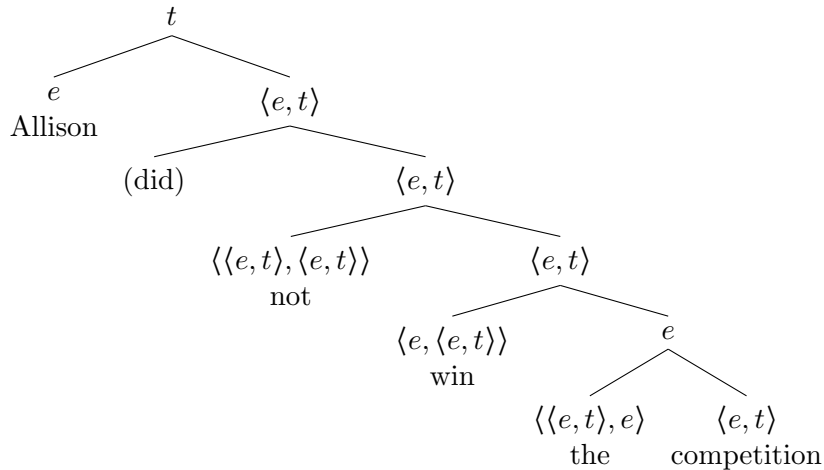


1 Practice

- Are the underlined modifiers intersective or non-intersective?
 - Tyra wore a blue dress solution given in class
 - Fatima missed the main event solution given in class
 - Twiggy is a former supermodel solution given in class
 - Miss J imitated a dead horse solution given in class
- Give a full lambda computation of the following sentences, including a tree annotated with types, the lexical entries, and a step-by-step computation. You can ignore tense, and you can treat *to*, *is*, and *of* as meaningless.
 - The judge is not happy solution given in class
 - Allison did not win the competition
 - Janice is an honest judge solution given in class



$$\llbracket \text{the} \rrbracket = \lambda f_{\langle e, t \rangle} [\iota x [f(x)]]$$

$$\llbracket \text{competition} \rrbracket = \lambda y [COMPETITION(y)]$$

$$\llbracket \text{not} \rrbracket = \lambda f_{\langle e, t \rangle} [\lambda x [\neg f(x)]]$$

$$\llbracket \text{win} \rrbracket = \lambda y [\lambda z [WIN(z, y)]]$$

$$\llbracket \text{Allison} \rrbracket = a$$

[[Allison (did) not win the competition]]

1. [[the competition]]

$$\begin{aligned}
 &= \llbracket \text{the} \rrbracket (\llbracket \text{competition} \rrbracket) \\
 &= \lambda f_{\langle e,t \rangle} [\iota x [f(x)]] (\llbracket \text{competition} \rrbracket) \\
 &= \iota x [\llbracket \text{competition} \rrbracket (x)] \\
 &= \iota x [\lambda y [\text{COMPETITION}(y)](x)] \\
 &= \iota x [\text{COMPETITION}(x)] \\
 &= c
 \end{aligned}$$

2. [[win the competition]]

$$\begin{aligned}
 &= \llbracket \text{win} \rrbracket (\llbracket \text{the competition} \rrbracket) \\
 &= \llbracket \text{win} \rrbracket (c) \\
 &= \lambda y [\lambda z [\text{WIN}(z, y)]](c) \\
 &= \lambda z [\text{WIN}(z, c)]
 \end{aligned}$$

3. [[not win the competition]]

$$\begin{aligned}
 &= \llbracket \text{not} \rrbracket (\llbracket \text{win the competition} \rrbracket) \\
 &= \lambda f_{\langle e,t \rangle} [\lambda x [\neg f(x)]] (\llbracket \text{win the competition} \rrbracket) \\
 &= \lambda x [\neg \llbracket \text{win the competition} \rrbracket (x)] \\
 &= \lambda x [\neg [\lambda z [\text{WIN}(z, c)](x)]] \\
 &= \lambda x [\neg \text{WIN}(x, c)]
 \end{aligned}$$

Optionally before this: $= \lambda x [\neg [\text{WIN}(x, c)]]$

4. [[Allison (did) not win the competition]]

$$\begin{aligned}
 &= \llbracket \text{not win the competition} \rrbracket (\llbracket \text{Allison} \rrbracket) \\
 &= \llbracket \text{not win the competition} \rrbracket (a) \\
 &= \lambda x [\neg \text{WIN}(x, c)](a) \\
 &= \text{T iff } \neg \text{WIN}(a, c)
 \end{aligned}$$