

Ling 566
Jan 25, 2006
Review

Overview

- Model v. modeling domain and constructing arguments
- Technical details (lexical entries, trees)
- Cascades of identities in Wambaya
- Analogies to other systems you might know
- Your questions...
- Problems 6.4 and 6.5

Ambiguity

- Are these sentences ambiguous?

The swan and the duck in the river swam together.

Kim slept and Dana wrote at the same time.

What's wrong with this?

- Because the PP can modify both Ss in (1), PPs must be able to modify S.

(1) Kim danced and Sandy sang on Saturday

(Icelandic) Case

- Should CASE be inside AGR? Why or why not?
- To what extent is Icelandic case marking semantically driven?
- How do you know?

Constructing an argument

- Different Icelandic verbs appear with subjects in different cases.
- In a model where case is assigned by phrase structure position...
- In a model where case is constrained on the valence features of verbs...
- In conclusion...

AGR and determiners

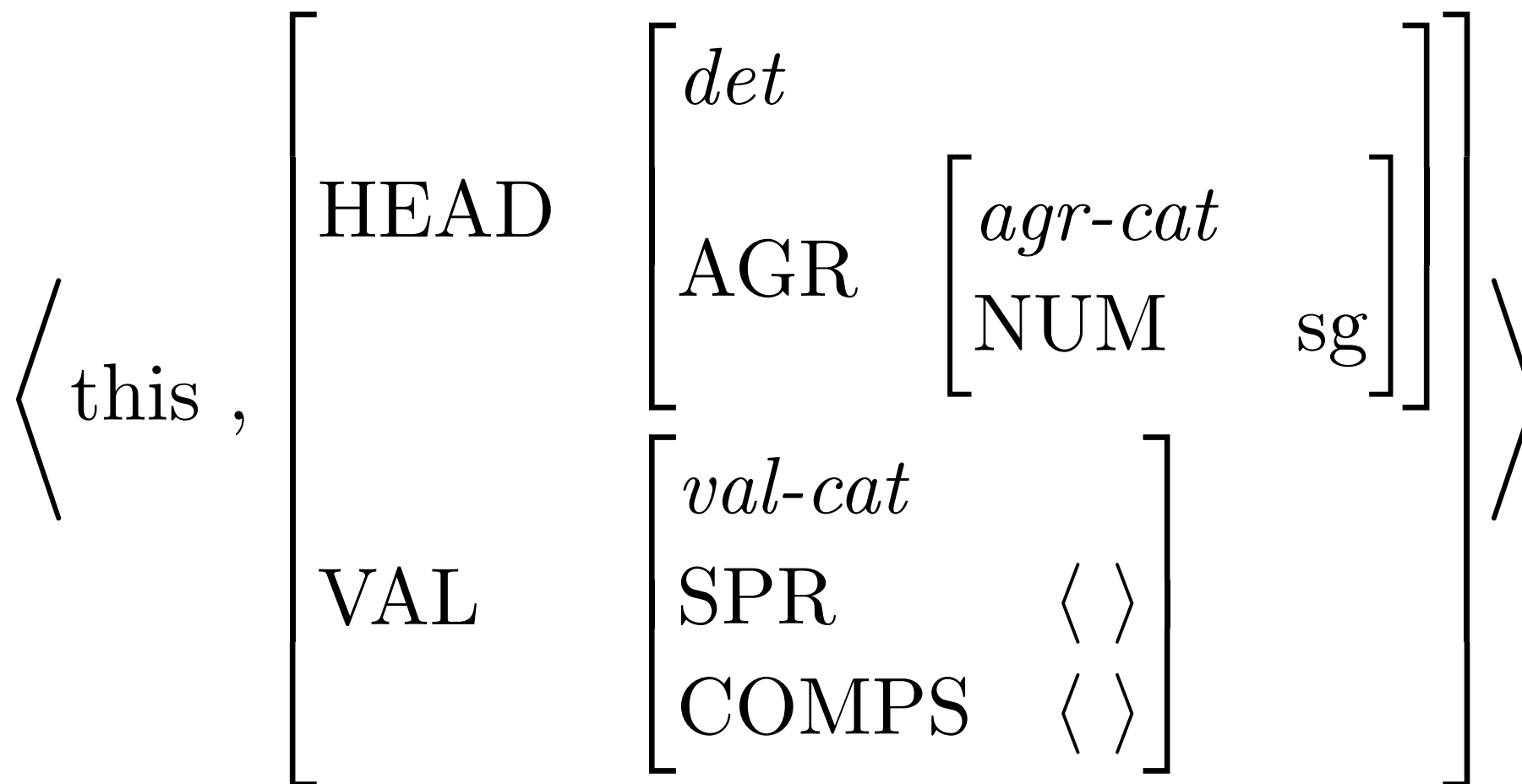
- What should the PER value be on lexical entries for *this*, *these*, *those*, *the*, ... ?

