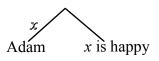
Representing Propositional Structures with Trees

Adam is happy.



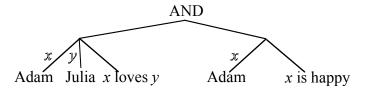
Adam loves Julia.

Adam Julia x loves y

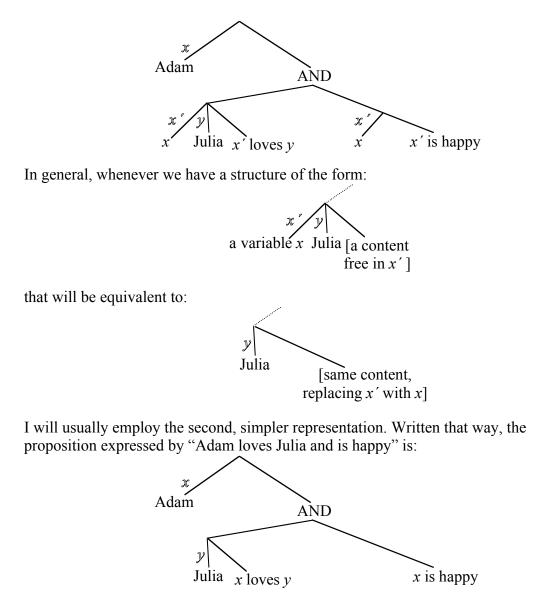
Julia does not love Adam.

NOT Adam Julia y loves x

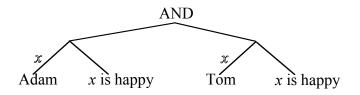
Adam loves Julia and Adam is happy.



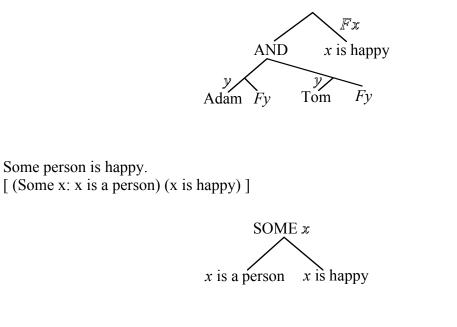
Adam loves Julia and is happy. [$\lambda x(x \text{ loves Julia and } x \text{ is happy})$ (Adam)]



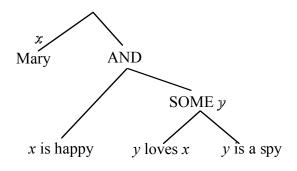
Adam is happy and Tom is happy.



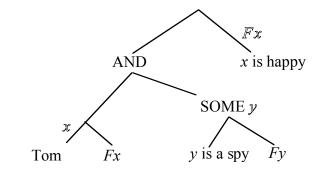
Adam and Tom are each happy. [λ F(Adam is F and Tom is F) (x is happy)]



Mary is happy and some lover of hers is a spy. $[\lambda x(x \text{ is happy and (some y: y loves x) (y is a spy))(Mary)}]$

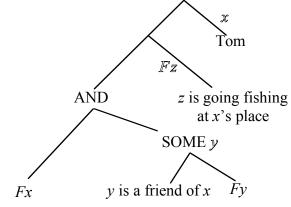


Tom and some spy are each happy. [λF (Tom is F and (some y: y is a spy) (y is F)) (x is happy)]



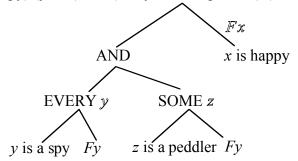
Tom and some of his friends are going fishing. AND Tom x is going fishing Fx y is a friend of x Fy

Tom and some of his friends are going fishing, at his [Tom's] place.

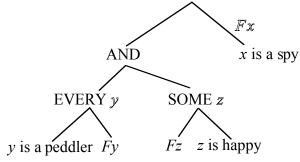


Every spy is happy, and some peddlers are too.

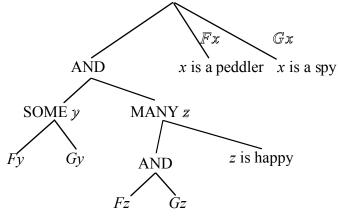
 $[\lambda F(\text{(every y: y is a spy)}(y \text{ is } F) \text{ and (every z: z is a peddler)}(z \text{ is } F))(x \text{ is happy})]$



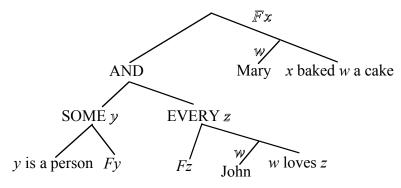
Spies are such that every peddler is one, and some of them [i.e. some spies] are happy. [$\lambda F($ (every y: y is a peddler) (y is F) and (some z: z is F) (z is happy)) (x is a spy)]



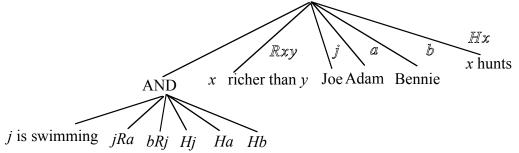
Some peddlers are spies, and many of them [the peddlers who are spies] are happy. [λ FG((some y: y is an F) (y is G) and (many z: z is F and z is G) (z is happy)) (x is peddler, x is a spy)]



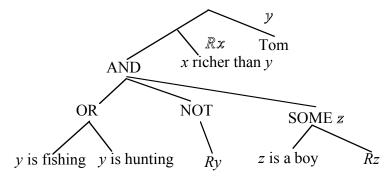
At least one person baked Mary a cake, and John loves everyone who did so. [$\lambda F($ (some y: y is a person) (y is F) and (every z: z is F) (John loves z)) (x baked Mary a cake)]



Joe is swimming, and he's more rich than Adam, but Bennie more [rich] than him, and all three hunt.



Tom is either fishing or hunting, and he's not richer than himself, but some boys are [richer than Tom].



Joe is swimming, and Tom is doing that and hunting Joe.

