Ling 566 Nov 6, 2006

**Passive Construction** 



- Wasow's responses re: psycholinguistics
- Passive
  - Arguments for lexicalist account
  - Details of our analysis
- Homework questions

Production errors are sensitive to syntactic structure

Agreement errors are more common with PP complements than sentential complements: errors like (2) are significantly more common than errors like (1).

(1) \**The claim that the wolves had raised the babies were rejected.* 

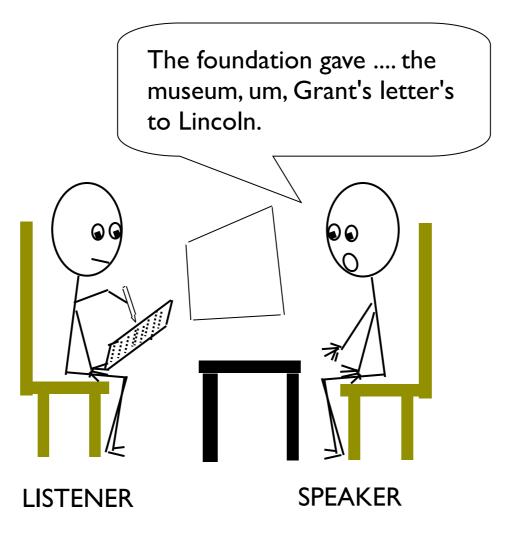
VS.

(2) *\*The claim about the newborn babies were rejected.* 

# So why?

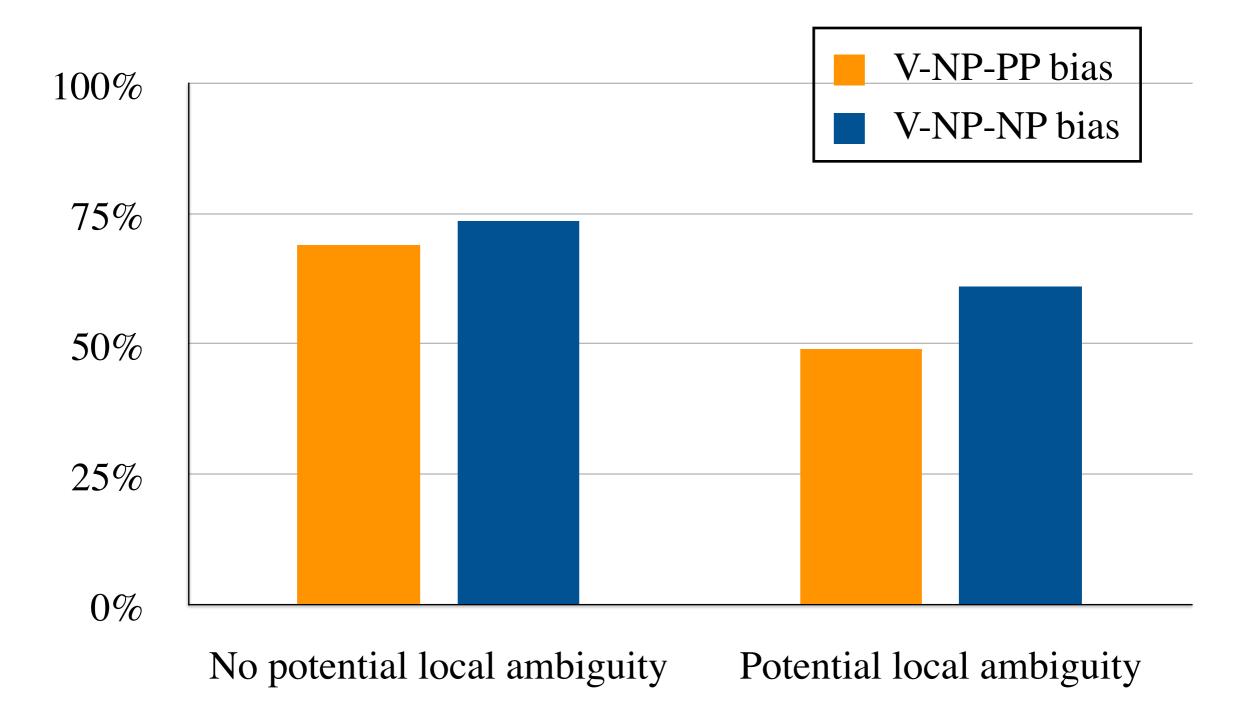
- Speculation: Clauses are their own agreement domains, so people don't mistake an NP in a lower clause as a trigger for agreement
- Original work: Kay Bock (1980s).

