

Yucatecan Control and Lexical Categories in SBCG

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24th International Conference on HPSG, 2017



Complement control

Definition

Complement control is a construction where the implicit subject of a given verb is determined by some other expression in the clause.

- Yucatec Maya has two complement control constructions: subjunctive control and incomplete control.

Status marking

	TRANSITIVE	INTRANSITIVE
INC	...- <i>ik</i>	...- <i>VI</i> , - \emptyset
SBJ	...- <i>ej</i> , ...- \emptyset	...- <i>Vk</i> , ...- <i>ak</i>
CPL	...- <i>aj</i>	...- <i>aj</i> , ...- \emptyset

Table: Status morphology

Exposition	Previous accounts	Formalism	Explanation	Summary
○○●○○ ○○○○○ ○	○ ○○ ○○○	○ ○○○	○○	

Complement control

Split ergativity

- (1) Ts'o'ok [in na'ak-s-ik-ech].
TERM A1SG ascend-CAUS-INC-B2SG
“I finished lifting you up.”
- (2) Ts'o'ok [in na'ak-al].
TERM A1SG ascend-INC
“I finished going up.”
- (3) Sàam [in na'ak-s-Ø-ech].
REC A1SG ascend-CAUS-SBJ-B2SG
“I lifted you up a while ago.”
- (4) Sàam [na'ak-ak-en].
REC ascend-SBJ-B1SG
“I went up a while ago.”

(AnderBois and Armstrong, ms.)



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Examples

- (5) Ki'imak in w-óol in w-il-ik-ech.
happy A1 ONGL-spirit A1 ONGL-see-INC-B2SG
“I am happy to see you.”

(AnderBois and Armstrong, ms.)

- (6) Ma' in k'áat in man-Ø le ba'al-o'ob-o'.
NEG A1 wish A1 buy-SBJ DEF thing-PL-D2.
“I don't want to buy those things.”

(Bohnemeyer, 2002)



Copy control

- (7) Pil-e' u k'àat u y-il-ej.
Felipe-D3 A3 wish A3 ONGL-see-SBJ.B3SG
"Felipe wish to see him/her/it."
- (8) *Pil-e' u k'àat in/a w-il-ej.
Felipe-D3 A3 wish A1/A2 ONGL-see-SBJ.B3SG
intended: "Felipe wants me/you to see him/her/it."
- (9) In káat káa meyaj-n-ak-ech.
A1SG wish for/that work-ANTIPASS-SBJ-B2SG
"I want you to work."

(AnderBois and Armstrong, ms.)



Government

Subjunctive controllees

Predicates taking subjunctive complements:

- ▶ *ka'ansik* “teach”
- ▶ *tuxtik* “send”
- ▶ *sajak* “fear”
- ▶ *kanik* “learn”
- ▶ *k'at* “want”
- ▶ *ojel* “know (how to)”
- ▶ motion verbs:
 - ▶ *bin* “go”
 - ▶ *jok'ok* “leave”
 - ▶ *okol* “enter”
 - ▶ *tàal* “come”

Government

Imperfective controllees

Predicates taking imperfective complements:

- ▶ *k'a'ajsik* “remind”
- ▶ *k'a'ajal* “remember”
- ▶ *tu'ubul* “forget”
- ▶ *chunsik* “begin”
- ▶ motion verbs:
 - ▶ *bin* “go”
 - ▶ *jok'ok* “leave”
 - ▶ *okol* “enter”
 - ▶ *tàal* “come”

Motion verbs semantics

- (10) Juan-e' táan u bin u t'ox-ik chu'ujuk te' mejen
 Juan-D3 PROG A3 go A3 see-INC candy to.DEF small
 paal-o'ob-o'.
 child-PL-D3

“Juan is going around passing out candy to children.”

