Clause chaining and switch-reference in Aikana and Kwaza

Encadeamento de cláusulas e referência alternada em Aikanã e Kwazá

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Abstract: In Aikanã and Kwaza, neighbouring endangered isolate languages of Rondônia, Brazil, sentences can include chains of medial clauses and end with a predicate in a matrix sentence mood, such as declarative, interrogative etc. In Kwaza, traditional narratives may even consist of a single long string of medial clauses, terminated by a fixed formula in the declarative mood. In both languages, subject (dis)continuity is expressed by a switch-reference system that indicates on the predicate of the current clause whether the subject of the next clause will be different or not. In this descriptive article I present similarities and differences between the systems of switch-reference in Aikanã and Kwaza. Among the differences, I discuss cases of formally marked switch-reference that appears to express topic discontinuity rather than subject discontinuity, in Kwaza. Also, I analyse the unusual anticipatory nature of the Kwaza system. As a special feature of this article I include two versions of a traditional mythological narrative, originally told in Aikanã and later retold in Kwaza, to illustrate clause chaining and switch-reference through a coherent and culturally relevant text.

Keywords: Clause chaining. Switch-reference. Aikanã. Kwaza.

Resumo: Em Aikanã e Kwazá, línguas isoladas vizinhas em risco de extinção, faladas em Rondônia, Brasil, as orações podem conter cadeias de cláusulas mediais que terminam com um predicado em um modo da oração matriz, como declarativo, interrogativo etc. Em Kwazá, narrativas tradicionais podem consistir em uma unica sequência comprida de orações mediais, terminada por uma expressão formuláico no modo declarativo. Em ambas as línguas, a (des)continuidade do sujeito é expressa por um sistema de referência alternada, que indica no predicado da oração atual se o sujeito da oração seguinte será diferente. Neste artigo descritivo, apresento o mecanismo de referência alternada em Aikanã e Kwazá. Entre as diferenças, discuto casos de referência trocada, a qual parece expressar descontinuidade de tópico em vez de descontinuidade de sujeito, em Kwazá. Além disso, analiso a natureza antecipatória do sistema Kwazá. Como recurso especial deste artigo, incluo duas versões de uma narrativa mitológica tradicional, originalmente contada em Aikanã e posteriormente recontada em Kwazá, como ilustração de encadeamento de cláusulas e referência alternada, por meio de um texto coerente e culturalmente relevante.

Palavras-chave: Encadeamento de cláusulas. Referência alternada. Aikanã. Kwazá.

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"Watch the muscles twitch for a brand new switch..." (Sioux, 1978)

INTRODUCTION

Aikanã and Kwaza are two neighbouring isolate languages of southeastern Rondônia, Brazil, spoken by the Aikanã and Kwaza ethnic groups. Estimated in approximate figures, the Aikanã language has 250 speakers on a population of 400 and the Kwaza language has 25 speakers on a population of 45. Originally, the Aikanã and Kwaza inhabited adjacent territories and were neighbours to other indigenous groups, such as the Kanoé (isolate), Kepkiriwat (extinct Tupian, Tupari), Salamãy (Tupian, Mondé), and different "Mekens" (Tupian, Tupari) subgroups. They shared important aspects of culture, and traditional multilingualism must have led to diffusion of linguistic traits. First contacts with western culture probably occurred around the start of the 20th century, and brought diseases, violence and diaspora upon the indigenous peoples of the region. In the course of the second half of the 20th century, a big part of Rondônia was deforested and indigenous reserves were demarcated for what had remained of the indigenous groups. Nowadays, the Aikanã and Kwaza share two indigenous reserves, in both of which the Kwaza speakers form a minority. One of the reserves is also shared with speakers of the Latundê (Nambikwaran) language and with descendants of the Sabanê (Nambikwaran), Kanoé, and Salamãy ethnic groups.

The Aikanã language has been studied by linguists since the 1980s, and has been partially described by Hinton (1993), Vasconcelos (2002), Silva (2012), van der Voort & Birchall (in press) and several articles by van der Voort. The Kwaza language has been studied since the 1990s, and has been described by van der Voort (2004) in an extensive monograph and several articles. Both languages are genealogical isolates, as is evidenced by their lexical and grammatical properties. Nevertheless, when painted with a broad brush, they are typologically rather similar, both being polysynthetic, morphologically very complex suffixing languages. They furthermore share some rather specific grammatical traits with each other and with certain neighbouring languages, which may be due to many centuries of language contact. One of those traits concerns switch-reference systems.

Clause chaining refers, roughly speaking, to the possibility in many languages to express simultaneity or consecutivity of events, and explanations of purpose, causation, reason, etc., in the form of chains of subordinate dependent clauses (instead of allowing coordination of full sentences, as in English). Some languages have initial-consecutive chaining structures, in which the initial clause represents the main clause, whereas other languages have medial-final chaining, in which the final clause represents the main clause. Often, dependent clauses are limited with regard to certain inflectional or derivational possibilities. A rich body of literature exists on clause chaining. A useful overview is Longacre (2007 [1985]) and an important recent collection of articles on different kinds of clause linkage is Bril (2010).

