Basic (C)CG Semantic Derivations

Syntax and Semantics of Natural Language, ACS 2011, Assignment 2
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1   Deadline

Hand in this assignment to me at the lecture on Tuesday 8th February.

2   Task

Provide CCG derivations for the 4 sentences below and add a rule-to-rule first-order semantics which builds up the meaning of each sentence compositionally using the typed lambda calculus. To do this you will need to associate a meaning with each lexical item and a corresponding compositional rule with each syntactic combination rule (schema) you use in the derivation.

4 marks will be awarded for each correct derivation. 4 marks for correct specification of compositional rules for syntactic rules of combination

3   Sentences

(1) The man gave Raymond the book.

(2) Raymond gave the expensive book to Mary.

(3) John gave Mary and provided Raymond with some books.

(4) Raymond pitied the man who John brutally kicked.