

POZNAŃSKIE TOWARZYSTWO PRZYJACIÓŁ NAUK
WYDZIAŁ FILOLOGICZNO-FILOZOFICZNY
KOMISJA JĘZYKOZNAWCZA
we współpracy
Z INSTYTUTEM JĘZYKOZNAWSTWA
UNIwersytetu im. Adama Mickiewicza w Poznaniu

LINGUA POSNANIENSIS

CZASOPISMO
POŚWIĘCONE JĘZYKOZNAWSTWU
PORÓWNAWCZEMU I OGÓLNEMU

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WITHIN AND ACROSS LANGUAGES

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The middle as a voice category in Bantu: Setting the stage for further research

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The main goal of our paper is to give a first, general description of middle voice in Bantu. As will be shown, this language group has a set of verbal derivational morphemes that challenges some of the concepts related to the middle domain. First of all, as of yet no description has been found of a language having more than one middle marker, yet many Bantu languages have up to four or five derivational morphemes that cover several parts of the semantic domain of the middle. Secondly, provided that the polysemy patterns of these morphemes only partially cover what is generally considered the “canonical” middle domain, we will call these “quasi-middle” markers. The fact that these verbal morphemes also convey notions that are usually not considered to belong to the domain of the canonical middle calls for a reassessment of what constitutes the semantic core of this voice category cross-linguistically. Although the theoretical implications of these new data are not the central focus of our paper, the basic description that we aim to provide of the middle in Bantu can nevertheless contribute to further discussion on this intricate voice category.

Keywords: Bantu, intransitivization, middle voice, quasi-middle, verbal morphology

1. Introduction

The middle voice is well-known to be a complex and sometimes messy linguistic category (Shibatani 2004: 1149). Although it has been described for a number of both ancient Indo-European (such as Greek, Sanskrit or Hittite; see, e.g., Jasanoff 1978; Allan 2003) and non-Indo-European languages (among many others, cf. Culy & Fagan 2001; Palancar 2004; Nagaya 2009), it has proven difficult, if not impossible, to establish a coherent set of core properties and to identify middle voice as a cross-linguistically and typologically valid concept (Kazenin 2001: 923). For our comparative and typological-oriented Bantu research, we employ a working definition of the middle as a verbal category regularly encoded by means of verbal morphology (e.g. verbal suffix, type of

inflection etc., typically called “middle marker(s)” in the grammars of the corresponding languages; see Kemmer 1993: 15) that is used to encode a variety of closely related functions which (i) belong to the domain of voices and voice-related categories, (ii) focus the activity expressed by the base (most often, transitive) verb on one single argument, and (iii) syntactically, amount to intransitivization of the base verb. In most languages where the grammatical tradition posits the category of the middle, the functions of the middle marker include the reflexive, the passive, the anticausative, the antipassive, and the reciprocal (which can be considered as the functional core of this category) as well as, very often, a few other related functions, such as autobenefactive or impersonal. Accordingly, the content of the category of middle can be considered as a cluster of both semantically and syntactically closely-related (usually associated with intransitivization) functions (see Kulikov 2013: 265-266). In the event when a verbal marker is used to encode more than one (two or three) functions of the middle domain, which do not however encompass the major part of the middle domain, we will use the working term ‘quasi-middle’.

The main goal of our paper is to give a first, general description of middle voice in Bantu. The middle as a distinct voice category has never been the subject of systematic research in Bantu linguistics. This is largely due to the fact that Bantu languages do not have one single verbal suffix expressing the manifold grammatical functions and lexical categories subsumed under middle voice. Rather, as we will show here, many Bantu languages make use of multiple derivational morphemes that denote only a part of the functions of the canonical middle domain. Although the properties of these verbal suffixes largely correspond to the four components of our definition of the middle, as we show in this article, the range of their functions never spans the entire middle domain. We therefore label them ‘*quasi-middles*’. From a historical point of view, they might also be called ‘*proto-middles*’ in the sense that they could develop into canonical middles (cf. Grestenberger 2016: 138 et passim for a discussion of the Proto-Indo-European non-canonical middle, presumably a proto-middle).

In the typological literature, Bantu language data have either been neglected in discussions on the middle voice, or, still more regrettably, misinterpreted. In particular, Kemmer (1993: 26) categorizes the Bantu languages Changana and Pangwa as languages with a one-form middle system. This would mean that these languages have a single middle marker which is also used to denote reflexivity. However, as the overview in (1), which presents some of the examples cited by Kemmer (1993), shows, Changana does not have one, but (at least) two verbal morphemes that denote middle situation types.

