

Some Remarks on Austronesian Clause Structure: Implications from Malagasy Control Complements

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1 Introduction: The status of the external argument

Many Austronesian languages favor just one syntactic argument (external argument, EA) in extractions and clause linkage. What is the status of this argument, and the general clausal architecture in Austronesian?

Malagasy (the external argument is underlined)

- (1) a. nivity kadoa ny zaza
bought gift DET child
'The child bought a gift.'
- b. ny zaza (izay) nivity kadoa
DET child REL bought gift
'the child that bought a gift'
- c. *ny kadoa (izay) nivity ny zaza
DET gift REL bought DET child
'(the gift that the child bought).'

Two main hypotheses concerning the status of the external argument:

SUBJECT ANALYSIS: EA is subject, occurring in an A-position

TOPIC ANALYSIS: EA is topic, occurring in an A'-position

Goal of the talk:

- present new evidence from Malagasy Control structures in support of the Topic Analysis

Outline of the talk

- overview of Malagasy structure and preliminary evidence in support of the Topic Analysis
- two Malagasy Control structures and Control as movement
- Theme Focus Control and its implications for Malagasy clause structure
- Agent Focus Control and its implications for Malagasy clause structure
- Control complement clauses in Malagasy and the Topic Analysis
- conclusions and open questions

2 Malagasy: General information

2.1 Basics of Malagasy morphosyntax

Austronesian language, spoken by about 14 million people in Madagascar
VOS word order, accusative, impoverished case marking

- (2) a. n-i-vidy ny kadoa (omaly) ny zaza (omaly)
PAST-AGENT FOCUS-buy DET gift yesterday DET child
'The child bought a gift (yesterday).'
- b. no-vid-in' ny zaza (omaly) ny kadoa (omaly)
PAST-buy-THEME FOCUS DET child yesterday DET gift
'The gift, the child bought (yesterday).'
- (‘The gift was bought by the child (yesterday).’)

all verbs show morphological tense marking;
there are no dedicated non-finite forms

Table 1. Malagasy tense prefixes

<i>past</i>	<i>presen</i> <i>t</i>	<i>future</i> <i>/irrealis</i>
n(o)	ø-/m-	h(o)-
-		

one element is the EA, which is encoded with position and verbal morphology;
the verbal voice morphology indicates the external argument

Table 2. Malagasy voice morphology

Voice	Agent focus, AF (“active”)	Theme focus, TF (“passive”)	Applied object focus, CF (“circumstantial”)
Morphologica l marking	i- an-	ø- in- toa- voa-	Active stem + suffix –an
Example: <i>vidy</i> ‘buy’	-i- vidy	- vid -in-	ividi -an-

(for details, see Keenan and Polinsky 1997)

- (3) a. Agent focus
n-i-vidy ny kadoa ho an-dreni-ny ny zaza
PAST-AF-buy DET gift for OBL-mother-3SG DET child
'The child bought a gift for his mother.'

- b. Theme focus
 no-vid-in' ny zaza ho an-dreni-ny ny kadoa
 PAST-buy-TF DET child for OBL-mother-3SG DET gift
 'The gift, the child bought for his mother.'
- c. Applied object focus
 n-ividi-an' ny zaza (ny) kadoa ny reni-ny
 PAST-buy-CF DET child DET gift DET mother-3SG
 'His mother, the child bought a gift for.'

2.2 Root clause and arguments for the Topic Analysis

Theme focus construction:

- (4) novidin' ny zaza ny kadoa
 bought.TF DET child DET gift
 'The child bought the gift.' ('The gift was bought by the child.')

Subject Analysis (Guilfoyle, Hung, and Travis 1992)

- (5) novidin' ny zaza ny kadoa
 PREDICATE SUBJECT

Topic Analysis (Pearson 2001, 2005, and others)

- (6) novidin' ny zaza ny kadoa
 PREDICATE SUBJECT TOPIC

Table 3. Differences between Subject and Topic

<i>property</i>	Subject	Topic
specificity/referentiality	✗	✓
definiteness	✗	✓/✗
mapping into focus	✓	✗

Arguments for the Topic Analysis (Keenan 1976, 1995, Manaster-Ramer 1993, Polinsky 1997, Pearson 2001, 2005)

- no existentially quantified NPs as EA
- no non-referential expressions as EA
- formal marking of definiteness on the EA
- no focus expression in the EA position

- (7) a. mihinany trondro fotsiny ilay zaza
 eat.AF [fish only] this child
 FOCUS
 'This child eats only fish.'

