

# Projections and Glue for Clause-Union Complex Predicates

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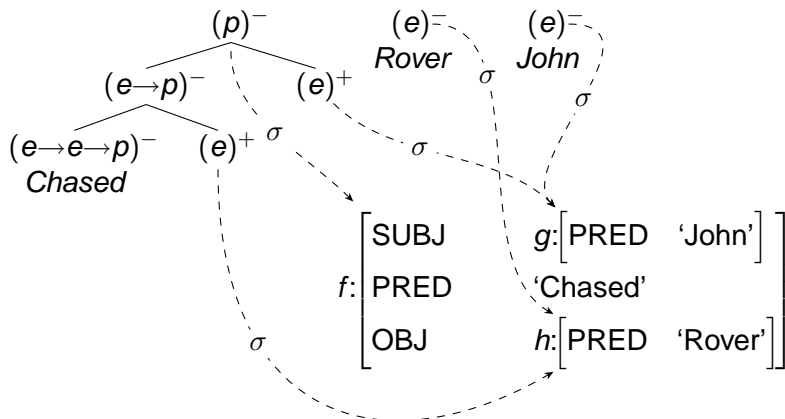
LFG07, Stanford University

## Prefab Constructors

*Chased* :  $(\uparrow\text{OBJ})_e \rightarrow (\uparrow\text{SUBJ})_e \rightarrow \uparrow_p$

*Rover* :  $\uparrow_e$

*John* :  $\uparrow_e$

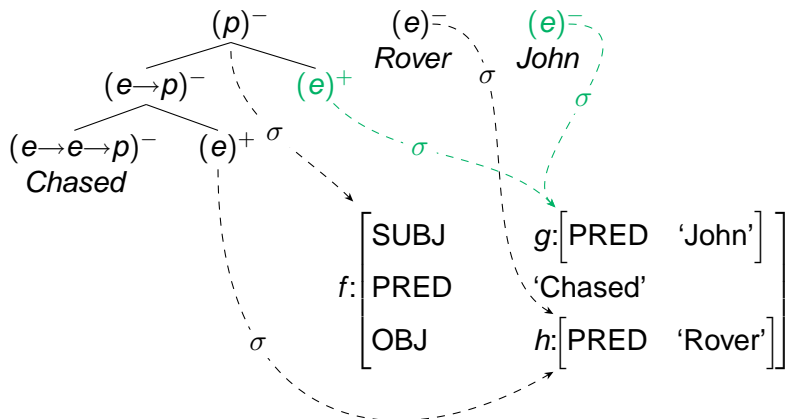


## Prefab Constructors

*Chased* :  $h_e \rightarrow g_e \rightarrow f_p$

*Rover* :  $h_e$

*John* :  $g_e$

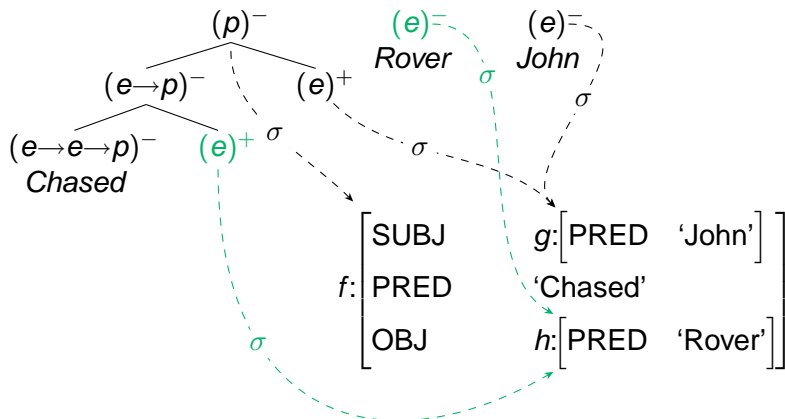


## Prefab Constructors

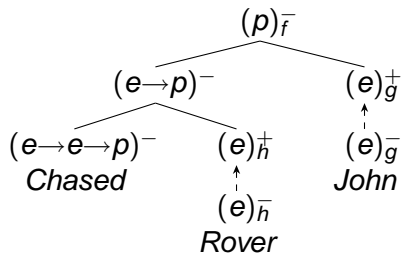
*Chased* :  $h_e \rightarrow g_e \rightarrow f_p$

