

Overview

- Passive
 - Arguments for lexicalist account
 - Details of our analysis
- Reading Questions

The Passive in Transformational Grammar

- Passive was the paradigmatic transformation in early TG.
- Motivations
 - Near paraphrase of active/passive pairs.
 - Simplified statement of cooccurrence restrictions.
 - E.g. *devour* must be followed by an NP, *put* by NP-PP
 - Such restrictions refer to pre-transformational (“deep”) structure.
 - Intuition that active forms were more basic, in some sense.
- Its formulation was complex:
 - Promote object
 - Demote subject, inserting *by*
 - Insert appropriate form of *be*, changing main verb to a participle.

But transforming whole sentences is overkill

- Passive sentences look an awful lot like some actives:

The cat was chased by the dog

VS

The cat was lying by the door

passive

active

chased
lying

- Passives occur without *be* and without the *by* phrase:

Cats chased by dogs usually get away.

My cat was attacked. (by NP)
a dog

So a lexical analysis seems called for

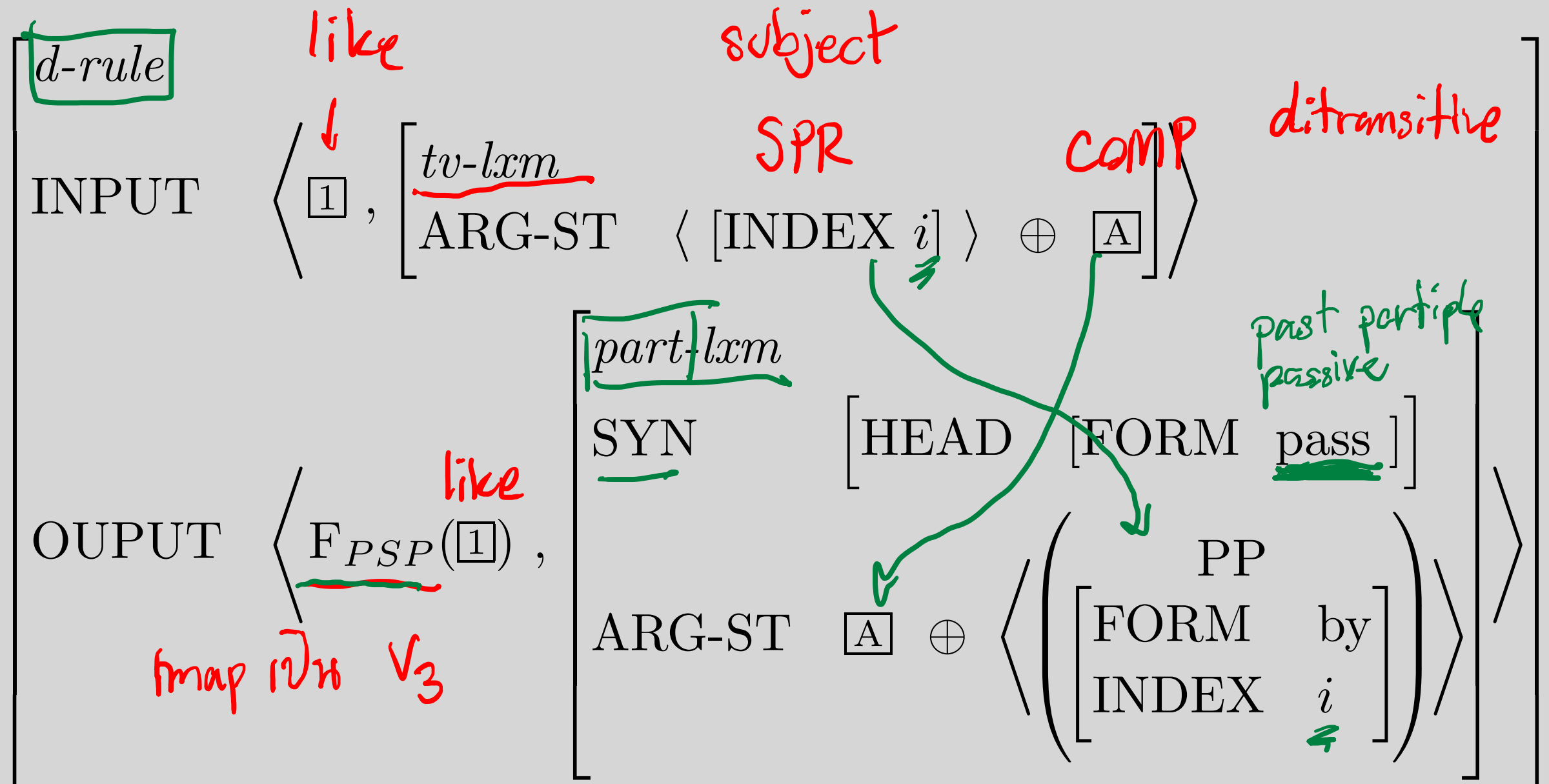
- What really changes are the verb's form and its cooccurrence restrictions (that is, its valence).
- There are lexical exceptions
 - Negative: *Pat likes Bo* *Bo is liked by Pat.*
Pat resembles Bo but **Bo is resembled by Pat*
That look suits you but **You are suited by that look*
 - Positive
Chris is rumored to be a spy but
**They rumor Chris to be a spy*

