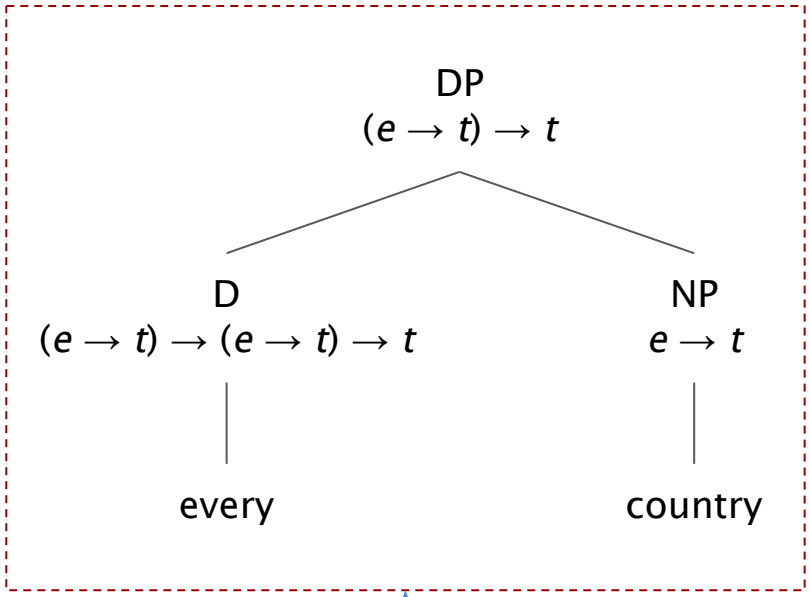
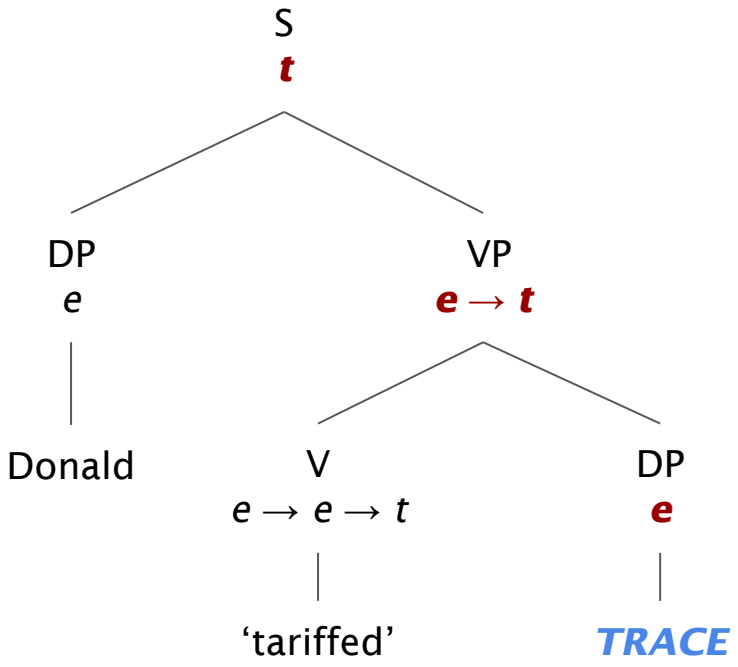
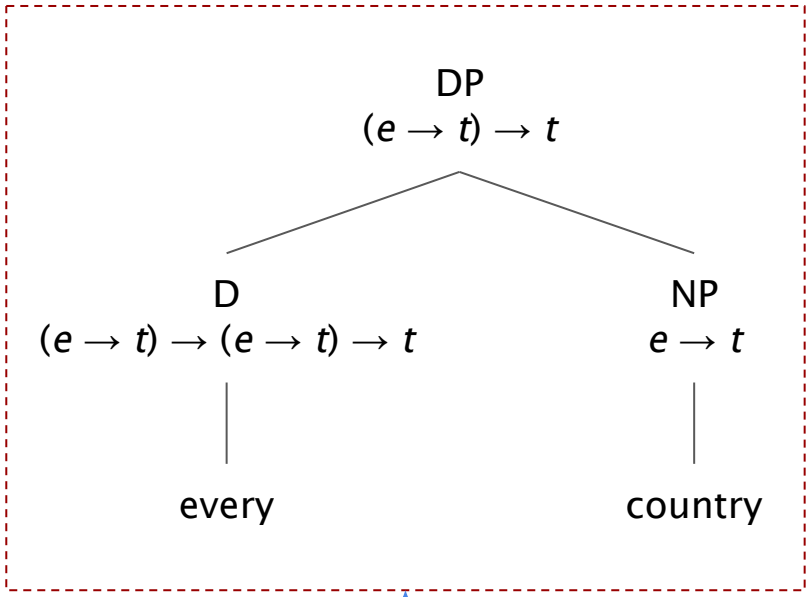
Quantifier Raising



