

Indexicals and the long-distance reflexive *caki* in Korean

Introduction

- Anand (2006) proposes two different mechanisms for obligatory de seelements:
- Semantic (context-overwriting): *e.g.* shifted indexicals.
- Syntactic (binding by operator): e.g. Yoruba logophor oun, Japanese longdistance reflexive *zibun*, etc.
- I show that Korean is a language where the two types of *de se* elements exist, *i.e.* shifted indexicals and the LD-reflexive *caki*.
- Question: How would these two elements interact with each other? (Under Anand's analysis, no interaction is predicted since the syntactic and semantic mechanisms for *de se* ascriptions are independent from each other.)

Indexical Shift in Korean

- First, I show that the shifted interpretations of the person and adverbial indexicals in an indirect report are available in Korean (1)-(2).
- Mary-ka [nwuka na-lul coahanta]-ko malhayss-ni? (1)Mary-Nom who I-Acc like-C said-Q 'Who did Mary say likes {me, Mary}?'
- Utterance in New York (2)Amherst-eyse Mary-ka yeki-eyse nwuka Amherst-at Mary-Nom who-Nom here-in thayenassta]-ko malhayss-ni? be.born-C said-Q 'Who did Mary say in Amherst was born in {New York, Amherst }?'
- The shifted indexicals in Korean share the well-known properties of indexical shifting observed by Schlenker (2003), Anand & Nevins (2004).
- SHIFT TOGETHER: The shift-together constraint proposed by Anand and Nevins (2004) holds for both the person and adverbial indexicals in Korean. • OBLIGATORY de se INTERPRETATION: Both the person and adverbial shifted
- indexicals in Korean receive obligatory de se interpretations.

Shift Independently

- Interestingly, person and adverbial indexicals do not have to shift together, although the same type of indexicals must shift together.
- (3)*Context*: John and Mary are having a conversation in NY. John: Tom-i Amherst-eyse nay-ka yeki-eyse Tom-Nom Amherst-at I-Nom here-at thayenassta-ko malhayssta. be.born-C said Lit. 'Tom said in Amherst that I was born here.' a. 'I' = John, 'here' = New York (No Shift)'I' = John, 'here' = Amherst(Location Shift) 'I' = Tom, 'here' = New York (Person Shift) 'I' = Tom, 'here' = Amherst(Both Shift) d.

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Two Context-shift Operators

- Anand and Nevins (2004) and Anand (2006): Indexical shift is the result of a context-shift operator that overwrites the context parameter on the interpretation function with the index.
- Proposal: To account for both SHIFT TOGETHER and SHIFT INDEPENDENTLY, I argue that there are two separate operators, OP_{PER} and OP_{ADV} , for person and adverbial indexicals in Korean.
- Two context-shift operators (4)
 - a. $[OP_{PER} [\alpha]]^{<A_c, H_c, T_c, L_c >, i} = [\alpha]^{<A_i, H_i, T_c, L_c >, i}$ b. $[OP_{ADV} [\alpha]]^{<A_c, H_c, T_c, L_c >, i} = [\alpha]^{<A_c, H_c, T_i, L_i >, i}$
- Sample illustration of SHIFT INDEPENDENTLY (\mathbf{c}) John said [OP_{PER} I was born here]. Truth-conditions: $[(6a)]^{c,i,g} = 1$ iff b.

The Long-distance Reflexive *caki*

- *Caki* allows both local and long-distance binding.
- (6)John-un Tom-i John-Top Tom-Nom self-Acc dislike-C 'John_i thinks that Tom_i dislikes $\text{him}_i/\text{himself}_i$.'
- The long-distance *caki* must be interpreted *de se*, as *ziji* in Chinese (Pan 1997, Huang and Liu 2001, a.o.).
- Multiple long-distance *cakis* in an embedded clause must find the same antecedent, as observed in Chinese.
- [caki-uy emma-ka Bill-i John-i John-Nom Bill-Nom caki-Gen mother-Nom caki-Acc hate-C sayngkakhanta]-ko malhayssta. think-C said
 - a. b.
- I assume that *caki* is a *de se* element that is bound by a syntactic operator, OP-LOG, within the scope of attitude verbs (Anand 2006).
- $[\text{OP-LOG}_i \ [\alpha] \]^{c, i, g} = \lambda i'. \ [\alpha]^{c, i', g[j \to \text{AUTH}(i')]}(i)$ (8)

