Typology, complexity and subordination in Korlai Indo-Portuguese

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Focus of the Presentation

Syntactic and semantic issues in two kinds of subordinate clauses in Korlai Indo-Portuguese (henceforth Korlai):

- finite complement clauses
- finite 'when' adverbial clauses

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Rationale

• The reason for focusing on these two kinds is that they both are marked with *ki*, as well as with other markers (also with zero).

• Other coordinate/subordinate clauses (e.g. relative, purpose, 'what' complement clauses, 'or' coordinate clauses marked only by *ki*) are not discussed in any detail.

The goals of the Presentation

• to describe Korlai finite complement and 'when' adverbial clauses from a comparative perspective, and

• to offer an account for why they are marked as they are.

Markers to be Discussed

- Korlai subordinators *ki*, in two functions: as a complementizer (COMP) and as a temporal ('when') conjunction.
- Korlai subordinators that overlap functionally with COMP ki, namely, puris 'COMP', or that co-occur with ki, as in the case kor ki '[irrealis] when'.

Complement Clauses in Question

El haló (<u>ki</u>) eló la vi amya (<u>purís</u>)
3SG said COMP 3PL FUTcometomorrow COMP

'S/he said (that) they would come tomorrow.'

'when' Subordinate Clauses in Question

Teru kadz ki jave no ti kumen.

Teru house when came 1PL PST eating

'When Teru got to the house, we were eating.'

Teru kadz <u>kər-ki</u> lə vi nə lə kume.

Teru house when.IRREALIS-SUB FUT come 1PL FUT eat

'When Teru comes, we will eat.'

*Teru kadz <u>kər</u> jave nə ti kumen.

*Teru kadz kər lə vi nə lə kume.

*Teru kadz <u>ki</u> lə vi nə lə kume.

Introduction Other Korlai Clauses marked with *ki*

Relative (subordinate) ki:

man yesterday REL came our brother be.PRS 'The man who came yesterday is our brother.'

Complement marker (subordinate) ki 'what':

ki la hika kε̃ sab.

what FUT happen ('become') who know

'Who knows what will happen.'

Other Korlai Clauses marked with ki

3. Purpose clause (subordinate) ki:

Lwidz jave 5nt kader ki konsárta.

Lwidz came yesterday chair COMP repair

'Lwidz came to repair yesterday.'

4. Coordinate conjunction <u>ki</u> 'or':

use la vi na kosid ki nãw? you.FORM FUT come 1PL with or NEG 'Will you come with us or not?

Hypothesis 1

- The double-headed COMP SUBORD 'when' clauses have developed due to an analogical extension across languages (Marathi to Korlai) in a bilingual situation.
- Analogical extensions are cognitive processes, and depend upon the recognition of similarity between two or more items, classes or constructions (Fischer 2013, Harris and Campbell 1995, ch3).
- It is one mechanism of syntactic change that works across phrases, extending a form from one syntactic environment to another (De Smet, 2009).

Hypothesis 1 (cont.)

- The Korlai constructions COMP [_S ____] COMP and [_S ____] COMP, and the 'when' SUBORD [_S ____] 'then' SUBORD are best accounted for by appealing to the process of analogical extension.
- The Marathi co-relative construction in the 'when' and 'if' subordinate clauses is extended, with changes, to Korlai's most commonly used subordination construction (COMP), and to the irrealis 'when' clauses (beginning stages).

Hypothesis 2

- The realis and irrealis distinction in Korlai 'when' subordinate clauses could possibly be the result of disambiguation.
- The details of this process have not been worked out.
- There may be other more compelling hypotheses.

Outline of the Talk

- 1. Typological considerations for complement and temporal adverbial clauses
- 2. Complexity considerations: paradigmatic vs. syntagmatic complexity (Good 2012)
- 3. Korlai Clauses in question from a comparative perspective
- 4. Analogical extension and Disambiguation as accounts for Korlai's innovations in subordinate clause structures.
- 5. Conclusions

Diessel (2001) defines the subordinate clauses types examined in this talk as follows:

	COMP-clause	ADV-clause
SYNTAX	complement (argument)	adjunct
SEMANTICS	modifier of complement- taking predicate (CTP)	modifier of S/VP
MARKING	zero or complementizer	adverbial subordinator

Complement Clauses (e.g. John said that he was tall)

- In VO languages, complement clauses consistently follow the main-clause predicate and have clause-initial markers.
- In OV languages, although complement clauses occur before and after the main-clause predicate, they are overall more commonly found after the verbal head (Kuno 1974), Hawkins 1988, Dryer 1992 and Diessel 2001), and the complementizer tends to be clause-initial.