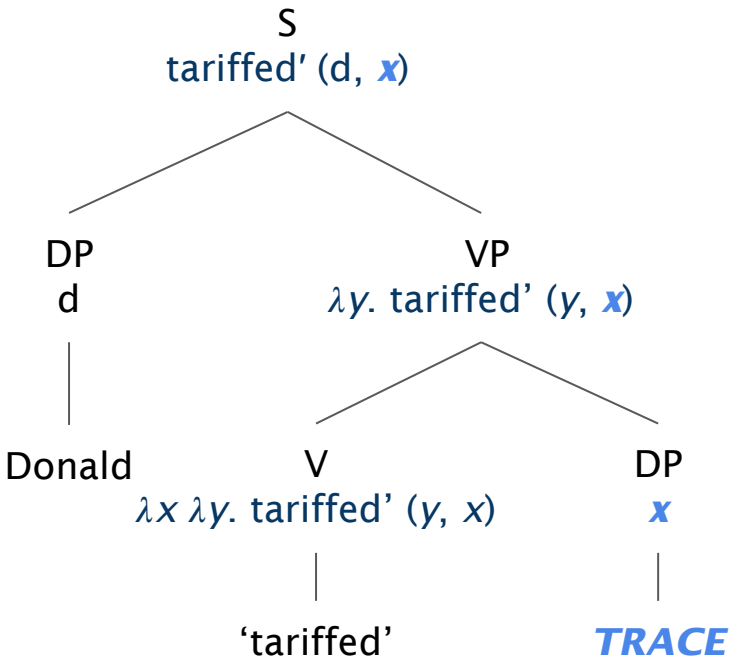
The quantifier moves, leaving a TRACE of type *e*.