- (11) Juan-e' táan u bin u t'ox-Ø chu'ujuk te' mejen
 Juan-D3 PROG A3 go A3 see-SBJ candy to.DEF small
 paal-o'ob-o'.
 child-PL-D3

“Juan is going (in order) to pass out candy to children.”

(AnderBois and Armstrong, ms.)



The riddle

What we expect...

- (12) J tàal-Ø-en [in na'ak-s-**ik-ech**].
 PRV come-CPL-B1SG A1SG ascend-CAUS-INC-B2SG
 “I came (while) lifting you up.” (incompletive transitive)
- (13) J tàal-Ø-en [in na'ak-**al**].
 PRV come-CPL-B1SG A1SG ascend-INC
 “I came (while) ascending.” (incompletive intransitive)
- (14) J tàal-Ø-en [in na'ak-s-Ø-**ech**].
 PRV come-CPL-B1SG A1SG ascend-CAUS-SBJ-B2SG
 “I came to lift you up.” (subjunctive transitive)
- (15) *J tàal-Ø-en [na'ak-**ak-en**].
 PRV come-CPL-B1SG ascend-SBJ-B1SG
 intended: “I came to ascend.” (subjunctive intransitive)



The riddle

... is not what we get

- (12) J tàal-Ø-en [in na'ak-s-**ik-ech**].
 PRV come-CPL-B1SG A1SG ascend-CAUS-INC-B2SG
 “I came (while) lifting you up.” (incompletive transitive)
- (13) J tàal-Ø-en [in na'ak-**al**].
 PRV come-CPL-B1SG A1SG ascend-INC
 “I came (while) ascending.” (incompletive intransitive)
- (14) J tàal-Ø-en [in na'ak-s-Ø-**ech**].
 PRV come-CPL-B1SG A1SG ascend-CAUS-SBJ-B2SG
 “I came to lift you up.” (subjunctive transitive)
- (15') J tàal-Ø-en [na'ak-**al**].
 PRV come-CPL-B1SG ascend-INC
 “I came to ascend.” (subjunctive intransitive)



Exposition ○○○○○ ○○○○○ ●	Previous accounts ○ ○○ ○○○	Formalism ○ ○○○	Explanation ○○	Summary
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Bold claims

Spoiler alert

Ahead:

- ▶ a review of previous literature, specifically AnderBois and Armstrong (ms.),
- ▶ some arguments for, some arguments against, some ruminations over the nature of nouns and verbs,
- ▶ a sketch of an SBCG account,
- ▶ an alternative story of intransitive subjunctive control's origin, where the irregularity follows a well-trodden path to disambiguation.



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Previous accounts I

- Coon (2013) argues that control in Ch'ol is nominal.

- (16) Choñkol-Ø ja'al.
 PROG-B3SG rain
 “It is raining.”
 (lit. “Rain is happening.”) Ch'ol, (A&A, ms.)
- (17) *Tàan cháak.
 PROG rain.
 intended: “It is raining.” Yucatec Maya, (A&A, ms.)

Previous accounts II

- ▶ A&A argue that control in Yucatec Maya is verbal,
 - ▶ possible exception: subjunctive intransitive control.
- ▶ A&A's arguments for the nominal nature of subjunctive intransitive controllees:
 - ▶ morphological identity with nominalizations,
 - ▶ nominalizations tend to have a looser relation with they arguments.



Morphological identity I

Active (\emptyset):

- a. Yaan k'iin-e' le áalkab- $\emptyset_{Intrans}^{Inc}$ -o' jach toop- \emptyset_{B3}
exists day-TOP DEF run-STATUS.NML-DISTAL really hard-B3sg
'Sometimes, running is very difficult.'

Nominal

- b. In k'áat áalkab- $\emptyset_{Intrans}^{Inc}$
A1sg want run-STATUS.NML

(18)

'I want to run.'

SSP_{Intrans}

Property/positional (-tal):

- a. Le polok-tal-o' k-u taas-ik- \emptyset_{B3} k'oja'an-il
DEF fat-STATUS.NML-DISTAL IMP-A3 bring-SS-B3sg sick-REL
'Becoming fat brings illness.'