What's wrong with this?

$$\left\langle \text{this} , \begin{bmatrix} \text{HEAD} & \begin{bmatrix} \textit{det} \\ \text{AGR} \begin{bmatrix} \text{NUM} & \text{sg} \end{bmatrix} \end{bmatrix} \\ \text{VAL} & \begin{bmatrix} \text{SPR} & + \\ \text{COMPS} & \text{str} \end{bmatrix} \end{bmatrix} \right\rangle$$

NB: Ch 3 grammar

How about this?



Or this?

$$\left\langle \text{this} , \begin{bmatrix} \text{HEAD} & \begin{bmatrix} \textit{det} \\ \text{AGR} & \boxed{1} \end{bmatrix} \\ \text{VAL} & \begin{bmatrix} \text{SPR} & \langle \rangle \\ \text{COMPS} & \langle \rangle \end{bmatrix} \end{bmatrix} \right\rangle$$

$$\left\langle \text{cat} , \begin{bmatrix} \text{HEAD} & \begin{bmatrix} \textit{noun} \\ \text{AGR} & \boxed{1} \textit{3sing} \end{bmatrix} \\ \text{VAL} & \begin{bmatrix} \text{SPR} & \langle \text{D} \rangle \\ \text{COMPS} & \langle \rangle \end{bmatrix} \end{bmatrix} \right\rangle$$

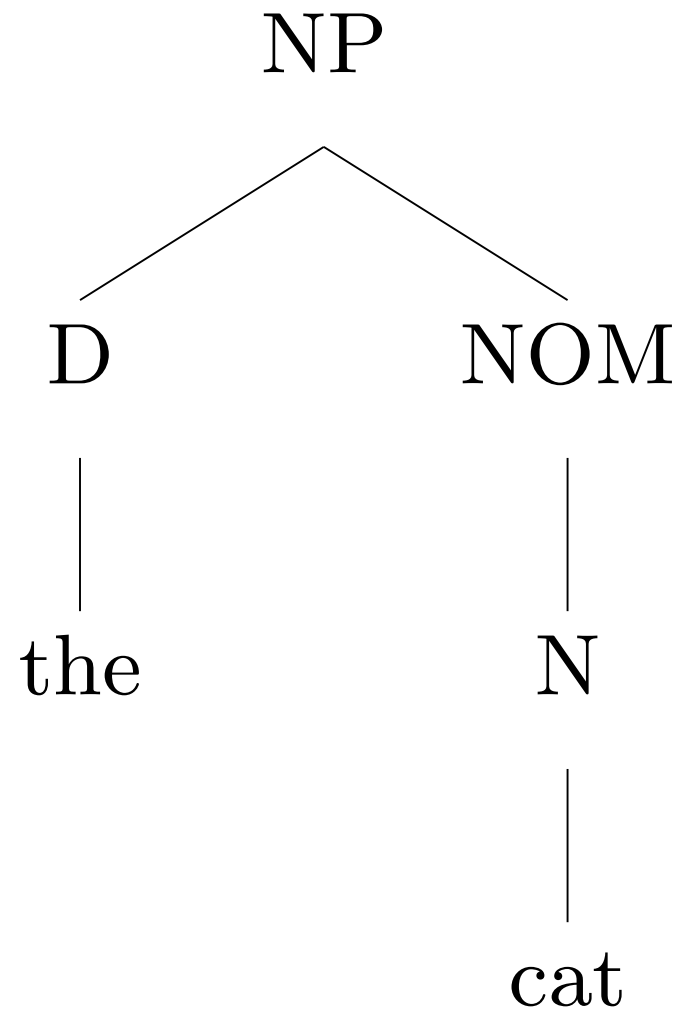
SPR value on AP/PP?

