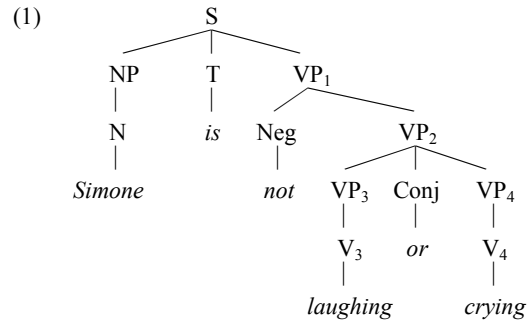


Ling 320, Assignment 4. Solution.



- For any  $s$ ,  $[[S]]^s = 1$  iff
- $[[NP]]^s \in [[VP_1]]^s$  by (a)
  - $[[N]]^s \in [[VP_1]]^s$  by (b)
  - $[[Simone]]^s \in [[VP_1]]^s$  by (b)
  - $Simone \in [[VP_1]]^s$  by (c)
  - $Simone \in ([VP_2]^s) \cap [Neg]^s$  by (e)
  - $Simone \in ([VP_2]^s) \cap [not]^s$  by (b)
  - $Simone \in ([VP_2]^s)'$  by (c)
  - $Simone \notin ([VP_2]^s)$  by def. '
  - $Simone \notin ([VP_3]^s \cup [VP_4]^s)$  by (d)
  - $Simone \notin ([V_3]^s \cup [VP_4]^s)$  by (b)
  - $Simone \notin ([V_3]^s \cup [V_4]^s)$  by (b)
  - $Simone \notin ([laughing]^s \cup [V_4]^s)$  by (b)
  - $Simone \notin ([laughing]^s \cup [crying]^s)$  by (b)
  - $Simone \notin (\{x \mid x \text{ is laughing in } s\} \cup [crying]^s)$  by (c)
  - $Simone \notin (\{x \mid x \text{ is laughing in } s\} \cup \{x \mid x \text{ is crying in } s\})$  by (c)
  - $Simone \notin \{x \mid x \text{ is laughing or crying in } s\}$  by def.  $\cup$