The term switch-reference, which was coined by Jacobsen (1967), refers broadly speaking to the phenomenon that languages may indicate by grammatical marking whether the subject or agent of a subordinate clause is identical with or different from the subject or agent of the main clause. In languages that allow clause chaining, 'same subject' and 'different subject' marking may occur repeatedly throughout the chain. Switch-reference is sometimes also put to pragmatic uses. In that case, the 'different subject' marker does not necessarily indicate a different subject, but a conspicuously different topic or different event. Switch-reference systems have been described for many languages in different parts of the world, and are especially well-known for languages of New Guinea, Australia and the Americas. Languages with medial clause chaining and switch-reference systems tend to be suffixing, head-marking, pro-drop

languages and tend to display Subject-Object-Verb clause constituent order (Stirling, 2005). Important collections of articles on switch-reference systems in diverse languages are Haiman & Munro (1983) and Gijn & Hammond (2016).

In the following subsections I will describe and illustrate the switch-reference systems and clause chaining properties of Aikanã and Kwaza. In the concluding section, I will discuss the similarities and differences between these systems. The linguistic data are from my personal fieldwork with native speakers from 1995 to 2021.

COMPLEX SENTENCES AND SWITCH-REFERENCE IN AIKANÃ

A complete sentence in Aikanã consists minimally of a verb root, inflectional person marking and inflectional mood marking. Other morphology is derivational and can be optionally inserted between the verb root and inflectional morphemes. It includes classifiers, directionals, valency morphemes, aspect and modality morphemes. Non-future tense is unmarked, whereas future tense has both derivational and inflectional properties, involving recursion of person marking (Voort, 2013, 2016). Person markers are usually suffixes, but there is a limited set of verbs that may occur with an alternative prefix paradigm. In addition to paradigms for canonical subject marking there are paradigms for causative, reflexive, patientive and beneficiary arguments (e.g., Voort, 2013; Voort & Birchall, in press). Mood markers are verb final, and include declarative, interrogative, imperative and several other matrix sentence moods. In addition, Aikanã has a small set of mood markers used for adverbial subordinate clauses: conditional, concessive, and reason.

Adverbial clauses tend to precede the main clause, and together they form a complex sentence, as the following conditional (1) and concessive (2) examples illustrate:

- (1) uru-i-ʻa-nake atuwe h̃eh̃e-ʻi ware-yū̃-ʻeye-ʻé
 sing-NMLZ-3SG.REFL-COND elder angry-NMLZ go-DIR:close-3PL.PAT-DECL
 'Always if one would organise a party, the old-timers would go there.'
- (2) hisa hideka-a-dupa detya hane pau~pau-pa-ĕ

 I strong-1sg.PAT-CONC woman water run~run-CLF:fruit-DECL
 'Even though I am strong, my wife fetches the water.'

In addition to subordinate clauses with adverbial semantic content, Aikanã has medial clauses: subordinate clauses the semantic content of which is coordinate with that of the subsequent clause. The mood value of Aikanã medial clauses is identical to that of the final main clause, whereas person reference may be different. There are two medial clause-final markers: -pü 'same subject', which indicates that the subject of the next clause will be the same, and -na 'different subject', which indicates that the subject of the next clause will be different. The contrasts between the following basic examples demonstrate how the system works:

(3) João ware-dua-pü dara-ne düni-ẽ

João arrive-DIR:in-ss hammock-LOC lie-DECL

'João entered (the house) and lay down in the hammock.'

(4) João ware-du-na Maria düni-ē

João arrive-DIR:in-DS Maria lie-DECL

'João entered (the house) and Maria lay down.'

(5) hisa Maurício-xa-pü tipa-xa-isuwã-ẽ I Maurício-1PL-ss go.ahead-1PL-REM.PST-DECL

'Maurício and I went, we went ahead.'

(6) hine pu-dia-na hĩzã ãwĩwã-me-te'-ẽ fire light-1sg.caus-ds you sleep-2sg-pst-decl 'I made fire, then you slept.'

Aikanã medial clauses can be coordinated with one another, and thus form a chain that ends with a main clause in one of the sentential moods. Traditional narratives consist of complex sentences that contain long chains of medial clauses, which indicate continuity or discontinuity of the subject by the **-pü** and **-na** suffixes. The following short traditional narrative is an example of the high productivity of the system, as well as its complexities. All lines demonstrate the basic characteristics this system, i.e., same subject and different subject morphemes in medial clause chains. Certain particular traits are evaluated at the end of the text.

xüxüwe'ene 'The Oldtime Women'

tü-rika-daika-'i-ne

A traditional Aikanã tale, told by Raimunda Dadü Kwã'ī, in Barroso, 6 May 1996.

(a1) kureza-deri detya-deri-ye bu~bu-ke-pe-na

man-3.poss woman-3.poss-acc beat~beat-3.ag-clf:round-ds

ke-pe-nayo-e-pükya-pü3.AG-CLF:round-Dscry-3.INTR-ssthen-ss

'Her husband always beat his wife, he did, and she cried until she stopped crying,'

(a2) wãwã-deri-'ene-'ete xa-na-xüne-re-'ẽ küine-'ete-ne he-pü child-3.POSS-COLL-ALL 1PL-DIR:hither-DIR:return-FUT-IMP¹ old.garden-ALL-LOC say-SS 'she said to her children "Let's leave and return to our old farmstead!".'

ware-du-pa-ne'e-pü

(a3) xü-pa-ne-'ee-pü kya-pü küine keza

DIR:return-TR-PFV-3PL.PAT-SS then-SS old.garden house

put-dir:floor-dir:remain-nmlz-loc walk-dir:in-clf:fruit-pfv-ss then-ds

'she took them and they went, and got to their old plantation and entered into the abandoned house, which was still standing, and then'

kva-nã

¹ The occurrence of bound morphology without a lexical root is highly context dependent, and is discussed in Voort & Birchall (in press).