We posit a lexical rule

past participles

- Why not just list passive participles individually?
 - To avoid redundancy
 - To capture productivity (for example?)
- We make it a derivational (lexeme-to-lexeme) rule.
Why?
 - Our constraints on lexeme-to-word rules wouldn't allow us to make Passive one.

The Passive Lexical Rule



Questions About the Passive Rule

$$\left[\begin{array}{l} d\text{-rule} \\ \text{INPUT} \quad \left\langle \boxed{1}, \left[\begin{array}{l} tv\text{-}lxm \\ \text{ARG-ST} \quad \langle [\text{INDEX } i] \rangle \oplus \boxed{A} \end{array} \right] \right\rangle \\ \text{OUTPUT} \quad \left\langle F_{PSP}(\boxed{1}), \left[\begin{array}{l} part\text{-}lxm \\ \text{SYN} \quad \left[\text{HEAD} \quad [\text{FORM } pass] \right] \\ \text{ARG-ST} \quad \boxed{A} \oplus \left\langle \left(\begin{array}{c} PP \\ \left[\begin{array}{cc} \text{FORM} & \text{by} \\ \text{INDEX} & i \end{array} \right] \end{array} \right) \right\rangle \end{array} \right] \right\rangle \end{array} \right]$$

- Why is the morphological function F_{PSP} ?
- Why do we have a separate FORM value pass? Why not say the output is [FORM psp]?
- What kind of a PP is the *by*-phrase (that is, argument-marking or predicational)?

More Questions

$$\left[\begin{array}{l} d\text{-rule} \\ \text{INPUT} \quad \left\langle \boxed{1}, \left[\begin{array}{l} tv\text{-lxm} \\ \text{ARG-ST} \quad \langle [\text{INDEX } i] \rangle \oplus \boxed{A} \end{array} \right] \right\rangle \\ \text{OUTPUT} \quad \left\langle F_{PSP}(\boxed{1}), \left[\begin{array}{l} part\text{-lxm} \\ \text{SYN} \quad \left[\text{HEAD} \quad [\text{FORM} \quad \text{pass}] \right] \\ \text{ARG-ST} \quad \boxed{A} \oplus \left\langle \left(\begin{array}{c} \text{PP} \\ \left[\begin{array}{l} \text{FORM} \quad \text{by} \\ \text{INDEX} \quad i \end{array} \right] \end{array} \right) \right\rangle \end{array} \right] \right\rangle \end{array} \right]$$

- What makes the object turn into the subject?
- Why is the type of the input *tv-lxm*?
- What would happen if it were just *verb-lxm*?

Intransitives have passives in German

es wird nicht gekauft
it is not bought

In der Küche^v wird nicht getanzt.

in the kitchen is not danced

‘There is no dancing in the kitchen.’

NB: The exact analysis for such examples is debatable, but German, like many other languages, allows passives of intransitives, as would be allowed by our analysis if the input type in the Passive LR is *verb-lxm*.