Nominal

- b. Sajak-en polok-tal
afraid-B1sg fat-STATUS.NML

(19)

'I am afraid to get fat.'

SSP_{Intrans}



Morphological identity II

Celerative (*paj-al*):

- (20) a. Le t'i'it'-paj-al-o' jach talam- \emptyset _{B3}
 DEF disperse-INCH-STATUS.NML-DISTAL really difficult-B3sg
 'Dispersing is very difficult.' (e.g. a graduating group of students) **Nominal**
- b. Táan k óot-ik t'i'it'-paj-al
 PROG A1pl intend-TV.INCMPL disperse-INCH-STATUS.NML
 'We intend to break up.' **SSP_{Intrans}**

Change-of-state (-VI):

- a. tumen ts'o'ok a took-ik-en ti' le kíim-il-o', bey xan
 because TERM A2 wrest-TV.INCMPL-B1sg PREP DEF die-STATUS.NML-DISTAL as also
 ti' le líub-ul-o'
 PREP DEF fall-STATUS.NML-DISTAL
 'Because you have wrested me from death, from falling as well.' **Nominal**
- b. Sajak-en líub-ul
 afraid-B1sg fall-STATUS.NML
 'I am afraid to fall.' **SSP_{Intrans}**



Morphological identity III

Verbal noun/antipassive (VV):

- a. Le chuuy-o' jum p'éel método tu'ux k-u nuup-bes-a'al ka'a
 DEF sew.STATUS.NML-DEF one CL method where IMP-A3 pair-CAUS-PASSIVE two
 p'éel wa u je nok'-o'ob ...
 CL or A3 other cloth-PL
 'Sewing is a method where two or more cloths are joined ...' Nominal
- b. In k'áat chuuy
 A1sg want sew.STATUS.NML
 'I want to sew.' SSP_{Intrans}

(22)

(AnderBois and Armstrong, ms.)

Exposition	Previous accounts	Formalism	Explanation	Summary
○○○○○ ○○○○○ ○	○ ● ○○○	○ ○○○	○○	

Counterarguments I

- Presented nominalizations are all characterized by definite morphology, the determiner *le* and the deictic clitic *o*'.
- While not necessary, nominalization tend to gravitate to definitive morphology.

(23) ?Uts-Ø xook-Ø.
 good-B3GS study-INC/NML
 'It's good to study.' / 'Studying is good.'

(24) Uts-Ø xook-Ø-o'.
 good-B3GS study-INC/NML-D2 (AnderBois, 2017)
 'It's good to study.' / 'Studying is good.'

(AnderBois, 2017)



Counterarguments II

- (25) In k'áat meyaj-Ø.
A1 wish work-INC
“I want to work.”

(AnderBois and Armstrong, ms.)

- The same definite morphology is ungrammatical in subjunctive intransitive control.

Argument relations

- ▶ Set-A and set-B morphology, as witnessed on verbs, are elements of verbal inflection morphology, and they need not apply on nominalizations.
- ▶ Nouns tend to have a looser relation with their arguments.

Set-A and set-B

	SINGULAR	PLURAL
1ST	<i>in (w-)...</i>	<i>k ...</i> <i>in (w-)... -o'on</i>
2ND	<i>a (w-)...</i>	<i>a (w-)... -e'ex</i>
3RD	<i>u (y-)...</i>	<i>u (y-)... -o'ob</i>

Set-A morphology

	SINGULAR	PLURAL
1ST	<i>... -en</i>	<i>... -o'on</i>
2ND	<i>... -ech</i>	<i>... -e'ex</i>
3RD	<i>... -Ø</i>	<i>... -oob</i>

Set-B morphology

- Identical on nouns and verbs; the overlap is complete. Difficult to dismiss.