- (1) a. Reflexive/middle *-ti-*
- | | | |
|---|--------------------------------|-----------------------------------|
| <i>ku ti-tekela</i> | ‘take for oneself’ (p. 17) | [indirect middle/autobenefactive] |
| <i>ku ti-milela</i> | ‘germinate, sprout’ (p. 19) | [spontaneous event] |
| <i>ku ti-tsakela</i> | ‘be(come) happy’ (p. 21) | [emotive middle] |
| <i>ku ti-nwaya</i> | ‘scratch, rub oneself’ (p. 61) | [bodily action middle] |
| b. Reciprocal/middle <i>-an-</i> ¹ | | |
| <i>ku ring-an-a</i> | ‘be(come) similar’ (p. 107) | [naturally reciprocal event] |

¹ In correspondence with common practice in Bantu linguistics, we reparsed what Kemmer considers to be the ending *-na* as the verb root extension *-an-*, which is followed by the default final vowel *-a*.

- ku hamb-an-a* ‘be separate, different’ (p. 107) [naturally reciprocal event]
ku thlang-an-a ‘reunite, be reunited’ (p. 107) [sociative middle]

Bantu languages have a rich set of verbal affixes, which are used for a diverse range of functions, such as co-reference of core arguments, tense-aspect-mood-negation, information structure, and certain types of verbal derivation (Bearth 2003; Schadeberg 2003; Nurse 2008). Derivational suffixes immediately follow the verb root and are therefore also called ‘extensions’. They are a typical feature of the Bantu verbal system. Several of those that are still found in present-day Bantu languages have been reconstructed to Proto-Bantu (Meeussen 1967: 92). As can be seen in (2), most suffixes have a -VC- shape (Schadeberg 2003: 72). The common Bantu reflexive marker, reconstructed in Proto-Bantu as **(j)i-* (Meeussen 1967: 109–110), is to be distinguished from the derivational root extensions in that it is a prefix occurring in the verb morpheme slot that is reserved for object markers (Marlo 2015). The names of these morphemes are adopted from Schadeberg (2003).

(2) List of Proto-Bantu reconstructions of derivational morphemes

<i>*(j)i-</i>	reflexive
<i>*-i/-ici</i>	causative
<i>*-il-</i>	applicative
<i>*-ik-</i>	impositive
<i>*-ik-</i>	neuter
<i>*-am-</i>	positional (stative)
<i>*-an-</i>	associative (reciprocal)
<i>*-ag- ~-ang-</i>	repetitive
<i>*-al-</i>	extensive
<i>*-at-</i>	tentive (contactive)
<i>*-ul-; -uk-</i>	separative tr.; intr. (reversive)
<i>*-u/-ibu-</i>	passive

In this paper, we discuss the middle status of the present-day reflexes of the five Proto-Bantu derivational morphemes marked in bold (§2). Although the semantics of other suffixes, such as the extensive **-al-* or the tentive **-at-*, might also be related to the middle domain, we discuss here those verbal suffixes for which the literature is vast enough to give a comparative and historical discussion. In §2, we provide an overview of the functions encoded by these morphemes: the neuter suffix **-ik-* (§2.1), the positional suffix **-am-* (§2.2), the associative suffix **-an-* (§2.3), the separative intransitive suffix **-uk-* (§2.4), and the reflexive prefix **(j)i-* (§2.5). At the end of each subsection a semantic map, based on Kemmer (1993), is provided showing the overlap between the canonical middle domain and the functions of the particular derivational morpheme. The typological implications of languages with multiple (quasi-)middle markers are sketched in §3. Finally, conclusions will be presented in §4. For the most part, data stem from either published (Bostoen et al. 2015) or unpublished (Bostoen 2010, Dom 2015) studies, or come from on-going research.

An important caveat to the general character of our description is that it is not our intention to classify these suffixes as quasi-middles in all Bantu languages. For each and every individual language, the four properties of our working definition of the middle

voice have to be checked. We would only suggest considering a particular affix as a quasi-middle marker in a particular language, if in that language it exhibits a polysemy including two or more middle categories. With this study we provide important evidence for a typological research on the category of quasi-middle.