Passive Input & Output

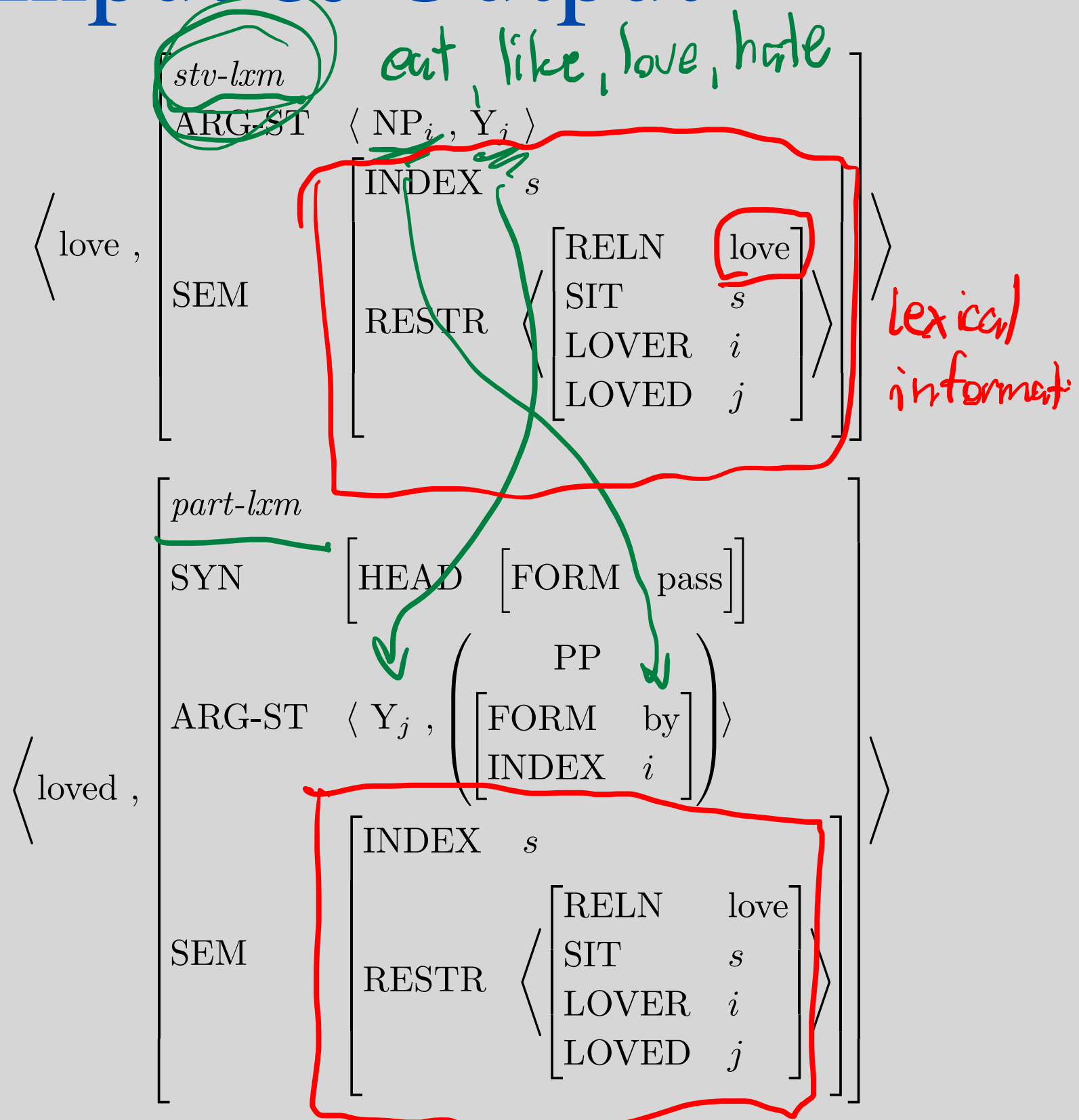
If you have one of
these....