- b. *mihinany trondro ilay zaza fotsiny
 eat.AF fish [this child only]
 FOCUS
 ('Only this child eats fish.')

- (8) a. nohanin' ilay zaza fotsiny ny trondro
 eat.TF [this child only] DET fish
 FOCUS
 'Only this child ate fish.' (lit. 'The fish was eaten only by this child.')
- b. *nohanin' ilay zaza ny trondro fotsiny
 eat.TF' this child [DET fish only]
 FOCUS
 ('This child ate only fish.')

- reconstruction for binding (Pearson 2001, 2005)

- (9) a. nodiovin' ilay zaza_i ny tena-ny_i CONDITION A
 cleanse.TF this child DET self-3SG
 'This child cleaned himself.'
- b. nobaben' ny renin-dRaso_i izy_i CONDITION C
 carry.TF DET mother-Raso_a 3SG
 'Raso_a's mother carried her_i on the back.'

☞ Root clauses are amenable to the Topic Analysis

◇ What about more complex structures?

3 Control structures

3.1 Malagasy Control structures

Control (Equi): an interpretational dependency between two argument positions in which the referential properties of an overt one, the *controller*, determine the referential properties of a non-overt one, the *controllee*.

- (10) The farmer_i wanted Δ_i to kill the chicken
 ↑ ↑
 CONTROLLER CONTROLLEE

Previous discussions of Malagasy control constructions: Keenan 1976, 1995, Law 1995, Paul and Ranaivoson 1998, Pearson 2001, Polinsky and Potsdam 2002a, 2003, 2005

Control structures under discussion:

- (11)a. nanandrana [namono ny akoho ___i] Rabe_i AGENT FOCUS
 try.AF kill.AF DET chicken Rabe CONTROL
 ‘Rabe tried to kill the chicken.’
- b. nandraman-dRabe_i [novonoina ___i] ny akoho THEME FOCUS
 try.TF-Rabe kill.TF DET chicken CONTROL
 (lit. ‘The chicken was tried by Rabe to be killed.’)
 ‘Rabe tried to kill the chicken.’

3.2 Control as movement

Analysis of control as movement (O’Neill 1995, Hornstein 1999, 2003, and many others)

derivational analysis of control (O’Neil 1995, Hornstein 1999, 2003): the controller-controllee relationship is derived by movement of the overt DP from the controllee position to the controller position

- (12) [IP **Rabe** [VP try [IP **Rabe** [VP kill chicken]]]] MOVEMENT
- (13) [IP **Rabe** [VP try [IP **PRO** [VP kill chicken]]]] BASE-GENERATION

General arguments in favor of the movement analysis:

- theory-internal considerations (Boeckx and Hornstein 2003, 2004)
- existence of backward control (Polinsky and Potsdam 2002a, b, 2003), which is particularly problematic for the base-generation analysis
- unification of control and raising, with experimental evidence showing similar processing of control and raising structures (Walenski 2002; Featherston et al. 2000)

Malagasy-internal arguments in favor of the movement analysis:

- backward control is attested in Malagasy (Polinsky and Potsdam 2003, 2005)
- in the Theme focus control construction, PRO in the postverbal agent position is problematic for the base-generation analysis

◇ Assuming the derivational analysis of control, can Malagasy control constructions inform the choice between the Subject Analysis and Topic Analysis?

4 Theme Focus Control

- (14)a. n-andram-an-dRabe no-vono-ina ny akoho
 PAST-try-TF-Rabe PAST-kill-TF DET chicken
 (lit. ‘The chicken was tried by Rabe to be killed.’)
 ‘Rabe tried to kill the chicken.’
- b. kasa-in-dRasoa ho-sas-ana ny zaza
 intend-TF-Rasoa FUT-wash-TF DET child
 (lit. ‘The child is intended by Rasoa to be washed.’)
 ‘Rasoa intends to wash the child.’

