A cognitive analysis of the word 'S

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Why a cognitive analysis?

- 'Cognitive reality' is the goal of analysis.
- Language is part of general cognition:
 no Universal Grammar
 no Modularity
- So language uses ordinary cognition:
 - categorisation
 - network structures
 - activation, etc.

Why "the word 'S"?

It has the **distribution** of a word, not a suffix:

- It combines with a whole phrase
 [John and Mary]'s house, [someone else]'s glass
- It combines freely with any kind of word
 [the man over there]'s name. [a guy I know]'s house
- So it's **not** a case inflection.
- It belongs to a **word class**. - But which one?

So what kind of word is 'S?

- It must be a **determiner**
 - *Cat died, but The/Mary's cat died.
 - *The/a Mary's cat died.
 - The/Mary's old cat died, but *Old the/Mary's cat died.
- More precisely, it's a **possessive pronoun** - my/Mary's/*the own cat
 - See you at mine/Mary's [house]
 - a friend of mine/Mary's

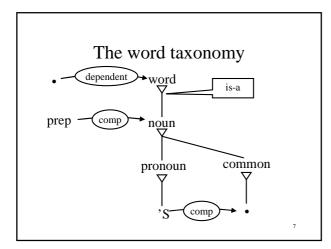
What are **determiners**?

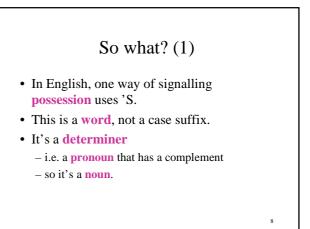
- **Pronouns**, because most can occur alone:
 - We (linguists) deserve more attention.
 - Which (apple) do you want?
 - His (book) cost £5.
- Pronouns have an ordinary valency:
 - some **allow** a complement,
 - others **require** one (*the*, *a*, *every*)
 - most **don't allow** one (*who, me, each other*)

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What are **pronouns**?

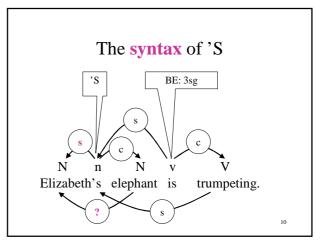
- Nouns that don't allow a determiner.
- So they "occur as head of a noun phrase".
- Or better:
 - they depend like ordinary nouns
 - but not on determiners because they're not common nouns
- So 'S is-a pronoun is-a noun.





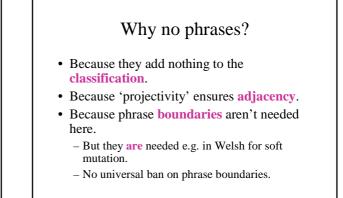
Plan for the rest of the talk

- The syntax of 'S
- The morphology of 'S
- The semantics of 'S
- The competition: OF
- How we use 'S and OF
- How we learn and store 'S



Possessors and subjects As in X-bar analyses, possessors with 'S are structurally similar to subjects. they precede the head they can be raised They also have similar semantics John's denial of the charge; *the charge's denial of John John denied the charge; *the charge denied J So maybe 'S possessors are subjects.

Cambridge GEL



So what? (2)

• The **possessed** is an optional complement of 'S.

- The **possessor** is an obligatory 'subject' of 'S.
- This is a very similar structure to $\mathbf{S} + \mathbf{V} + \mathbf{C}$.
- It may be possible to justify a direct

dependency between the possessor and the possessed; if so,

•possessor may be subject of possessed•this would be like 'raising'.

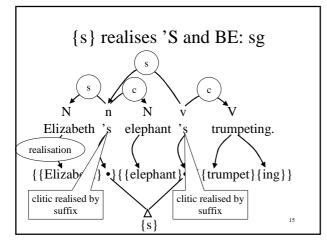
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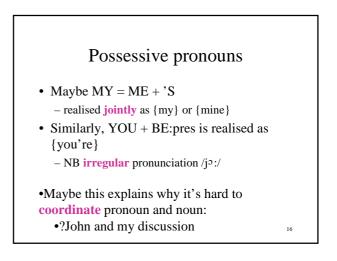
The morphology of 'S

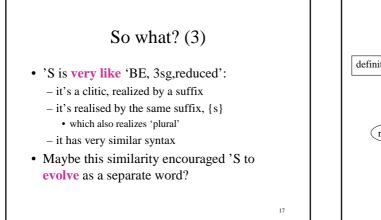
- 'S is a **clitic**:
- a separate word which is realised by an affix
- It's like 's, the clitic version of is
 - except that 'S has no 'strong' form.
 - 'S and BE: sg are also similar syntactically.
- The suffix that realizes 'S and BE:sg is {s} – which also realizes 'plural' Zwicky

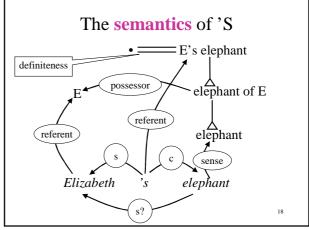
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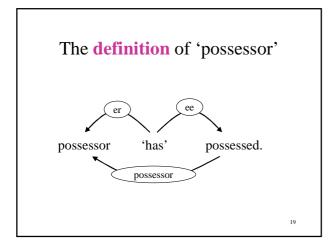
- hence the boys' (*boys's) heads