verb-ixm

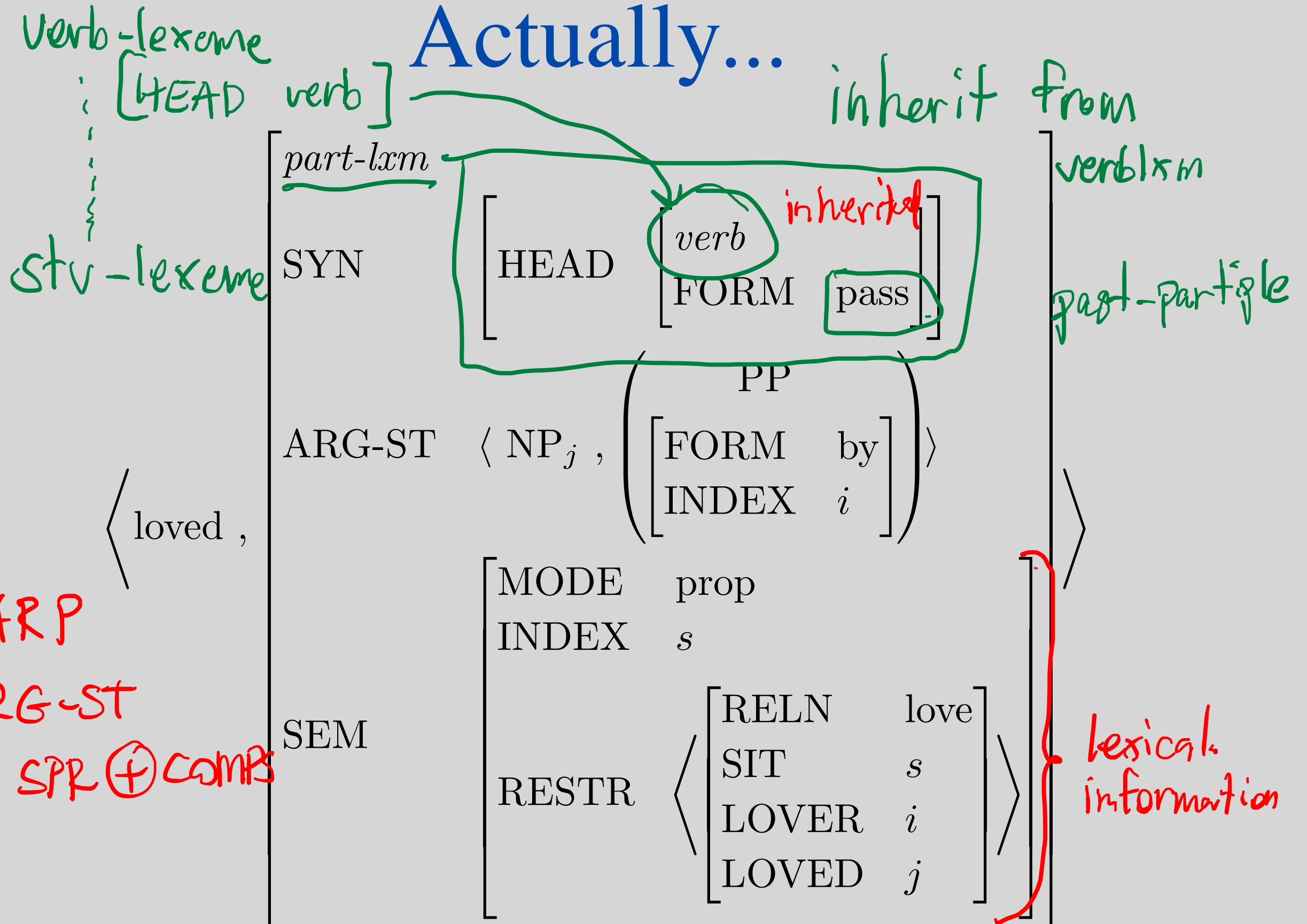
stiv-1xw

ent like love

Then you also get
one of these....



Actually...

