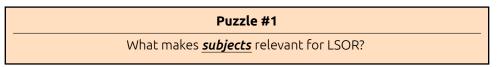
# Deriving Subject-Oriented Reflexivity\*

**Byron Ahn** (byron-[æt]-ucla-[dat]-edu)
UCLA Department of Linguistics
LSA 2013 Annual Meeting

#### 1 Introduction

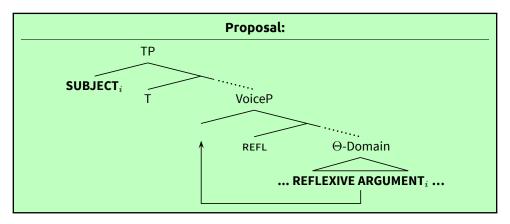
- In a great many languages, certain grammatical phenomena arise when a predicate's reflexivity is subject-oriented
  - → **Local Subject-Oriented Reflexivity** (**LSOR**) is overtly marked in the morpho-syntax, in a wide range of languages
  - □ e.g., Danish sig selv (Scandinavian, Vikner 1985), Finnish itse (Uralic; van Steenbergen 1991), Japanese zibunzisin (Altaic; Katada 1991), Kannada -koL (Dravidian; Lidz 1996), Lakhota ic'i-(Siouan; Charnavel 2009), Romance se/si (Kayne 1975, Burzio 1986, Sportiche 2010), Russian sebe (Slavic; Timberlake 1979), Shona zvi- (Niger-Congo; Storoshenko 2009), ...



- However for these same languages, not all subjects can license LSOR
  - Notably passive/raised subjects cannot license LSOR (e.g. Burzio 1986, Kayne 1975, Lidz 1996, Sportiche 2010, Storoshenko 2009)

# Puzzle #2 Why can only some subjects license LSOR?

- Reflexives anaphors move near to the subject, in cases of LSOR
  - → To derive when this movement occurs and why, I appeal to a reflexive VoiceP, REFL
  - → The formal properties of REFL will provide a solution to these puzzles and provide insight into other phenomena, across languages



<sup>\*</sup>Special thanks to my adviLSORs, Dominique Sportiche and Sun-Ah Jun, and to my other committee members, Elsi Kaiser, Hilda Koopman, and Tim Stowell. I would like to thank everyone who has given me their time in helping me work through this problem, as well as to the audiences of the UCSC s-circle, WCCFL 29, the Parallel Domains Workshop, ETAP2, NELS 42, the UCLA syntax/semantics seminar, LSA 2012, and the University of Arizona linguistics colloquium, and anyone else who has lent their advice, voices, ears, or judgments.

## 2 Previous Approaches

- Well-established theories of reflexivity either cannot or do not make any distinction between binding by a subject and binding by a non-subject
  - → Co-argument theories (e.g. Reinhart and Reuland 1993) and other valency-reducing theories (e.g. Bach and Partee 1980, Keenan 1988) provide no means to refer to structural notions such as subjecthood at all
  - □ Canonical binding theories place constraints on anaphors, and not their antecedents
  - → **This has been seen as a benefit**: not all languages seem to mark LSOR
    - (1) a.  $Ken_k$  assigned  $Angie_j$  to  $herself_j$

'Lucie saw herself.'