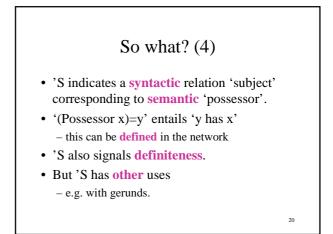


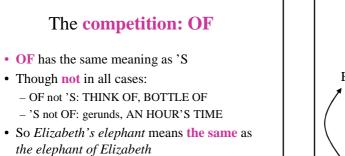


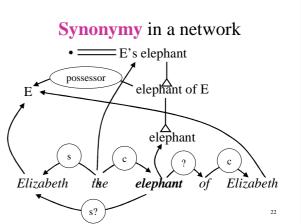






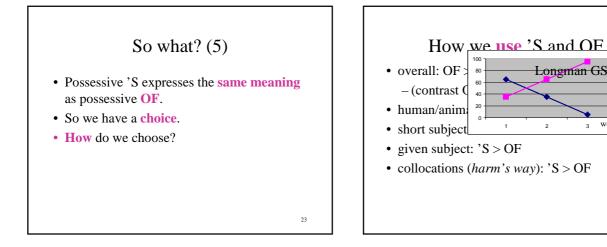


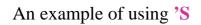




Longman GSWE

words



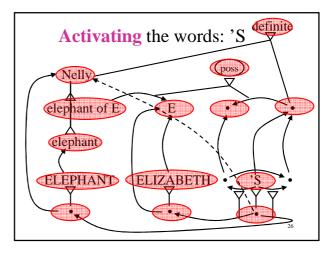


• I want a word to **refer** to Nelly the Elephant – already known to you – 'definite'

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- I classify her as an elephant
- I **identify** her in relation to her owner, Elizabeth
- Elizabeth is known to you by name



An example of using **OF**

- As before, but **you don't know** Elizabeth by name
- you just know her as the lady at the next table.
- **Target**: words meaning 'the elephant belonging to the lady at the next table'
- **Result**: *the elephant of the lady at the next table*

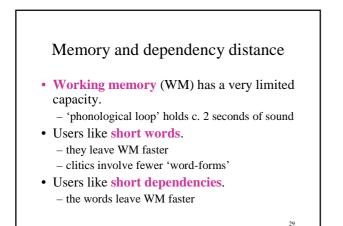
How do we choose OF or 'S?

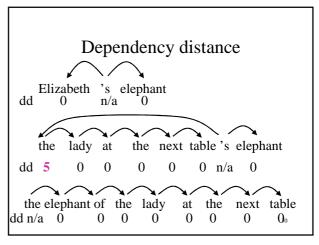
- 'possessor' activates both 'S and OF
- 'definite' activates just 'S
- So 'S is favoured when possible
- But a long possessor overloads working memory

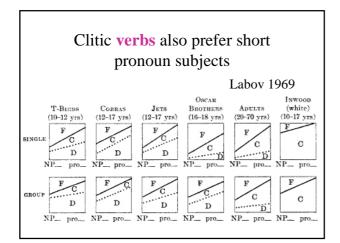
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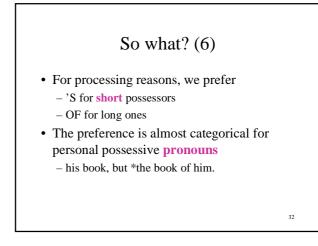
- And especially so if it's postmodified

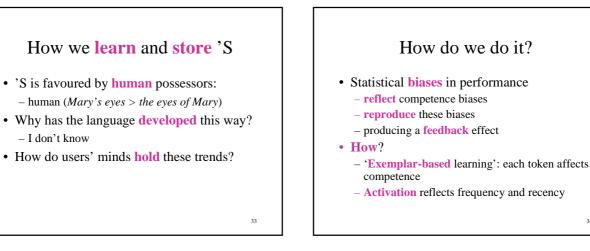
• Then we prefer **OF**

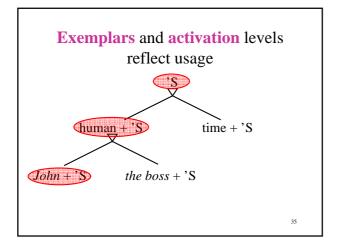


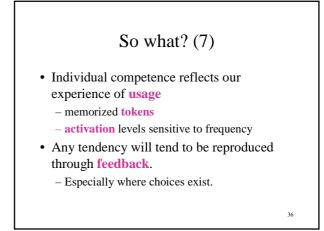












Last 'so what?'

- The diachronic development of 'S may have been influenced by that of clitic **verbs**.
- Ordinary **linguistics** works reasonably **well** with the outlines of the analysis.
 - but these can be expressed in a cognitive network
- The detailed patterns of **usage** require a **cognitive** analysis.

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Thanks

- This talk is available at: www.phon.ucl.ac.uk/home/dick/talks.htm#man2
- For more information about Word Grammar:

www.phon.ucl.ac.uk/home/dick/wg.htm

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