

Morphosyntax of Double Object Constructions in Town Nyanja

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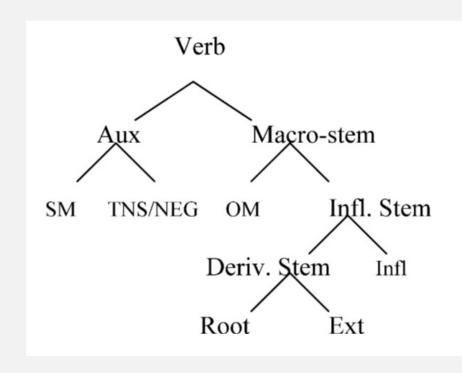
Language Background

- *Town Nyanja (TN) is a Zambian Bantu language of the Niger-Congo family, characterized as highly agglutinative and having an underlying tone contrast. It is primarily spoken in Zambia's capital, Lusaka, and it is one of the seven national languages.
- Town Nyanja is distinct from Eastern Nyanja spoken in the Eastern province which shows a very close resemblance to Chichewa spoken in Malawi. Apart from this research, there hasn't been much documentation done on the syntax of Town Nyanja in comparison to the documentation on Eastern Nyanja and Chichewa.

Verbal Morphology

[(Negation)-Subject Marker-TAM-Object Marker-Verb Root-(Extensions)-FV]

Verb > IO (Indirect/Applied Object) > DO (Direct Object)



Ngonyani & Githinji (2005) Structure of Bantu Verb

Theory of Object Asymmetries (Alsina 1996), (Baker 1988), Bresnan & Moshi (1990) primary object properties:

- Represented as an object marker (OM) prefixed to the verb
- * Expressed as an object NP immediately after the verb (IAV)
- * Can be expressed as the passive grammatical subject
- * Affected by reciprocalization

Symmetric Applicatives

Symmetric Locative Applicatives

- ngombe mu-munda NOM-farm-FV C2-SM-wash-APPL-FV C5-cow LOC-field 'The farmer is washing the cows in the field.'
- b. O-lim-a mu-munda ngombe NOM-farm-FV C2.SM-wash-APPL-FV LOC-field C5-cow 'The farmer is washing the cows in the field.'
- Locatives do not show a difference between the applied object and the direct object, both objects have equal opportunity to IAV. This should also mean that both objects can surface as the grammatical subjects in the passive.
- The issue with these forms was that it was difficult to get an OM on the verb that referred to the Locative

Symmetric Instrumental Applicatives

- C5.SM-write-APPL-FV C1-patient C9-prescription 'The doctor is writing (for the patient) (a prescription).
- C5.SM-write-APPL-FV C9-prescription with C9-pen 'The doctor is writing (a prescription) with a pen.'
- prəskripshən odwaala C5.SM-O1.OM-write-APPL-FV C9-prescription C1-patient 'the doctor is writing a prescription for the patient'
- prəskripshən C5.SM-O9.OM-write-APPL-FV with C9-pen C9-prescription 'the doctor is writing a prescription with a pen'
- Object marking was an issue in Instrumental applicatives as well, the consultant varied on their opinion about the objects being marked on
- Although the ordering of the objects was free and both objects could be omitted, so some part of the symmetry is still there.

Overview

* This research provides a morphosyntactic analysis of double object constructions (DOC) in Town Nyanja by extending the verb with argument-structure changing morphemes, and documenting their effects on transitivity, semantics, and syntactic constituency.

Extension	Form(s)	Effect on Valence	
Causative (CAUS)	-is-, -es-	Addition of 1 argument	
Applicative (APPL)	-il-, -el-	Addition of 1 argument	AO = applied obje
Passive (PASS)	-iw-, -ew-	Reduction of 1 argument	DO = direct object

Asymmetric Applicatives

C2.ADJ-NOM-cook-FV C2.SM-PRES-cook-APPL-FV C2-guest C9-rice

C2.ADJ-NOM-cook-FV C2.SM-PRES-C2.OM-cook-APPL-FV

C2.ADJ-NOM-cook-fv C2.SM-PRES-C2.OM-cook-APPL-FV

C2.ADJ-NOM-cook-FV C2.SM-PRES-C2.OM-cook-APPL-FV C2-them

C2.ADJ-NOM-cook-FV C2.SM-PRES-C2.OM-cook-APPL-FV C9-rice

The benefactive object *balendo* is IAV, it also takes an OM on the verb

it must be present when the benefactive object is move away from the

verb. The direct object can be elided, but the benefactive object must

*Based on these forms there is a difference between the benefactive object

and the direct object. The unequal status of the objects shows that one

argument is given preferable status to be considered the primary object.