(a4) pene-ne nu-pene-dupa-na mama-deri haki

dusk-Loc yard-dusk-CNTRX-DS mother-3.POSS maize

hana-ke-pe-pü kya-pü hara~hara-ke-pe-ẽ kya-na

peel-3.AG-CLF:round-ss then-ss toast~toast-3.AG-CLF:round-DECL then-Ds

'late afternoon, as it was already getting dark in the yard, their mother was peeling off the maize husks, toasting the maize, and then,'

(a5) haki xitu~xitu-'ẽ pai~pai-duka-yũ-ẽ

maize pop~pop-DECL pop~pop-DIR:away-CLF:hollow-DECL 'the maize was popping. "It's popping out of the pan."2"

(a6) baba nukyapa-hãyã-pü da-ka-kape-re-hãyã-re

father behind-1pl.pat-ss kill-1sg-clf:head-fut-1pl.pat-excl3

wãwã ĩ-deri-ene-ete yo-pa-'eye-pü kya-pü

child-3.Poss-coll-all cry-tr-3pl.pat-ss then-ss

"Would father be coming after us in order to kill us?", she cried out of fear for her children, then

(a7) dupa-na iza-yiye penene-ne dupa-na

CNTRX-DS far-again afternoon-LOC CNTRX-DS

'however, some time later, it was getting really late in the afternoon, then,'

(a8) i'iwe dae-nu-na-pa-'i-ye wãwã ĩ-deri-'ene-'ete

jaguar move-clf:soil-dir:hither-clf:part-nmlz-acc child-3.poss-coll-all

hîwa-keza-ê i'iwe 'e-na

that.way-3sg.caus-decl jaguar 3pl.pat-ds

"Look there, a jaguar is coming into the yard", she said to the children,

(a9) wãwãĩ xua-e-pü yo-ka-re-e-na

child see-3.INTR-SS cry-1sG-FUT-3.INTR-DS

'the child saw it and was about to cry,'

Recursive person marking in Aikanã future tense constructions and Kwaza quotation constructions is discussed in, among other places, Voort (2013, 2016).



² That is a highly unusual thing to happen, and therefore considered an omen of something serious.

(a10) yo-me-rete'ê kuka-pü atu-ne dae-dui-pa-pü

cry-2sg-neg.imp say.tr-ss mortar-loc move-dir:in-clf:part-ss

nãixi apa-'isu-deri-ye pü<'ã>yãka-pü

mat call-HAB-NMLZ-ACC cover<3sg.REFL>-ss

"Don't cry!", she told it and they entered into the mortar and covered themselves with the mat, which is called nāixi,

(a11) hikirine-pü kya-nake i'iwe hürüwa-pi-pa-'ẽ

dark-ss then-cond jaguar rise-dir:base-clf:part-decl

'it had got dark when the jaguar rose from the base of the mortar (where it had been lying).'

(a12) hūnu-rikape-'ẽ hine-ne hūnu=kadu-'ẽ kya-pü

sniff-DIR:inside-DECL fire-LOC sniff=inside-DECL then-ss

ene-pi-pa-xüne-'ẽ

tighten-DIR:base-CLF:part-DIR:return-DECL

'He was sniffing all around the house, even in the embers of the fire, and then he lay down embracing the mortar again.'

(a13) hürüwa-pi-pa-'ẽ di<'a>wa-kuka-'ẽ hiiye-'ẽ

rise-DIR:base-CLF:part-DECL stretch < 3sg.REFL > -CLF:body-DECL hiss-DECL

'Then he rose, and stretched himself, and was hissing.'

(a14) wãwãĩ yo-he-rete'ẽ he-'ẽ

child cry-3.INTR-NEG.IMP say-DECL

'She told the children not to cry'

(a15) xüxü'i supi-ke-wa-pa-ẽ dürü-dui-pa-pü

breast insert-3.AG-CLF:mouth-TR-DECL sit-DIR:in-CLF:round-ss

'She stuck her breast into the child's mouth, as they were sitting inside the mortar,'

(a16) deri-heya-nupe-dupa-na i'iwe hürüwa-pi-pa-pü

lighten-dir:down-dir:yard-cntrx-ds jaguar rise-dir:base-clf:part-ss

hika-de-pa-ne-na

leave-DIR:outside-CLF:part-PFV-DS

'dawn was arriving in the yard when the jaguar rose from the base of the mortar and left the house,'

(a17) detya hürüwa-dui-pa-pü xua=hika-kü-ẽ

woman rise-dir:in-clf:round-decl see=leave-dir:close-decl

'the woman rose from inside the mortar and looked outside, her eyes following the jaguar.'