4.1 Characteristics of TF Control

- the construction is accepted by all speakers (as widely as AF control); it involves a wide range of typical Control predicates
- the control predicate is in the Theme focus form
- the control predicate imposes selectional restrictions on its agent; evidence: imperative formation; volitionality of the agent
- the embedded predicate cannot be in the Agent focus form (appears either in the Theme focus or Circumstantial form)
- controller and controllee are both post-verbal agents (not external arguments)

- (15) n-andram-an-dRabe_k [no-vono-ina ___k] ny akoho
 PAST-try-TF-Rabe PAST-kill-TF DET chicken
 (lit. ‘The chicken was tried by Rabe to be killed.’)
 ‘Rabe tried to kill the chicken.’

- the construction is biclausal (Polinsky and Potsdam 2003, 2005); evidence: scope of negation, adverbial scope, binding; dependent rather than anaphoric tense

- (16) n-andram-an-dRabe no/ho/*Ø-vono-ina ny akoho
 PAST-try-TF-Rabe PAST/FUT/*PRES-kill-TF DET chicken
 (lit. ‘The chicken was tried to be killed by Rabe.’)
 ‘Rabe tried to kill the chicken.’
 (see Landau 2004 for the dependent vs. anaphoric tense difference)

- the external argument (theme DP) moves to the matrix clause
- (17) a. n-andram-an-dRabe [no-vono-ina ____k] ny akoho_k
 PAST-try-TF-Rabe PAST-kill-TF DET chicken
 (lit. 'The chicken was tried by Rabe to be killed.')
 'Rabe tried to kill the chicken.'
- b. ny akoho_k dia nandraman-dRabe novonoina
 DET chicken TOP tried-Rabe killed
 'The chicken, Rabe tried to kill it.'
- c. inona no nandraman-dRabe novonoina?
 what FOCUS tried-Rabe killed
 'What did Rabe try to kill?'

4.2 TF Control is Obligatory Control

Obligatory vs Non-Obligatory Control: What is the range of possible controllers available to a controllee?

- (18) a. Pat_i plans ____i*_k to sing OC
 b. Pat_i thinks that ____i, i+_k,_k to sing would be fun NOC
 c. It would ruin Pat_i's career ____i*_k to sing in public NOC

- (19) properties of OC versus NOC
- | | OC | NOC |
|--|----|-----|
| a. allows PRO _{arb} reading (no antecedent) | ✗ | ✓ |
| b. permits strict reading under ellipsis | ✗ | ✓ |
| c. paraphrasable with a pronoun | ✗ | ✓ |
| d. allows a non-local antecedent | ✗ | ✓ |
| e. allows a non-c-commanding antecedent | ✗ | ✓ |

(Landau 2000, Hornstein 2003, Jackendoff and Culicover 2003, and references therein)

Table 4. Malagasy OC/NOC diagnostics

	TF control
no antecedent, PRO _{arb} reading	✗
permits strict reading under ellipsis	✗
allows a non-local antecedent	✗
allows a non-c-commanding antecedent	✗
allows a split antecedent	✗

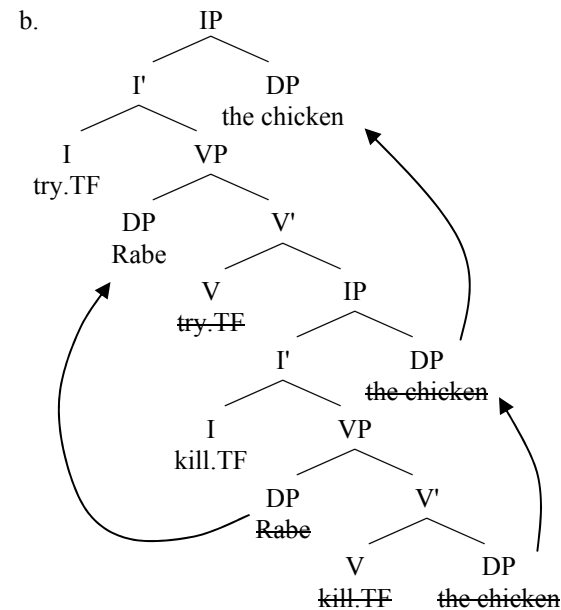
(see Appendix for the relevant data)

☞ Theme focus control instantiates Obligatory Control, therefore it should be analyzed as movement

5 Movement analysis of Theme Focus Control

5.1 The Subject Analysis: A-movement

- (20) syntactic assumptions:
- spec,VP is VP-internal agent position
 - V-to-I movement yields V+agent word order
- (21) a. n-andram-an-dRabe no-vono-ina ny akoho
 PAST-try-TF-Rabe PAST-kill-TF DET chicken
 SUBJECT
 (lit. 'The chicken was tried by Rabe to be killed.')
 'Rabe tried to kill the chicken.'



