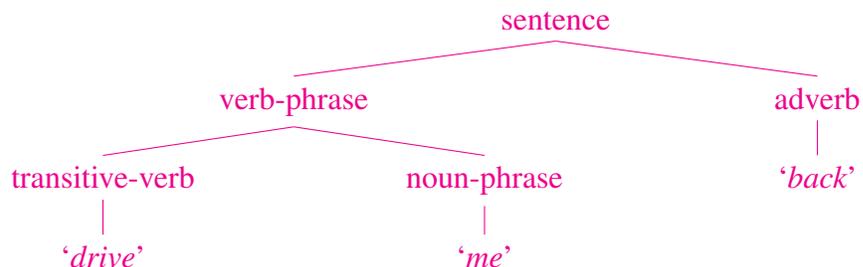


and the following event fragments have already been constructed:

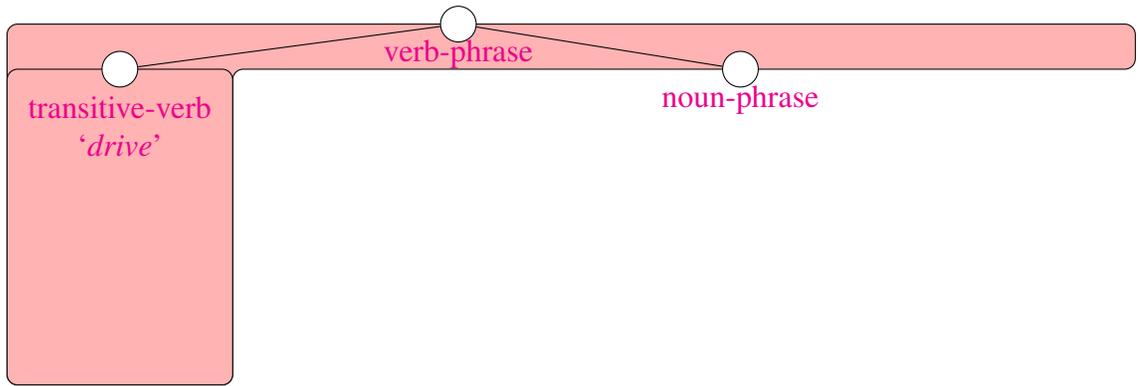


- [6 pts.] Draw the events and event fragments that would exist immediately after one terminal decision.
- [2 pts.] Which outcome (yes-match or no-match) is used in this decision?
- [2 pts.] How many disjoint (unconnected) events or event fragments exist at this point?

- Now assume the following complex event (a sentence) is being recognized:

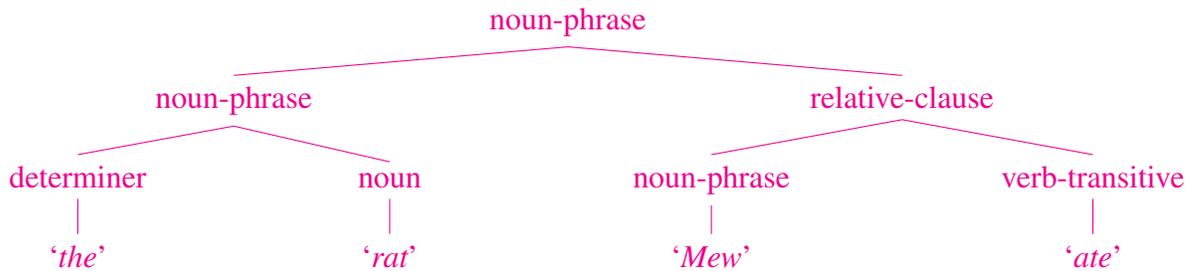


and the following event fragments have already been constructed:

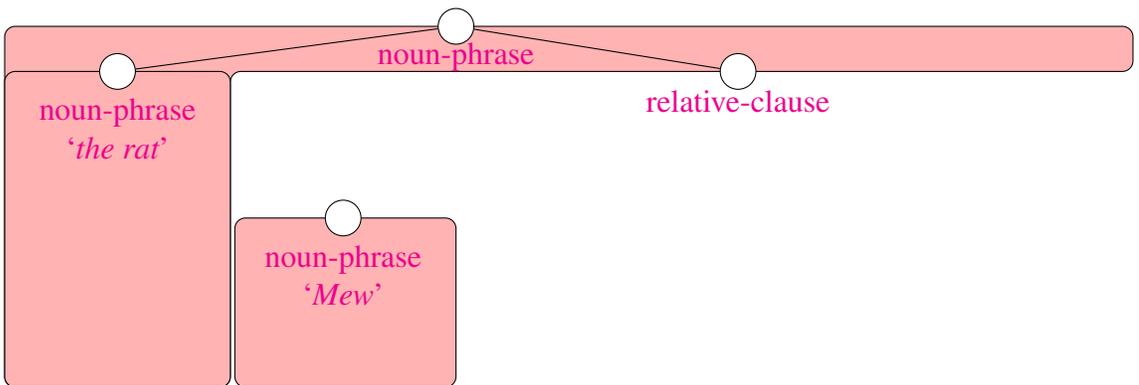


- (a) [6 pts.] Draw the events and event fragments that would exist immediately after one terminal decision.
- (b) [2 pts.] Which outcome (yes-match or no-match) is used in this decision?
- (c) [2 pts.] How many disjoint (unconnected) events or event fragments exist at this point?

3. Now assume the following complex event (a noun phrase) is being recognized:

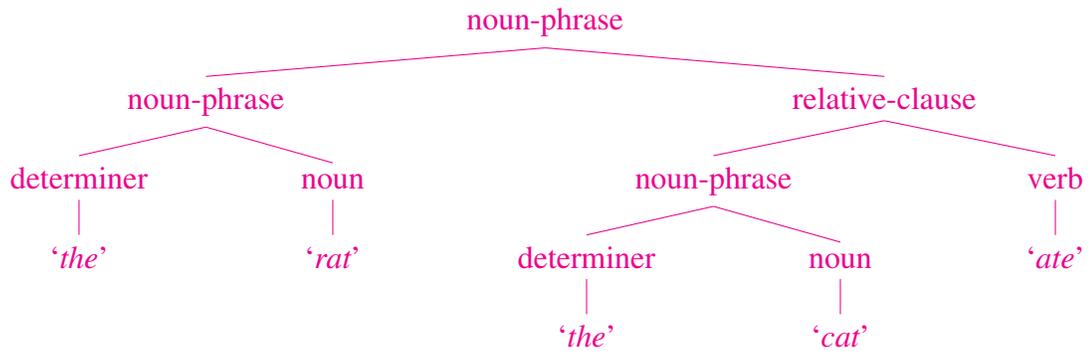


and the following event fragments have already been constructed:

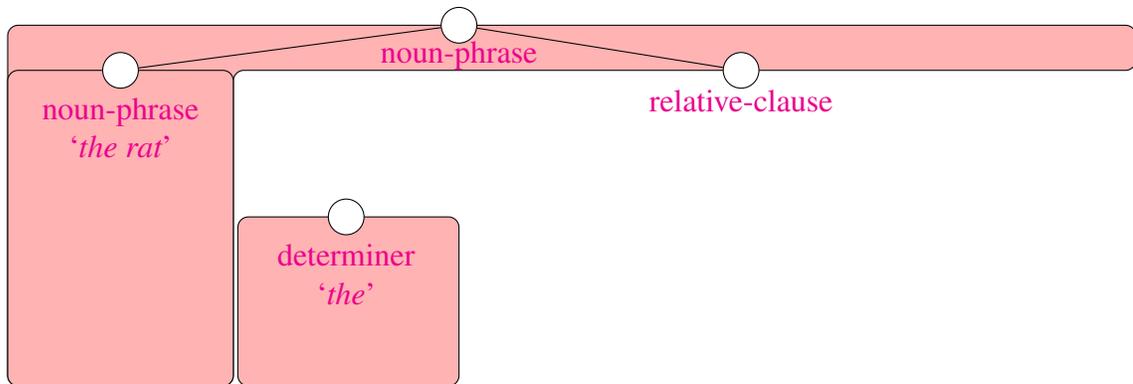


- (a) [6 pts.] Draw the events and fragments that would exist immediately after one non-terminal decision.
- (b) [2 pts.] Which outcome (yes-match or no-match) is used in this decision?
- (c) [2 pts.] How many disjoint (unconnected) events or event fragments exist at this point?

4. Now assume the following complex event (a noun phrase) is being recognized:



and the following event fragments have already been constructed:



- (a) [6 pts.] Draw the events and fragments that would exist immediately after one non-terminal decision.
- (b) [2 pts.] Which outcome (yes-match or no-match) is used in this decision?
- (c) [2 pts.] How many disjoint (unconnected) events or event fragments exist at this point?