(a18) i'iwe-'ete hika-de-kü-nunu ka-xüne-ta-he-deri-'ete-ne

jaguar-ALL leave-Dir:outside-Dir:close-Mir 1sg-Dir:return-rem.fut-3.intr-nmlz-ALL-Loc

paw=hika-paipa-'i-ye katene xa-ne-ta-xa-'i-'ete-ne

run=leave-DIR:ahead-NMLZ-ACC there 1PL-PFV-REM.FUT-1PL-NMLZ-ALL-LOC

kaza-i i'iwe he-pü

be-INT jaguar say-ss

"Now look, where the jaguar is going to run ahead, is it in the same direction where we are going home?", she wondered,

(a19) kãwã kari kaza-hãyã-re-'ẽ he-pü

be.like that be-1pl.pat-fut-imp say-ss

"Well, let him get us! (rather than father killing us)", she said,

(a20) katene na-xü-pa-ne-pü

there DIR:hither-DIR:return-TR-PFV-SS SS

'that is where she returned home (taking the children along), then,'

(a21) kureza-deri-ete ka-me-a-'ẽ bu~bu-me-pe-'isu-a-pü i'iwe

man-3.POSS-ALL do-2sg-1sg.PAT-DECL beat~beat-2sg-clf:round-HAB-1sg.PAT-ss jaguar

рü

pau-nwãpa-hãyã-ẽ kau-hã-yã'e-ẽ kuka-pü yo-he-pü

run-enter.behind-1pl.pat-decl eat-1sg.pat-cntr-decl say.tr-ss cry-3.intr-ss

'she said to her husband "You have done this to me. Because you used to beat me like that, the jaguar came in after us. He almost devoured me.", she said, crying,'

(a22) kãwã-ĩ apa-isu-ĩwãte

be.like-NMLZ tell-HAB-ADMON

'that is how it is being told.'

As the reader may have noticed, the chain contains several embedded quotations in main clause moods, such as imperative in sentences (a2) and (a19), negative imperative (a10), declarative (a5) and interrogative (a18), but those do not terminate the clause chain. The embedded quotation in (a6) even contains an internal medial clause:

(a6) baba nukyapa-hãyã-pü da-ka-kape-re-hãyã-re

father behind-1pl.pat-ss kill-1sg-clf:head-fut-1pl.pat-excl

'Would father be coming after us in order to kill us?'

In some sentences there are real interruptions of the clause chain, by the declarative main clause mood in sentences (a4), (a11-a15) and (a17). The narrator has not integrated those into a general chain in the form of medial clauses.



In some sentences, (a10-a11), (a15-a16) and (a21), the same subject marker -pü occurs in spite of a change of subject in the next clause. On the other hand, whenever the marker -na occurs, it does systematically indicate a different grammatical subject in the next clause. This can perhaps be accounted for by a difference in semantic markedness. Whereas different subject marking in some languages can also signal a different or unexpected event instead of a different subject (e.g. Gijn, 2012), same subject marking in Aikanã might also signal that the next episode is part of an expected course of events, whether the subject is the same or not. This possible explanation of non-default use of same subject marking in Aikanã cannot be confirmed, however, on the basis of the few examples mentioned here.

COMPLEX SENTENCES AND SWITCH-REFERENCE IN KWAZA

A complete sentence in Kwaza consists minimally of a verb root, and inflectional person and mood suffixes, in that order. Any derivational morphology should occur between the root and the person marker (third person is unmarked). It includes classifiers, directionals, valency morphemes, tense, aspect and modality morphemes. Some modality morphemes may originate from degrammaticalised mood inflections and require recursive person marking. Some expressions of remote past tense and of habitual aspect involve morpheme-based reduplication of person markers (Voort, 2003, 2009, 2016). Mood markers are verb final, and include declarative, interrogative, imperative, volitive and several other main clause moods. Furthermore, Kwaza has a set of mood markers used for adverbial subordinate clauses: conditional, concessive, and manner.

Adverbial clauses tend to precede the main clause, and together they form a complex sentence, as examples (7) and (8) illustrate:

(7) si wεra οπε-κɨwɨ oja-da-tsi-tse
I Vera come-cond go-1sg-pot-decl.
'When Vera arrives, I will leave.'

(8) awi-hi-da-lete ba-da-ki
cold-NMLZ-1SG-CONC cut-1SG-DECL
'Even though I was cold, I cleared a field.'

Kwaza also has medial clauses. These are subordinate clauses ending in a dependent clause marker that represents the semantic content of the main clause mood marker⁴, as in examples (9) and (10).

(9) bilotswa e-he-da-ta okya-he-da-ki shotgun have-NEG-1SG-DEP hunt-NEG-1SG-DECL 'I can't hunt, because I don't have a shutgun.'

(10) tyari-da-ta yo-da-mɨ shoot-1sg-dep devour-1sg-vol 'I'm going to kill and devour him!'

⁴ And can therefore perhaps be regarded as a dummy mood marker.

There are two medial clause markers: -ta 'dependent', which is neutral with regard to person, and -si 'switch reference', which indicates the exclusion of a specific person value of the main clause subject. The suffix -si anticipates that the subject of the next clause will either be a non-third person or a third person, depending on whether the reverse is the case in the medial clause, as in examples (11) and (12), unless both subjects are different non-third persons, as illustrated by (13).

