Ling 566
Dec 2, 2010
Catch-up/review
Overview

• Big picture
• Untangle this...
• Course evals
Big picture: Our model

- Describes a set of strings
- Associates semantic representations (and trees) with well-formed strings
- Is stated in terms of declarative constraints
- ... which are order-independent
- Locates most constraints ‘in the lexicon’
- Is stated in a precise fashion
Parts of our model

• Type hierarchy (lexical types, other types)
• Phrase structure rules
• Lexical rules
• Lexical entries
• Grammatical principles
• Initial symbol
Pause for reflection

• What have you learned about the nature of human language?
• What have you learned about how linguists think about language?
• How does this model/type of model differ from CFG (with atomic categories)?
• In what applications might (atomic category) CFG be sufficient?
• What applications might benefit from something linguistically more motivated?
Complicated example #1

• What phenomena are illustrated by this sentence?

• What rules or interesting lexical types are involved in our analysis of it?

• What tree structure does our grammar assign?

_It was explained to me that Kim left._
It was explained to me that Kim left.
I expect it to continue to surprise Kim that Sandy laughed.

I expect Kim to continue to be surprised that Sandy laughed.
I expect it to continue to surprise Kim that Sandy laughed.
I expect Kim to continue to be surprised that Sandy laughed.
Cf. Kim seemed surprised that...
Why not these?

*I expect it to continue to surprise Kim Sandy laughed.

*I expect there to continue to surprise Kim that Sandy laughed.

*I expect that Sandy laughed to Kim be surprised.
Complicated example #4

You all laughed, did you not?

*You all laughed, did not you?

You all laugheded, didn’t you?
S
  /
S
  /
S
  /
NP: you
  /
ADV: all
  /
VP: laughed
  /
V: did
  /
NP: you
  /
ADV: not
  /
You all laughed didn't you
Complicated example #5

That Sandy could laugh so hard, Kim did not realize.

*That Sandy could laugh so hard, Kim realized not.

*Sandy could laugh so hard, Kim did not realize.

*That Sandy could laugh so hard, Kim did not realize it.
That Sandy could laugh Kim did not realize

Tree: S → CP (That S) / S (NP (Sandy) VP (could laugh)) / S (NP (Kim) VP (did not realize)))
Complicated example #6

*Kim continues to be likely to be easy to talk to.

*Kim continue to be likely to be easy to talk to.

*Kim continues to be likely to is easy to talk to.

*Kim continues to Kim be likely to be easy to talk to.
Kim continues to be likely to be easy to talk to.
Complicated example #7

That cake, Kim thought would be easy to eat.

*That cake, Kim thought would be easy to eat pie.

*That cake, Kim thought would be easy to eaten.

*Cupcake, Kim thought would be easy to eat.

*That cake, Kim thought that would be easy to eat.
That cake Kim thought would be easy to eat
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