☞ The A-movement analysis for Passive Control creates two overlapping A-movement chains, violating Relativized Minimality (Rizzi 1990, 2001)

◇ What if one of the chains is not A-movement?

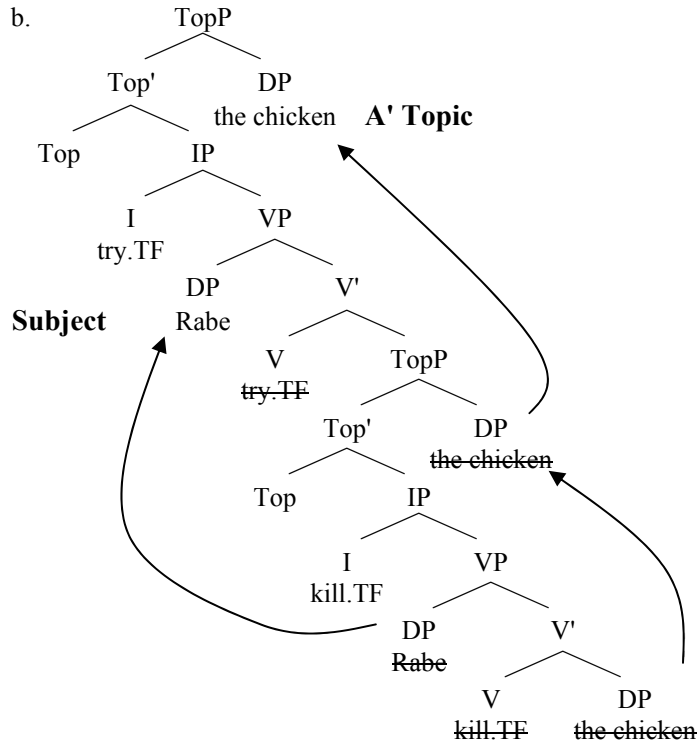
5.2 The Topic Analysis: A'-movement

Proposal: the external argument undergoes A'-movement (TF Control is Obligatory Control; Control is analyzed as movement)

(22) Topic Analysis

- a. the external argument (clause final DP) is obligatory topic (subject to A'-movement)
- b. the post-verbal DP is subject

(23)a. n-andram-an-dRabe no-vono-ina ny akoho
 PAST-try-TF-Rabe PAST-kill-TF DET chicken
 SUBJECT TOPIC
 'Rabe tried to kill the chicken.'



Advantages of the Topic Analysis:

- avoids Relativized Minimality problems
- maintains the analysis of control as A- movement and accommodates the OC characteristic of Passive Control
- ☞ Movement analysis of Control provides an additional argument for the Topic Analysis of the clause-final DP
- ◇ What about Agent Focus Control?

6 Characteristics of Agent Focus Control

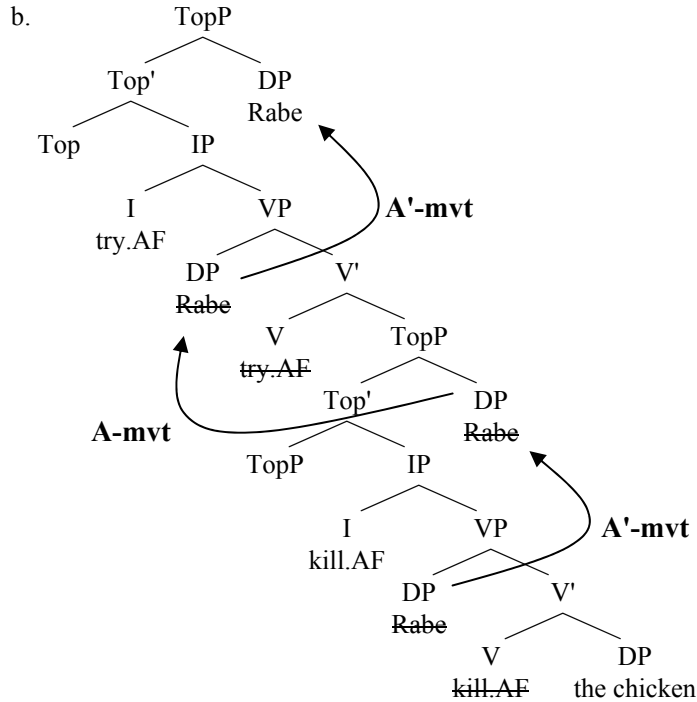
(24)a. nanandrana namono ny akoho Rabe
 try.AF kill.AF DET chicken Rabe
 'Rabe tried to kill the chicken.'
 b. manaiky hosasan-dRasoa ny zaza
 agree.AF wash.TF-Rasoa DET child
 'The child agrees to be washed by Raso.'