- b.  $[Ken_k]$  assigned  $Angie_j$  to  $[himself_k]$
- → If not all languages make the distinction, perhaps the derivation for LSOR really is just a special case of the way reflexivity is derived in general
- LSOR, when modeled, is usually derived by movement, so as to put the anaphor in the subject's local domain
  - → "...the most prominently defended mechanism for explaining the crosslinguistic variety of locality conditions on anaphors has been to posit (covert) movement to the more local domain." (Safir 2004:7)
  - → The proposed reflexive-movement has been proposed to be independent of whatever conditions license reflexives.
  - - (2) a. Lucie s' est vu (French)
      Lucie LSOR PERF seen
      - b. Lucie a compté cinq touristes en dehors d'elle-même/Alan Lucie PERF counted five tourists outside of herself /Alan
        - 'Lucie counted five tourists outside of herself/Alan.'
      - c. \* Lucie s' est compté(e) cinq touristes en dehors Lucie LSOR PERF counted five tourists outside Intended: 'Lucie counted five tourists outside of herself.'
      - d. \*Qui a Lucie compté cinq touristes en dehors de Who PERF Lucie counted five tourists outside of Intended: 'Lucie counted five tourists outside of who?'
- But a purely movement-based approach to deriving subject oriented reflexivity overgenerates
  - Any subject should be able to license LSOR, but **derived subjects do not license LSOR** (e.g. subjects in passive/raising clauses; Kayne 1975, Burzio 1986, Lidz 1996, Sportiche 2010, Storoshenko 2009)
    - (3) a. hari tann-annu hoDe-du-koND-a Hari self -ACC hit -PP-LSOR-3SM 'Hari hit himself'

(Kannada, Lidz 1996)

- b. hari (tann-age) santooshaagiruwaage kaNis-utt -aane Hari (self -DAT) be.happy seem-PRES-3SM 'Hari seems (to himself) to be happy'
- c. \* hari (tann-age) santooshaagiruwaage kaNis-koLL -utt -aane Hari (self -DAT) be.happy seem-LSOR-PRES-3SM Intended: 'Hari seems to himself to be happy'

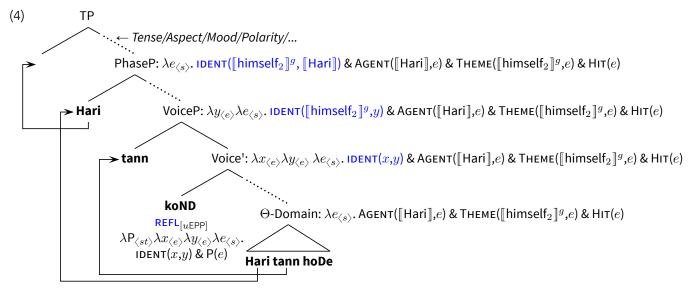
#### LSOR requires another approach

Coargument/valency-reducing theories cannot distinguish subjects from non-subjects

Existing movement theories incorrectly predict all subjects could license LSOR

#### 3 Reflexive Voice

- Question: is LSOR dependent on a notion of subjecthood along the lines of S-structure or D-structure?
  - → If LSOR needs a D-subject, a D-subject in a passive (e.g. a by-phrase) should be able to license LSOR
    - → Not true: the by-phrase subjects cannot license LSOR
  - → If LSOR needs a S-subject, any derived subject should be able to license LSOR
    - → Not true: derived subjects cannot license LSOR
  - The LSOR subject must be subject both at S-structure and D-structure (Sportiche 2010)
- Grammatical voice is what controls whether or not the S-subject is also the D-subject
  - → It follows that LSOR and its effects are derived by a special grammatical voice, REFL
    - → The idea of a reflexive grammatical voice has a long history in philology
    - → Reflexive verbal morphology and morphology for other grammatical voices (e.g. Passive, Medio-passive, Middle, Antipassive, etc.) overlap in a great many languages (Geniušienė 1987, Lidz 1996)
  - → Syntactically, **REFL** is situated just outside the thematic domain
    - → Just as other grammatical voices, such as passive (e.g. Harley 2012)
    - → It is endowed with an EPP feature that attracts LSOR reflexive arguments
  - → Semantically, **REFL coidentifies two arguments** 
    - → The reflexive anaphor and the subject
    - → This is semantic reflexivity
- Here is the (relevant portion of the) derivation for (3a):



- The semantic effects of REFL arise due to the positions in which the the subject and reflexive argument are merged
  - → Binding between e.g. a direct object and an indirect object cannot employ REFL
  - → Only the subject is in a position to saturate the second of IDENT's arguments
  - → This solves Puzzle #1
- This also solves Puzzle #2
  - → Derived subjects are ruled out as licensers of LSOR
    - → They require some other (non-Active, non-REFL) Voice to become subject (Sailor and Ahn 2010)
    - $\rightarrow$  Merging this other Voice<sup>0</sup> would be in direct competition with merging a REFL Voice<sup>0</sup>
  - → The reflexive argument must be able to move to VoiceP
    - → This requires that it not be merged in an island not containing VoiceP