*Rover* :  $h_e$

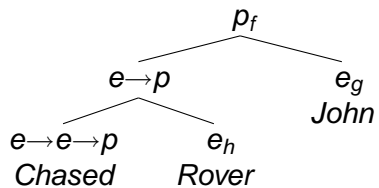
*John* :  $g_e$



# Assembled



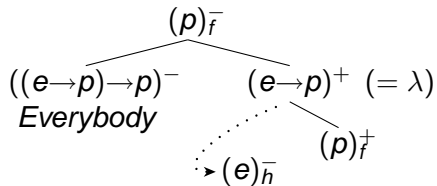
## Axiom-Links Contracted



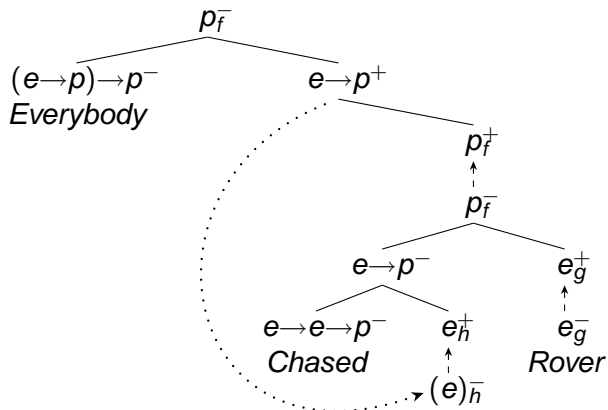
## Higher Order Arguments

$$\lambda P^{e \rightarrow t}. \text{Every}(x^e, \text{Person}(x), P(x)) : \overbrace{(\uparrow_{e \rightarrow \%F_p})} \rightarrow \%F_p$$

