

- a *pronominal* C is obligatorily non co-referential with the antecedent – Principle B.

5. Derivation convergence depends on anaphoric (SS) complementizers co-occurring with co-indexed arguments and pronominal (DS) complementizers co-occurring with non co-indexed arguments.

★ Empirical limitations:

- assuming switch-reference is a unified phenomenon crosslinguistically, this mechanism is not generalizable to the full range of constructions in which SR is found:

- * coordinate constructions (see Kĩsêdjê)
- * complement clauses (3)

(3) SR in complement clauses

a. Choctaw (Broadwell 2006: 271)

Lynn-at ik-ikháan-o-h [iy-aachĩ-ka-t].
 Lynn-NOM AGR-KNOW:L-NEG-TNS go-IRR-COMP-SS
 ‘Lynn does not know that she will go’

b. Chickasaw (Munro 2005:140)

Hattak-at [ihoo-at okissa’ tiwwi-to(k)-ka] nokfónkha
 man-NOM woman-NOM door open-PT-COMP.DS remembers
 ‘The man remembers that the woman opened the door.’

★ A subject that doesn’t Agree with T may still enter the SS calculation:

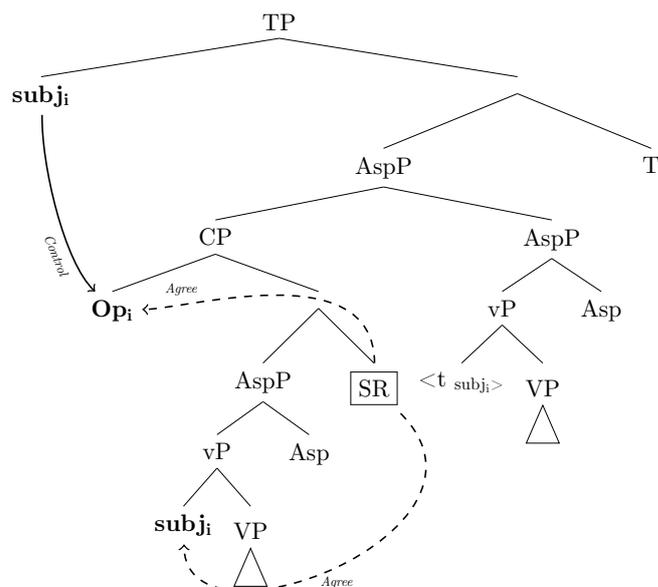
(4) Agreement/SR mismatch in Imbabura Quechua (Cole 1985):

kunan tuta **ñuka-ta** puñu-naya-n [kaya maymi trabaja-**ngapaj**] (*-chun)
 now night I-ACC sleep-DESID-3SG tomorrow a.lot work-SS DS
 ‘I’d like to sleep tonight in order to work a lot tomorrow.’

(5) No agreement in Yawanawa SR-marked clauses:

[Awĩhu=hãu yuma atxi-(*a)-(*hu)-**shũ**], *pro* pi-*(a)-*(hu)
 woman=PL.ERG fish catch-PRF-PL-SS.PRF.ERG *pro*.ERG eat-PRF-PL
 ‘After the women caught fish, they ate it.’

★ A revision to Finer’s structure that does better with respect to these issues⁴:



⁴For the full set of arguments and a detailed account of the system, see Baker & Souza in prep.

- No Complementizer binding assumed;
 - SS clauses have an Operator in Spec,CP controlled by the superordinate subject;
 - subordinate C probes its specifier and its c-c domain;
 - *Agree-link* (c.f. Arregi and Nevins 2012) between C and the nominals it finds;
 - Derivation convergence depends on SS being linked to elements with the same indices.⁵
- ★ What this revision buys us:
- No novel syntactic mechanism introduced: reminiscent of analysis of logophors (Koopman and Sportiche, 1989), allocutive agreement (Miyagawa, 2012), indexical shift (Anand and Nevins, 2004);
 - generalizable to a broader range of constructions: high and low adverbial adjuncts, complement clauses, coordinate constructions.
- ★ In what follows, I will assume this structure and ask, ‘what happens when one of these elements in the SS relation is a quantifier, as in (6)?’

