A Syntactic Account of Inherent Reflexives and Their Crosslinguistic Variation

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Introduction

Inherent Reflexives

- The surface subject is associated with two θ -roles.
- A reflexive anaphor ('oneself') or a reflexivizing affix ('self-') is not involved.
- (1) a. John washed the baby.
 - b. John washed.
- a. Jean lave le bébé. Jean washes the baby 'Jean washes the baby.'
 - b. Jean se lave. Jean se washes 'Jean is washing.'

(French)

The Variation

- Productivity
 - (3) a. *John loves.
 - b. *John draws.
 - (4) a. Jean s'aime.

 Jean se loves

 'Jean loves himself.'
 - b. Jean se dessine.Jean se draws'Jean draws himself.'

(French; Reinhart and Siloni 2005:410, (49a-b))

- 2 ECM reflexives
 - (5) * John considers intelligent.
 Int. 'John considers himself intelligent.'
 - (6) Jean se considère intelligent. Jean se considers intelligent 'Jean considers himself intelligent.' (French; Reinhart and Siloni 2005:394, (9b))
- 3 Dative reflexives
 - (7) * John sent a letter.

 Int. 'John sent a letter to himself.'
 - (8) Jean s'est envoyé une lettre.
 Jean se is sent a letter
 'Jean sent a letter to himself.'
 (French; Reinhart and Siloni 2005:411, (51b))

- A Reflexive nominals
 - (9) She dresses slowly because she is an elegant dresser. (Reinhart and Siloni 2005:410, (48a))
 - (10) Jean est un excellent habilleur/maquilleur.

 Jean is an excellent dresser/"makeup-er" (of others only)

 (French; Reinhart and Siloni 2005:410, (48b))

The Parametric Approach (Reinhart and Siloni 2005)

• The lex(icon)-syn(tax) parameter determines whether arity operations like reflexivization should apply in the lexicon or in the syntax.

English-Type Languages

- The lex-syn parameter is set to 'lexicon'; and so reflexivization is a lexical operation.
- When reflexivization applies in the lexicon, it targets only a subset of Agent-Theme verbs.

Analysis

- ECM reflexives → X
 A lexical operation cannot target distinct lexical items.
 [x ECM Verb [y Predicate]]
- ② Dative reflexives \rightarrow X
 Ditransitive verbs are not Agent-Theme verbs.
 [x_{Agent} Ditransitive Verb y_{Theme} z_{Goal}]
- ③ Reflexive nominals → \checkmark Reflexivization, as a lexical operation, may feed nominalization.

 Lexicon[REFLEXIVIZATION → NOMINALIZATION] ⇒ Syntax[]

French-Type Languages

- The lex-syn parameter is set to 'syntax'; and so reflexivization is a syntactic operation.
- When reflexivization applies in the syntax, its target is not limited to a subset of the Agent-Theme verbs.

Analysis

- ECM reflexives → ✓
 A syntactic operation can target distinct lexical items.
 [x ECM Verb [y Predicate]]
- **2** Dative reflexives \rightarrow \checkmark Reflexivization in the syntax is not limited to Agent-Theme verbs. [x_{Agent} Ditransitive Verb y_{Theme} z_{Goal}]
- ③ Reflexive nominals \rightarrow X
 Reflexivization, as a syntactic operation, cannot feed nominalization.

 Lexicon[NOMINALIZATION] \Rightarrow Syntax[REFLEXIVIZATION]

The Parametric Approach: Both Wrong and Superfluous

Wrong

- French, an instance of "syntax" languages, allows certain reflexive nominals.
 - (11) Pour certains hommes, le rasage est un véritable moment de détente. for some men, the shaving is a real moment of relaxation 'For some men, shaving is a real relaxing moment.' (from http://www.comptoirdelhomme.com/soins-rasage.html)
- English, an instance of "lexicon" languages, allows reflexivization of a phrase (Satoshi Tomioka, p.c.).
 - (12) a. Susan put makeup on Mary at a wedding.
 - b. Mary put makeup on at a wedding.
- Also the cases of Czech (Hron 2005), Passamaquoddy (Bruening 2006), and Greek (Papangeli 2004), which show mixed properties of "lexicon" and "syntax" languages
- Arity operations are not parameterized.



