DGfS-CL Fall School 2011: Introduction to Tree Adjoining Grammar

Exercises for the second week

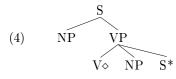
- 1. Sentence (1) has two readings:
 - (1) Peter saw a man with a telescope.

with a telescope can modify either the NP a man, or the transitive verb saw.

- (a) Provide an LTAG G (without feature structures), that derives both readings of (1), and that only includes elementary trees in accordance with the design principles from the lecture.
- (b) Give the derivation trees of both readings according to G.
- 2. The following sentence contains a rasing construction with a small clause:
 - (2) They seem angry.
 - (a) Provide a FTAG G, that derives (2)). Try to use only tree templates from XTAG. Case marking and agreement are to be modelled like in the lecture.
 - (b) Give the derived tree (before the final top-bottom unification) of (2) according to G.
- 3. Sentence (3) includes the control verb promise and wh-extraction:
 - (3) Who did she promise to leave the party.

Lets assume that who is the nominal Object of promise.

- (a) Provide an LTAG G with feature structures, that is able to derive (3). Try to use only tree templates from XTAG and the XTAG features AGR, CASE, WH, INV, MODE.
- (b) Give the derivation tree for (3) according to G.
- 4. The tree template in (4) is used for control verbs (with base configuration).



- (a) Give the XMG-classes that describe this tree template! Try to reuse as much as possible from the given source code.
- (b) Include all the features from the lecture! Remember that features must be properly declared!