$$\%F = (GF^* \uparrow)$$

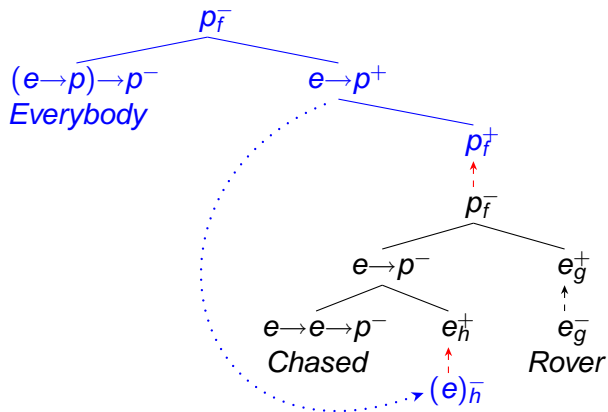


## Quantificational Structure

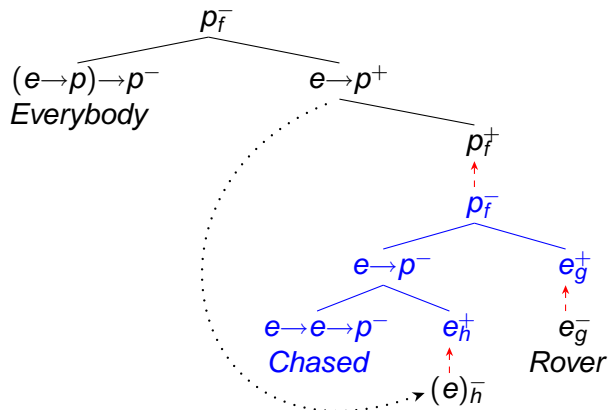




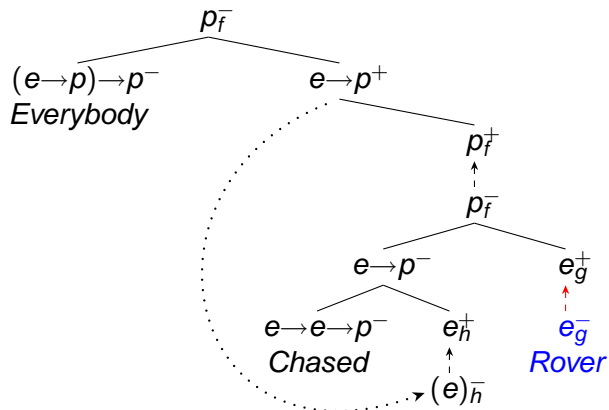
## Quantificational Structure



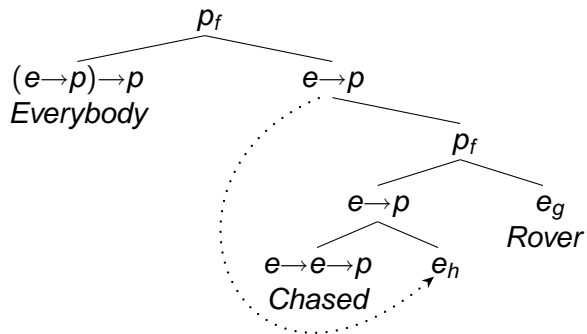
## Quantificational Structure



## Quantificational Structure

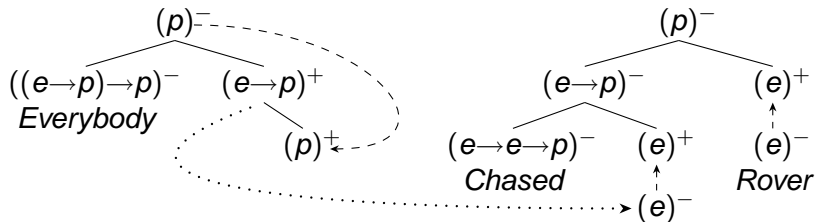


## Quantifier Structure Contracted

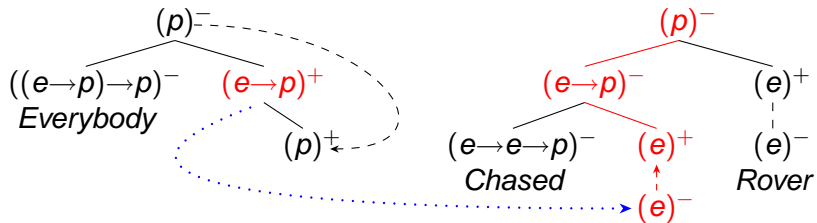


$Everybody(\lambda x. Chased(x)(Rover))$

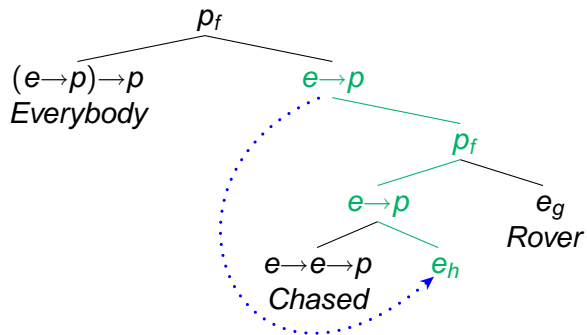
## A Monster



## A Monster



## Quantifier Structure Contracted

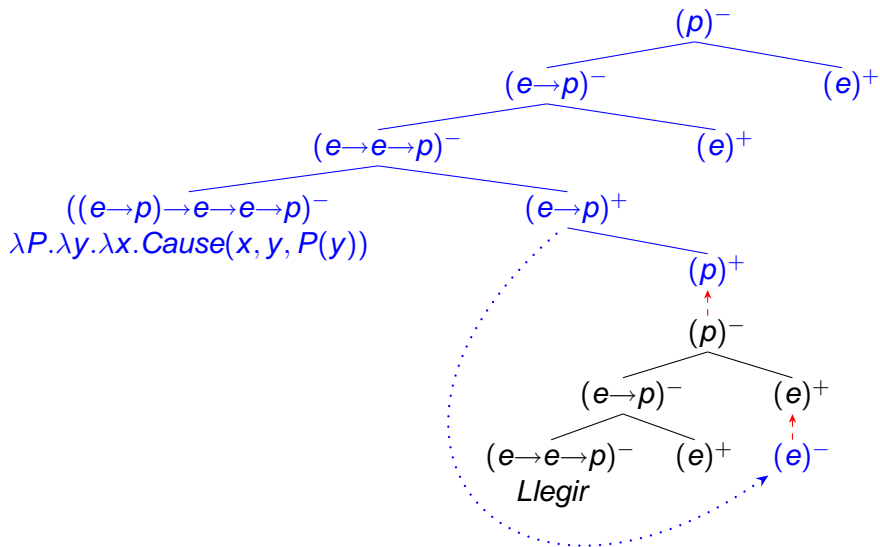


$Everybody(\lambda x. Chased(x)(Rover))$

- (16) a.  $\lambda P.\lambda y.\lambda x.Cause(x, y, P(y)) : (e \rightarrow p) \rightarrow e \rightarrow e \rightarrow p$   
b.  $x$  does something to  $y$ . Because of this,  $y$  does  $P$