- the control predicate is in the Agent focus form
 - the control predicate imposes selectional restrictions on its EA; evidence: imperative formation, volitionality of the agent
 - the embedded predicate is not restricted in voice form
 - the controller and controllee are both EAs
- (25) nanandrana [namono ny akoho] **Rabe**_i
 try.AF kill.AF DET chicken Rabe
 'Rabe tried to kill the chicken.'
- the construction is biclausal (Polinsky and Potsdam 2002a); evidence: negation, adverbial scope, dependent tense
 - the construction represents Obligatory Control (see Appendix)

7 **Movement analysis of Agent Focus Control**

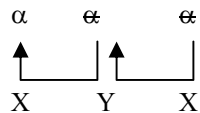
7.1 *The Topic Analysis: First try*

(26)a. nanandrana namono ny akoho Rabe
 try.AF kill.AF DET chicken Rabe
 ‘Rabe tried to kill the chicken.’



☞ The Topic analysis of Agent Focus Control involves Improper Movement (Chomsky 1981, Müller and Sternefeld 1993, and others)

(27) *Improper Movement*



where X and Y are different types of syntactic positions (A/A')

alternatives

1. Improper Movement should not be a part of the Minimalist Program (Hornstein 2001:76)
2. Improper Movement is only impossible from complement position (Hornstein 2001:113)
3. complement clause does not contain the A'-position (spec,TopP)

7.2 *Control complement is a reduced clause*

Proposal: control complements do not have an EA position

- overt EA is impossible in complement clause

(28) *mikasa [hangalatra ny toaka izy/Rasoa] ny mpianatra
 intend.AF steal.AF DET booze 3SG/Raso DET student
 ‘The student intends for Raso/her/himself to steal the booze.’

not a semantic restriction

- (29)a. mikasa ny mpianatra [fa izaho no hangalatra ny toaka] CP
 intend the student that I FOCUS steal DET booze
 ‘The student intends that I steal the booze.’
- b. mikasa ahy [hangalatra ny toaka] ny mpianatra
 intend me steal DET booze DET student
 ‘The student intends for me to steal the booze.’
- c. mikasa [ny hangalatra-ko ny toaka] ny mpianatra NOMINALIZATION
 intend DET steal-my DET booze DET student
 ‘The student intends my stealing the booze.’

- floating quantifier *daholo* ‘all’ requires an EA and is impossible in control complement clause

daholo immediately follows the predicate (VP) and can only be bound by the EA, although it does not form a constituent with it (Keenan 1995)

- (30)a. namaky boky daholo ny mpianatra
 read.AF book all DET student
 ‘The students all read the book.’
 *‘The students read all the books.’
- b. novakin’ny mpianatra daholo ny boky
 read.TF DET student all DET book
 ‘The students read all the books.’
 *‘The students all read the book.’

daholo in control clauses

- (31)a. mikasa hianatra teny anglisy daholo ny mpianatra
 intend.AF learn.AF English all DET students
 ‘The students all intend to learn English.’
 b. *nanaiky [hianatra teny anglisy daholo] ny mpianatra
 c. nanaiky [hianatra teny anglisy] daholo ny mpianatra

extraposed control complement cannot contain *daholo*

- (32)a. mikasa hianatra teny anglisy an’i Amerika daholo ny mpianatra
 intend.AF learn.AF English in America all DET students
 ‘The students all intend to learn English in America.’
 b. *mikasa ny mpianatra [hianatra teny anglisy an’i Amerika daholo]
 intend.AF DET student learn.AF English in America all
 (‘The students intend to all learn English in America.’)
 c. mikasa daholo ny mpianatra [hianatra teny anglisy an’i Amerika]
 intend.AF all DET student learn.AF English in America
 ‘The students all intend to learn English in America.’