Quantifier Raising

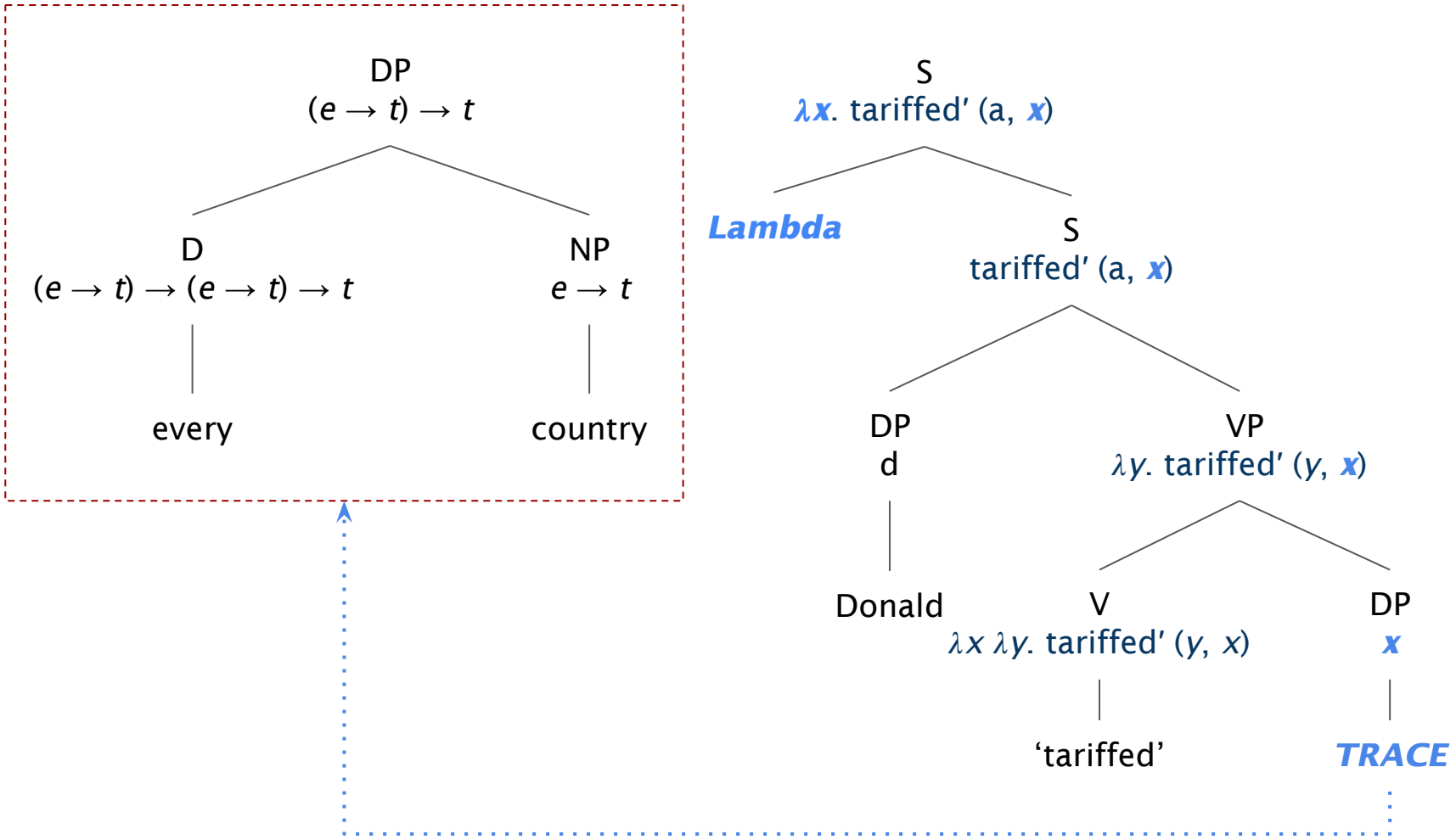


The TRACE is interpreted as a variable of type *e*: $[\![\text{TRACE}]\!]^M = x$



