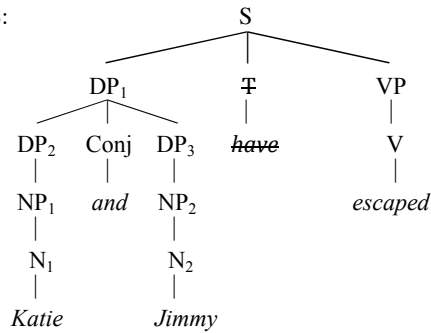


Lgcs 106, Semantics. Practice derivations. 1 Mar 2010.

Katie and Jimmy have escaped.

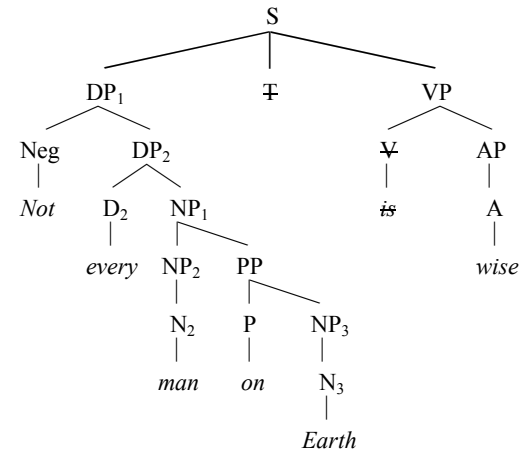
SS:



For any  $s$ ,  $[[S]]^s = 1$  iff

- $[[VP]]^s \in [[DP_1]]^s$  (a)
- $[[VP]]^s \in [[DP_2]]^s \vee [[DP_3]]^s$  (d)
- $[[VP]]^s \in [[DP_2]]^s \cap [[DP_3]]^s$  (b)x2, (c)
- $[[VP]]^s \in \{A \mid \text{Katie} \in A\} \cap [[DP_3]]^s$  (b)x3, (c)
- $[[VP]]^s \in \{A \mid \text{Katie} \in A\} \cap \{A \mid \text{Jimmy} \in A\}$  (b)x3, (c)
- $[[VP]]^s \in \{A \mid \text{Katie} \in A \text{ and Jimmy} \in A\}$   $\cap$
- $\text{Katie} \in [[VP]]^s \text{ and Jimmy} \in [[VP]]^s$   $\in$
- $\text{Katie} \in \{x \mid \text{escape}(x)(s)\} \text{ and Jimmy} \in \{x \mid \text{escape}(x)(s)\}$  (b)x4, (c)x2

Not every man on Earth is wise.



For any  $s$ ,  $[[S]]^s = 1$  iff

- $[[VP]]^s \in [[DP_1]]^s$  (a)
- $[[VP]]^s \notin [[DP_2]]^s$  (e), (b), (c),'
- $[[wise]]^s \notin [[DP_2]]^s$  (b)x3
- $[[wise]]^s \notin \{A \mid \langle [NP_1]^s, A \rangle \in [[D_2]]^s\}$  (h)
- $[[wise]]^s \notin \{A \mid [NP_1]^s \subseteq A\}$  (b), (c),  $\in$
- $[NP_1]^s \not\subseteq [[wise]]^s$   $\notin$
- $[NP_2]^s \cap [PP]^s \not\subseteq [[wise]]^s$  (g)
- $[[man]]^s \cap [PP]^s \not\subseteq [[wise]]^s$  (b)x2
- $[[man]]^s \cap \{x \mid \langle x, [NP]^s \rangle \in [P]^s\} \not\subseteq [[wise]]^s$  (f)
- $[[man]]^s \cap \{x \mid \langle x, \text{Earth} \rangle \in [P]^s\} \not\subseteq [[wise]]^s$  (b)x2, (c)
- $[[man]]^s \cap \{x \mid \text{on}(x)(\text{Earth})(s)\} \not\subseteq [[wise]]^s$  (b), (c),  $\in$
- $\{x \mid \text{man}(x)(s)\} \cap \{x \mid \text{on}(x)(\text{Earth})(s)\} \not\subseteq \{x \mid \text{wise}(x)(s)\}$  (c)x2