- Kim grew fond of baseball.
- Kim and Sandy ate lunch in the park.
- Kim and Sandy are in the park.

COMPS on PP?

- Kim put the books here.
- Here, have a cookie.
- Kim put the books here have a cookie.
- Kim put the books on the table.

Which grammar does this tree go with?



Tags & lists

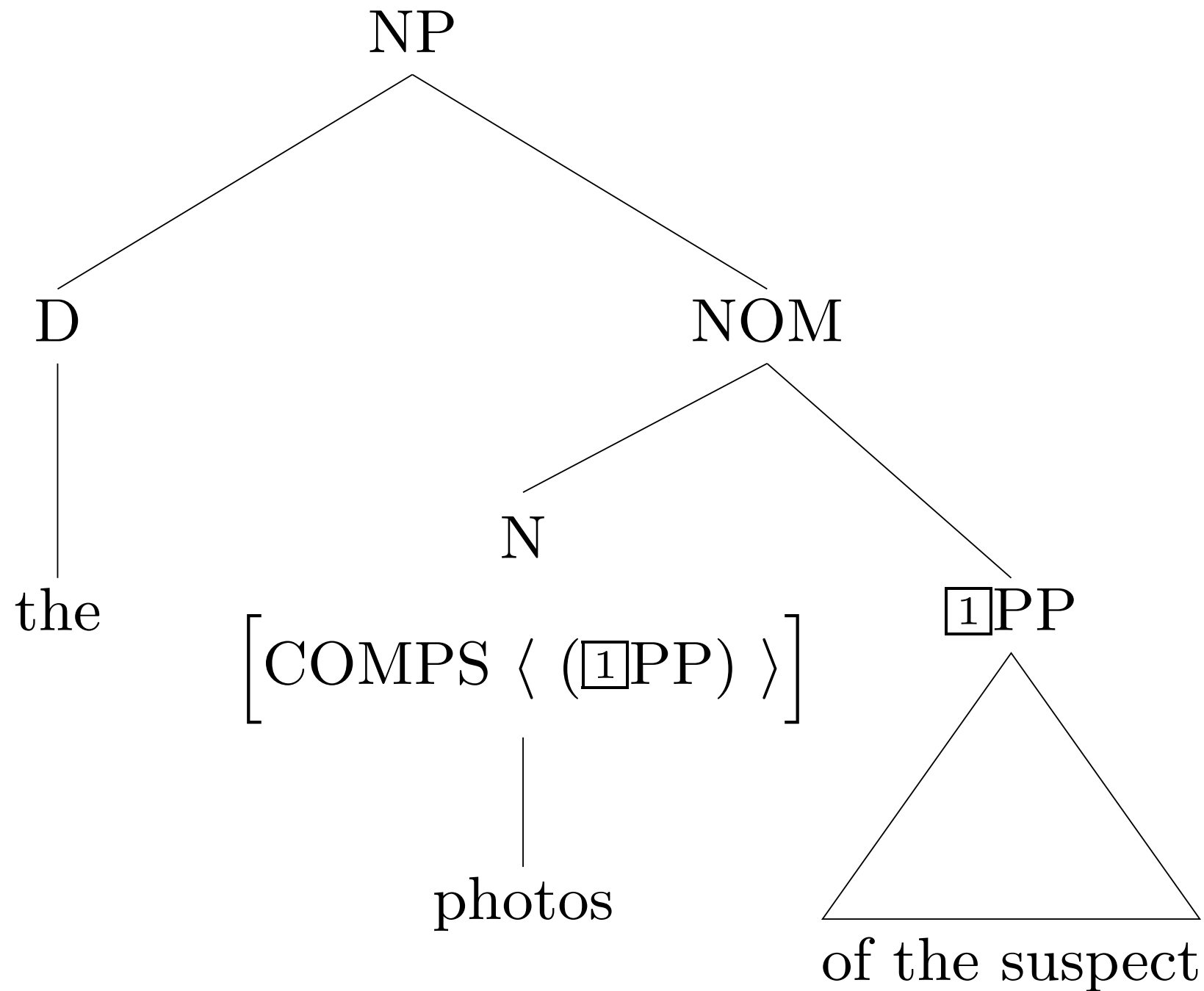
- What's the difference between these two?