Puzzle: Between shifted indexicals and *caki*

- [John said [that Bill said [that *caki*'s mother hates me.]]] (9)
 - me (=John)'
 - b. *'John_i said that Bill_i said that self (=*John)'s mother

 $\forall i' \in \text{Say(John,i)}: \text{AUTH}(i') \text{ was born in } \text{LOC}(c) \text{ in WORLD}(i')$

caki-lul silhehanta-ko sayngkakhanta. think

caki-lul silhehanta]-ko

'John_i said that Bill_i thought that $his_{i/i}$ mother hates $him_{i/i}$.' * John_i said that Bill_i thought that $his_{i/i}$ mother hates $him_{i/i}$.

a. 'John_i said that $Bill_i$ said that self (=**Bill**)'s mother hates

hates me (=**Bill**)' \Rightarrow No *caki* binding after indexical shift!

IS (Indexical Shift)-Blocking Effect

- scribed as in (10).
- **IS-Blocking Effect** (10)them.

 $*[_{CP1} NP_{1}...[_{C}$

• **Key Question:** How can we account for this one-way blocking effect between the shifted indexicals and *caki*?

- also takes the $[+\log]$ feature.
- New assumptions:
- clause, they must agree in the feature $[+\log]$. with each other rather than be independent!
- (11)

No blocking effect (12)

Further consequences

Our proposal also captures the interaction between multiple *cakis*.

(13)	Der	iving	the	r
	a.	John	said	
	b.	*John	said	
	с.	*John	said	
	d.	John	said	

Selected References & Acknowledgements

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• The interaction between the shifted indexicals and *caki* can be de-

If *caki* and its antecedent are separated by more than one clause, a context-shift operator cannot intervene between

$$\sum_{P2} NP_2 ... [CP_3 \mathbf{OP_{PER/ADV}} ... caki_1 ... ind_2 ...]]]$$

Deriving the IS-Blocking Effect

Basic assumptions (von Stechow 2003, Anand 2006, a.o.):

• The de se elements like caki always bear the syntactic feature [+log].

• The de se elements that bear $[+\log]$ must be bound by the closest operator that

• The syntactic operator can take either $[+\log]$ or $[-\log]$.

• The context-shift operators always bear [+log].

• When the OP-LOG and the context-shift operator occur in the same embedded

 \Rightarrow Upshot: The two different operators for shifted indexicals and *caki* interact

Deriving the IS-blocking effect:

*John_j said $\begin{bmatrix} \lambda_j^{+log} \end{bmatrix}$ Bill_i said $\begin{bmatrix} \lambda_k^{+log} \end{bmatrix}$ OP_{PER}^{+log} $\boxed{\operatorname{caki}_j^{+log}}$'s mother hates $\operatorname{me}_i \end{bmatrix}$

John_j said $[\lambda_j^{+log} OP_{PER}^{+log} Bill said <math>[\lambda_k^{+log}] caki_k^{+log}$'s mother hates me_j]

restriction on multiple *cakis*

 λ_i^{+log} Bill said $[\lambda_k^{+log} \operatorname{caki}_k^{+log}'s$ mother hates $\operatorname{caki}_k^{+log}]$ λ_i^{+log} Bill said $[\lambda_k^{+log} \operatorname{caki}_k^{+log}'s$ mother hates $\operatorname{caki}_i^{+log}]$ λ_j^{+log} Bill said $[\lambda_k^{+log} \operatorname{caki}_j^{+log}' \operatorname{s} \operatorname{mother} \operatorname{hates} \operatorname{caki}_k^{+log}]]$ λ_i^{+log} Bill said $[\lambda_k^{-log} \operatorname{caki}_i^{+log}]$'s mother hates $\operatorname{caki}_i^{+log}$

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