(11) si isihī-da-si ori-hī-ki I secure-1sg-swr ascend-NMLZ-DECL 'I helped him climb up.'

(12) one-si oja-ta-da-hī-ki arrive-swr leave-tr-1sg-NMLZ-DECL 'He returned and I went there.'

(13) kwɛ-da-si wadi-xa-ki txi'a-wã
enter-1sg-swr give-2sg-DECL Txi'a-ACC
'I entered and you gave something to Txi'a.'

In case both subjects of the medial and main clauses are different third persons, the dependent marker -ta is used, preceded by the different subject morpheme -di-, as in examples (14) vs. (15). The contrasts between these basic examples demonstrate how the system works:

(14) tswa-wã mɛ-ta emã-ki
man-ACC beat-DEP cry-DECL
'She beat the man and she cried.'

(15) etai tswa-wã mɛ̃-di-ta emã-ki tswa
woman man-ACC beat-Ds-DEP cry-DECL man
'The woman beat the man and the man cried.'

Multiple medial clauses of Kwaza can be juxtaposed, forming a chain that ends with a main clause in one of the sentential moods. A narrative can consist of a single long chain of medial clauses, which contain suffixes that indicate continuity or discontinuity of the subject. The following short traditional story was retold in Kwaza from the Aikanã story of the previous section. It does not contain cases of non-third person switch-reference, but same-reference and third person different subject are well represented, as well as the impressively persistent clause-chain.

hakainahere 'The Oldtime People'5

An Aikanã tale, retold in Kwaza by Mario Kyikãu Mãdɛ, in Barroso, 8 May 1996.

⁵ This is a revised and reorganised version of the story in Voort (2004, pp. 740-743).



- (k1) exwa-tyate me-tyaryı-di-ta a-tara-hı-ta me-'e-di-ta ema-hara-tya

 husband-3.POSS beat-much-DS-DEP exist-PROC-NMLZ-DEP beat-too-DS-DEP cry=stop-MAN

 'She was accustomed to her husband always hitting her, and when he beat again, she just stopped crying,'
- (k2) etohoi-nahere-wã hĩdε ya-ፕ-ryĩ karitywa-na ε-'a-ta a-'a-ta atxitxi child-coll-ACC go! DIST-this-CD:area old.field-LOC go-1pl..INC-DEP exist-1pl..INC-DEP maize

manini-tsi-hī hude-'a-ta ya-'a-ta a-'a-ni-tya ta-ta

fish-GER-NMLZ splash-1PL.INC-DEP eat-1PL.INC-DEP exist-1PL.INC-EXH-MAN talk-DEP

'she said to her children: "Let's go there to the old farmstead we go there we'll live there w

'she said to her children: "Let's go there to the old farmstead, we go there, we'll live there, we'll dry and eat maize and fish, let's live there!"

(k3) wε karitywa-na tya a-'ete-ta

bring old.field-LOC MAN exist-COM-DEP 'taking (the children) to the old farmstead they lived there together,'

- (k4) oyaburu-tya atxitxi kã-to-ta
 arrive-MAN maize toast-CLF:kernel-DEP
 'they arrived there and toasted maize,'
- (k5) tya kã-to-da-hĩ-here-tsi-hĩ=wara atxitxi bɛrɛrɛ-ta tana bɛ

 MAN toast-CLF:kernel-1sg-NMLZ-INTL-GER-NMLZ=but maize pop-DEP well bang!

 'so she was toasting the maize while suddenly it popped (loudly): "bang!"'
- (k6) yiye-di-ta tsuhū-rati nãi-re ti-nãi-da-ki-tya nãi-re
 break-DS-DEP what-FOC like-INT what-like-1SG-DECL-MAN like-INT
 'it cracked, "Why is it acting like that; what did I do?", she said, "Why?"'
- (k7) aha tsasi-ta huhui=asa-'eteya-nã-tehere-tya ta-ta father follow-DEP kill=end-1PL.OBJ-FUT-APPR-MAN talk-DEP "I think father will come after us to kill us", she said,'
- (k8) *ũi-nã-tsi-hĩ=wara* tsileta tsileta-tya awīi=xare-ritsa-hĩ=wara
 lie-FUT-GER-NMLZ=but afternoon afternoon-MAN see=turn-DIR:outside-NMLZ=but

yerexwa-le

jaguar-only

'they had gone to sleep, but at (early) night when (she) looked outside there was a jaguar!'

(k9) tana hi-sinywa-nī-di-ta

well move-cd:yard-refl-ds-dep

'then, it was approaching over the yard,'

(k10) kui yerexwa-tadi-tya ta-hi-wara etohoi iro-dami-di-ta

my! jaguar-EXCL-MAN talk-NMLZ=but child cry-want-DS-DEP

"My! That's a jaguar, isn't it?", she said, but then the son was about to cry,

(k11) *iro-he-ki-tya* ta-ta

cry-neg-neg.imp-man talk-dep

"Don't cry!", she said,

(k12) hou dukɨ-hɨ̄ houwaria-tya hε-na hɨ-tye-tya

take other-NMLZ hang-MAN mortar-LOC move-CLF:hole-MAN

iritsi-tye-nɨ-hɨ-dɨ-ta

cover-CLF:hole-REFL-NMLZ-DS-DEP

'she took him, and took the other one into her sling hanging and entered the hole of the mortar and covered themselves, whereupon...'