$$\left[\text{SPR} \quad \boxed{1} \langle \text{NP} \rangle \right]$$

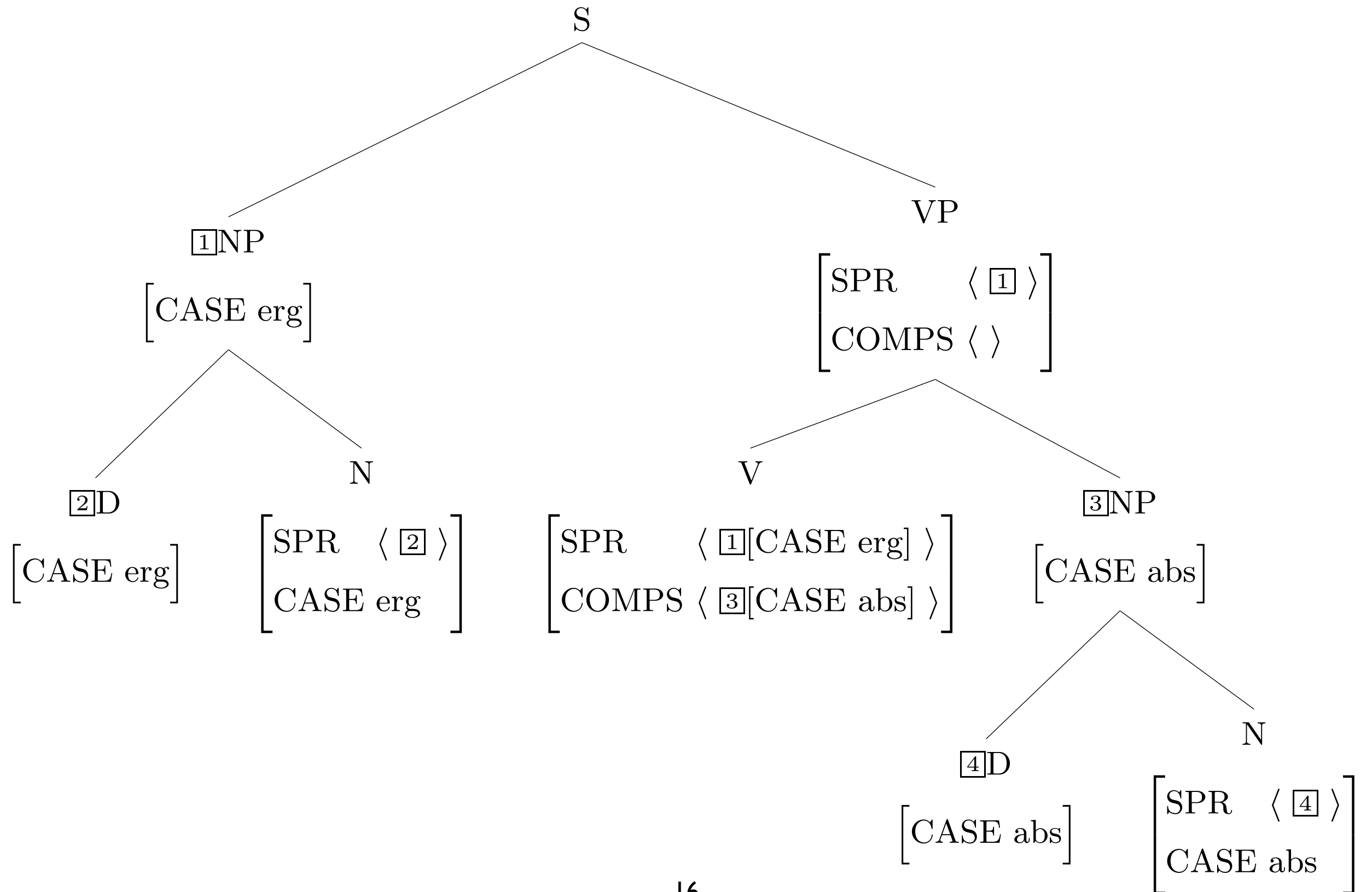
$$\left[\text{SPR} \quad \langle \boxed{1} \text{NP} \rangle \right]$$

- When does it matter?

