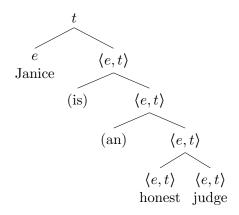
#### 1 Practice

- 1. Are the underlined modifiers intersective or non-intersective?
  - (a) Tyra wore a blue dress solution given in class
  - (b) Fatima missed the main event solution given in class
  - (c) Twiggy is a former supermodel solution given in class
  - (d) Miss J imitated a dead horse solution given in class
- 2. 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.
  - (a) The judge is not happy solution given in class/video
  - (b) Allison did not win the competition
  - (c) Janice is an honest judge

# 2. [Janice (is) (an) honest judge]



[Janice] = j  $[honest] = \lambda x [HONEST(x)]$   $[judge] = \lambda y [JUDGE(y)]$ 

### [honest judge]

 $= \lambda z[ [honest](z) \& [judge](z) ]$ 

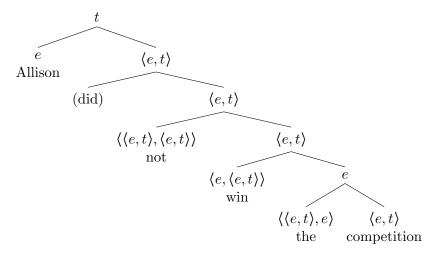
(via PM rule)

- $= \lambda z [\lambda x [HONEST(x)](z) \& [JUDGE](z)]$
- $= \lambda z [HONEST(z) \& [judge](z)]$
- $= \lambda z [HONEST(z) \& \lambda y [JUDGE(y)](z)]$
- $= \lambda z [HONEST(z) \& JUDGE(z)]$

[Janice (is) (an) honest judge]

- = [honest judge]([Janice])
- = [honest judge](j)
- $= \lambda z [HONEST(z) \& JUDGE(z)](j)$
- = T iff HONEST(j) & JUDGE(j)

# 3. [Allison (did) not win the competition]



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

$$[competition] = \lambda y[COMPETITION(y)]$$

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

$$[win] = \lambda y[\lambda z[WIN(z,y)]]$$

$$[Allison] = a$$

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

- 1. [the competition]
  - = [the]([competition])
  - $= \lambda f_{\langle e,t\rangle}[\iota x[f(x)]]([\text{competition}])$
  - $= \iota x[[competition](x)]$
  - $= \iota x[\lambda y[COMPETITION(y)](x)]$
  - $= \iota x[COMPETITION(x)]$
  - = c
- 2. [win the competition]
  - $= \llbracket \text{win} \rrbracket (\llbracket \text{the competition} \rrbracket)$
  - $= [\min](c)$
  - $= \lambda y[\lambda z[WIN(z,y)]](c)$
  - $= \lambda z[WIN(z,c)]$
- 3. [not win the competition]
  - = [not]([win the competition])
  - $=\lambda f_{(e,t)}[\lambda x[\neg f(x)]](\llbracket \text{win the competition} \rrbracket)$
  - $= \lambda x [\neg [\llbracket \text{win the competition} \rrbracket(x)]]$
  - $= \lambda x \lceil \neg \lceil \lambda z \lceil WIN(z,c) \rceil (x) \rceil \rceil$
  - $= \lambda x \lceil \neg WIN(x,c) \rceil$

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

- 4. [Allison (did) not win the competition]
  - = [not win the competition]([Allison])
  - = [not win the competition](a)
  - $= \lambda x [\neg WIN(x,c)](a)$
  - $= T \text{ iff } \neg WIN(a,c)$