Superfluous

- Unlike ECM reflexives, the impossibility of dative reflexives in English-type languages does not follow from the lexicon-syntax distinction.
- The target arguments of dative reflexivization belong to a single lexical item, i.e.,
 a ditransitive verb. → Can be targeted by either a lexical or a syntactic operation.
 [x_{Agent} Ditransitive Verb y_{Theme} z_{Goal}]
- Hence, the assumption of Reinhart and Siloni (2005) that reflexivization targets only certain verbs when it applies in the lexicon.
- The same can be said if reflexivization applies in the syntax across languages: All
 that needs to be said is that reflexivization targets different verbs in different
 languages.
- The distinction between the lexicon and the syntax is not necessary even under Reinhart and Siloni's framework.
 - \rightarrow The lex-syn parameter is superfluous.

Conclusion: Reflexivization takes place in the syntax across languages.

Proposal

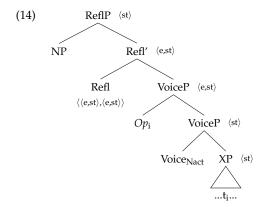
• The reflexive involves a head, *Refl(exive)*, which takes an open predicate and associates the unsaturated variable with the Agent argument that it introduces.

(13)
$$[Refl] = \lambda f_{\langle e,st \rangle} \lambda x \lambda e. f(e,x) & Agent(e,x)$$

Refl does the same work with reflexive Voice (Ahn 2015; Labelle 2008); the only
difference is that it projects its own phrase and has its own syntactic and
semantic properties.

French-Type Languages

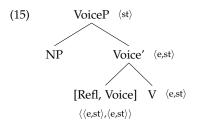
 Refl combines with nonactive VoiceP abstracted over by Op, whose head I assume here is void of any semantic content (Schäfer 2007).



- Reflexivization is productive because Refl does not look into XP; all it sees is VoiceP.
- Reflexivization can be long-distance.

English-Type Languages

 Refl does not appear on its own but is always bundled with Voice into a complex head (cf. Pylkkänen 2008).



- Voice-bundling Refl selects a predicate directly, and thus can be sensitive to the semantics of the predicate. → Not productive
- Reflexivization is local.

NEAR- vs. Pure-Reflexive Interpretations

- The reflexive in English does not allow a near-reflexive interpretation unless there is a reflexive pronoun syntactically bound by an antecedent (Jackendoff 1992).
 - (16) a. *Ringo washed at the Tussaud Museum.

 *Int. 'Ringo washed a statue of himself.'
 - b. Ringo washed himself at the Tussaud Museum. *Int.* 'Ringo washed a statue of himself.'
- The same is true for languages like Russian or Hebrew.
 - (17) * Nedavno, posetivšij muzej, Ringo pomyl-s'a. recently having.visited museum Ringo washed-REFL *Int.* 'Ringo washed a statue of himself.' (*Russian*; Reuland and Winter 2009:77, (18a))
 - (18) * Dan hitraxec. (Hebrew)
 Dan washed.REFL
 Int. 'Dan washed a statue of himself.'

- On the contrary, languages like French, Serbo-Croatian, Czech, etc. allow a near-reflexive reading in the reflexive.
 - (19) Luc a pu s'admirer au Musée Tussaud. Luc Aux can se admire at-the Museum Tussaud Int. 'Luc was able to admire a statue of himself.' (French; Labelle 2008:856, (63))
 - (20) Marko se pokrio na fotografiji.

 Marko se covered on photograph

 Int. 'Marko covered the image of himself.'

 (SC; Marelj and Reuland 2013:77, (3b))
 - (21) Ringo se začal prohlížet.
 Ringo se started view
 Int. 'Ringo started to look at a statue of himself.'
 (Czech; Reuland and Winter 2009:77, (19a))

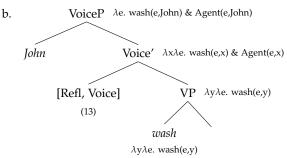
- Interestingly, Reuland and Winter (2009), adopting the parametric approach, claim that if the reflexive is formed in the lexicon (= English-type languages), it does not allow a near-reflexive meaning; while if it is formed in the syntax (= French-type languages), it does.
- If Reuland and Winter's (2009) claim is empirically correct, such a difference might come from the different strategies the two types of languages employ to 'prepare' a semantically open predicate.

