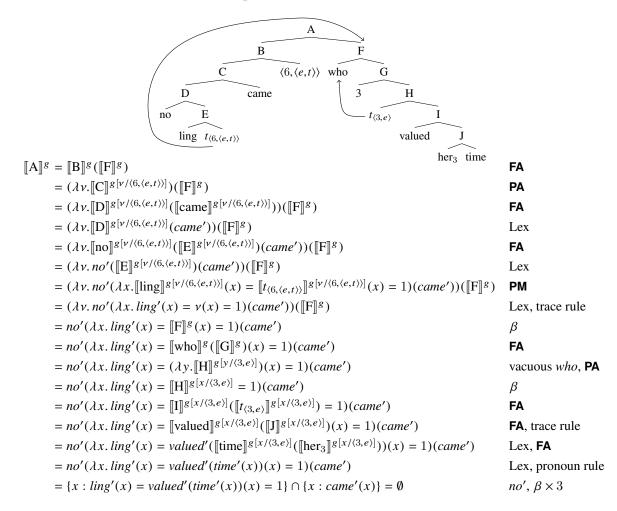
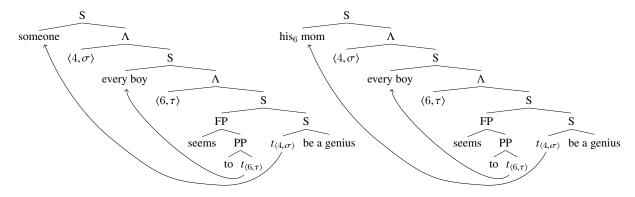
Homework 5: Solutions

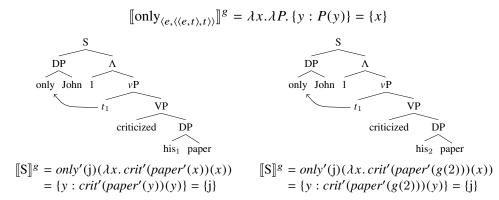
- 1. Sure! The indicated reading of *his mother saw John* could just involve a bit of serendipitous "accidental" coreference. Say the pronoun receives the index 2, and g(2) = j. Home free.
- 2. LF and calculation for bound-into extraposed relative clause:



Our account of scope reconstruction **doesn't** extent to binding reconstruction. In the tree on the left, if we set σ to $\langle\langle e,t\rangle,t\rangle$ and τ to e, we end up with *every boy* scoping over *someone* (exercise: verify this!). Things are different for the attempted binding-reconstruction tree on the right. No matter what type we choose for σ , **FA** mandates that *his*₆ *mom* gets interpreted at the "matrix" assignment g.

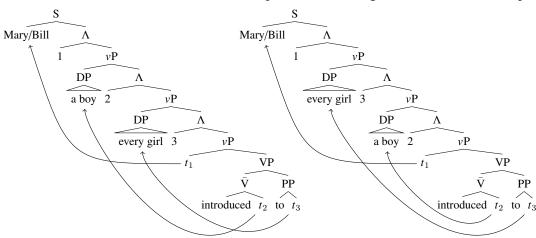


3. Lexical entry for adnominal *only* (note the type), followed by two trees and two abridged semantic derivations (you should be comfortable deriving either $[\![\Lambda]\!]^g$):

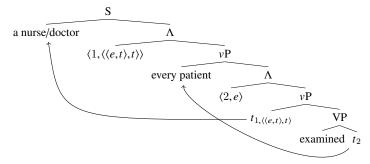


In the tree on the left, the trace and pronoun are both bound by *only John*, and the truth-condition is accordingly that only John was a self-criticizer. In the tree on the right, the pronoun remains free, and the truth-condition derived is accordingly that only John was a John-criticizer (assuming g(2) = j).

4. Below are LFs for *Mary introduced a boy to every girl, and then Bill did.* The left one underlies the both-surface-scope reading, and the right the both-inverse-scope reading. Mixing and matching surface/inverse scope LFs wouldn't allow the antecedent and elided phrases (i.e. the highest Λs) to share an interpretation.



Now, LFs for a nurse examined every patient, and a doctor did too:



Given that subject movement leaves a higher-order trace in both the *nurse*- and *doctor*- sentence, the elided phrases (i.e. the highest Λ s) share the below meaning, which scopally reconstructs the subject below the object. Thus, ellipsis is licensed, even as the subject scopes below the ν P-internal object.

$$\lambda Q.every'(patient')(\lambda x.Q(examined'(x)))$$

= $\lambda Q.\{x : patient'(x)\} \subseteq \{x : Q(examined'(x))\}$