daholo cannot be interpreted under the scope of embedded clause negation

- (33)a. nanaiky tsy hamaky ilay boky daholo ny mpianatra
 agree.AF NEG read.AF that book all DET students
 ‘The students all agreed to not read that book.’
 *‘The students agreed to not all read that book.’
 b. nanaiky [tsy hamaky ilay boky] daholo ny mpianatra
 agree.AF NEG read.AF that book all DET students
 c. *nanaiky [tsy hamaky ilay boky daholo] ny mpianatra
 agree.AF NEG read.AF that book all DET students

daholo is not licensed in SOR complement clause

- (34)a. *nanaiky anay hividy vatomamy daholo ny mamako
 agree.AF us buy.AF candy all DET mother.1SG
 (‘My mother agreed for us all to buy candy.’)
 b. nanaiky anay_i [hividy vatomamy daholo —_i] ny mamako
 agree.AF us buy.AF candy all DET mother.1SG

▪ cross-linguistic considerations

Cross-linguistically, topic positions are less available in control complements

Japanese (Kuroda 1972, and many others)

- (35) *Jiroo-ga kono-eiga-wa mi-yoo-to shi-ta
 Jiro-NOM this-movie-TOP watch-DESID-COMPL do-PAST.DECL
 ‘*Jiro tried, this movie, to watch.’
 (OK as: ‘Jiro tried to watch THIS movie.’—contrastive reading only)

French (Rizzi 1997)

- (36) ??Je pense, ton livre, pouvoir le comprendre
 I think your book be.able.INF 3SG understand.INF
 ‘*I think, your book, to be able to understand it’

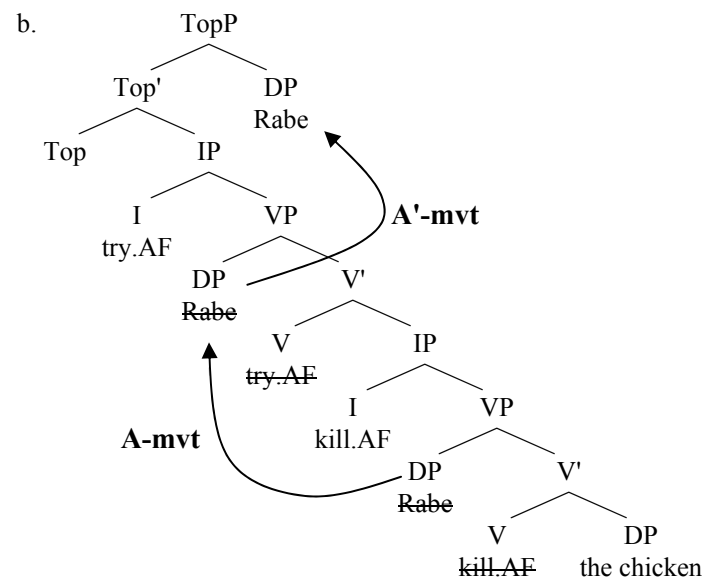
English

- (37) *I tried, this paper, to read

☞ The control complement clause does not contain an A'-position (spec,TopP)

7.3 The Topic Analysis: Second try (without embedded TopP)

- (38)a. nanandrana namono ny akoho Rabe
 try.AF kill.AF DET chicken Rabe
 ‘Rabe tried to kill the chicken’



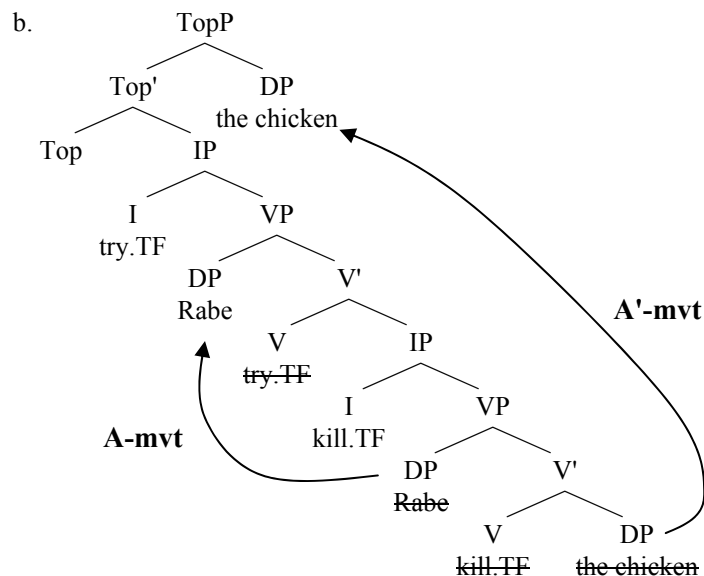
Advantages of the reduced complement Topic Analysis