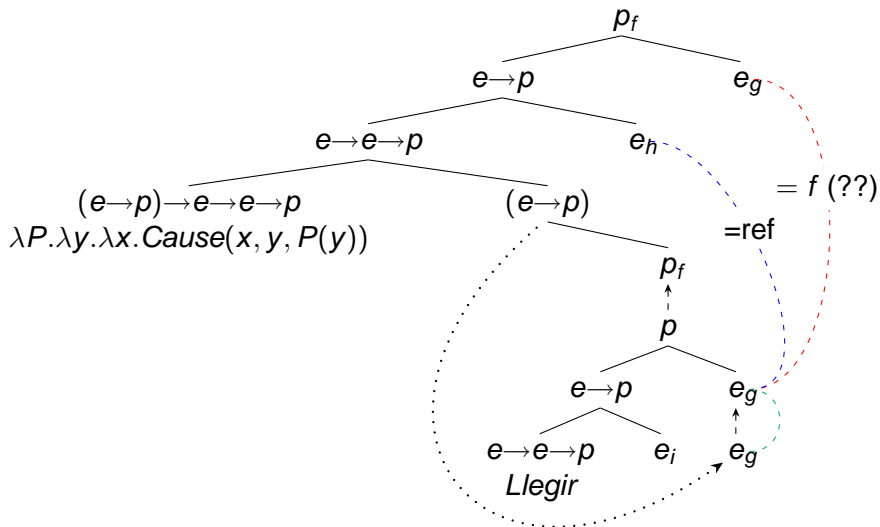


# Causative Composition



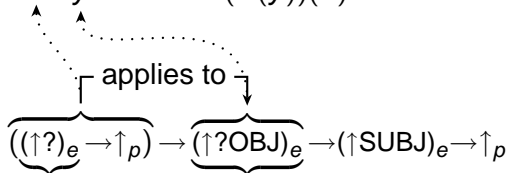
- (19) a.  $\lambda P.\lambda y.\lambda x.Cause(x, y, P(y)) :$   
 $((\uparrow?OBJ)_e \rightarrow \uparrow_p) \rightarrow (\uparrow?OBJ)_e \rightarrow (\uparrow SUBJ)_e \rightarrow \uparrow_p$
- b.  $\lambda P.\lambda y.\lambda x.Cause(x, y, P(y)) :$   
 $((\uparrow SUBJ)_e \rightarrow \uparrow_p) \rightarrow (\uparrow?OBJ)_e \rightarrow (\uparrow SUBJ)_e \rightarrow \uparrow_p$
- c. *Llegir* :  $(\uparrow OBJ)_e \rightarrow (\uparrow SUBJ)_e \rightarrow \uparrow_p$

## Causative Composition



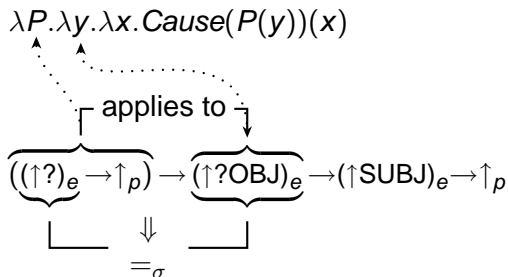
## A Constraint on Glue

$\lambda P.\lambda y.\lambda x.Cause(P(y))(x)$



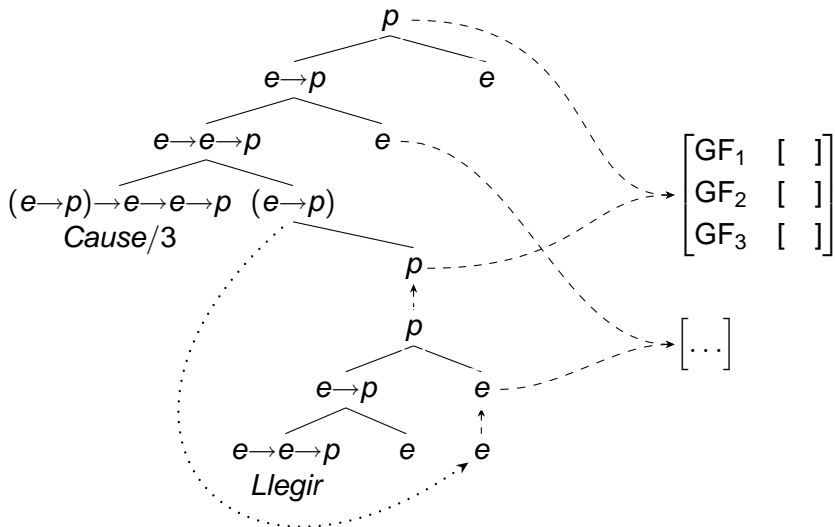


## A Constraint on Glue



Perhaps should be weakened to require only coreference rather than f-structural identity.