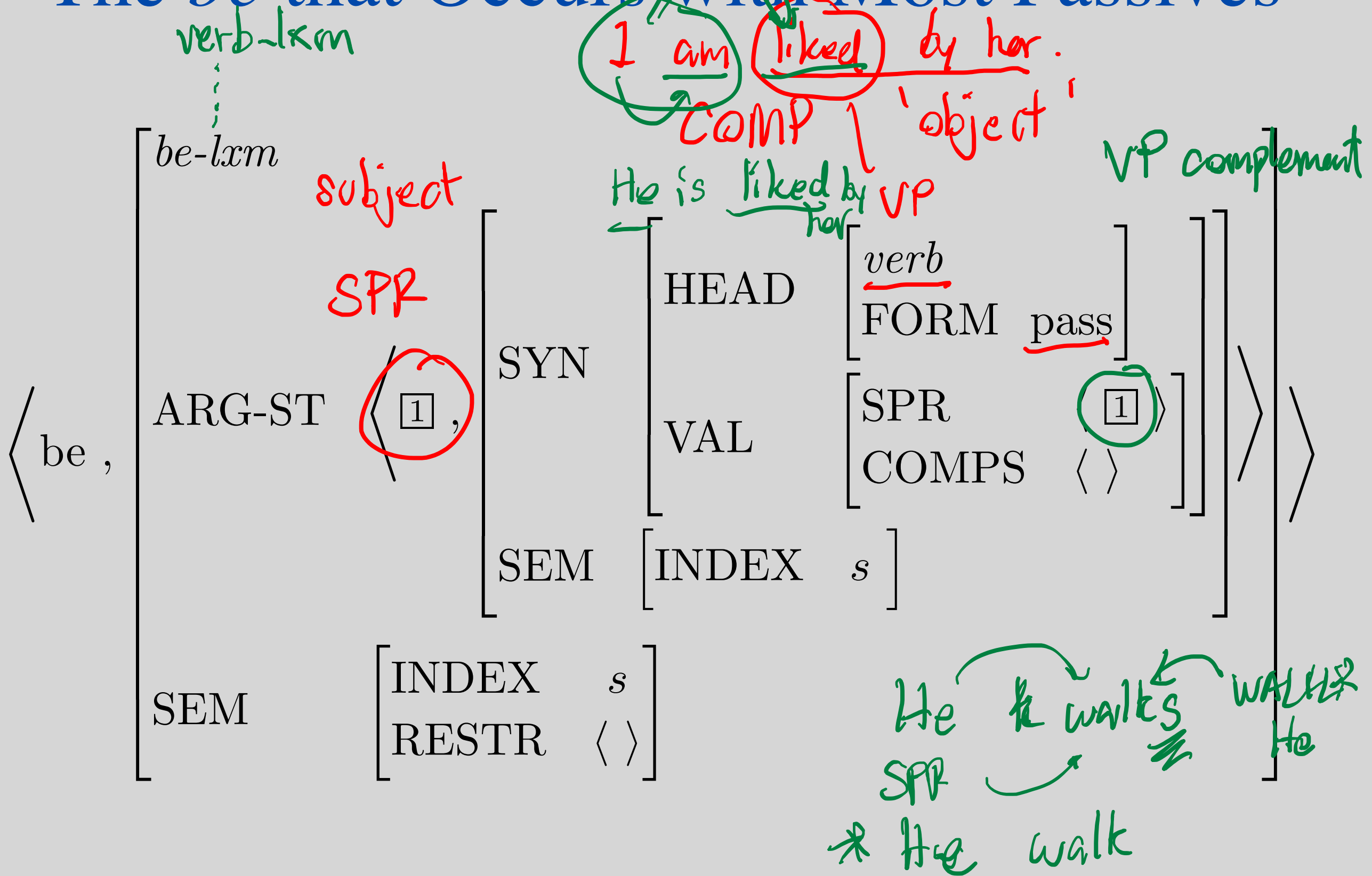


ARP

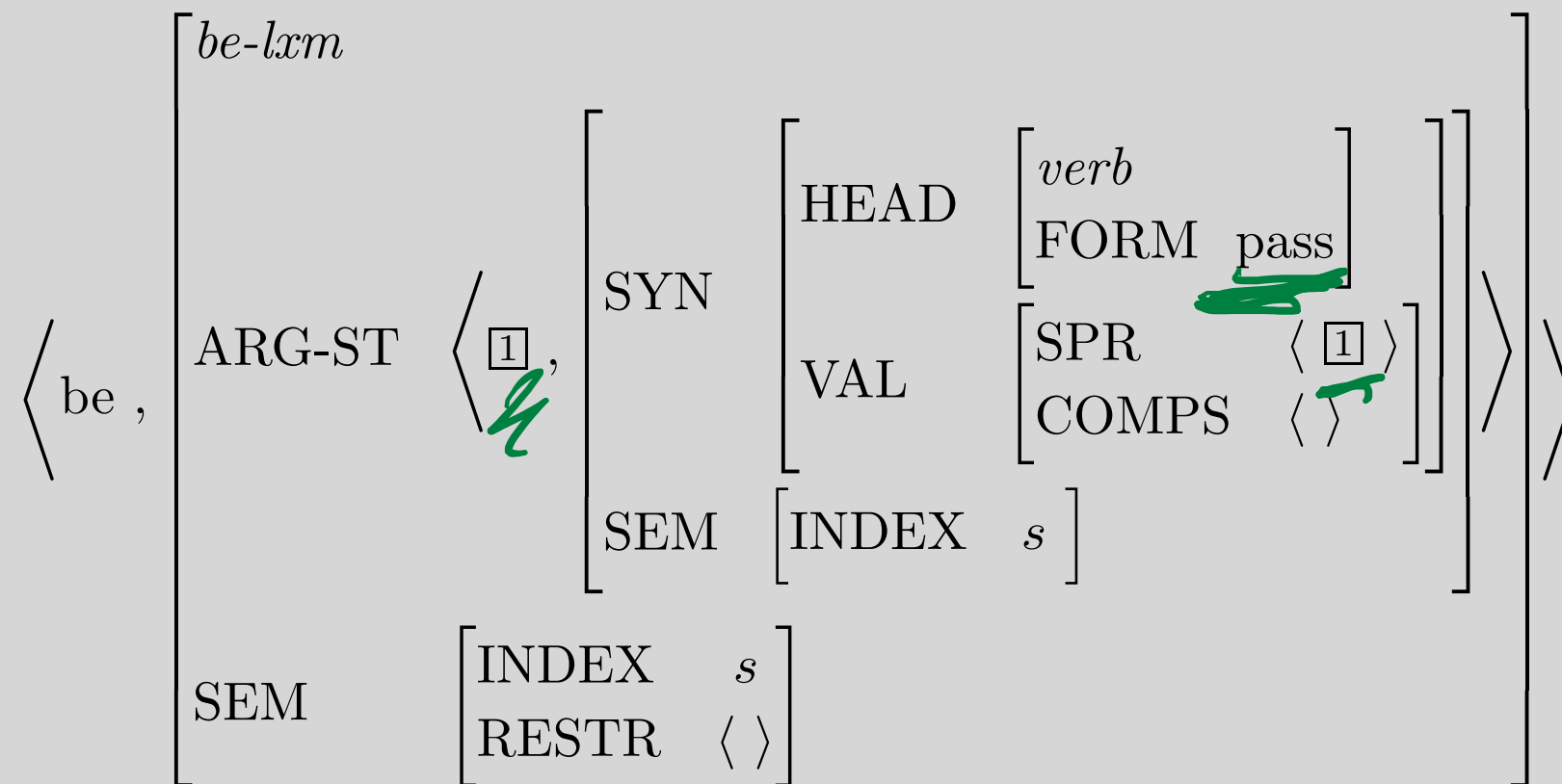
ARG-ST

SPP (+comps)

The *be* that Occurs with Most Passives



Questions About the Entry for *be*



- Why doesn't it include valence features?
- What is the category of its complement (i.e. its 2nd argument)?
- What is its contribution to the semantics of the sentences it appears in?
- Why is the first argument tagged as identical to the second argument's SPR value?