2. Middle status of Bantu derivational suffixes

2.1. The neuter suffix **-ik-*

The neuter suffix is used in three types of constructions, of which the first type can be defined as derivations in which the corresponding object of the active clause is promoted to subject position, and the corresponding subject is demoted to an oblique position or omitted. This first type includes anticausative (3), agentless passive (4) and passive (5) constructions.

- (3) Bena (Tanzania) (Morrison 2011: 368)
- | | | | | |
|----|---|-----------------------------------|---|-----------------------------|
| a. | <i>u-mu-ana</i> | <i>a-haa-deeny-ile</i> | <i>u-tu-bihi</i> | <i>igólo</i> . ² |
| | AUG ₁ -CL ₁ -child | SM ₁ -PST-break-FV | AUG ₁₃ -CL ₁₃ -tree | yesterday |
| | ‘The child broke the twig yesterday.’ | | | |
| b. | <i>u-tu-bihi</i> | <i>tu-haa-deeny-ih-ile</i> | <i>igolo</i> . | |
| | AUG ₁₃ -CL ₁₃ -tree | SM ₁₃ -PST-break-NT-FV | yesterday | |
| | ‘The twig broke yesterday.’ | | | |
- (4) Chewa (Malawi) (Dubinsky & Simango 1996: 751)
- | | | |
|---|----------------------------------|-------------------------|
| <i>m-bale</i> | <i>zi-na-tsuk-ik-a</i> | <i>(*ndi Naphiri)</i> . |
| CL ₁₀ -plate | SM ₁₀ -PST-wash-NT-FV | by Naphiri |
| ‘The plates were washed (*by Naphiri).’ | | |
- (5) Tumbuka (Malawi) (Chavula 2016: 65)
- | | | |
|--|----------------------------------|----------------------------|
| <i>n-duna</i> | <i>zi-ka-cem-ek-a</i> | <i>na Chikulamayembe</i> . |
| CL ₁₀ -minister | SM ₁₀ -PST-call-NT-FV | by Chikulamayembe |
| ‘The ministers were called for by Chikulamayembe.’ | | |

These three derivations can usually, though not always, be clearly distinguished from each other. The anticausative alternation is typically restricted to the class of verbs that allow for both an agentive-transitive and a spontaneous-intransitive argument construction. Typically, the latter does not allow for oblique agentive phrases (‘passive agent’) and, moreover, lacks the agent role in its semantic structure, thus differing from the syntactically similar but semantically distinct agentless passive. By contrast, the (canonical) passive construction necessarily implies the presence of a passive agent, as shown for Ndebele in (6).

² We have unified the various glosses of different authors into a consistent system.

- (6) Ndebele (Zimbabwe) (Khumalo 2009: 168)
- a. *isi-valo s-a-val-ek-a* (*ngu Thabo).
 CL₇-door SM₇-PST-shut-NT-FV by Thabo
 'The door closed (*by Thabo).'
- b. *isi-valo s-a-val-w-a* (ngu Thabo).
 CL₇-door SM₇-PST-shut-PASS-FV by Thabo
 'The door was closed (by Thabo).'

The agentless passive construction combines features of the anticausative and passive. On the one hand, its argument structure is identical to that of the anticausative in that the patient is in subject position and the agent cannot be expressed, although it is still semantically implied (Kulikov 2011: 230-232). The latter thus also cannot be introduced in an oblique phrase. On the other hand, the semantics of the derived verbs do not allow for a spontaneous-intransitive reading, which differentiates it from the anticausative and makes it more like a passive construction. Such is the case in example (4) above, where a reading of the plates having washed themselves seems improbable, if not impossible in a real-world, non-magical interpretation. However, just as with the anticausative construction, agentive noun phrases make the sentence ungrammatical (cf. (4) above). Only in the event that the constraint of the lack of the agent/agentive noun becomes optional, does the functional range of the neuter morpheme expand so as to include passive proper. To our knowledge, the only Bantu language where this change has been reported so far is Tumbuka, illustrated above in (5). There is interesting syntactic variation across Bantu with regard to how extended neuter verbs pattern with oblique and instrumental phrases, adverbs, or purpose clauses. Due to space constraints, we cannot discuss such differences here, but we refer the reader to Dom (2014, 2015: 10-16).

The second type of constructions marked by the neuter suffix are patient-oriented potentials. In these constructions, the subject is typically a patient-like participant to which a quality, denoted by the verb, is attributed. To this type belong potential passives (7) and facilitatives (8).

