

Understudied and Endangered Languages at the Semantics/Syntax Interface

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Understudied and Endangered Languages at the Semantics/Syntax Interface

- Introduction
 - History of Research
 - Factors Behind Recent Expansion
 - What Haven't We Learned?
 - Some General Themes
- Indexical Shift
- Modals With Variable Force
- Conclusion
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 - Generalization and Analysis

Indexical Shift

A Natural Question:

“Wait! How Do We Know These Aren’t Just Direct Quotes?”
(cf. Dave said “I am hungry.”)

- ▶ Argument 1: Unlike direct quotes, extraction is possible from ‘shifted’ clauses.

English: * What₁ did Dave say “I’m going to devour t₁.”

Navajo: (Speas 1999, Anand 2006):

Háadilá₁ Kii Mary [t₁ d’in’ílnish] yitn’i.
where Kii Mary 2sS.work 3sIO.3sS.say
“Where₁ did Kii say to Mary that **she** should work t₁?”

- ▶ Argument 2: Unlike direct quotes, matrix negation licenses NPIs in ‘shifted’ clauses.

English: * Dave **didn’t** say “I have eaten **anything**.”

Zazaki: (Anand & Nevins 2004, Anand 2006):

Rojda **ne** va ke **mî kes** paci kerd.
Rojda **not** said that I **anything** kiss did.
“Rojda **didn’t** say that **she** kissed **anyone**.”

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A Constraint Governing Indexical Shift

Shift Together (Anand & Nevins 2004, Anand 2006)

All shiftable indexicals within an attitude context must pick up their reference from the same context parameter.

Illustration:

- ▶ Morpho-Syntactic Structure:

DAVE TOLD MARY
[THAT BILL TOLD SUE
[THAT I LIKE YOU]].

- ▶ Possible Interpretations:

- ▶ ‘I’ = utterance speaker; ‘you’ = utterance addressee
- ▶ ‘I’ = Dave; ‘you’ = Mary
- ▶ ‘I’ = Bill; ‘you’ = Sue
- ▶ ...and no others (* ‘I’ = Dave; ‘you’ = Sue)

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Analysis of Indexical Shift (Anand 2006)

Analysis, Part 1:

Indices and contexts are the same “type” of object.

- ▶ Context: < speaker, addressee, time, location, world >
- ▶ Index: < speaker, addressee, time, location, world >

Analysis, Part 2:

Natural language has ‘diagonalization’ operators (Stalnaker 1978), which replace the ‘context’ with the ‘index’.

$$[[\text{OP}_{diag} \text{ CP }]]^{\text{context, index}} = [[\text{CP }]]^{\text{index, index}}$$

Broader Consequences:

- ▶ Diagonalization operators exist in natural language!
- ▶ A novel theory of long-distance reflexives (Anand 2006).
- ▶ A novel theory of *de se* attitudes (Anand 2006).

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Modals and Quantificational Force

Properties of Modals in ‘Standard Average European’

- ▶ Lexically fixed quantificational force over possible worlds.
(Kripke 1959)

- ▶ “must” = universal; “may” = existential.

- ▶ Contextually supplied domain of quantification [modal base]
(Kratzer 1977)

- ▶ Epistemic Modals:

Modal Base = Worlds Consistent with Knowledge

“Dave must be here” =

In all worlds consistent with our knowledge, Dave is here.

- ▶ Deontic Modals:

Modal Base = Worlds Satisfying ‘The Most’ Laws

“Dave must go to jail” =

In all the worlds satisfying the most laws, Dave goes to jail.

- ▶ Circumstantial Modals:

Modal Base = Worlds Like Actual World Up to Present

“Dave may dance.” =

In some world just like the actual world up to the present,
Dave dances.

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