- avoids improper movement
- maintains the analysis of control as movement
- accommodates the independent evidence that embedded clause does not contain a topic projection

7.4 Revisiting the movement analysis of Theme Focus Control

TF derivation also has no TopP

- (39)a. nandraman-dRabe novonoina ny akoho
 try.TF-Rabe kill.TF DET chicken
 'Rabe tried to kill the chicken.'



8 Conclusions and open questions

- The status of the Malagasy external argument (clause-final DP)
 SUBJECT ANALYSIS: EA is subject and occupies an A position
 TOPIC ANALYSIS: EA is topic and occupies an A'-position

Control structures provide evidence for the Topic Analysis

Crucial analytical assumptions:

1. control is analyzed as movement (Hornstein 1999, 2003)
2. control complements have no A'-topic position (section 7.2)

- What determines voice morphology?

PROPOSAL: Voice is determined by the argument of the verb that undergoes A'-movement

(see Pearson 2004 for an implementation of this claim in Malagasy)

PROBLEM: if a clause lacks an argument undergoing A'-movement, how is the voice in that clause determined?

- (40)a. kasain-dRasoa **hosasana** ny zaza TF Control
 intend.TF-Rasoa wash.TF DET child
 'Rasoa intends to wash the child.'
- b. *kasain-dRasoa **hanasa** ny zaza
 intend.TF-Rasoa wash.AF DET child
 'Rasoa intends to wash the child.'

- Cross-linguistically, topic positions are less available in control complements; is there a principled motivation for such reduced structure?

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Appendix: Obligatory Control properties of Agent Focus and Theme Focus Control in Malagasy

- arbitrary interpretation of missing antecedent
- (41)a. manantena hitsidika an'i Frantsa Rabe AF
 hope.AF visit.AF OBL'DET France Rabe
 *'Rabe hopes for someone to visit France.'
 OK: 'Rabe hopes to visit France.'
- b. antenain-dRabe hotsidihina i Frantsa
 hope.TF-Rabe vist.TF DET France
 *'Rabe hopes for someone to visit France.'
 OK: 'Rabe hopes to visit France.'
- strict vs. sloppy reading under ellipsis
- (42)a. mikasa hamono ny omby Rasoa. Izaho koa. AF
 intend.AF kill.AF DET cow Rasoa 1SG also
 b. kasain-dRasoa hovonoina ny omby. Izaho koa. TF
 intend.TF'Rasoa kill.TF DET cow 1SG also
 SLOPPY: 'Rasoa intends to kill the cow and I do too.'
 *STRICT: *'Rasoa intends to kill the cow and I intend for her to do so too.'
- non-local antecedent
- (43)a. mino Rasoa fa AF
 think.AF Rasoa that
 mikasa handao an'i Tana ny governemanta
 intend.AF leave.AF LOC'DET Antananarivo DET government
 b. mino Rasoa fa TF
 think.AF Rasoa that
 kasain'ny governemanta hilaozana i Tana
 intend.TF'DET government leave.TF DET Antananarivo
 'Rasoa thinks that the government intends to leave Antananarivo.'
 *'Rasoa thinks that the government intends her to leave Antananarivo.'

- non-c-commanding antecedent
- (44)a. mikasa hanambady an-dRasoa ny fianakavian-dRabe AF
 intend.AF marry.AF ACC.Rasoa DET family-Rabe
 b. kasain'ny fianakavian-dRabe hovadina i Rasoa TF
 intend.TF'DET family-Rabe marry.TF DET Rasoa
 'Rabe's family intends to marry Rasoa.'
 TF *'Rabe's family intends him to marry Rasoa.'
- split antecedent
- (45)a. araka ny reniny dia nanaiky hividy AF
 according to DET mother.his TOP agreed.AF buy.AF
 ilay trano Rabe
 this house Rabe
 b. araka ny reniny dia neken-dRabe TF
 according to DET mother.his TOP agreed.TF-Rabe
 hovidina ilay trano
 buy.TF this house
 'According to his mother, Rabe agreed to buy this house.'
 * 'According to his mother, they agreed to buy this house.'