#### REFL solves our original puzzles, due to:

(i) the its **structural height**, (ii) the **subject's movement** through the phase edge, and (iii) **semantic composition** 

## 4 Subject Oriented Reflexivity Across Languages

- Does the REFL Voice head / LSOR play a grammatical role in languages that lack overt morpho-syntactic marking?
  - Yes even though English LSOR appears morpho-syntactically identical to non-LSOR
  - → Ahn (in progress) shows English LSOR anaphors differ prosodically
  - LSOR anaphors do not bear phrasal stress where other words/anaphors do: (Ahn 2012a)
    - (5) a. Liz embárrassed herself.
      - b. Liz embarrassed Jáck.
      - c. Liz embarrassed Jack and hersélf.
- (6) a. Ken assigned <u>Ángie</u> to himself.
  - b. Ken assigned Angie to Trácy.
  - c. Ken assigned Angie to hersélf.
- → LSOR anaphors can be focused to allow a focused-reflexivity interpretation: (Ahn 2012b)
  - (7) Q: Who assigned Angie to Ken?
    - A1: **Jáck** assigned Angie to Ken.
    - A2: Ken assigned Angie to **himsélf**.
- (8) Q: Who did Ken assign to Angie?
  - A1: Ken assigned **Jáck** to Angie.
  - A2: #Ken assigned Angie to hersélf.
- → Non-LSOR reflexives **do** bear phrasal stress (5c,6c) and cannot be focused to allow a focused-reflexivity interpretation (8A2)
- $\rightarrow$  This provides further evidence that VoiceP is within the same phase as the  $\Theta$ -Domain (cf. Legate 2003)
- → More must be said to derive these facts, including the appropriate linearization (see Ahn 2012a, 2012b, in progress)
- Either or both of the reflexive Voice<sup>0</sup> and the anaphor that moves to VoiceP may be silent
- Thus the morpho-syntactic configurations of **LSOR may employ**...
  - → an overt verbal affix (i.e. Voice head morpheme; e.g. Lakhota, Shona),
  - → an overtly moving reflexive anaphor (i.e. e.g. Danish, Romance),
  - → both (e.g. Kannada), or
  - → neither (e.g. English)

#### Across languages, LSOR does not pattern uniformly as either active or non-active

- → This is predicted: LSOR is controlled by a unique grammatical Voice, but not every grammatical Voice requires its own morphological paradigms (Alexiadou and Doron 2012)
- $\rightarrow$  Consider this very small typology with a small set of Voice<sup>0</sup>s:

	Passive Voice <sup>0</sup>	Middle Voice <sup>0</sup>	Refl. Voice <sup>0</sup>	Active Voice <sup>0</sup>
English	non-active morph.	active morph.		
Greek	Π	on-active morph.		active morph.
Finnish	N/A <sup>1</sup>	middle morph.	reflexive morph.	active morph.

→ Beyond Voice morphology, LSOR clauses also exhibit other morphological patterns that may pattern with actives, non-actives, or distinctly

	patterns like actives	patterns like non-actives	patterns distinctly
Voice morphology	English	Greek	Finnish, Kannada
Agreement morphology	Chickasaw	Lakhota	Bantu
Auxiliary selection	German	French	

<sup>&</sup>lt;sup>1</sup>Finnish is said to have a passive – but the external argument is obligatorily absent such a voice, so I assume that this is in fact a middle voice. It is certain that the number of Voice<sup>0</sup>s is much greater, and it might be that the Finnish "passive" is neither what I have marked as pass nor what I have marked as mid.