Temporal Subordinate Clauses

(e.g. John arrived when we were eating.)

- In VO languages, temporal subordinate clauses occur before and after the verbal head and have a clause-initial subordinator.
- In OV languages, temporal subordinate clauses tend to precede main clause/predicate and have a clause-final subordinator.

Expectation

- Korlai should place its complement clauses after the main clause and have clause-initial complementizers.
- As a recently evolved OV language, Korlai should tend to favor preplacement of its 'when' adverbial clauses relative to the main clause, though both orders should be allowed.

	<u>Portuguese</u>	<u>Marathi</u>	<u>Korlai</u>
Word Order	VO	OV	VO=>OV
V-ComplClause Ord	. V-Comple.	V-Comple.	V-Comple.
COMP Order	Clause-Initial	Clause-Initial	Clause-Initial &
			Clause-final
Pred-ADV Order	Both	Both	Adv-Pred
Subord. Order	Clause-initial	Clause-initial	Preverbal
		&Clause-final	

T/ 0-10:

	Portuguese	<u>Marathi</u>	<u>Korlai</u>
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COMP Order	Clause-Initial	Clause-Initial	Clause-Initial &
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		&Clause-final	
		'	

Complexity

Complexity

Good's (2012) finding: languages that form from a jargon phase display less paradigmatic complexity (e.g. undergo paradigm reduction) relative to the lexifier and substrate languages, but not less syntagmatic complexity.

Complexity Expectation

Korlai should display **no** reduction in complexity because in subordination strategies because these occur on the syntagmatic axis, not on the paradigmatic axis.

Complementizers in Korlai

(compared to COMPs in lexifier and sub-/adstrate languages)

- Portuguese: MC que [s____]
- Marathi MC ki [S____] MC Ø [S____]
- Korlai MC Ø [_S___]
 MC ki [_S___]
 MC ki [_S___] purís
 MC [_S___] purís

• <u>Portuguese</u> had and has clause-initial heads in complementizer clauses, as well as in other subordinate clauses.

[S Matrix Clause [CPCOMP [S subordinate clause]]]

1. [S] Creio ... [CP] que [S] a principal causa destas cousas nacia do conhecimento que ja deles haviam ...]]]

'I believe that the main cause of these things came from the knowledge that they already had of them.'

(from a chronicle by Zurara [1410-1474])

• Marathi had and has only clause-initial heads in complementizer clauses. (NOTE: in other types of subordinate clauses, it has both both clause-initial and clause final heads.

[Matrix Clause [COMP [subordinate clause]]]

2. [Mohan mhənala [(ki) [Mədhu Dillila gela.]]]
'Mohan said (that) Madhu went to Dehli.'

(adapted from Pandharipande 1997:65)

• **Korlai**, unlike both Portuguese and Marathi, has **three ways** to overtly mark a complement clause, and one headless option.

```
[S] Matrix Clause [S] [S] subordinate clause [S]
```

[S Matrix Clause CP COMP [S subordinate clause]]

[S Matrix Clause CP COMP Subordinate clause COMP]]

[S Matrix Clause CP Subordinate clause] COMP

Headless COMP clause:

```
3a. [El halo [\overline{\Omega} [el-o lə vi amya.]]]
3SG say-PST 3-PL FUT come tomorrow
'S/he said they would come tomorrow.'
```

Clause-initial COMP:

```
3b. [El halo [ki [el-o lə vi amya.]]]
3SG say-PST COMP 3-PL FUT come tomorrow
'S/he said they will/would come tomorrow.'
```

Clause-initial with clause-final COMPs:

3c.[El halo [ki [el-o lə vi amya] purís]]
3SG say-PST COMP 3-PL FUT come tomorrow COMP
'S/he said they will/would come tomorrow.'