- Proxy interpretation of Op
 - (22) (Context: Yesterday, Mary went to a wax museum and saw the statue of a former president. Today, John ran into the former president in the street.)
 John ran into the former president that Mary saw yesterday.
- One way to capture this phenomenon is to assume that the function of Op is to associate a variable with a function that ranges over a set of entities related to its antecedent, rather than the antecedent itself (cf. 'Near-Reflexive Function' of Labelle 2008).
 - (23) John ran into the former president $[Op_i \text{ that Mary saw } f(t_i) \text{ yesterday}]$

- Op abstracts over VoiceP in French-type languages.
 - (24) a. Jean se lave. (French)
 Jean se washes

b. Ref[P λe. wash(e,f(Jean)) & Agent(e,Jean) $\lambda x \lambda e$. wash(e,f(x)) & Agent(e,x) Jean Refl VoiceP $\lambda y \lambda e$. wash(e,f(y)) (13) Op_i VoiceP $\lambda e. \text{ wash}(e,f(t_i))$ Voice_{Nact} $\lambda e. \text{ wash(e,f(t_i))}$ se f(t_i) lave $\lambda y \lambda e$. wash(e,y)

- The unsaturated variable percolates up in English-type languages.
 - (25) a. John washed.

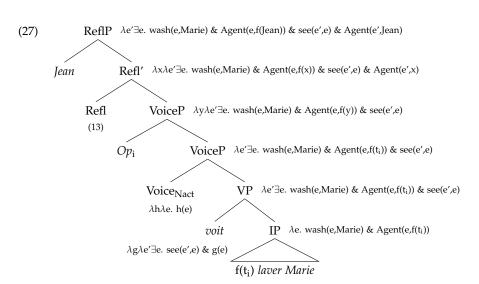


ANALYZING THE VARIATION

ECM Reflexives

French-type languages

- (26) Jean se voit laver Marie. (French; Reinhart and Siloni 2005:405, (34a)) Jean se sees wash Marie 'Jean sees himself wash Marie.'
 - Op is generated in the embedded subject position and then moves to matrix VoiceP.



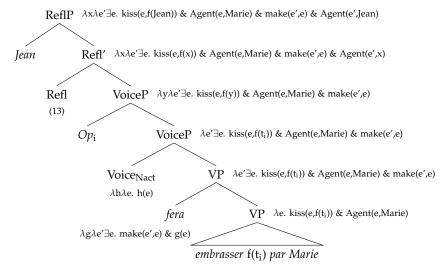
- Causative reflexives can be derived in a similar way.
 - (28) Jean se fera embrasser (par Marie).

 Jean se make.fut kiss (by Marie)

 'Jean will make himself be kissed (by Marie).'

 (*French*; Reinhart and Siloni 2005:407, fn.15, (i))
- The only difference is that Op is generated in the object position of the lower VP.





English-type languages

- (30) * John considers intelligent. Int. 'John considers himself intelligent.'
 - ECM verbs are not grooming predicates and so cannot be selected by Voice-bundling Refl.

Dative Reflexives

French-type languages

- (31) Jean s'est envoyé une lettre. (French; Reinhart and Siloni 2005:411, (51b))
 Jean se is sent a letter
 'Jean sent a letter to himself.'
 - Op is generated in the Goal argument position of a ditransitive verb.
 - (32) [$_{ReflP}$ Jean Refl [$_{VoiceP}$ Op $_{i}$ se [$_{VP/ApplP}$ envoyé une lettre f($_{i}$)]]]
 - Refl associates an unsaturated variable with Agent. → Reflexivization is subject-oriented.
 - (33) Jean s'est montré l'enfant. (Reinhart and Siloni 2005:412, (53b)) Jean sE is shown the child
 - a. Jean_i showed the child to himself_i.
 - b. * Jean showed the child_i to himself_i.

English-type languages

- (34) * John sent a letter.

 Int. 'John sent a letter to himself.'
 - Ditransitive verbs are not grooming predicates and so cannot be selected by Voice-bundling Refl.

Reflexive Nominals

- Baker and Vinokurova (2009): The agentive nominalizer like *-er* in English is a **nominal version of active Voice** that adds Agent to the structure.
 - (35) [Agentive nominalizer]] = $\lambda f \cap \lambda x$ Gen e. f(e) & Agent(e,x) (where \cap indicates the nominalization operator of Chierchia (1985) and Gen a generic operator)

- (36) a. the finder of the wallet
 - b. NP

 the N'

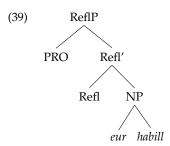
 er VP

 find PP
- (37) a. $\cap \lambda x$ Gen e. the unique x such that find(e,the wallet) & Agent(e,x)

of the wallet

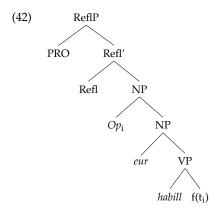
b. the unique x such that x is the kind of thing that is Agent in generically many events of finding the wallet

- (38) Jean est un excellent habilleur/maquilleur.
 Jean is an excellent dresser/"makeup-er" (of others only)
 (French; Reinhart and Siloni 2005:410, (48b))
 - Refl in French-type languages selects nonactive VoiceP, not active VoiceP.
 - Why can't it take active VoiceP? Maybe it can select at least the nominal version?