- (7) Swahili (Tanzania) (Seidl & Dimitriadis 2002: 254)
Ø-godoro li-na-lal-ik-a.
 CL₅-mattress SM₅-PRS-sleep-NT-FV
 'This mattress can be slept on.'
- (8) Tswana (Botswana; South-Africa) (Creissels 2002: 403)
Mae a thubega motlhofo.
mái á-thúb-éχ-à mòtlhòfò.
 CL₆-egg SM₆-break-NT-FV easily
 'The eggs break easily.'

As shown in (7), this type of constructions differs from the previous in terms of transitivity. Intransitive verbs, such as Swahili *kulala* 'sleep', can be derived by the neuter with a potential passive reading, whereas anticausative and (agentless) passive constructions can only be derived from transitive verbs. Moreover, although in (8) the verb allows an anticausative derivation, the potential passive reading is construed through the

use of specific (non-completive, non-past) TAM inflections and the manner adverb *mòtthòfò* ‘easily’.

The third and last type of constructions are restricted to perception verbs. The experiencer is typically demoted or omitted and the subject position is either occupied by a promoted stimulus participant or a covert generic participant. This last type includes stimulus (9) and evidential (10) constructions.

- (9) Ganda (Uganda) (UGent Luganda Corpus compiled and queried by Deo Kawalya)

[...] *birabiké búlúngi nga bítereddé.*

bi-lab-ik-e *bu-lungi nga* *bi-tereer-e.*

SM₈-see-NT-SBJV CL₁₄-nice like SM₈-be_in_order-SBJV

‘[...] so that they look nice as if they are in order.’

- (10) Luragooli (Kenia; Tanzania) (Bowler & Gluckman 2016: 3)

- a. Indirect evidentiality (hearsay)

*é-hol-ek-a*³ *kuresa* *vu-ge* *vu-ar-é* *vu-hare*
SM₉-hear-NT-FV like CL₁₄-party CL₁₄-COP-FV CL₁₄-good

‘It sounds like the party was fun.’

- b. Direct evidentiality (auditory)

ga-hol-ek-a *kuresa* *vu-ge* *vu-ar-é* *vu-hare*
SM₆-hear-NT-FV like CL₁₄-party CL₁₄-COP-FV CL₁₄-good

‘It sounds like the party was fun.’

(10a) and (10b) differ in evidentiality (indirect vs. direct). The former is conveyed, on the one hand, by using the subject marker of class 9 on the derived perception verb. This would, for example, be uttered by a speaker who has been told that the party was good. Direct evidentiality, on the other hand, is expressed through the use of the class 6 subject marker, i.e. (10b) would be uttered by someone who overheard a loud party in a room next to him.

Having outlined the three types of constructions in which the neuter is used, it is evident that this suffix is not a prototypical middle marker. Its locus in the middle domain spans only patient-oriented constructions, and a number of its functions, such as potential passive, stative, stimulus and evidentiality, are generally not considered as subcategories of the middle voice. This is shown in Figure 1, where the cross-Bantu semantic range of neuter **-ik-* is plotted on a semantic map of the middle domain as proposed in Kemmer (1993: 202) with some minor modifications. Nevertheless, in many Bantu languages, neuter **-ik-* does conform to the definition of the middle morpheme as encoding a “cluster of deagentivized (intransitivized) syntactic patterns” (Kulikov 2013: 265) that focus the activity expressed by the base verb on one single argument (subject).

³ Perception verbs derived by the neuter are not the only possible predicates of evidential constructions in Luragooli. There is the underived verb *kufana* ‘to seem’ or the passive *kusoverwa* ‘to be believed’, and cognition and speech verbs, nevertheless derived by the neuter, such as *kumanyeka* ‘to be known’ and *kuvoleka* ‘to be said’ (Bowler & Gluckman 2016).