Counterarguments I

- Verbs inflected for status either require or forbid it; contrary to expectations, so do nouns. (Lehmann, 2002)

INALIENABLE

- (26) in tàataj
A1 father
“my father”
- (27) *in sujuy
A1 virgin
intended: “my virgin”
- (28) in k'àan
A1 hammock
“my hammock”

ALIENABLE

- (29) *татаj
father
intended: “father”
- (30) sujuy
virgin
“virgin”
- (31) k'áan
hammock
“hammock”

Counterarguments II

- Can we even tell the difference between nouns and verbs reliably?

- (32) Tàan in páan-ik-Ø.
 PROG A1SG dig.out-INC-B3SG
 “I am digging out (holes).”
 “My digging is ongoing.” (Bohnemeyer, 2002)

- (33) Uts-Ø t-in t’aan in ts’u’uts’-ik-Ø chamal.
 good-B3SG IN-A1SG speech A1SG smoke-INC-B3SG cigarette
 “I like smoking cigarettes.”
 lit. “Smoking cigarettes is good in my speech,” “to smoke
 cigarettes is good in my speech.” ? (Armstrong, 2009)

- Yes, we can, but should we? No need to postulate nominalization.

The riddle

... is not what we get

- (12) J tàal-Ø-en [in na'ak-s-**ik-ech**].
 PRV come-CPL-B1SG A1SG ascend-CAUS-INC-B2SG
 “I came (while) lifting you up.” (incompletive transitive)
- (13) J tàal-Ø-en [in na'ak-**al**].
 PRV come-CPL-B1SG A1SG ascend-INC
 “I came (while) ascending.” (incompletive intransitive)
- (14) J tàal-Ø-en [in na'ak-s-Ø-**ech**].
 PRV come-CPL-B1SG A1SG ascend-CAUS-SBJ-B2SG
 “I came to lift you up.” (subjunctive transitive)
- (15') J tàal-Ø-en [na'ak-**al**].
 PRV come-CPL-B1SG ascend-INC
 “I came to ascend.” (subjunctive intransitive)



Set-A syntax I

- ▶ Intransitive subjunctives cross-reference their only argument with set-B; importantly: no set-A.

	INCOMPLETEIVE	SUBJUNCTIVE
TRANSITIVE	✓	✓
INTRANSITIVE	✓	✗

Table: Set-A?

- ▶ Possibly control demands set-A:

$$\textit{control-lexeme} \Rightarrow \left[\text{SYN} \left[\text{ARG-ST} \left\langle \dots / \text{VP} \left[\text{AGR-A} \quad \textit{agr-cat} \right] \right\rangle \right] \right]$$

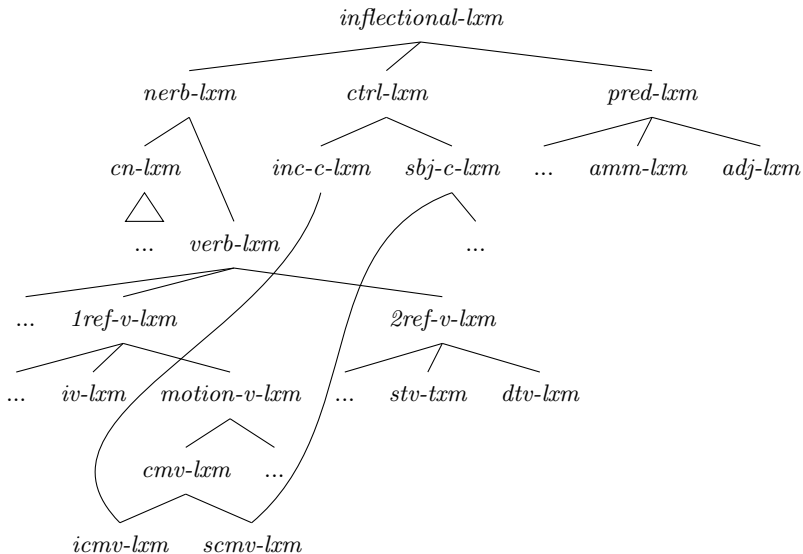
Set-A syntax II

- (15') J tàal-Ø-en [na'ak-al].
 PRV come-CPL-B1SG ascend-INC
 “I came to ascend.”
 #“I came (for somebody else) to ascend.”
- (34) In k'áat xook-Ø.
 A1SG wish study-INC
 “I want to study.”
 #“I want studying.”
 #“I want studying to occur.”

