Ling 566
Nov 9, 2009
Passive Construction
Overview

• Passive
  • 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

d-rule

INPUT \langle \underbrace{1}, \left[ tv\text-lxm \right] \text{ARG-ST} \langle [\text{INDEX } i] \rangle \oplus [A] \rangle

OUTPUT \langle F_{PSP}(\underbrace{1}), \left[ part\text-lxm \right] \text{SYN} \left[ \text{HEAD} \left[ \text{FORM } \text{pass} \right] \right] \text{ARG-ST} \left[ \text{PP} \left[ \text{FORM } \text{by} \right] \left[ \text{INDEX } i \right] \right] \rangle
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_.

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Passive Input & Output

If you have one of these....

Then you also get one of these....
Actually...

```
part-lxm

SYN [HEAD [verb [FORM pass]]]

ARG-ST ⟨NP_j , ⟨PP (PP [FORM by [INDEX i]])⟩⟩

<table>
<thead>
<tr>
<th>MODE</th>
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<tr>
<td>INDEX</td>
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SEM

RESTR ⟨[RELN love [SIT s] [LOVER i] [LOVED j]]⟩
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The *be* that Occurs with Most Passives

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\text{ARG-ST} \\
\text{SEM} \\
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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?
Passive tree

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?
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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