# Experimental Method, continued



3. The speaker answers the listener's question.The listener chooses the correct response on a list (from two choices).

### Experimental Results on Local Ambiguity



# Reverse ambiguity effect

- Y-axis is % V-NP-NP order
- Arnold, Wasow, Asudeh & Alrenga 2004 Journal of Memory & Language
- Re-ran the experiment with slightly better methodology and found a *stronger* reverse ambiguity effect.

#### 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*
- Passives occur without *be* and without the *by* phrase: *Cats chased by dogs usually get away. My cat was attacked.*

#### 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 resembles Bo but \*Bo is resembled by Pat

That look suits you but \*You are suited by that look

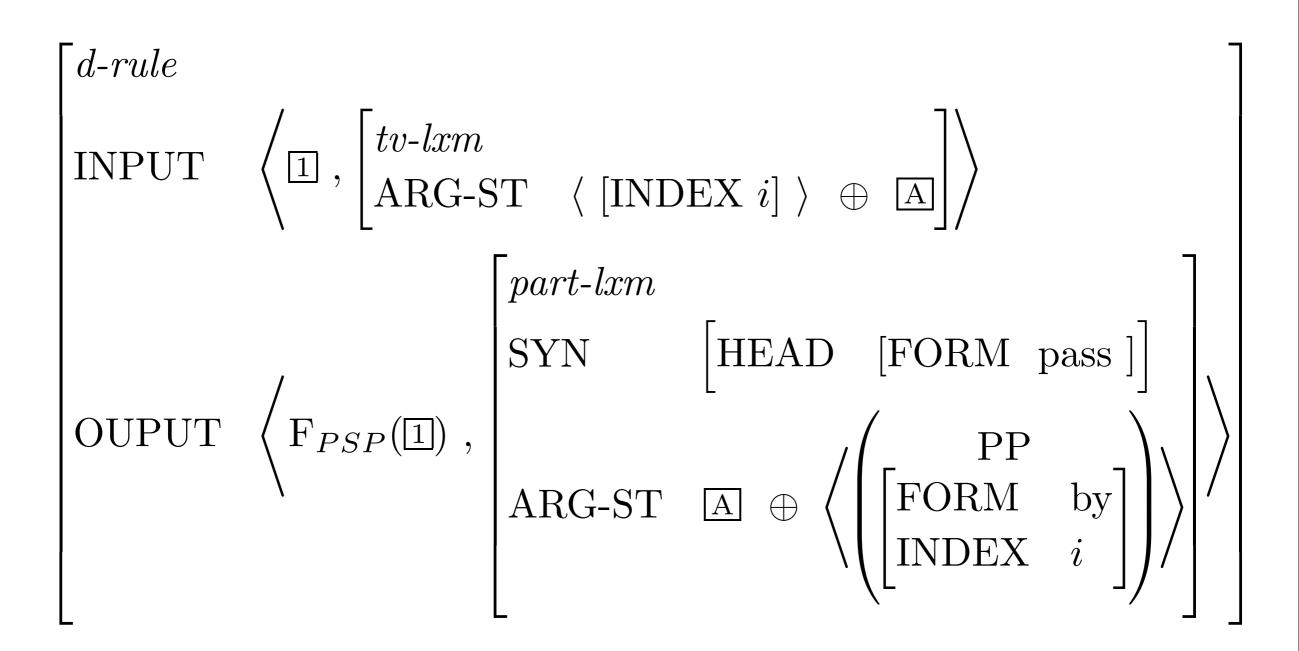
– Positive

Chris is rumored to be a spy but \*They rumor Chris to be a spy

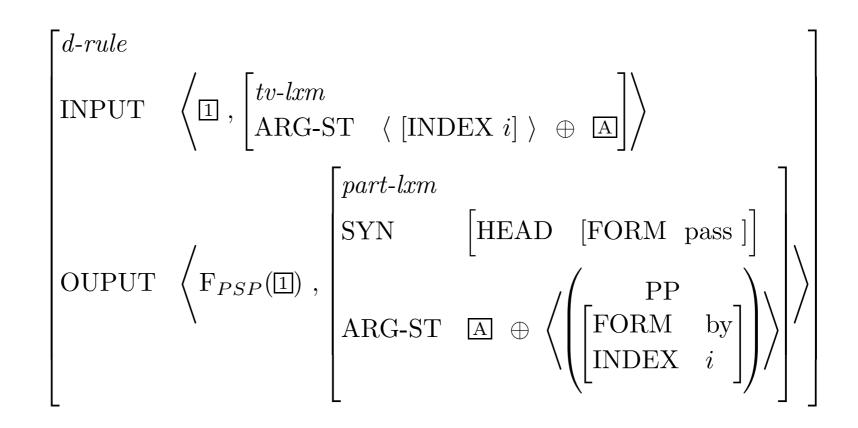
#### We posit a lexical rule

- 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.
  - In some languages, further inflections can be added to passive verb forms.