(AnderBois and Armstrong, ms.)



Formalism



Formalism I

- Incompletive controllees work just as expected.

$$\textit{incompletive-control-lexeme} \Rightarrow \left[\text{SYN} \left[\text{AGR-ST} \left\langle \dots \left[\text{STATUS} \quad \textit{inc} \right] \right\rangle \right] \right]$$

- But subjunctive controllees misbehave.

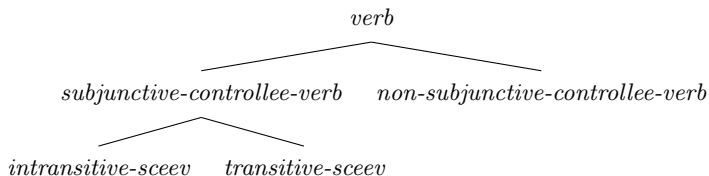


Figure: *verb* hierarchy

Formalism II

$$\textit{transitive-subjunctive-controllee-verb} \Rightarrow \left[\text{CAT} \left[\begin{array}{ll} \text{SET-A} & + \\ \text{AGR-B} & \textit{agr-cat} \\ \text{STATUS} & \textit{sbj} \end{array} \right] \right]$$

$$\textit{intransitive-subjunctive-controllee-verb} \Rightarrow \left[\text{CAT} \left[\begin{array}{ll} \text{SET-A} & 0 \\ \text{AGR-B} & \textit{none} \\ \text{STATUS} & \textit{inc} \end{array} \right] \right]$$

- An example maximal node...

$$\textit{control-motion-verb-lexeme} \Rightarrow \left[\text{SYN} \left[\text{ARG-ST} \left\langle \left[\text{AGR-B} \quad \boxed{1} \right], \left[\text{AGR-A} \quad \boxed{1} \right] \right\rangle \right] \right]$$

- ... and a lexical entry: $\left[\begin{array}{l} \textit{cmv-lxm} \\ \text{form} \quad \langle \textit{t\`a} \textit{al} \rangle \end{array} \right]$

Why not just have the set-A morpheme?

- (34) In k'áat in xook-Ø.
A1SG wish A1 study-INC
“I want to study.”

(AnderBois and Armstrong, ms.)

- Set-A missing in agent focus constructions:

- (35) Leti' jats'-ik-en.
he beat-INC-B1SG
“It is he who beats me.”

(Bohnemeyer, 2002)

- Unlike in non-agent focus constructions:

- (36) Leti' k-in jats'-ik-Ø.
he IMPV-A1 beat-INC-B3SG
“It is he whom I beat.”

(Bohnemeyer, 2002)



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A wild speculation

- ▶ Agent focus has been described as a disambiguating mechanism
- ▶ Subjunctive control shares with agent focus the purging of set-A morphology in non-head daughters.
- ▶ Subjunctive control disambiguates.
- ▶ A formal characteristic possibly paving the way for other functionally similar ones?

Summary

- ▶ The paradigm-defying **intransitive subjunctive control** construction presents us with a riddle.
- ▶ A **nominalization account** does not give us satisfying answers.
- ▶ The phenomenon can be easily accounted for in **SBCG**.
- ▶ The answer to intransitive subjunctive control's nature might lie in **disambiguation**.



For further reading

Scott AnderBois and Grant Armstrong. *On a transitivity-based split in Yucatec Maya control*. Brown University and University of Wisconsin, ms.

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