- (6) [Tsua munu-shū] pro mamā aya-ma.
 INDET.HUM.NOM dance-SS.PRF.ERG pro.ERG yucca.drink drink.PRF-NEG
 ‘Nobody danced and drank caçuma (yucca drink).’

- If *tsua* is treated as an actual quantifier, the literal translation of (6) amounts to something like: *After *nobody* danced, s/he drank caçuma.
- So how can we make sure that the *pro* in (6) gets properly interpreted?
- How should we treat expressions like *tsua* in Yawanawa and how can SR help us determine it?

5 Quantification in Yawanawa

- Indeterminate pronouns – similar to quantification in Japanese (c.f. Kuroda 1965; Kratzer and Shimoyama 2002; Shimoyama 2006, a.o.).
- The interpretation of an item like *tsua* varies according to the sentential operator it associates with:
 - in (7-a), interrogative in (7-b), \exists in (7-c).

- (7) *tsua* as an indeterminate phrase
- a. Tsua u-a=**ma**.
 INDET.HUM.NOM come-PRF-NEG
 ‘Nobody came.’
 - b. Tsua u-a=**mē**?
 INDET.HUM.NOM come-PRF=INT
 ‘Who came?’
 - c. Tsua=**ra** u-a.
 INDET.HUM.NOM=EP.IGN come-PRF
 ‘Someone arrived (I don’t know who).’

- The same operator may associate with two indeterminate phrases in the same clause:

- (8) a. Tsuã tsua/awea ùi-a=**ma**
 INDET.HUM.ERG INDET.HUM.ACC/INDET.IN.ACC see-PRF-NEG
 ‘Nobody saw anyone/anything.’
- b. Tsuã tsua/awea ùi-a=**mē**?
 INDET.HUM.ERG INDET.HUM.ACCINDET.IN.ACC see-PRF=INT
 ‘Who saw who/what?’

⁵Clausal extraposition and adjunction to TP must be the last step of the syntactic derivation. This is necessary in the assumed structure because otherwise it would lead to a Principle C violation in cases where the lexical DP is in the subordinate clause. Empirical data shows that clausal extraposition is possible (see for instance, (10)), but the claim here is that it is obligatory.

- Back to the SR construction:

- Long-distance association between an operator and an indeterminate phrase;
- Indet. phrase binds *pro* in the superordinate clause.

- (9) a. [Tsua munu-shū] *pro* mamã aya-ma.
 INDET.HUM.NOM dance-SS.PRF.ERG pro.ERG yucca.drink drink.PRF-NEG
 ‘Nobody danced and drank caçuma (yucca drink).’

- Why not assume that *tsua* takes sentential scope and binds *pro* as in sentences like, ‘Nobody did his homework’?

6 Preliminaries

- ★ SR-clauses are adverbial

- SR-morpheme forms a constituent with the clause to its left;
- the order of clauses is interchangeable without affecting meaning.

- (10) SR clauses are adverbial:

- a. [Ē shanaihu-ve tsâik-**ashe**], *pro* mai kiri ka.
 1SG.NOM chief-COM speak-SS.PRF.NOM pro.NOM down river go.PRF
 ‘After I spoke with the chief, I went down river.’
- b. Ē mai kiri ka, [*pro* shanaihu-ve tsâik-**ashe**].
 1SG.NOM down river go.PRF pro.NOM chief-COM speak-SS.PRF.NOM
 ‘I went down river after I spoke with the chief.’

- ★ SR-clauses are islands

- Adverbial clauses are islands for extraction crosslinguistically (c.f. Huang 1982);
- extraction of a *wh*-element from a SR-clause is illicit in Yawanawa;
- extraction of a *wh*-element from a matrix clause (in a SR-construction) is grammatical.⁶

- (11) No extraction from the SR clause, ok from the matrix clause:

- a. *Awea=mē [Shukuvenã _ pi-**ashe**] *pro* mai kiri ka?
 INDET.IN.ACC=INT Shukuvena.ERG eat-SS.PRF.NOM pro.NOM down-river go.PRF
 ‘What did Shukuvena go down river after eating _?’
- b. Tsua=mē [*pro* yuma pi-**ashe**] _ mai kiri ka?
 .INDET.HUM.NOM=INT pro.ERG fish eat-SS.PRF.NOM down-river go.PRF
 ‘Who after eating fish went down river?’