### The Passive Lexical Rule

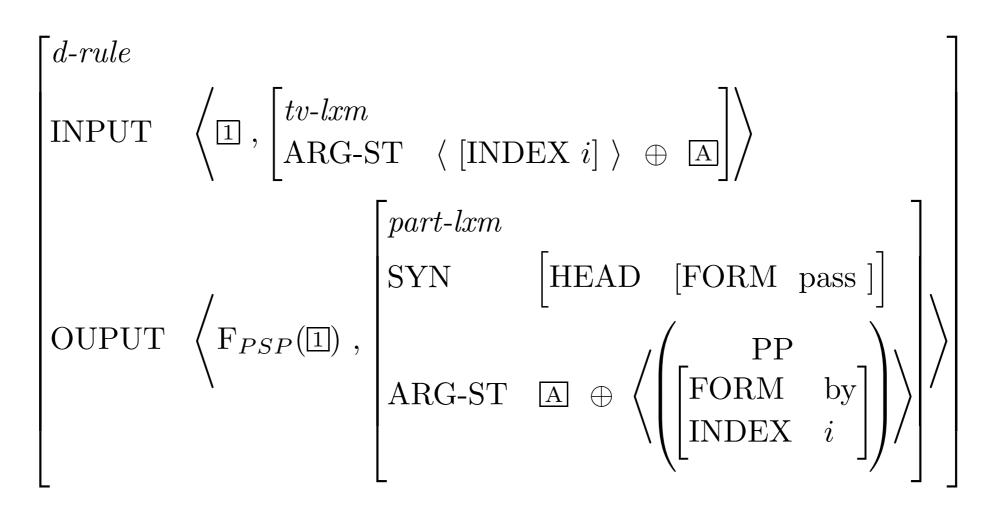


# Questions About the Passive Rule



- 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



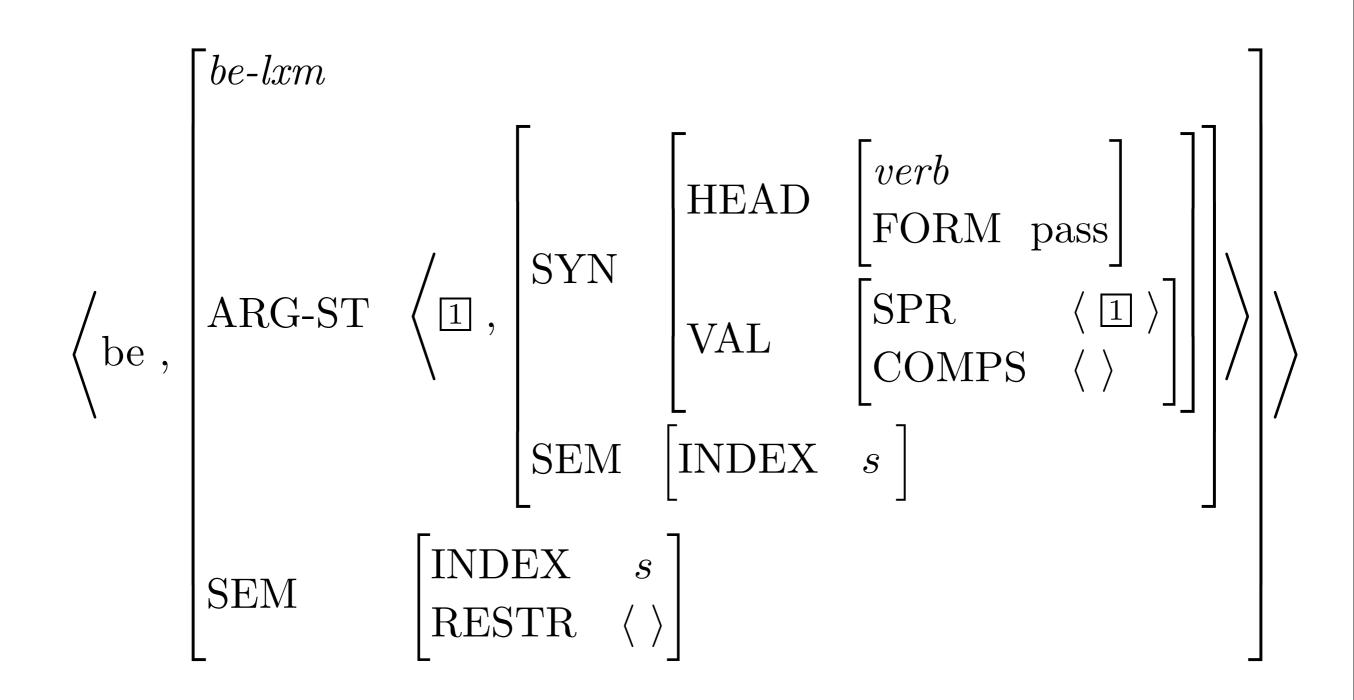
- What makes the object turn into the subject?
- Why is the type of the input *tv-lxm*?
- What would happen if it were just *verb-lxm*?