The syntactic operations contribute to the morphological structure of the

word. The verb root and the applicative suffix combine through the

operation Attract F (Chomsky, 1995). And then the extended verb is

C5.SM-read-APPL-FV instead C2-children C5-book of Mwaka

C5.SM-read-C2.OM-APPL-FV instead C2-children C5-book of Mwaka

C5.SM-read-C5.OM-APPL-FV instead C2-children C5-book of Mwaka

C5.SM-read-C10.OM-APPL-FV instead C2-children C5-book of C10-clothes

C2-children C5-book of Mwaka

attracted to INFL where it takes the Tense and Subject markers.

C5.SM-PST-read-APPL-FV

The teacher read the book of Mwaka for (the benefit) of the children.

'The teacher read the book of Mwaka for (instead of) the children'

'The teacher read the book of Mwaka for (instead of) the children'

'The teacher read the book of Mwaka for (instead of) the children'

'The teacher read the book of clothes for (instead of) the children.'

The objects in Malefactive applicatives are asymmetric too.

The OM on the verb can only refer to the applied object baana, it

cannot refer to the direct object buku or the possessor Mwaka.

* It is yet is be determined if the applied object is the subject of the passive

once it is dislocated from the IAV position. Although the OM is optional,

'The chef is cooking rice for the guests (intended)'

'The chef is cooking rice for the guests (them)'

'The chef is cooking rice (for them) (intended)'

always surface even when it is incorporated on the verb.

'The chef is cooking for them'

Wopika

ba-pik-il-a

Asymmetric Malefactive Applicatives

and if it can be extracted.

rays ba-lendo

ràys bà-lééndò

C9-rice C2-guest

C9-rice C2-guest

Asymmetric Benefactive Applicatives

'The chef is cooking rice for the guests'

More Asymmetric Applicatives

Asymmetric Circumstantial Applicatives

- Mw-aana a-dy-el-a C1.SM-eat-APPL-FV C9-hunger C9-rice C1-child 'The child is eating the rice because of hunger.'
- njaala rays C1.SM-eat-APPL-FV C9-rice C9-hunger 'The child is eating the rice because of hunger (intended)'
- Rays a-ma-dy-el-a C9-rice C1.SM-HAB-APPL-FV C9-hunger 'Rice, he eats because of hunger.'
- d. Rays a-ma-i-dy-el-a C9-rice C1.SM-HAB-C9.OM-eat-APPL-FV C9-hunger 'Rice, he eats it because of hunger'
- a-ma-i-dy-el-a rays C1-SM-HAB-C9.OM-APPL-FV C9-rice 'Hunger, he eats it because rice (intended)'
- * The asymmetry in circumstantial applicatives is different. Although the AO njaala is in IAV position, only the DO rays can be marked in the verb.
- This would mean in circumstantial applicatives the DO is treated as the primary object not the AO.
- A reason for this disconnect could be the fact that the AO is an abstract noun, and thus cannot be acted upon as a true object.

a. Bà-léndò bà-bà-pík-íl-íw-à

- *Rays i-pik-il-iw-a balendo ba-lendo (kuli wopika) C9-rice C9.SM-APPL-(PASS)-FV C2-guest BY C2.ADJ-NOM-cook-FV
- 'The rice was cooked for the guests by the chef (intended)' yà bà-lèndò (kùlì w-ò-pík-à)
- C9-rice C9.SM-APPL-(PASS)-FV FOR C2-guest BY C2.ADJ-NOM-cook-FV 'The rice was cooked for the guests by the chef'
- e. à-bà ndìyé bà-léndò bà-mènè ò-píík-à à-nà-pík-íl-à V-C2 is C2-guest C2-REL NOM-cook-FV C1.SM-PST-cook-APPL-FV C9-rice
- * Town Nyanja allows the extraction of both the AO and the DO in benefactive applicatives without an OM.

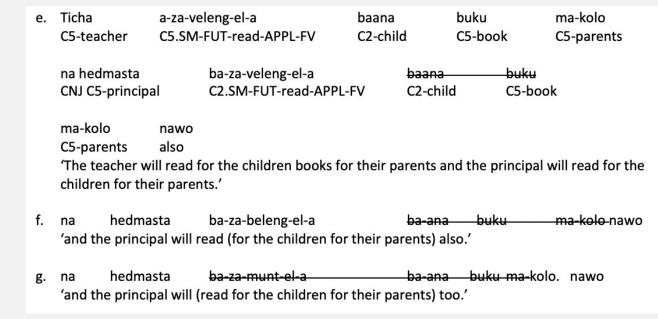
VP Ellipsis

a.	Ticha	a-beleng-el-a	baana	buku-	na		
	C5-teacher	C5.SM-read-APPL-FV	C2-child	C5-book	CNJ		
	ba-mayo	ba-beleng-el-a	* ba-ana	buku	nawo		
	C2-mother	C2.SM-read-APPL-FV	C2-child	C5-book	also		
	'The teacher is reading a book for the children and the mothers are too.'						
b.	Ticha	a-beleng-el-a	ba-ana	buku	na		
	C5-teacher	C5.SM-read-APPL-FV	C2-child	C5-book	CNJ		
	ba-mayi	ba-veleng-el-a	baana	buku	nawo		
	C2-mother	C2.SM-read-APPL-FV	C2-child	C5-book	also		
	The teacher is reading a book for the children and the mothers are too.						