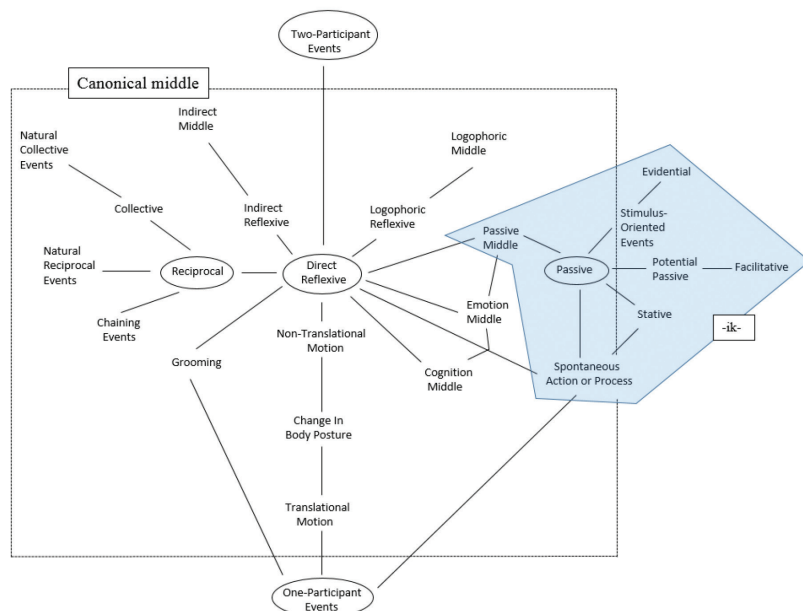


Figure 1. The cross-Bantu semantic range of neuter **-ik-* plotted on the semantic map of the middle domain (cf. Kemmer 1993)

2.2. The positional suffix **-am-*

In most Bantu languages, this suffix does not affect the argument structure of the verb. Rather, as Schadeberg (2003: 75) writes, “the common element of meaning is ‘assuming a position’, or – when used in a perfective aspect form – ‘to be in a position’”. According to this definition, the semantic value of this morpheme is closely related to middle situation types of non-translational motion and change in body posture (Kemmer 1993: 55-56). However, the semantic range of common Bantu verbs extended with *-am-* indicates that it is considerably larger than just ‘positional’, as the Bantu lexical reconstructions from Bastin et al. (2002) in (11) show.⁴

(11) Positional

- *-bátam-* ‘be flat or level’; ‘lie flat’
- *-dòdam-* ‘be straight’
- *-bókam-* ‘sit’

⁴ As one reviewer noted, the roots of these Proto-Bantu verbs having the **-am-* extension are not reconstructed without this suffix. They are deponents in the sense of Kemmer (1993:22), viz. “[middle marked] verbs [that] lack unmarked counterparts.” We nevertheless analyze these verbs as [root+suffix] on the basis of the formal criteria that in Bantu verb roots have the morphophonological structure -CV(NC)-, and that any verb base with a longer morphophonological structure includes derivational morphology (Schadeberg 2003: 71-72).

Spontaneous/stative

- *-*pákam-* 'be jammed', 'be wedged'
 *-*còmam-* 'be inserted', 'put in'
 *-*bòmbam-* 'be wet'

Non-translational motion

- *-*jìnam-* 'bend over'
 *-*jácam-* 'open the mouth'; 'yawn'
 *-*pàpam-* 'flap wings', 'flutter'

Emotion

- *-*bòngam-* 'be sad'
 *-*cònam-* 'be in a bad mood'
 *-*dápam-* 'be greedy in eating'

Translational motion

- *-*dòngam-* 'go straight'
 *-*búgam-* 'paddle'
 *-*tèntam-* 'go at the top of'

Cognition

- *-*dúdám-* 'forget'

Interestingly, in several Bantu languages, especially those spoken in the vicinity of the Middle and Lower Congo River, the positional suffix has become the canonical passive marker (Grégoire 2003: 365; Schadeberg 2003: 76), as in the Lingala example in (12). A similar shift has been observed in vehicular Kikongo (Fehderau 1962), also known as Kikongo ya Leta, Kituba or Monokutuba (13), as well as in certain vernacular Kikongo varieties (Kisilu Meso 2001: 32; Kouarata 2015: 89).

- (12) Lingala (DR Congo; Republic of the Congo) (Meeuwis 2010: 155-156)

mbóngo e-bómb-ám-áki na moyibi.
 money SM_{3SG.INAN}-hide-PASS-PST by thief
 'The money was hidden by the thief.'

- (13) Kituba (DR Congo; Republic of the Congo) (Fehderau 1962: 72)

mu-kanda Ø-me-tang-am-a na m-pangi na mono
 CL₃-book SM₃-PST-read-PASS-FV by CL₉-brother of me
 'The book was read by my brother.'

The list of verbs in (14) illustrate that in these languages the positional both occurs with verbs denoting middle situation types and encodes passive derivation.

- (14) Mongo (DR Congo) (Hulstaert 1957, 1965: 247-250)⁵

Middle

- kákema* 'hang up (intr.)'