#### 5 Conclusion

# Subject Oriented Reflexivity exhibits the patterns that it does simply as a result of the general architecture of Langauge

→ i.e. that subjects – and only certain subjects – license LSOR

#### Subject-orientation appears a core property of predicate-level reflexivization, across all languages

- → It is not simply a special-case of normal binding conditions
- → Languages that do not obviously mark LSOR (English) still employ the REFL Voice
- → More careful investigation may be required to uncover its effects

# The heterogeneous morpho-syntactic strategies for marking LSOR are due to REFL being a unique grammatical Voice

→ Morpho-syntactic properties can distribut

### 6 Open Questions

- What about other, non-LSOR reflexives?
  - → (Subject-oriented) long-distance reflexives
  - → Non-subject-oriented local reflexives

  - → (See Sportiche 2012)
- What is the underpinning of different grammatical voices sharing morpho-syntactic paradigms?
  - → Accidental homophony?
  - → Feature underspecification?
  - → Something else?

#### References

Ahn, Byron. 2012a. Default sentential stress and non-exceptional reflexives. Presented at the 2012 Annual LSA Meeting.

Ahn, Byron. 2012b. The distribution of focal stress and the syntax of reflexivity. Coyote Papers 20.

Ahn, Byron. In Progress. Giving reflexivity a voice: Twin reflexives in English. Doctoral Dissertation, UCLA.

Alexiadou, Artemis, and Edit Doron. 2012. The syntactic construction of two non-active Voices: passive and middle. *Journal of Linguistics* 48:1–34.

Bach, Emmon, and Barbara H. Partee. 1980. Anaphora and semantic structure. In *Papers from the Parasesion on Pronouns and Anaphora*, ed. Jody Kreiman and Almerindo E. Ojeda, 1–28. Chicago Illinois: University of Chicago.

Burzio, Luigi. 1986. Italian syntax: A government-binding approach. Dordrecht: Reidel.

Charnavel, Isabelle. 2009. Reflexivization in Lakhota: Lexical or syntactic? Ms., UCLA.

Geniušienė, Emma. 1987. *The typology of reflexives*. New York: Mouton de Gruyter.

Harley, Heidi. 2012. External arguments and the Mirror Principle: On the distinctness of Voice and v. lingBuzz/001526.

Katada, Fusa. 1991. The LF representation of anaphors. Linguistic Inquiry 22:287--313.

Kayne, Richard. 1975. French syntax: The transformational cycle. Cambridge, MA: MIT Press.

Keenan, Edward L. 1988. On semantics and the binding theory. In *Explaining Language Universals*, ed. John Hawkins, 105–144. Oxford: Blackwell Publishing.

Legate, Julie Anne. 2003. Some interface properties of the phase. Linguistic Inquiry 34:506-515.

Lidz, Jeffrey. 1996. Dimensions of reflexivity. Doctoral Dissertation, University of Delaware.

Reinhart, Tanya, and Eric Reuland. 1993. Reflexivity. Linguistic Inquiry 24:657–720.

Safir, Kenneth. 2004. *The syntax of anaphora*. Oxford: Oxford University Press.

Sailor, Craig, and Byron Ahn. 2010. The Voices in our heads: The VoiceP in English. Presented at Morphological Voice and its Grammatical Interfaces, University of Vienna.

Sportiche, Dominique. 2010. French reflexive se: Binding and Merge locality. lingBuzz/001273.

Sportiche, Dominique. 2012. Binding domains. Presented at Berkeley Linguistics Society 38th Annual Meeting.

van Steenbergen, Marlies. 1991. Long-distance binding in Finnish. In *Long-distance anaphora*, ed. Jan Koster and Eric Reuland, chapter 11. Cambridge: Cambridge University Press.

Storoshenko, Dennis. 2009. Investigating the Shona reflexive zvi. In Selected proceedings of the 39th annual conference on African linguistics, ed. Akinloye Ojo and Lioba Moshi. Cascadilla Proceedings Project.

Timberlake, Alan. 1979. Reflexivization and the cycle in Russian. *Linguistic Inquiry* 10:109–141.

Vikner, Sten. 1985. Parameters of binder and of binding category in Danish. Working Papers in Scandinavian Syntax 23.