Adjacency and Locality

A Constraint-Based Analysis of Complementizer-Adjacent Extraction

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Phenomenon & Problems

- Complementizer-Adjacent Nominal Extraction (a.k.a. 'That-Trace Effect'): (1) vs. (2)
- Problems:
 - 1. Adverb Effect: (3), (4)
 - 2. Relative Clause Paradox: (5), (6), (7)
 - 3. Embedded VP Topics: (8), (9)
 - 4. Embedded Auxiliary Inversion: (10), (11)

Proposal

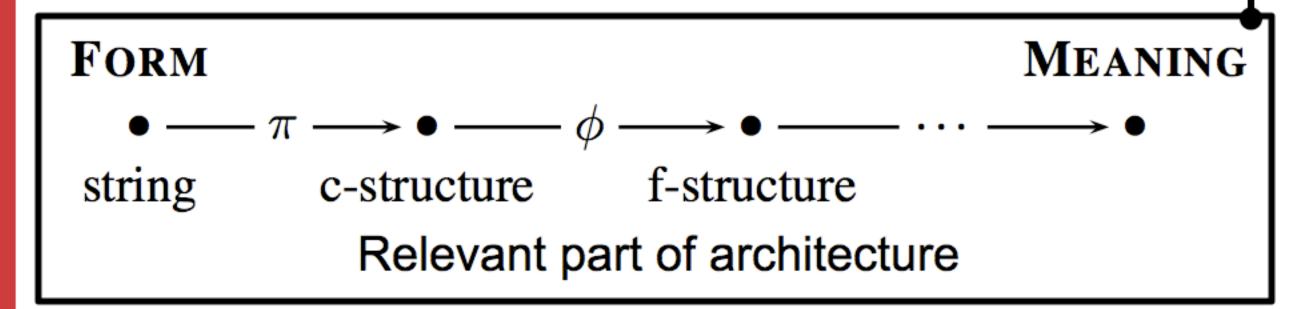
- Use two components of LFG's Correspondence Architecture that have received little attention:
 - Syntactically unparsed input string to c-structure (Phonologically parsed/tokenized into words)
 - 2. String to c-structure correspondence function: π
- Key: Relevant grammatical notion for CANE is linear adjacency, not structural superiority
 - Adjacency of complementizer and subject (not C and head — contra L&H 2006; cf. (8))
- New metavariable, >: The next word's f-structure

F-Precedence is Inadequate

On the normal assumption that C is a co-head, f-prec. is inadequate (on either formulation), because the relevant material can be missing (5) or mingled (8–9) & (10–11).

Correspondence Architecture

Parallel modules related by correspondence functions



Example Sentences

- (1) Who do you think sneezed?
- (2) * Who do you think that sneezed?
- (3) Who did you say that, just a minute ago, sneezed?
- (4) Who does Robin think that, with Mary out of the picture, might receive the nomination?
- (5) This is the person that sneezed.
- 6) * I know which man that saw Robin.
- (7) * This is the person who Mary thinks that sneezed.
- 8) Robin knows that doubt Mary John never could.
- (9) * Who does Robin know that doubt Mary never could?
- (10) * I wonder if could you move your car from in front of my driveway? (L&H 2006, (102a))
- (11) I wonder if at one point could you move your car from in front of my driveway? (L&H 2006, (102b))