Clause-final COMP:

```
3d.[Elhalo [\overline{\Omega} [el-o lə vi amya] \overline{\overline{\Omega}} \overline{\Omega} \overli
```

Section Summary

- Portuguese and Marathi main-subordinate clause orders, and complementizer order within the subordinate clause, are in line with what is typologically expected.
- While the order of MC-SC in Korlai is typologically expected, the manner in which complement clauses are marked (clause-initially and clause-finally) represents a complexification in the subordination system.

Section Summary

(continued)

• To understand where this double marking may come from, we need to look at Marathi 'when' subordinate clauses, as well as other subordinate clause types.

'when' Adverbial Clauses in Korlai

(compared to comparable structures in lexifier and sub-/adstrate languages)

- Portuguese: quando [s___] MC MC quando [s___]
- Marathi: $dz\tilde{e}mwha$ [$_S$ ___] $t\tilde{e}mwha$ MC MC $dz\tilde{e}mwha$ [$_S$ ___] $[_S$ ___] $t\tilde{e}mwha$ MC
- Korlai [CP XP ki [VP]] MC (realis) [CP XP kɔr ki [VP]] MC (irrealis)

• <u>Portuguese</u> had and has clause-initial heads in 'when' adverbial clauses. The 'when' clause can appear before or after the matrix clause.

```
[S Matrix Clause [CP 'when' [S ____]]] [S [CP 'when' [S ___]] Matrix Clause]]
```

- 4a. $[S_{CP}]$ quando $[S_{S}]$ os das caravelas viram palmeiras y árvores altas] bem conheceram que eram perto do rio do Nilo.]]
- 4b. [S] Bem conheceram que eram perto do rio do Nilo [CP] quando [S] os das caravelas viram palmeiras y árvores altas]

'When the ones from the ships saw palm trees and other tall trees, they knew well that they were near the Nile River.'

taken and adapted from a chronicle by Zurara [1410-1474])

• Marathi places 'when' adverbial clauses before (5a) and after (5b) the matrix clause. Moreover, it has a co-relative construction (5a), both elements of which can appear alone.

```
5a. dxēmwha ti anəndi aste (tēmwha) ti gate.
'when she happy is then she sings
5b. Ti gate dxēmwha ti anəndi aste.
she sings when she happy is
5c. Ti anəndi aste, tēmwha gate.
she happy is then sings
'When she's happy, she sings.' (with relevant permutations)
```

(adapted from Pandharipande 1997:104-105)

Korlai, unlike Marathi and Portuguese, displays three innovations:

- 1. It only allows subordinate clause-matrix clause order.
- 2. Its subordinators must occur in immediate pre-VP position.
- 3. It has two subordinators: one used in realis contexts, the other used in irrealis contexts.

Realis context:

```
6a. [[Teru kadz [ki jave]] [nɔ ti kumen.]]

Teru house 'when' came 1PL PST eating

'When Teru came, we were eating.'
```

Irrealis context:

```
6b. [[Teru kadz [kər ki [lə vi]]]]

Teru house 'when-IRR SUB FUT come
```

```
[[ (atodz) no lo kume.]]
then 1PL FUT eat
'When Teru comes, we will eat.'
```

Section Summary

Typologically:

- the flexibility of Portuguese clause order (MC-SC and SC-MC) is expected.
- Marathi's clause order flexibility (both MC-SC and SC-MC) runs counter to the default expectation for OV languages to allow only SC-MC order.
- Korlai's sole ordering (SC-MC) option matches the default expectation of OV languages. However, the immediate pre-VP subordinator slot and the realis-irrealis distinction coded in the subordinators represent innovations that complexify 'when' clause subordination and are unexpected. Also unexpected is the optional double SUBORD structure, only found in irrealis contexts

Section Summary

(continued)

- Although the Marathi co-relative construction is typologically not expected or predicted, it is nevertheless found as a major subordination construction in Marathi and in other Indo-Aryan languages.
- It may be the model for the double COMP and SUBORD constructions found in Korlai.

A (Brief) Analogical Account of Korlai's Double COMP and Double SUBORD Constructions

Hypothesis 1

- The double-headed COMP and SUBOR 'when' clauses have developed due to an analogical extension across languages (Marathi to Korlai) in a bilingual situation.
- Analogical extension, a cognitive process, is based on the recognition of similarity between two or more items, classes or constructions (Fischer 2013, Harris and Campbell 1995, ch3).
- It is one mechanism of syntactic change that works across phrases, extending a form from one syntactic environment to another (De Smet, 2009).