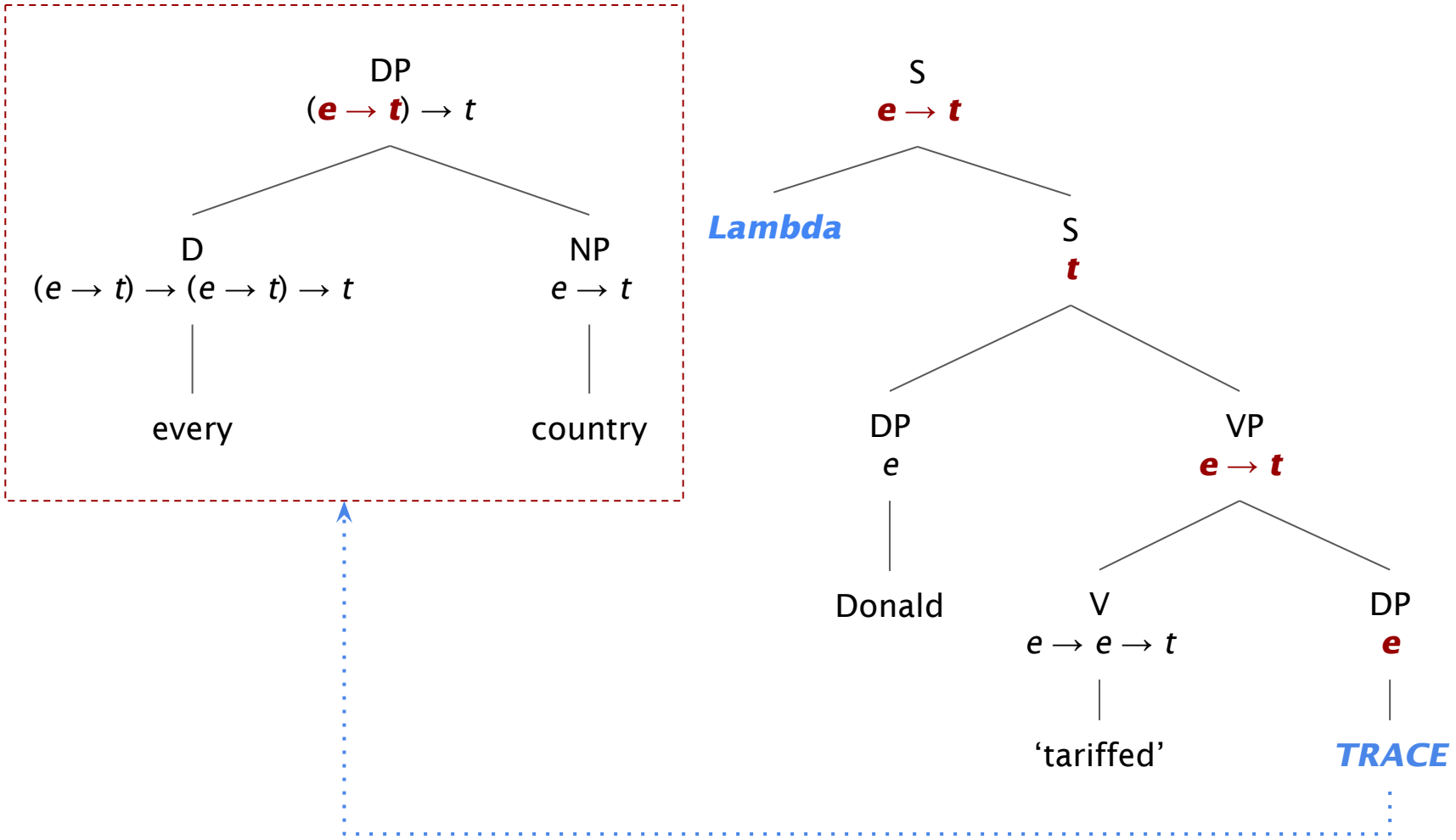
Quantifier Raising

Lambda operates on the variable *x*, shifting a proposition to a function of type $e \rightarrow t$.

