

Syntactic Theory: Test Exam WS2011-2012

Lecturers: PD Dr. Valia Kordoni

27-01-2012

Please, write on the paper provided to you for the exam:

1. your name and surname;
2. your semester;
3. your registration number;
4. your M.Sc. program

Questions

1. (10 pts.) For the following ambiguous sentence, provide a CFG-based phrase-structure analysis

(1) I saw John and Mary left early.

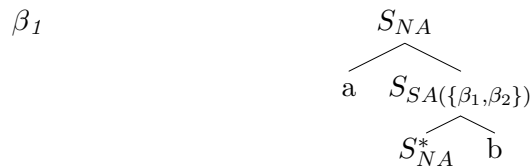
2. (10 pts.) What are the formal properties of dependency relations?

3. (10 pts.) What is the string language generated by the following TAG:

Initial tree:



Auxiliary trees:



Explain your answer by providing the derived tree and the derivation tree.

4. (10 pts.) What does the term *signature* refer to in HPSG?
5. (10 pts.) Describe the HPSG head-adjunct schema with AVMs.
6. (20 pts.) Consider the sentence below:
 - (2) Winning the gold medal in Athens will delight Mary.
 - (a) Provide a Dependency Grammar analysis for the sentence in (2).
7. (10 pts.) Provide a TAG analysis for the sentence in (3):
 - (3) *Books*, I know you gave Kim.
8. (20 pts.) Provide a Dependency Grammar analysis for the sentence in (4):
 - (4) The sonata is tough for him to play on the violin.