In the corpora consulted French, English, Spanish, Portuguese, looking at 3 subordinate constructions, the ordering from the most common to least common are:

```
COMP [<sub>S</sub>____]

'when' [<sub>S</sub>___]

'if' [<sub>S</sub>___]
```

In Marathi, the 4 most frequently occurring subordinate constructions seem to be:

```
COMP [<sub>S</sub>____]

[<sub>S</sub>___] QUOT

'when' [<sub>S</sub>___] ('then')

'if' [<sub>S</sub>___] ('so')
```

In the Korlai corpus, the 4 most frequently occurring subordinate constructions, in order, are:

```
COMP [<sub>S</sub>____]

[<sub>S</sub>___] QUOT

[<sub>CP</sub> XP 'when' [<sub>VP</sub>___]] (atodz 'then')

[<sub>CP</sub> XP 'if' [<sub>VP</sub>___]] 'so' (M tər)
```

- the Marathi co-relative construction is found in frequently used subordinate clauses, most notably the 'when' (*dzēmwha-tēmwha*) and 'if' (*dzər-tər*) subordinate clauses.
- It is reasonable to speculate that the most frequently occurring subordinate construction (the COMP construction) in Korlai is modeled on the Marathi co-relative constructions, using the grammaticalized *purís* (< Ptg. *por isso* 'because of that').

- It is reasonable to speculate that the Korlai double SUBORD 'when' clauses are also modeled on the Marathi co-relative clause construction found in the same type of temporal subordinate clause.
- Of note, however, is that *atodz* is not grammaticalized to the extent that it is only a subordinator. It is still productively used as a temporal adverb.

Disambiguation

'when'-irrealis (subordinate) <u>kər-ki</u>:

om amya <u>kər-ki</u> lə vi nə lə ti kume.

man tomorr. 'when' FUT come 1PL FUT eating

'When the man comes tomorrow, we were eating.'

Relative (subordinate) ki:

om amya <u>ki</u> lə vi nɔ irmãw tε man tomorr. REL FUT come 1PLbrother be.PRS 'The man who'll come tomorrow is our brother.'

Disambiguation

'when'-realis (subordinate) ki:

man yesterday 'when' came 1PL PST eating 'When the man came yesterday, we were eating.'

Relative (subordinate) ki:

man yesterday REL came our brother be.PRS
 'The man who came yesterday is our brother.'

Disambiguation

'when'-<u>irrealis</u> (subordinate) <u>kər-ki</u>: *om amya <u>kər-ki</u> lə vi nə lə ti kume*.

man tomorr. 'when' FUT come 1PL FUT eating

'When the man comes tomorrow, we were eating.'

Interrogative (matrix clause) <u>kər</u>:

om amya <u>kər</u> lə vi?

man tomorrow when FUT come

'When will the man come tomorrow?'

Some Conclusions

- Typologically, Korlai displays structures and orders not expected but are not counterexamples to typological predictions.
- In terms of complexity, if we follow Good's generalization that creoles should not display a decrease in syntagmatic complexity, this is borne out.
- Good's generalization does not predict anything about why Korlai displays an increase in syntagmatic complexity.

• The developments seem to be contact induced (subordination markers) or language internal (subordinate clause structures and double subordinators).

• The details of why double subordination in Korlai exists seems clear (analogical extension) though some of the detail still needs to be worked out.

- The details regarding the development of the subordinate 'when' realis-irrealis distinction are far from clear.
- Appealing to disambiguity does not account for much, if anything
- In future research, there is a pressing need to include the many non-finite clause options for expressing 'when' subordinate clauses in order to see how these may shed light on the development of the 'realis-irrealis' distinction.

• Example: in present habitual contexts, finite 'when' clauses are rare or non-existent, or expressed with 'if'.

'when it rains, I stay at home'

chu shi kaiu, yo kadz mɛ t'hika. rain when fell I house EMPH PRS stay

chu kain, yo kadz t' hika rain falling I house PRS stay

Final comment: there is still a lot of work to be done on this topic!

Mətfa, Bom!

Thank you!