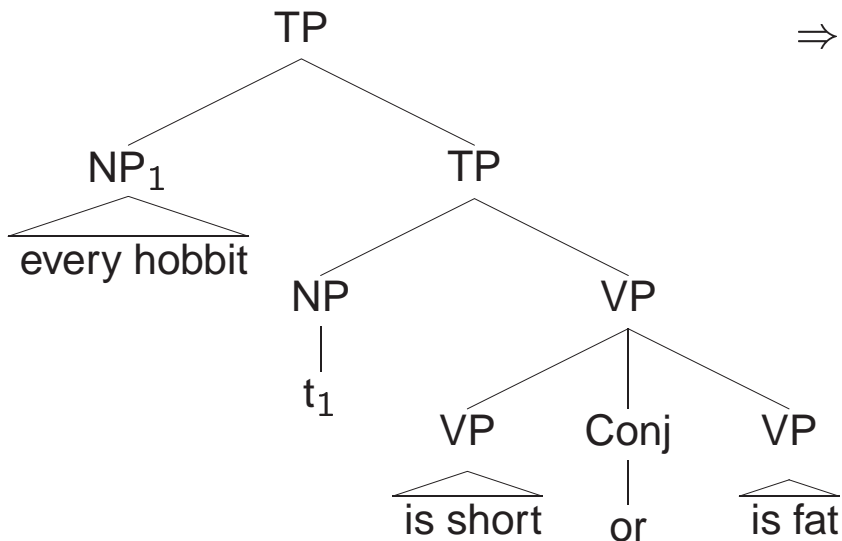


Translating *Every hobbit is short or is fat*

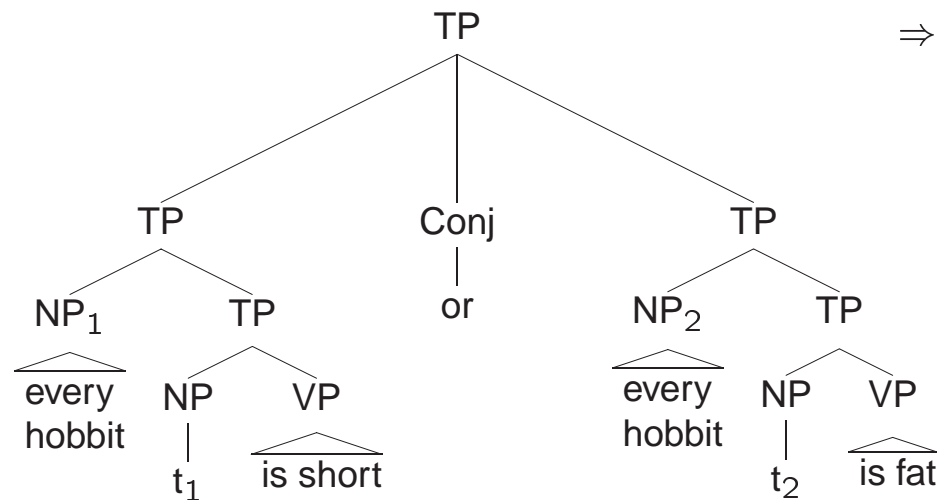


$\Rightarrow \forall x_1[\text{hobbit}'(x_1) \rightarrow [\text{short}'(x_1) \vee \text{fat}'(x_1)]]$

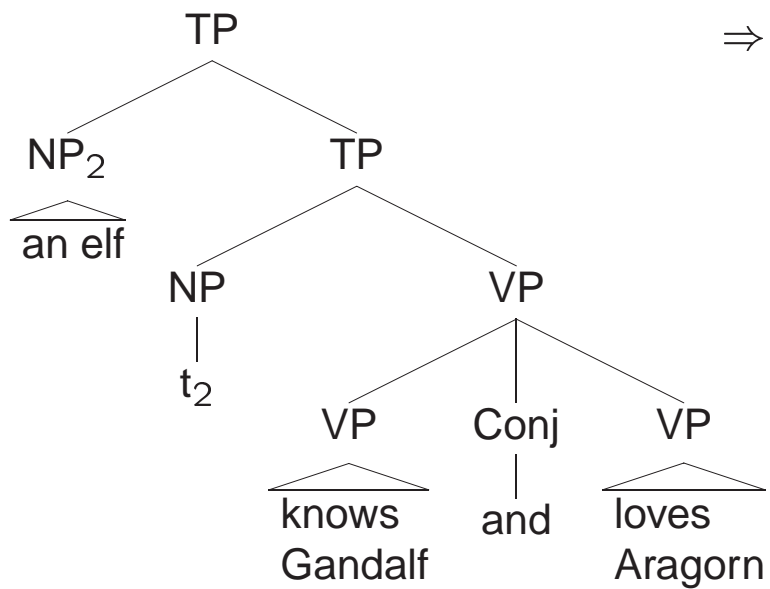
$\text{short}'(x_1) \vee \text{fat}'(x_1)$
 $= \lambda x[\text{short}'(x) \vee \text{fat}'(x)](x_1)$

x_1 $\lambda x[\text{short}'(x) \vee \text{fat}'(x)]$
 $= \lambda x[\lambda y[\text{short}'(y)](x) \vee \lambda y[\text{fat}'(y)](x)]$
 $\lambda y[\text{short}'(y)] \vee \lambda y[\text{fat}'(y)]$

