CCG Compositional Semantic Derivations

1 Task

Provide FOL formuli which capture the meaning of the 4 sentences below. Add a rule-to-rule type-driven compositional semantics to CCG using the lambda calculus which constructs these formuli for each sentence from CCG derivations. To do this you will need to associate a semantics with each lexical item and a corresponding compositional rule with each syntactic combination rule (schema) you use in the derivation. Briefly discuss any issues which arise with respect to each example.

2 Sentences

(1) The man gave Raymond the book.

(2) Raymond gave the expensive book to every woman.

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

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