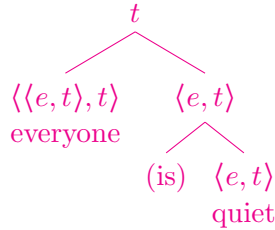


1 Extra practice

Provide a full lambda computation of the following sentences, including a tree annotated with types, the lexical entries, and a step-by-step computation. Ignore tense, and you can treat *is* and *was* as meaningless.

1. $\llbracket \text{Everyone (is) quiet} \rrbracket$

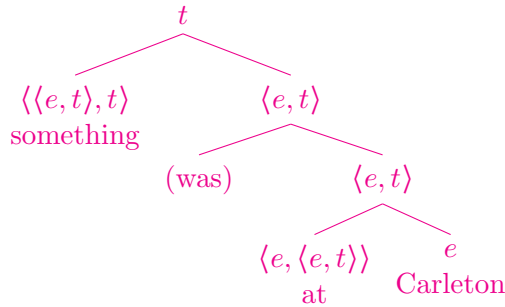


Computation and lexical entries: Replace “scream” with “quiet” in Section 2.2 of handout

2. Everything amused Lance

Solution given in class

3. $\llbracket \text{Something (was) at Carleton} \rrbracket$



$\llbracket \text{Carleton} \rrbracket = c$

$\llbracket \text{at} \rrbracket = \lambda x[\lambda y[AT(y, x)]]$

$\llbracket \text{something} \rrbracket = \lambda f_{\langle e, t \rangle}[\exists z[f(z)]]$

- (a) $\llbracket \text{at Carleton} \rrbracket$

i. $= \llbracket \text{at} \rrbracket(\llbracket \text{Carleton} \rrbracket)$

ii. $= \llbracket \text{at} \rrbracket(c)$

iii. $= \lambda x[\lambda y[AT(y, x)]](c)$

iv. $= \lambda y[AT(y, c)]$

- (b) $\llbracket \text{something (was) at Carleton} \rrbracket$

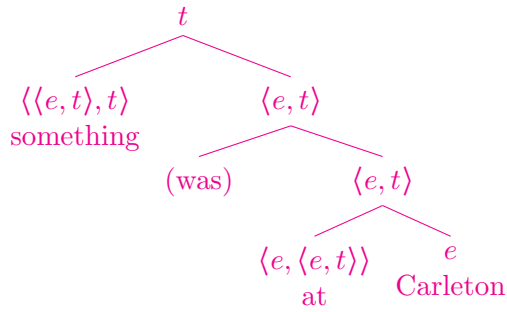
i. $= \llbracket \text{something} \rrbracket(\llbracket \text{at Carleton} \rrbracket)$

ii. $= \lambda f_{\langle e, t \rangle}[\exists z[f(z)]](\llbracket \text{at Carleton} \rrbracket)$

iii. $= \exists z[\llbracket \text{at Carleton} \rrbracket(z)]$

iv. $= \exists z[\lambda y[AT(y, c)](z)]$

v. $= \text{T iff } \exists z[AT(z, c)]$

4. $\llbracket \text{Everyone won Best Pop Album} \rrbracket$ 

$$\llbracket \text{Best Pop Album} \rrbracket = b$$

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

$$\llbracket \text{everyone} \rrbracket = \lambda f_{\langle e, t \rangle}[\forall z[PERSON(z) \rightarrow f(z)]]$$

(a) $\llbracket \text{won Best Pop Album} \rrbracket$

$$\text{i.} = \llbracket \text{win Best Pop Album} \rrbracket$$

$$\text{ii.} = \llbracket \text{win} \rrbracket(\llbracket \text{Best Pop Album} \rrbracket)$$

$$\text{iii.} = \llbracket \text{win} \rrbracket(b)$$

$$\text{iv.} = \lambda x[\lambda y[WIN(y, x)]](b)$$

$$\text{v.} = \lambda y[WIN(y, b)]$$

(b) $\llbracket \text{everyone won Best Pop Album} \rrbracket$

$$\text{i.} = \llbracket \text{everyone win Best Pop Album} \rrbracket$$

$$\text{ii.} = \llbracket \text{everyone} \rrbracket(\llbracket \text{win Best Pop Album} \rrbracket)$$

$$\text{iii.} = \lambda f_{\langle e, t \rangle}[\forall z[PERSON(z) \rightarrow f(z)]](\llbracket \text{win Best Pop Album} \rrbracket)$$

$$\text{iv.} = \forall z[PERSON(z) \rightarrow \llbracket \text{win Best Pop Album} \rrbracket(z)]$$

$$\text{v.} = \forall z[PERSON(z) \rightarrow \lambda y[WIN(y, b)](z)]$$

$$\text{vi.} = \text{T iff } \forall z[PERSON(z) \rightarrow WIN(z, b)]$$