H-S
phrase → 1 H
SPR < > SPR 2

Passive tree

Head-Feature Principle

Valence Principle

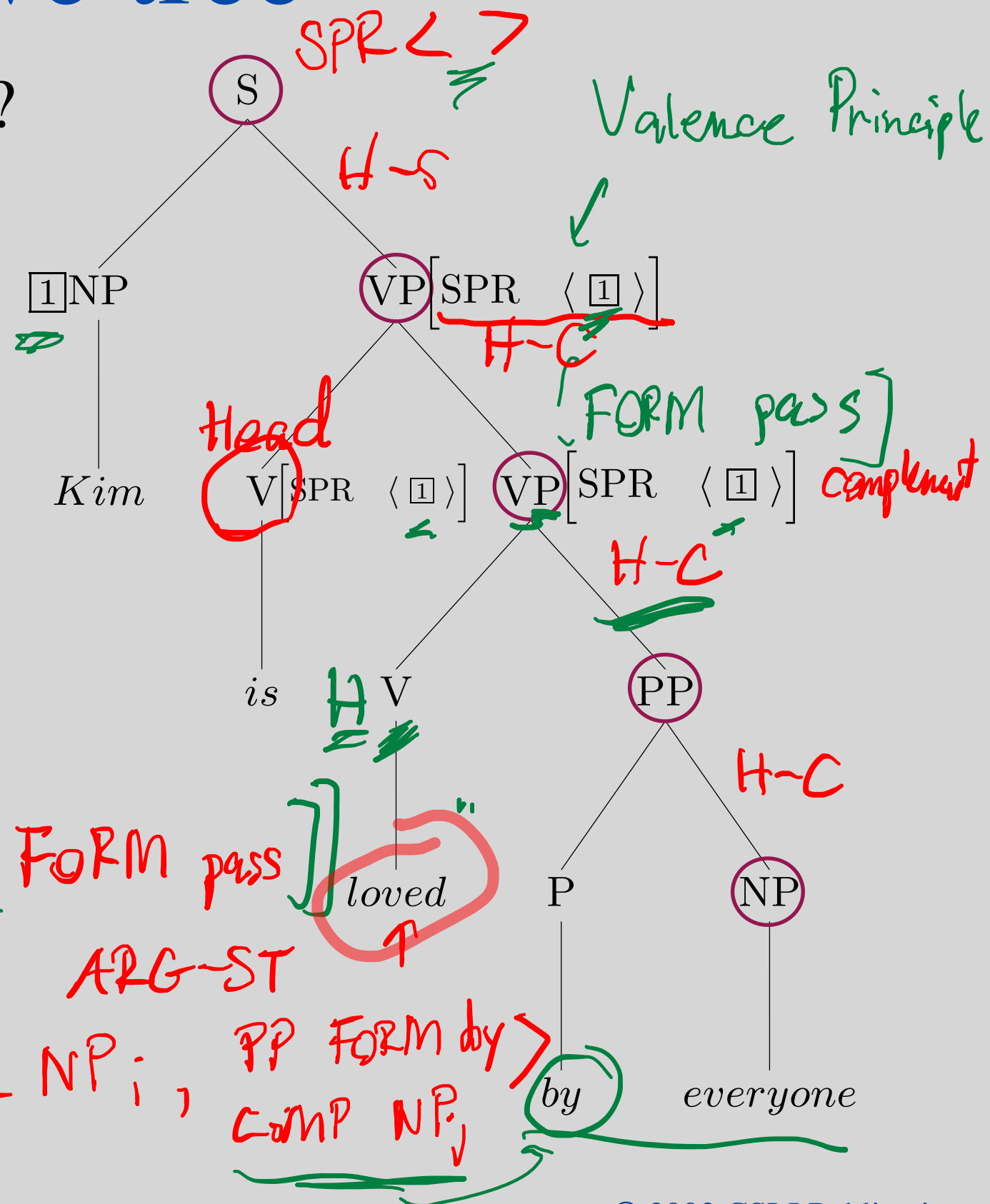
Which rule licenses each node?

What is the SPR value of the upper VP?

What is the SPR value of the lower VP?

What is the SPR value of *is*?

Any questions?



H-C
phrase → H 1, 2
COMPS[] COMPS
COMPS[] COMPS
COMPS[] COMPS

More Questions

- Why do we get

They are noticed by everyone

and not

**Them are noticed by everyone?*

by him
like him
Case constraint

Accusative

is in a complement position.

- Why don't we get

**They is noticed by everyone?*

SHAC + SPR rule
+COMP rule



- What would facts like these entail for a transformational analysis?