(k13) yerexwa kwε=buru-tya hẽu-ryŧ=hɨhɨrwa-silona=baru-tya

jaguar inside=arrive-man smell-cd:area=move-dir:corner=do.all-man

'entering the house the jaguar smelled around, walking to all corners;...'

(k14) hε-na bukya-ta yãsi-tyaryɨ akwate dɨ-ta

mortar-LOC lie-DEP hear-much inside DS-DEP

'it lay down at the foot of the mortar, probing the sounds inside, as...'

(k15) etohoi iro-nã-di-ta iro-tsi-tya tyếrễ-le kunũ-di-tya

child cry-fut-ds-dep cry-admon-man breast-only suck-caus-man

'the child was about to cry, so she just gave it the breast to suckle for it not to cry,'

(k16) tana hɨ-di-ta tana daityotonɨ-tya hɨhɨrwa-kwate du=ĩ'ĩta-tya

well NMLZ-DS-DEP well rise.up-man move-dir:inside finish=always-man

'then, thereafter the jaguar stood up and kept on walking everywhere around the house,'

(k17) tana budɨnɨhĩ-tya hi=ĩ ĩta-dɨ-ta tana nanãi-tya

well stretch-MAN hiss=always-DS-DEP well very-MAN

'then it stretched itself and didn't stop sniffing and hissing around like that,'



- (k18) tana bukya-ryate-ta tana he~hẽu-ryf ĩ ita haya-ta

 well lie-DIR:rim-DEP well RED~smell-CD:area always day-DEP

 'it was lying by the side of the mortar, continuously sniffing around until sunrise,'
- (k19) haya buru-di-ta haya-siwã-dɨ-ta hariki tana well day arrive-DS-DEP day-CD:yard-DS-DEP now daitotonĩ-ta bui-hĩ-di-ta hariki stand.up-dep leave-NMLZ-DS-DEP now 'then day arrived, and the daylight shone in the yard, and then the jaguar rose, and left the house, uh,'
- (k20) diri-tya awñ tsasi-le-ki ε-da-te-tsi-ryñ tana
 rise-man see follow-only-decl go-1sg-purp-pot-cd:area well

hi-dwa=leya-di-ta

move-DIR:onto = ahead-DS-DEP

'getting up (from the mortar) she looked "It went ahead in the direction I should go,"

(k21) ε-'a-te=yã-ryĩ=wara nãi-re leya-rai-ki=tya ta
go-1pL-PURP=be-CD:area=but like-INT ahead-damn-DECL=MAN talk

etohoi-tyate-wã tya ta-ta

child-3.POSS-ACC MAN talk-DEP

'now that direction where we are headed, it went ahead, damned!", she said talking to her son,'

(k22) ta h̄idε ε-'a-ni nanãi-'eteya-lε yerexwa

DEP let's.go! go-1PL-EXH very-1PL.OBJ-PREC jaguar

kahε=asa-'eteya-tara-tsε-tya ta-dɨ-ta

bite = end-1pl.obj-proc-decl-man talk-ds-dep

'then she said "Let's go! Let it have its way with us, let the jaguar just try to tear us up!"

- (k23) ta ε-tya oyaburu-tya

 DEP go-MAN arrive-MAN

 'then having gone (home) and arrived,'
- (k24) ñ mε-tyary-ta-nãi-ko etohoi-nahere wε-ε-da-ta
 nothing beat-much-1sg.OBJ-NMLZ-INST child-COLL bring=go-1sg-DEP
 "Because of (your) beating me so much for no reason I took the children and left..."



(k25) bukwa-'ete-da-hī-here-da-hī-wara yerexwa tsye-'eteya-le-ki

live-com-1sg-nmlz=but jaguar grab-1pl.obj-frust-decl

mε̃-tyaryı̃-ta-nãi-ko-tya ta-ki

beat-much-1sg.obj-nmlz-inst-man talk-decl

'I went to live together (there in the old house), but the jaguar nearly grabbed us, because of (your) beating me always", she said to him.'

(k26) tywa-rati-ki

be-FOC-DECL

'That's how the story is told.'

The above story consists in fact of one single long chain of medial clauses, which ends in a main clause mood only at the formulaic expression in (k26), and which represents the main clause of the entire preceding subordinated chain that started with sentence (k1). One may wonder about the main clause moods that are encountered inside this narrative. However, these represent direct speech quotations in different moods, such as the exhortative in (k2) and (k22), interrogative and declarative in (k6), (k20) and (k25), negative imperative in (k11), and others. They are embedded in the clause chain, and may contain subordinate and medial clause chains themselves.

Throughout the chain, the subject of a clause may differ from the subject of the next clause, which is indicated by the different subject morpheme -di-. Also clause chains that are embedded inside quotations may contain internal reference switches, as in (k20-k21). In some some cases, however, -di- should be interpreted not as signalling a different subject, but as announcing a different event or topic, as in sentences (k17) and (k22).