- ★ The indeterminate phrase is *indeed* in the adverbial SR clause. Evidence from case-marking:

- the unmarked form *tsua* must be the subject of the intransitive verb *munu*, ‘dance’, in (12) (previously (9));
- had it been the subject of the transitive matrix verb, it would have received ergative case marking as in (13):

- (12) [Tsua munu-shū] *pro* mamã aya-ma.
 INDET.HUM.NOM dance-SS.PRF.ERG pro.ERG yucca.drink drink.PRF-NEG
 ‘Nobody danced and drank caçuma (yucca drink).’

- (13) Tsuã mamã aya-ma.
 INDET.HUM.ERG yucca.drink drink.PRF-NEG
 ‘Nobody drank caçuma (yucca drink).’

⁶This is expected to be ungrammatical in coordinate constructions: CSC, c.f. (Ross, 1967).

★ The assumed *pro* actually exists:

- the position may host the lexical DP, (14-b);
- *pro* agrees in case with the SS marker (as immediate superordinate subjects do in Panoan languages, c.f. Baker 2013)

- (14) a. [*pro* yuma pi-**ashe**] Shukuvena mai kiri ka.
 pro.ERG fish eat-SS.PRF.NOM Shukuvena.NOM down-river go.PRF
 ‘After eating fish, Shukuvena went down river.’
- b. [Shukuvenā yuma pi-**ashe**] *pro* mai kiri ka.
 Shukuvena.ERG fish eat-SS.PRF.NOM pro.NOM down-river go.PRF
 ‘After Shukuvena ate fish, he went down river.’

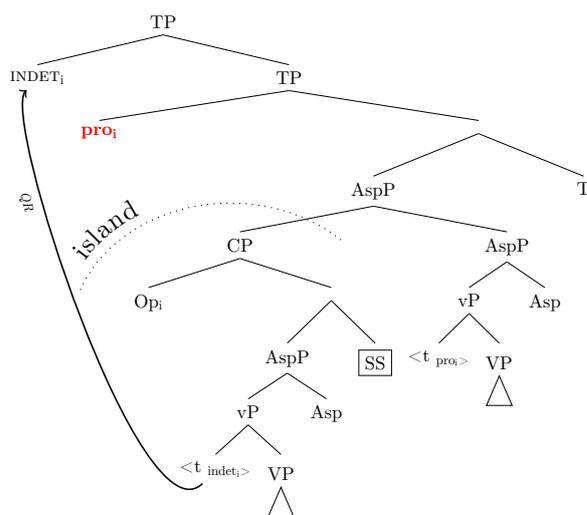
• The dilemma:

- SR clauses are islands: indet. phrases are trapped in them.
- Indet. phrases need to take sentential scope to bind *pro*.

7 A treatment of indeterminate phrases

★ Indet. phrases as quantifiers:

- islandhood violation
- crossover violation,



- (15) [**Tsua** munu-shū] **pro** mamā aya-ma.
 INDET.HUM.NOM dance-SS.PRF.ERG pro.ERG yucca.drink drink.PRF-NEG
 ‘Nobody danced and drank caiçuma (yucca drink).’

★ Indet. phrases as variables (Nishigauchi, 1990)

- Heim (1982)’s treatment of indefinites as variables: no quantificational force, receive interpretation from operators that bind them:
- indet. phrase receives interpretation in situ;
- in (15), the \neg operator binds two identical variables: $\neg \exists x$ (x a person) [dance(x) & drink(x)]
- The SS morpheme links to two variables, derivation only converges if they are identical.

- Nishigauchi, T. (1990). *Quantification in the Theory of Grammar*. Kluwer, Dordrecht.
- Ross, John Robert (1967). “Constraints on variables in Syntax”. PhD thesis. MIT.
- Shimoyama, Junko (2006). “Indeterminate phrase quantification in Japanese”. In: *Natural Language Semantics* 14, pp. 139–173.
- Valenzuela, Pilar and Antoine Guillaume (in press). “Estudios sincrónicos y diacrónicos sobre lenguas Pano y Takana: una introducción”. In: *Amerindia*.
- Watanabe, Akira (2000). “Feature copying and binding: evidence from complementizer agreement and switch reference”. In: *Syntax* 3.3, pp. 159–181.