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**Passive Construction** 

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- Arguments for lexicalist account
- Details of our analysis
- Questions
- Ch 11 preview

#### 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.

### 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*.

### Passive Input & Output



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### Actually...



### 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





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### 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?





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- Is *gone* a passive verb in *Kim is gone*.?
- Ex 1: A cat was a cat bitten by the dog.
  - ARG-ST < NP, NP, VP >
  - ARG-ST < NP, S >
  - ARG-ST < NP, VP >
- The cat was a cat bitten by the dog.

- Why do passive verbs have AGR values?
- How does our passive lexical rule get the semantics right?
- When does the Binding Theory apply in the construction of passive sentences?
- How about the case constraint?

### The Passive Lexical Rule



- If we made the ARP a constraint on the type lexeme as well as the type word, how would our Passive LR have to change?
- Does our grammar license *The cat bitten by the dog* as an S?
- In testing whether a sentence in passive form is valid or not, could we convert it to its active form, and ask if our grammar license it? If yes, we have a valid sentence in passive form, no otherwise?

- Does this rule restrict INPUTS to only two elements in the ARG-ST?
- If not, does that still hold that we should always transform the first element of ARG-ST of INPUT to the last element (PP) of ARG-ST of OUTPUT?

- What is it that is "formy" about *by* vs. *of*?
- Is it possible to optionality using notation for defeasible constraints i.e. '/' instead of the notation for optional constraints '()'? For example, in (9), could we say that the output of the rule defeasibly (or by default) contains a third element in the ARG-ST list?
- [ARG-ST < NPj, PP[to], /PP[by]i>]

- When do we use X\_i rather than NP\_i in the ARG-ST value?
- Why is ARG-ST written as
  - ARG-ST <[INDEX i]>  $\oplus$  [A]
  - not: ARG-ST <[INDEX i]  $\oplus$  [A]>
  - not: ARG-ST <<[INDEX i]>  $\oplus$  [A]>
- I just realized that in this and previous chapters, [A] ⊕
  [B] ⊕ [C] aren't written inside the usual list brackets <</li>
  >. Why is this? In this case, why is [INDEX i] written as a list unto itself?

• Why do we make both types of prepositions lexemes, but not have a single preposition lexeme type which give rise the two types of prepositions via two lexical rules?