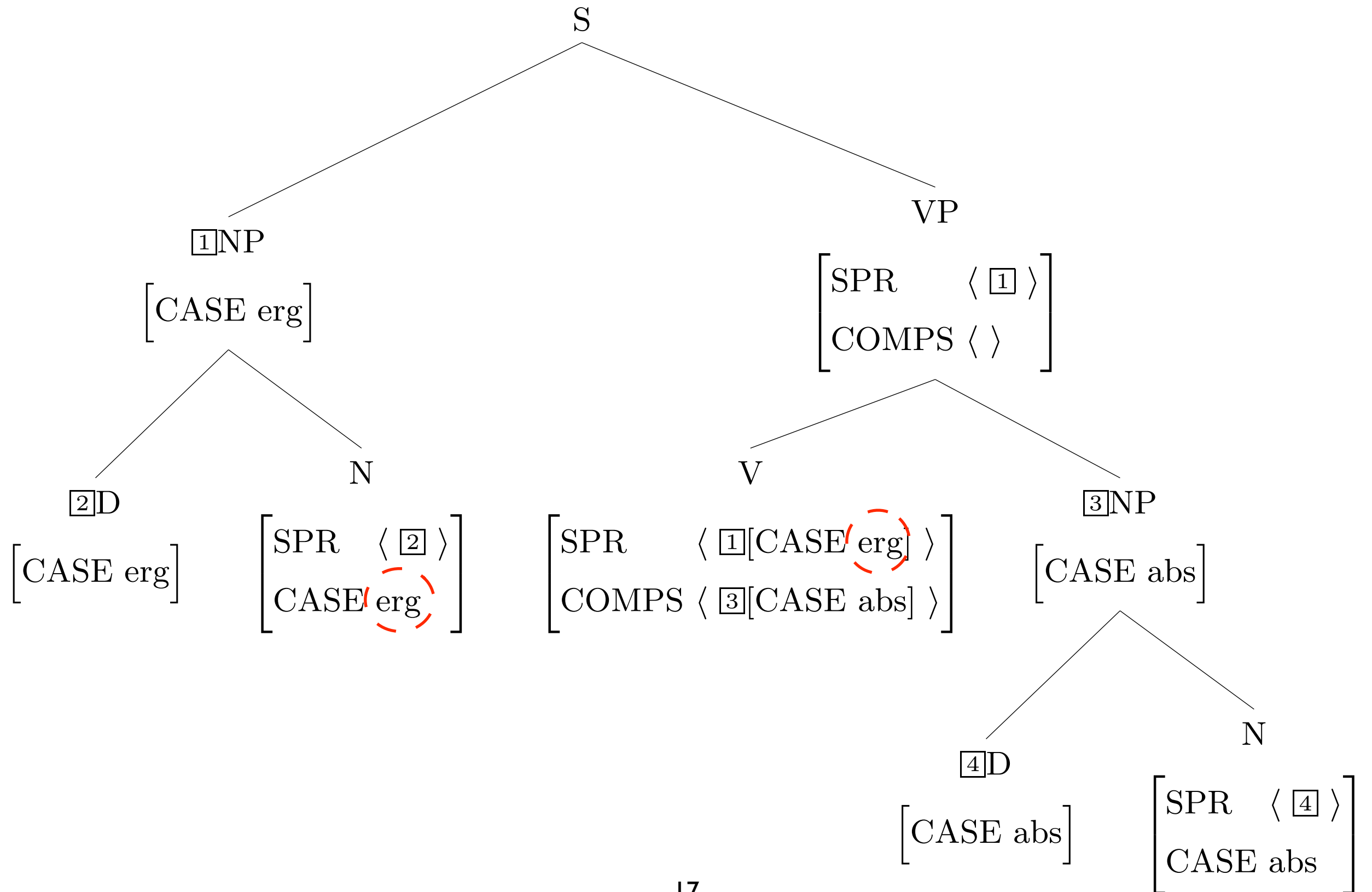
What's wrong with this tree?