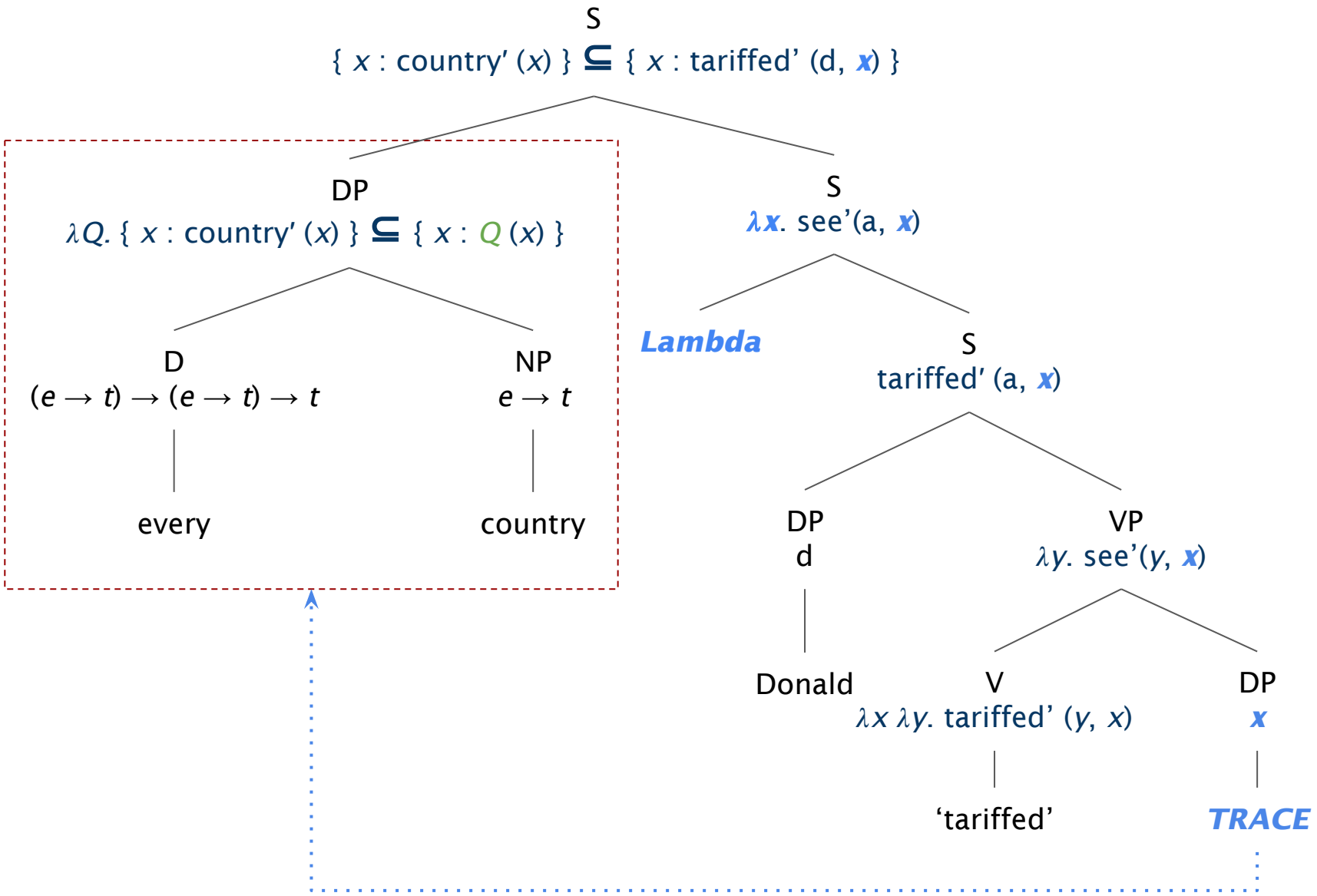


Quantifier Raising

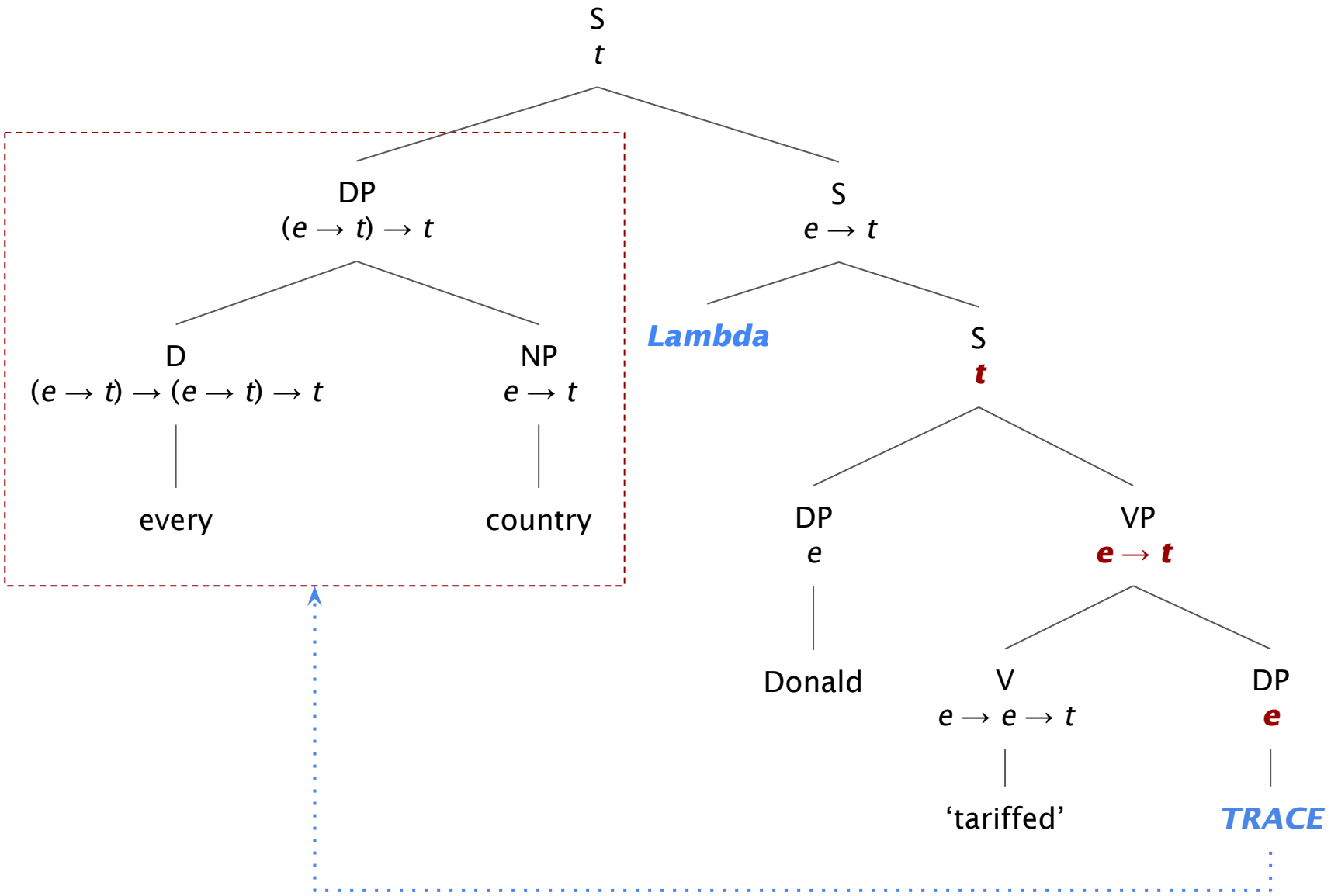
Lambda operates on the variable *x*, shifting a proposition to a function of type $e \rightarrow t$.