Note that, in addition to the dedicated different subject morpheme -di-, the concessive clitic wara 'but' also has the effect of announcing a different subject, as in (k5), (k10) and embedded in (k25).

Note furthermore that the functional difference between dependent clause marker -ta and adverbial clause marker -tya 'manner, background' can be unclear. At a cursory glance, in same subject third person clauses they both seem to represent medial clause markers. However, unlike -ta, the morpheme -tya is never preceded by person marking or the different subject morpheme -di-, is never instrumental in clause chaining and is independent of reference switches.⁶

CONCLUSION

Both Aikanã and Kwaza have very productive medial clause chaining constructions involving switch-reference systems. Certain similarities can be perceived in their chaining constructions and in their switch-reference systems. Table 1 lists typological similarities and differences between Aikanã and Kwaza switch-reference systems attested in this article.

⁶ In previous work (especially Voort, 2004, pp. 649-650, 660-663) I had more doubts about this analysis and represented *-tya* as an allomorph of *-ta*, which I used to gloss as 'cosubordinative'.

Table 1. Similarities and differences between Aikanã and Kwaza switch-reference systems.

Similarities

- high productivity of clause chaining constructions
- same subject and different subject marking of medial clauses
- medial clause has same mood value as main clause
- sameness or difference status of subject concerns the next clause
- medial clauses can be just as grammatically rich as the final clause
- possibility of extended medial clause chains
- matrix mood tends to be on the final clause
- possibility of embedded clause chains

Differences

- frequent interruptions of the chain in Aikanã, but uncommon in Kwaza
- non-default SS marking in Aikanã vs. non-default DS marking in Kwaza
- specific person value anticipated in Kwaza, but not in Aikanã
- forms: Aikanã (-pü 'ss'; -na 'Ds') vs. Kwaza (-ta 'ss'; -di-/-si 'Ds')

Some similarities are rather common for medial clause chaining languages, such as the fact that the final clause tends to occur at the very end of the chain, that clause chains can be embedded at a separate structural level (as seen in quoted utterances in Aikanã and Kwaza), and that the reference switch is announced by the preceding clause for the next clause (Longacre, 2007 [1985]).

In both Aikanã and Kwaza the distinction between same subject and different subject is made by dedicated morphological suffixes. Also, the medial clause is inflected for person, and does not resemble the "stripped-down structure" that Longacre (2007 [1985], p. 412) observed in other clause chaining languages. Even in the case of non-third persons, where person marking would leave no doubt as to the distinctness of the subjects, subject discontinuity is marked overtly and in some situations quite redundantly, as in Aikanã example (16) and Kwaza example (17):

- (16) hisa te-ka-na hĩzã-ke te-me-ẽ
 I have-1sg-Ds you-COM have-2sg-DECL
 'I have (this pan), you have (that pan).'
- (17) si isihī-da-si ori-hī-ki
 I secure-1sg-swR ascend-NMLZ-DECL
 'I helped him climb up.'

Some of the characteristics of the switch-reference systems shared by Aikanã and Kwaza could be due to long term contact between the languages. Their speakers have been direct neighbours since time immemorial, they share the same cultural area, and the languages also show other traits of mutual interference (e.g. Crevels & Voort, 2008; Voort, 2005, 2016).

There are also some notable differences between Aikanã and Kwaza clause chaining and switch-reference. As seen in the above Aikanã text, as well as in other Aikanã texts (e.g. Birchall et al., 2017), the clause chain is sometimes

'interrupted' by sentential mood clauses that are not embedded. Such interruptions are conspicuously absent in the above Kwaza text, as well as in other Kwaza texts (e.g. Voort, 2004 and Voort et al., 2017, which also contain several cases of non-third person switch-reference).

Furthermore, in this and other texts the Aikanã different subject marker seems to function exclusively to signal a reference switch. In Kwaza, however, subject discontinuity marking is not the only function of the switch-reference system. This is confirmed by examples where the subject is identical across a clause chain, but nonetheless bears different subject marking:

(18) *mãrɛ'a-da-hī-si ütyenãi-da-rai-re*spirit-1sg-NMLZ-SWR know-1sg-damn-INT 'Being a Westerner, I know bugger-all.'

Apparently, as seen in examples (18), (k17-k18) and (k22-k23), pragmatic functions such as a new topic are signalled by switch-reference too. In his overview of similar phenomena widespread in South American languages, Gijn (2012) refers to non-'default' use of switch-reference systems as 'switch-attention', and proposes that it could be subject to diffusion through contact. Between the neighbouring languages Aikanã and Kwaza, however, switch-attention does not seem to have spread, as the data presented here suggest. It is nevertheless interesting that some Aikanã examples, (a10-a11), (a15-a16) and (a21), showed an opposite phenomenon, in which same subject marking has been attested in spite of the next subject being different. Note that Aikanã-Kwaza bilingualism is exclusively found with native speakers of Kwaza today. Even though there are some notable structural similarities between both isolate languages, we do not know how common such bilingualism was in traditional times.