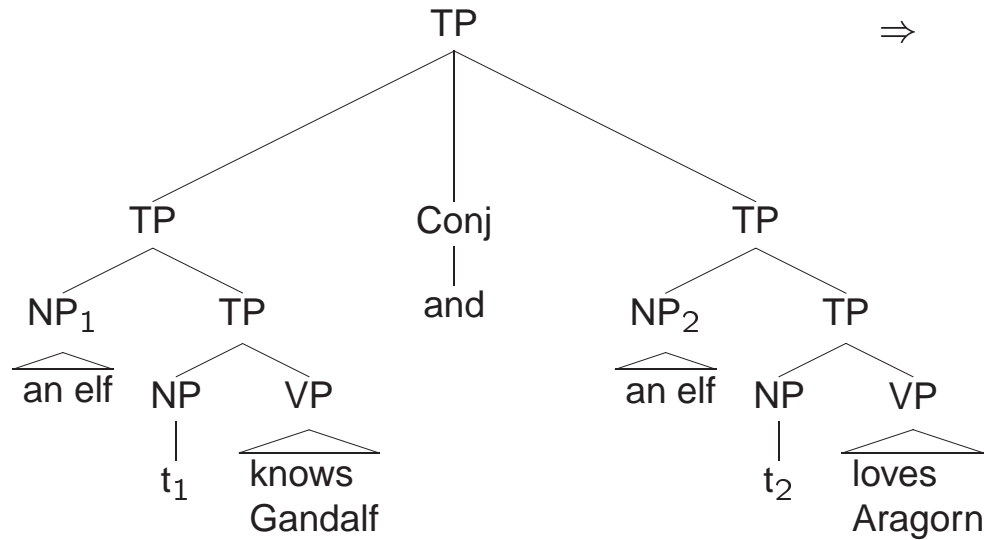
Translating *Every hobbit is short or every hobbit is fat*



Translating *An elf knows Gandalf and loves Aragorn*



Translating *An elf knows Gandalf and an elf loves Aragorn*



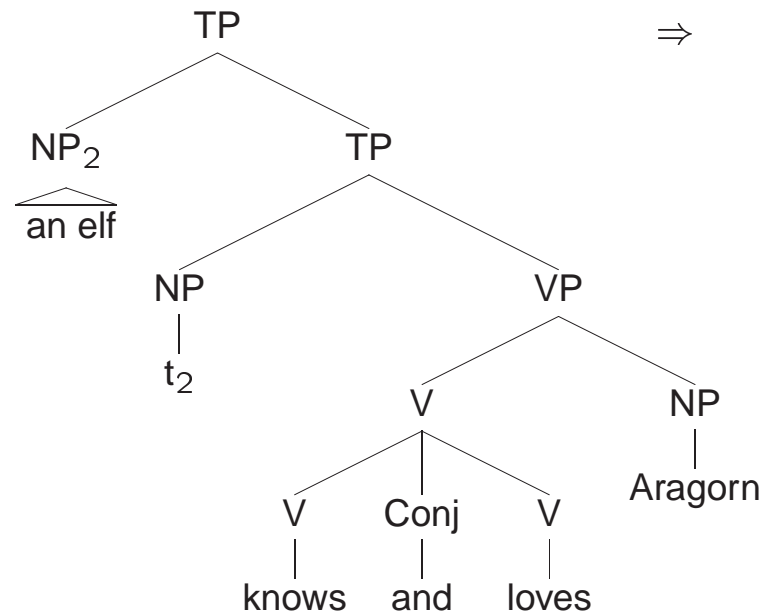
Conjunction of 2-place Predicates

- For any 2-place predicates,

$$[\text{Pred1} \wedge \text{Pred2}] = \lambda x \lambda y [\text{Pred1}(x)(y) \wedge \text{Pred2}(x)(y)]$$

$$[\text{Pred1} \vee \text{Pred2}] = \lambda x \lambda y [\text{Pred1}(x)(y) \vee \text{Pred2}(x)(y)]$$

- Translate *An elf knows and loves Aragorn.*



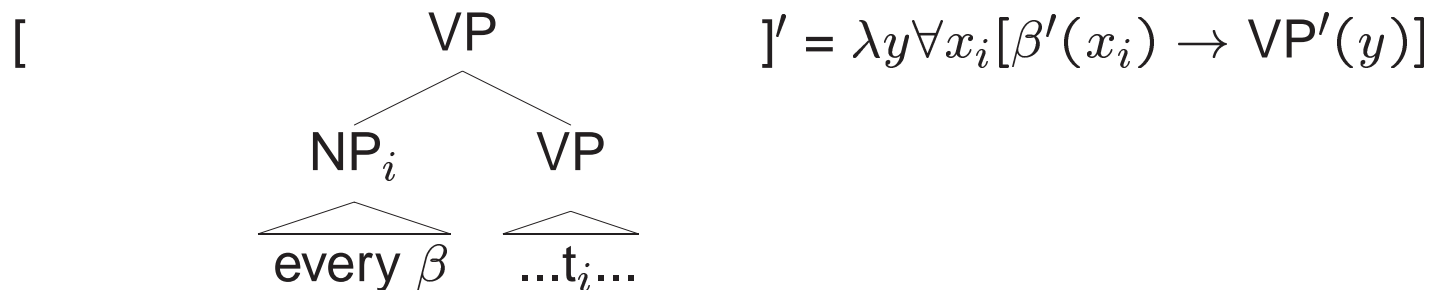
VP Conjunction with Quantifier

(4) Pippin [VP_1 is cheery] and [VP_2 knows every song].

- Problem: In order to translate/interpret (4), *every song* has to undergo QR at LF. But it cannot move and adjoin to TP because movement out of coordinate structure is highly constrained.

(5) * [*Every song*]₁, [TP Pippin [VP_1 is cheery] and [VP_2 knows t_1]].

- Solution: QR to VP, and λ -abstraction



Translating *Pippin is cheery and knows every song*