Previous Proposals

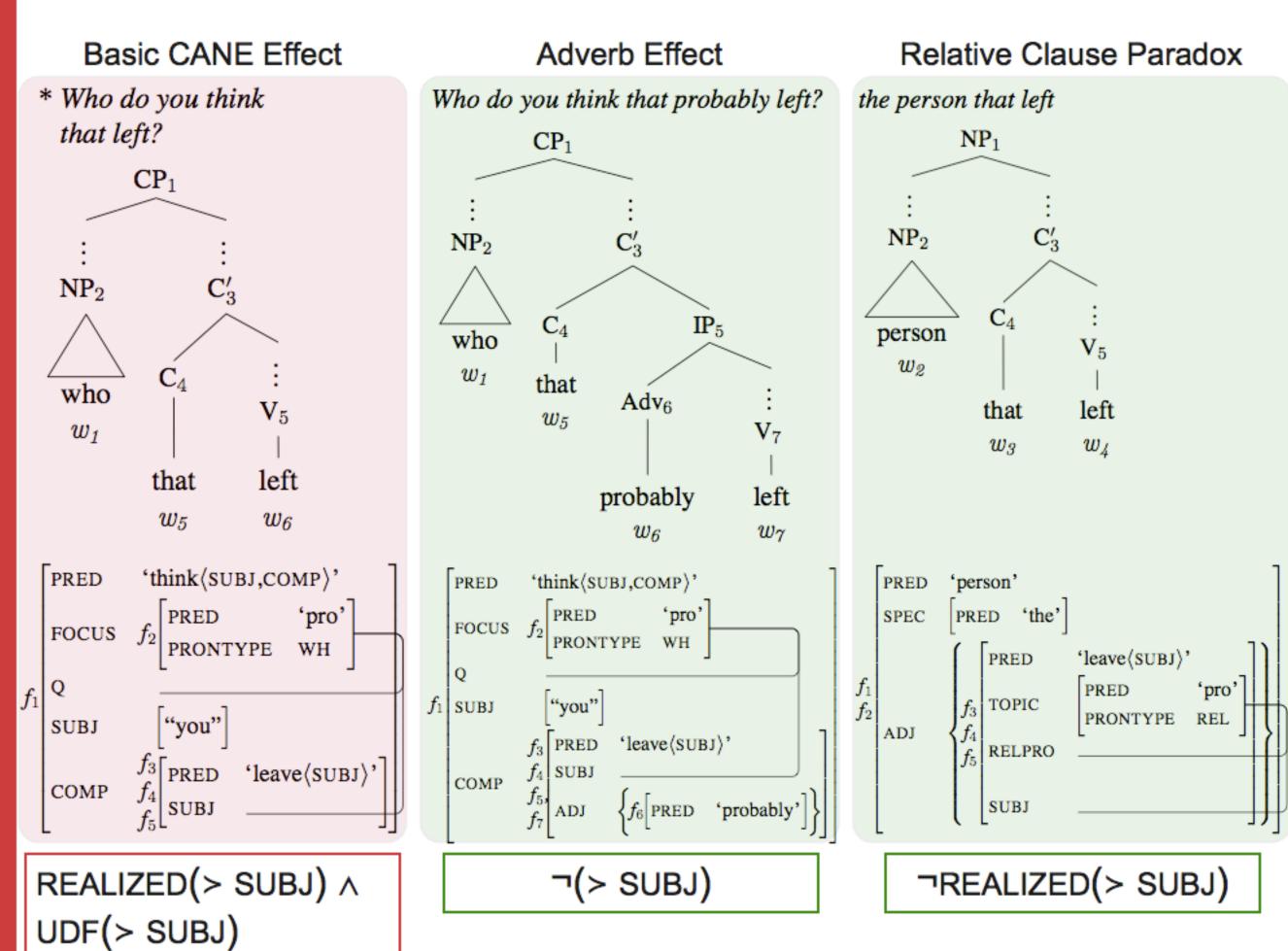
- Fixed Subject Constraint (Bresnan 1972)^{2, 3, 0}
- ❖ Complementizer Constraint on Variables (Bresnan 1977)^{3, 0}
- That-Trace Filter (Chomsky & Lasnik 1977)^{2, 3, 0}
- Subject Extraction Metarule/Trace Principle (Gazdar 1981, Pollard & Sag 1994)^{1, 2, 3?, 4, 0}
- ECP Analyses (Kayne 1981, Pesetsky 1982, Koopman 1983, Lasnik and Saito 1984, Rizzi 1990)^{1, 2, 3?, 4, 0}
- Polarity Phrase (Culicover 1991)^{2, 3?, 0}
- CP Expansion (Browning 1996, Rizzi 1997)^{2, 3?, 4, 0}
- CP Contraction (Sobin 1987, 2002)^{2, 3?, 0}
- Intervention Constraint (Levine & Hukari 2006)^{2, 3?}

Problem Index

¹ Adverb Effect, ² Relative Clause Paradox, ³ Embedded VP Topics, ⁴ Embedded Auxiliary Inversion, ⁰ Others

Analysis

- N: W \rightarrow W, where W is the set of words in the string
- REALIZED(f) iff $\phi^{-1}(f) \neq \emptyset$, where f is an f-structure
- $\succ := \phi(\mathcal{M}(\pi(N(\pi^{-1}(*)))))$
- CANE Constraint:
- $\neg [REALIZED(\succ SUBJ) \land (UDF(\succ SUBJ))]$ where UDF is an unbounded dependency function (FOCUS or TOPIC)
- $that/whether/if..., C \neg [REALIZED(\succ SUBJ) \land (UDF(\succ SUBJ))]$



Summary

- Syntax-Phon. Interface
- Lexicalist: variation
- Unified analysis of that
- Unified analysis of CANE:
 - 1. Basic CANE Effect
 - 2. Adverb Effect
 - 3. Relative Clause Paradox
 - 4. Embedded VP Topics
- Embedded Aux Inversion?

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