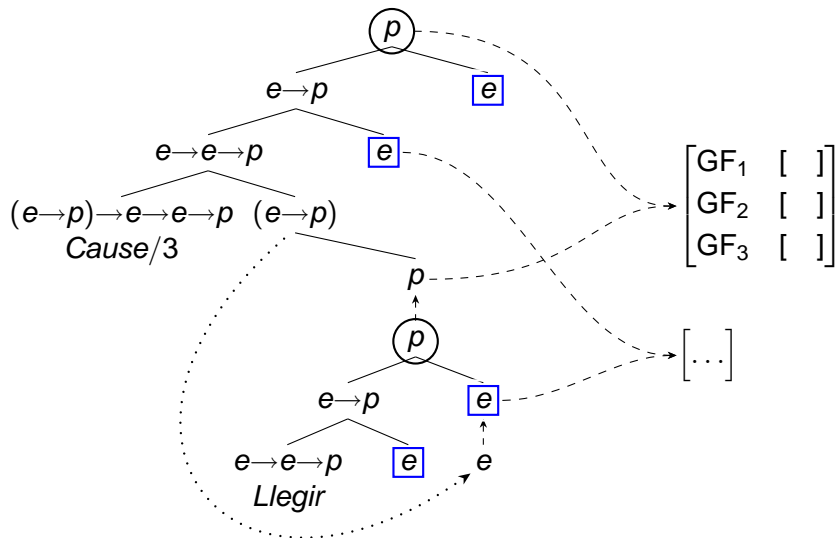
## Support for Linking Theory



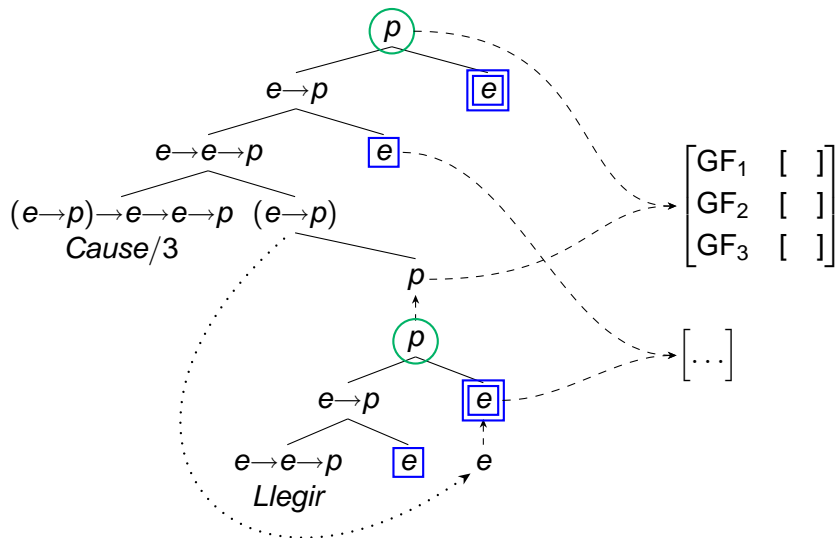




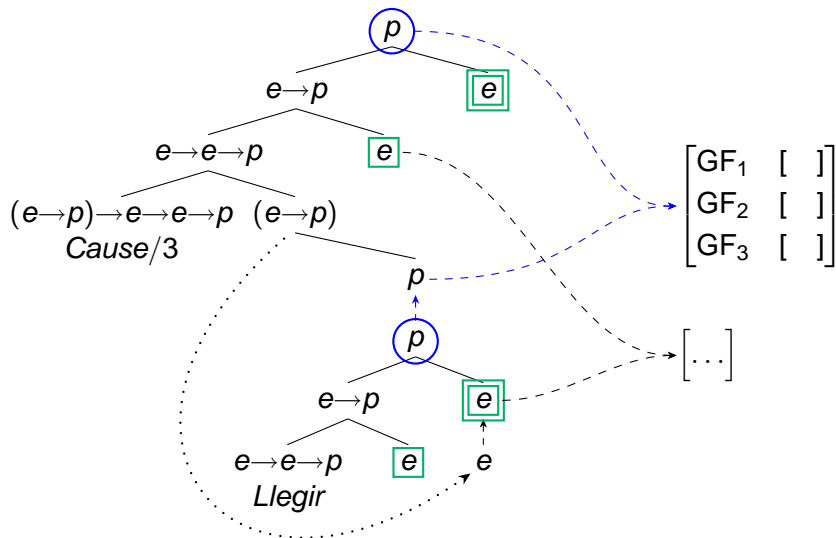
## Support for Linking Theory - Arguments



## Support for Linking Theory - Logical Subjects



## Support for Linking Theory - Co-Arguments



## Support for Linking Theory - Co-Arguments

