

SLIDE 8,9 - Semantics 2

Suggested substitution order:

rule 2, rule 4, rule 5, rule 6, rule 1, rule 3, rule 7

1)  $ProperNoun \rightarrow AyCaramba \quad \{AyCaramba\}$

2)  $MassNoun \rightarrow meat \quad \{Meat\}$

3)  $NP \rightarrow ProperNoun \quad \{ProperNoun.sem\}$

4)  $NP \rightarrow MassNoun \quad \{MassNoun.sem\}$

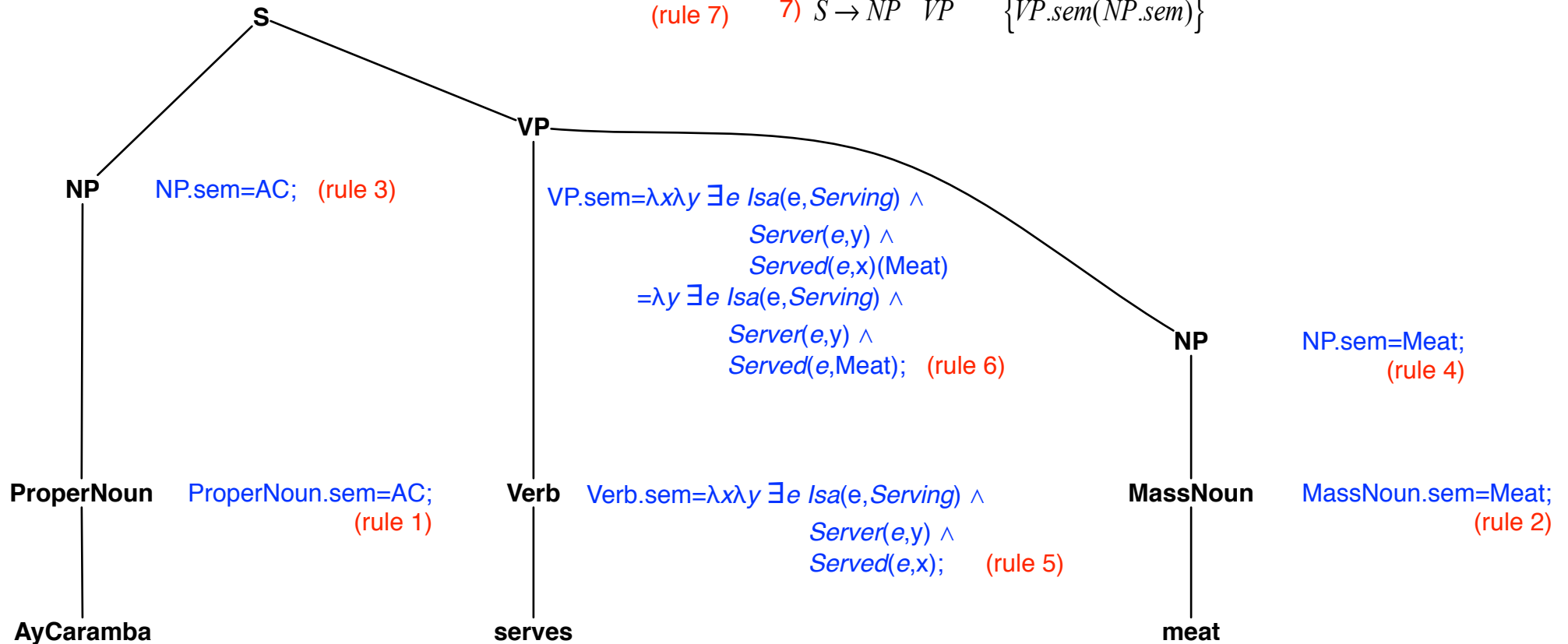
5)  $Verb \rightarrow serves \quad \{\lambda x \lambda y \exists e Isa(e, Serving) \wedge Server(e, y) \wedge Served(e, x)\}$

6)  $VP \rightarrow Verb \quad NP \quad \{Verb.sem(NP.sem)\}$

7)  $S \rightarrow NP \quad VP \quad \{VP.sem(NP.sem)\}$

$S.sem = \lambda y \exists e Isa(e, Serving) \wedge Server(e, y) \wedge Served(e, Meat)(AC)$   
 $= \exists e Isa(e, Serving) \wedge Server(e, AC) \wedge Served(e, Meat);$

(rule 7)



NB: AC abbreviates AyCaramba