Another significant difference with Aikanã is that the switch-reference system of Kwaza is anticipatory. Apart from announcing that the <u>subject</u> of the next clause will be different from the current clause or not, it also signals whether the <u>person</u> value of the subject of the next clause will be different or not. Thus, if the subjects of two chained clauses are different, but their person value is the same—which is obviously only possible if both are third persons—the preceding clause is marked by the derivational suffix -di-. This suffix indicates that the different subject of the next clause is a third person. However, when one or both subjects in a biclausal chain are not third persons, the first clause is marked by the inflectional suffix -si. In effect, the different subject marking system in Kwaza anticipates (by blocking the possibility of) a specific person value. Table 2 demonstrates the difference between the marking systems in Aikanã and Kwaza.

Table 2. Reference continuity in medial clause constructions. Legends: X = first, second or third person; 3 = third person; i = coreferent; j = non-coreferent.

| Subjects | | Medial clause | | | |
|------------|------------|---------------|--------|---------------------|--|
| Medial | Next | Туре | Aikanã | Kwaza | |
| Xi | Xi | DEP-SS | -pü | -ta | |
| 3i | 3j | DEP-DS | -na | -d i -ta | |
| 1 or 2 | 2 or 1 | DEP/SWR-DS | -na | -si | |
| 3 or non-3 | Non-3 or 3 | DEP/SWR-DS | -na | -si | |

Anticipatory subject agreement, where the preceding clause actually identifies the subject of the next clause, is known from some Papuan languages, such as Kanite and Hua (Roberts, 1997, p. 129). Aikhenvald (2012, p. 342) suggests that Kwaza is possibly unique among South American languages in this respect.⁷ However, she also points out that some Macro-Jê languages, such as Maxakali, display anticipatory switch-reference. Because this is marked on conjunctional particles, she considers this different from switch-reference in clause chaining. Nevertheless, the Kīsêdjê (Jê) language of Brazil also shows anticipatory switch-reference on its conjunctional particles or clitics (meaning 'and'), and in doing so, it can form extended clause chains, as Nonato (2014) and Nonato et al. (2017) demonstrate.

Finally, as Table 2 shows, the forms used by Aikanã and Kwaza for distinguishing same subject and different subject are different and do not seem to be etymologically related. In this respect, a similarity between the Kwaza and Mamaindê (Nambikwaran) forms is noteworthy, as Gijn (2016) points out. Although in Mamaindê (Eberhard, 2009) switch-reference is marked by suffixes on conjunctional particles, and although other important differences exist in the system, it involves the same reference marker -ta? and the different reference marker -sp. Because other Nambikwaran languages do not seem to have a switch-reference system, van Gijn suggests that Mamaindê could have developed it under influence from Kwaza. The formal and functional similarities are striking, to say the least.

A NOTE ON THE ORTHOGRAPHIES USED

The orthographies used for the Aikanã and Kwaza language data are partially phonemic and partially in accordance with standard practical orthographies that were established for the languages. With regard to the Aikanã data, <'> represents IPA [?]; $\langle \ddot{u} \rangle = [\not a] \sim [\not a] \sim [\not a]$; $\langle \dot a \rangle = [\not a] \sim [\not a]$; $\langle \dot a \rangle = [\not a] \sim [\not a]$; $\langle \dot a \rangle = [\not a] \sim [\not a]$; $\langle \dot a \rangle = [\not a] \sim [\not a]$; $\langle \dot a \rangle = [\not a] \sim [\not a]$; $\langle \dot a \rangle = [\not a] \sim [\not a]$; $\langle \dot a \rangle = [\not a]$; \langle

ABBREVIATIONS

The abbreviations used in this article sometimes differ from those used in previous work on Aikanã and Kwaza.

| 1 | first person | CD | classifier/directional |
|-------|---------------|-------|------------------------|
| 2 | second person | CLF | classifier |
| 3 | third person | CNTR | contrastive |
| ACC | accusative | CNTRX | counterexpectative |
| ADMON | admonitory | COLL | collective |
| AG | agentive | COM | comitative |
| ALL | allative | CONC | concessive |
| APPR | apprehensive | COND | conditional |
| CAUS | causative | DECL | declarative |
| | | | |

When Alexandra Aikhenvald pointed out the anticipatory nature of Kwaza switch-reference in a personal communication in 2010, I made the mistake of replying that Aikanã might have a similar system. This resulted in an unwarranted endnote in her book (Aikhenvald, 2012, p. 437, n. 38). *Mea culpa*.

| DED | danaadant | NEC | n a gatin ia |
|-------|--------------------|------|-----------------------|
| DEP | dependent | NEG | negative |
| DIR | directional | NMLZ | nominaliser |
| DIST | distal | ОВЈ | object |
| DS | different subject | PAT | patientive |
| EXCL | exclamative | PFV | perfective |
| EXH | exhortative | PL | plural |
| FOC | focus | POSS | possessive |
| FRUST | frustrative | POT | potential |
| FUT | future | PREC | preconditional |
| GER | gerundial | PROC | procrastinative |
| HAB | habitual | PST | past |
| IMP | imperative | PURP | purposive |
| INC | inclusive | RED | partial reduplication |
| INST | instrumental | REFL | reflexive |
| INT | interrogative | REM | remote |
| INTL | intentional | SG | singular |
| INTR | intransitive | SS | same subject |
| LOC | locative | SWR | switch-reference |
| MAN | | TD | transitive |
| | manner | TR | ti ai isitive |
| MIR | manner mirative | VOL | volitional |

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