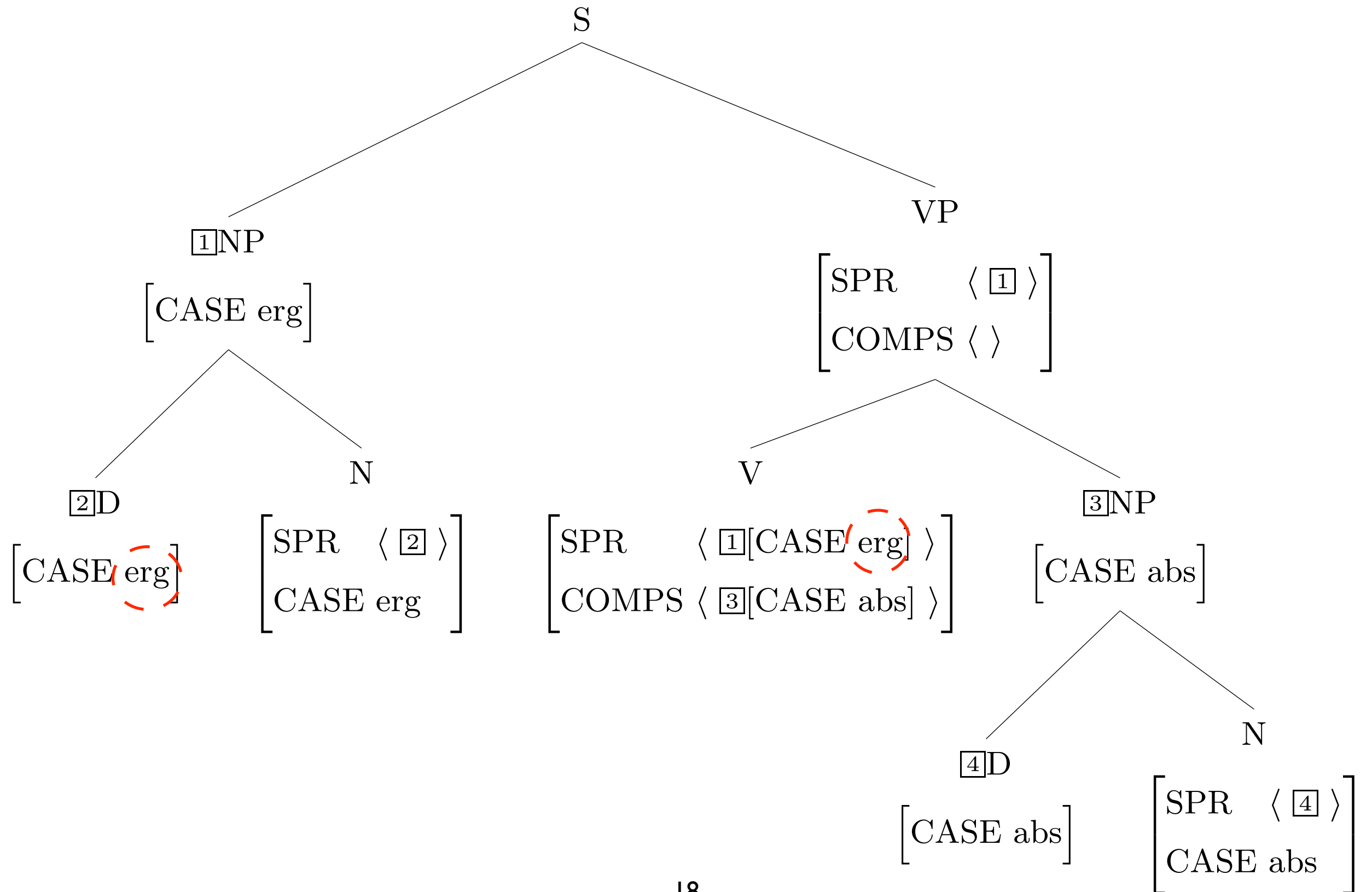
Information passing in Wambaya



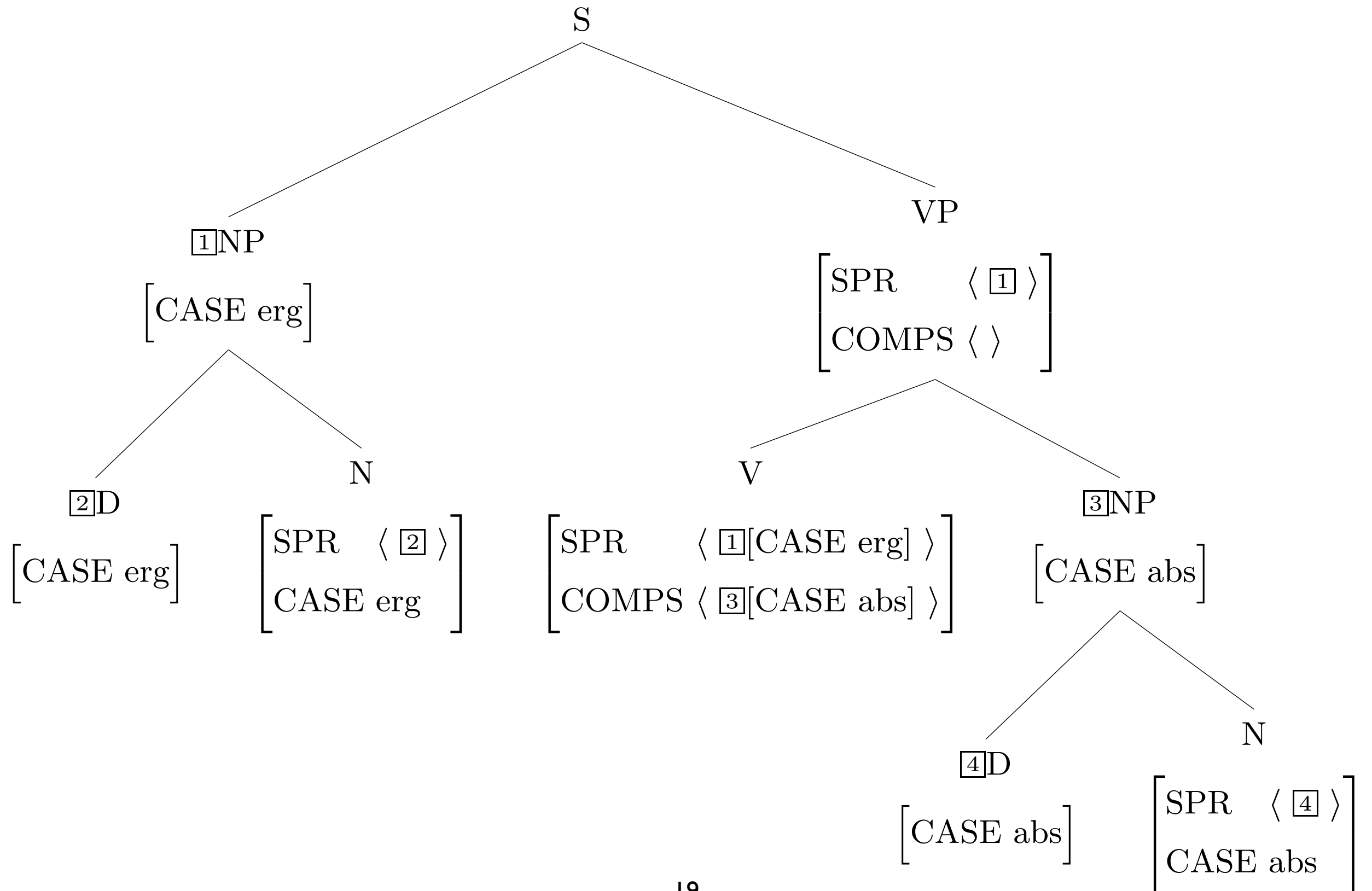
What requires this identity?



How about this one?



Is this tree really valid for Wambaya?



Type hierarchy analogies

- How is this formalism like OOP?
- How is it different?
- How is the type hierarchy like an ontology?
- How is it different?

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