- Unlike the verbal version of active Voice, the nominal version does not project an Agent argument but contains it in itself.
 - (40) a. * the barbarians' destroyer of the city
 - b. the barbarians' destruction of the city
 - (41) a. *Richard Doll's finder of the link between cigarette smoking and lung cancer
 - b. Richard Doll's finding of the link between cigarette smoking and lung cancer
- The external variable of the agentive nominalizer can never be unsaturated. \rightarrow Cannot be taken by Refl that only selects an open predicate.

What about the following?



- Ruled out for semantic reasons
 - (43) $[ReflP] = \lambda x Gen e. dress(e,f(PRO)) & Agent(e,x) & Agent(e,PRO)$



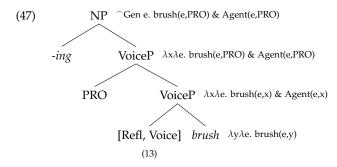
- The current view is supported by the fact that French allows reflexive 'eventive' nominals.
 - (44) a. Pour certains hommes, le rasage est un véritable moment de for some men, the shaving is a real moment of détente. (= (11)) relaxation
 'For some men, shaving is a real relaxing moment.'
 - b. Le séchage et le peignage sont facilités.
 the drying and the combing are facilitated
 'Drying and combing are facilitated.'
 (Conditioner advertisement at https://www.auberdog.com/chats/toilettage-et-shampoing-83/anju-beaute-soin-apres-shampoing-beauty-care-mask-c645)
- This can be accounted for if both reflexivization and nominalization apply in the syntax and if the agentive nominalizer is active Voice while its eventive counterpart is not.

English-type languages

- a. She dresses slowly because she is an elegant dresser. (45)(Reinhart and Siloni 2005:410, (48a))
 - b. When the brushing is finished, the braces should be shiny.
 - Refl may bundle with any type of Voice head, including nominal Voice like -er.
 - Derivation of a reflexive agentive nominal:



 Derivation of a reflexive eventive nominal (Based on Bruening 2013 with some modification):



UNACCUSATIVITY OF THE REFLEXIVE IN ROMANCE

The reflexive in Romance shows contradictory properties.

- It employs unaccusative morphology; se, si, etc.
- The surface subject behaves as if it is an external argument.

- In European Portuguese, the subject in the reflexive, unlike the subject in the unaccusative, cannot be realized as bare indefinite nouns (Alboiu, Barrie, and Frigen 2004).
 - (48) a. Caiem **rochas** da montanha. fall rocks from the mountain 'Stones are falling from the mountain.'
 - b. *Trabalham crianças. work children 'Children are working.'
 - c. *Lavam-se **crianças** na banheira.

 wash-se children in.the tub

 'Children are washing themselves in the tub.'

(European Portuguese; Alboiu, Barrie, and Frigen 2004:6, (5a-c))

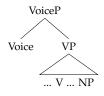
- In French, the focus particle *seul* 'only' cannot be associated only with the variable of an embedded predicate (Sportiche 2014).
 - (49) Seul Pierre se trouve intelligent. (French; Sportiche 2014:311, (14)) only Pierre se finds intelligent 'Only Pierre finds himself intelligent.'
 - a. *Possible*: Pierre is the only x such that x finds x intelligent
 - b. *Possible*: Pierre is the only x such that x finds Pierre intelligent
 - c. *Impossible*: Pierre is the only x such that Pierre finds x intelligent

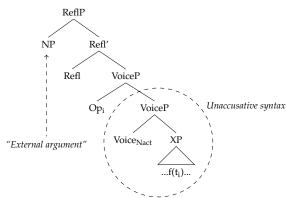
Proposal

- Unaccusative syntax is responsible for the unaccusative voice morphology (Embick 2004).
- ReflP in Romance involves unaccusative syntax, where VoiceP does not project its specifier.

Unaccusative syntax

ReflP in Romance





Conclusion

- A purely syntactic approach to reflexivization is not just possible but actually necessary to properly account for inherent reflexives and the relevant crosslinguistic variation.
- There is an independent functional head that represents the notion of reflexivity in the linguistic structures.
- The strategies of making use of this functional head in each language influences the peculiar patterns that the language shows regarding reflexivization.

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