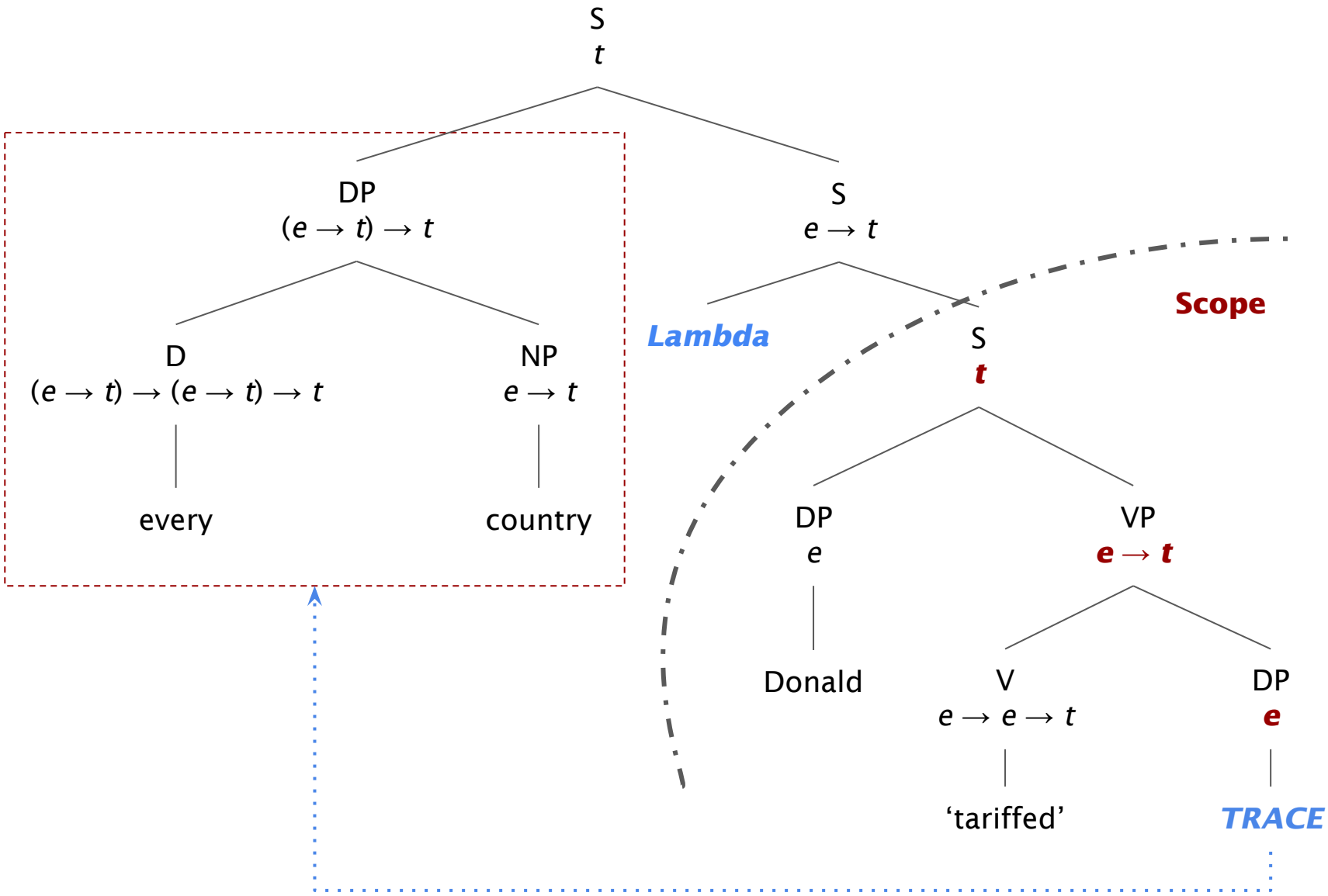
Quantifier Raising

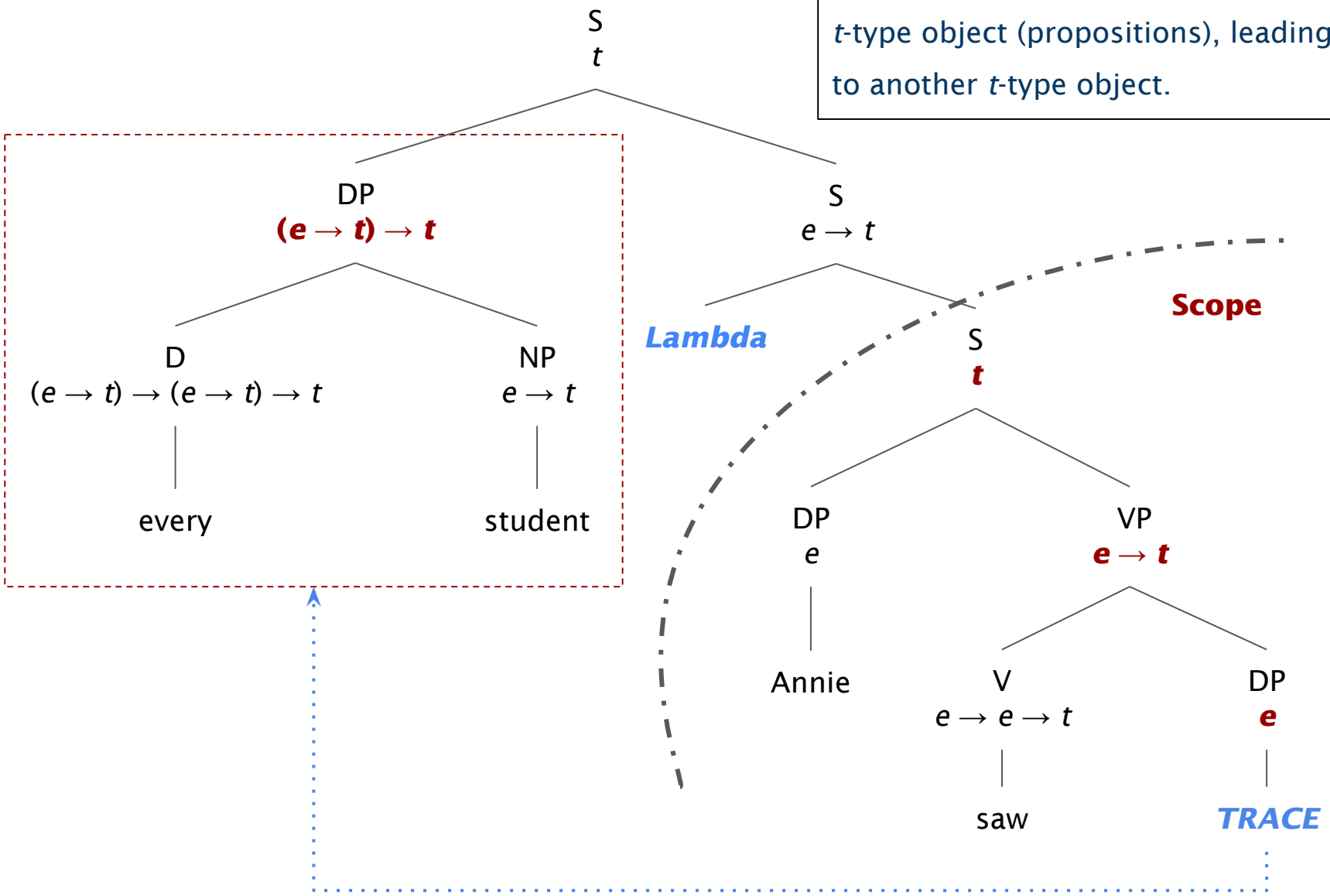


Quantifier Raising



Scope of a quantifier



Scope of a quantifier

$(e \rightarrow t) \rightarrow t$:
an *e*-type object takes scope over a *t*-type object (propositions), leading to another *t*-type object.