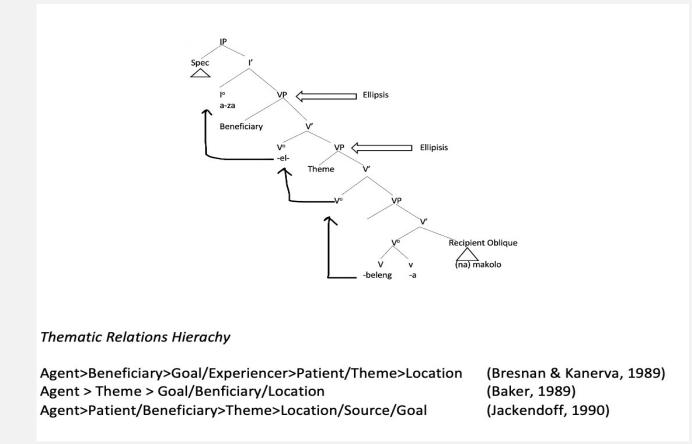
The DO can be elided on its own, but the AO cannot be elided on it own. It possible to omit both the AO and DO together so that only the verb remains and moves to INFL.

The teacher will read a book for the children for the parents, and the principal will read for th

The shows the structure of the applicatives is hierarchal and both objects must be within a large VP complex, but not the same minimal VP. This is what derives the asymmetry in Town Nyanja DOC



* With more than one AO none of the objects can be omitted on their own, unless they are grouped. The issue here is in TN the recipient is generated below the DO.



Passivization & Extraction

- C2-guest C2.SM-C2.OM-cook-APPL-PASS-FV C9-rice BY C2.ADJ-NOM-cook-FV 'The guests are being cooked rice by the chef'
- ndìyè ràys yà-mènè ó-pík-à à-nà-pík-íl-à C9.SM-this is C9-rice C9-REL NOM-cook-FV C1.SM-PST-cook-APPL-FV C2-guest
- 'This is the rice the chef cooked for the guests'
- 'These are the guests the chef cooked rice for'
- In benefactive applicatives the AO is expressed as the passive subject; the direct object cannot be the grammatical subject

Asymmetric Causatives

- * The asymmetry in the causative mirrors the asymmetry of the benefactive applicatives.
- The causee *wopika* appears takes all the primary object properties.
- Like the asymmetric applicatives, via head movement, the derived verb root combines with the CAUS and moves INFL to receive tense and subject marking.

Object Marking

- 'The doctors love themselves more than they love the nurses' (preferred meaning)
- 'The patient gave himself (it) the medicine' C2-doctor C2-HAB-love-RECIP-FV more.than C2-nurse

Downing (2018) Evolution of the Function of Object Marker

Stage II: the object marker has a *purely anaphoric* function, as it cannot occur within the limits of the clause [TP/IP] containing an overt co-referential Stage II: Town Nyanja

the object marker acquires an additional agreement function, as it obliretains an anaphoric function as it can also represent, on its own,

-referential DP that is not contained within the limits of the clause.

- Stage III: at this stage, the pronominal marker has a *purely agreement* function, as it cannot represent on its own a co-referential DP not contained within the limits of the clause.
- The RFX cannot take an OM as it occupies the same position as the OM on the verb.
- TN only allows one object to be marked on the verb. * At the very least the RFX is an anaphor bound within its binding domain while the RECIP is morphological

operation that reduces the number of objects

Closing Remarks

OM Passive Subj Reciprocalization Extraction AO AO Circumstantial A0,D0 Instrumental AO,DO ✓

Asymmetric Causatives

. Balendo ba-pik-is-a

C2-guests C2.SM-cook-CAUS-FV C9-rice C2-NOM-cook-FV

The chef is made to cook rice for the guests'

Rice is made by the chef for the guests'

C2.SM-C2.OM-cook-CAUS-FV C2-NOM-cook-FV C9-rice

C2.SM-cook-CAUS-PASS-FV C9-rice for C2-guests

C9-rice C9.SM-cook-CAUS-PASS-FV C2-NOM-cook-FV for C2-guests

- Aysmmetry is not characteristic of all applicative constructions, deriving the symmetry should be undertaken for Locative and Instrumental Applicatives. The asymmetric structure of the VP in Town Nyanja Benefative & Malefactive applicatives is OM in Town Nyanja is changing from purely anaphoric to both anaphoric and agreement
- Double object causatives also exhibit asymmetries The affect of reciprocalization on primary objects needs to be addressed

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the verb.