### Intransitives have passives in German

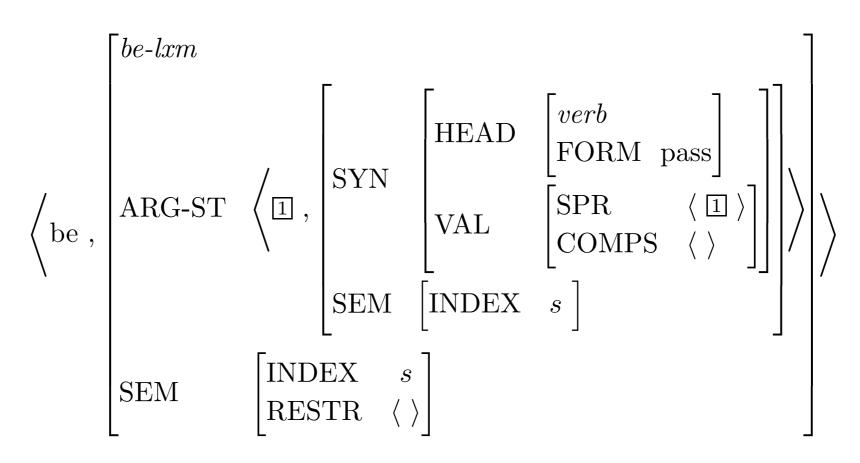
*In der Küche wird nicht getanzt.* in the kitchen is not danced 'There is no dancing in the kitchen.'

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*.

### The be that Occurs with Most Passives

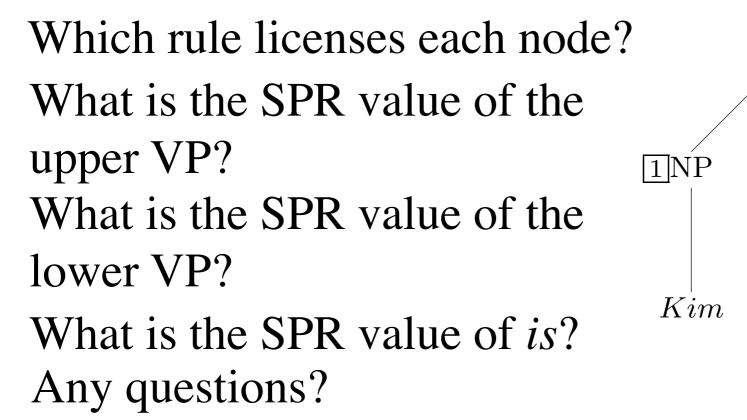


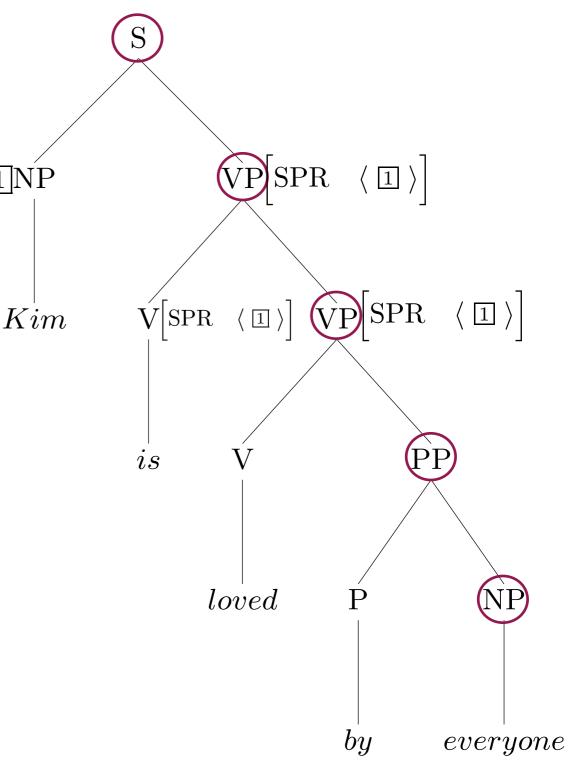
# Questions About the Entry for be



- Why doesn't it include valence features?
- What is the category of its complement (i.e. its 2<sup>nd</sup> 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?

# Passive tree





## More Questions

• Why do we get

*They are noticed by everyone* and not *\*Them are noticed by everyone?* 

- Why don't we get \**They is noticed by everyone*?
- What would facts like these entail for a transformational analysis?



- Wasow's responses re: psycholinguistics
- Passive
  - Arguments for lexicalist account
  - Details of our analysis
- Homework questions