⁵ When *-am-* immediately follows a verb root with vowel [a], the suffix is realized as *-em-*, or in case of a root with vowel [ε] it's realized as *-em-*. In all other cases the suffix is realized in its underlying form (Hulstaert 1965: 247).

- kólama* ‘(be) strand(ed), get stuck’
 -*kɔ́fama* ‘hang (oneself)’
 -*kukama* ‘be attached/stuck against (sth.)’
 -*télema* ‘stand up/be standing’

Passive

- | | | | |
|----------------|----------------|------------------|----------------------|
| - <i>laka</i> | ‘teach’ | - <i>lakema</i> | ‘be taught’ |
| - <i>lela</i> | ‘want, desire’ | - <i>lelama</i> | ‘be desired, wanted’ |
| - <i>sála</i> | ‘cut’ | - <i>sálema</i> | ‘be cut’ |
| - <i>sana</i> | ‘play (sth.)’ | - <i>sanema</i> | ‘be played’ |
| - <i>tómba</i> | ‘carry’ | - <i>tómbama</i> | ‘be carried’ |

In Figure 2, the semantic range of the positional **-am-* is projected on the map of the canonical middle domain. Compared to the neuter suffix **-ik-*, the positional seems to have much fewer semantic outliers (i.e., only one) and covers more middle situation types.

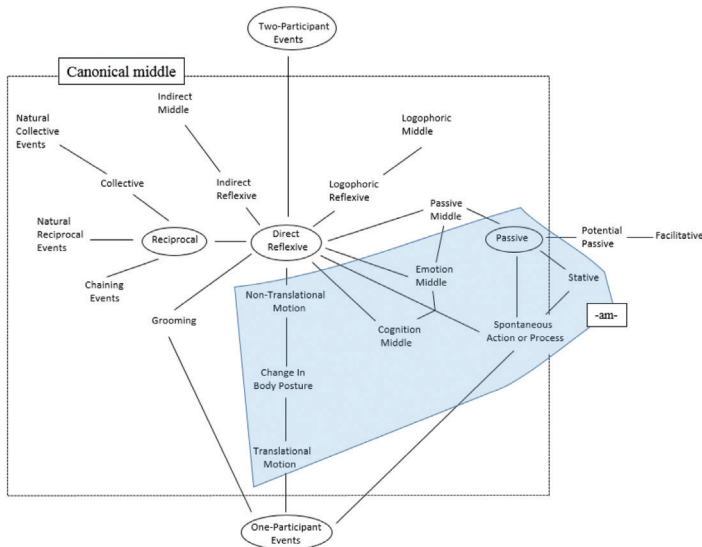


Figure 2. The cross-Bantu semantic range of positional **-am-* plotted on the semantic map of the middle domain (cf. Kemmer 1993)

2.3. The associative suffix **-an-*

Reflexes of the associative suffix **-an-* encode in Bantu languages what is more generally known as sociative and reciprocal derivation (Nedjalkov 2007a). This extension is notoriously polysemous. Bostoen et al. (2015) give an extensive, cross-Bantu overview of its varied uses. They include the fourteen grammatical categories and lexical classes listed in (15).

- | | |
|---------------------------------------|---------------------------|
| (15) a. Grammatical categories | b. Lexical classes |
| antipassive | body action events |
| comitative | chaining events |
| intensive/extensive | cognition events |
| iterative | natural collective events |
| mediopassive | natural reciprocal events |
| potential | spontaneous events |
| reciprocal | |
| sociative/collective | |

Even though this high polysemy is remarkable per se, some functions still spark more interest than others, if one acknowledges that sociativity/reciprocity constitutes the semantic core of this morpheme. The main goal of Bostoen et al. (2015) is to give antipassive voice recognition in Bantu linguistics, which was often neglected or referred to with idiosyncratic terminology in descriptions of individual languages. From a typological perspective, however, the diachronic path in which reciprocal markers extend their usage to include antipassive function is not uncommon cross-linguistically (Nedjalkov 2007b: §9.2; Janic 2016: §7.4), and thus well-known among general linguists. As illustrated in (16), Rundi is a Bantu language where associative *-an-* also marks the antipassive.

- (16) Rundi (Burundi) (Bostoen et al. 2015: 736)
- | | |
|--|--|
| <i>a-ma-hwá</i> | <i>a-ra-zibur-an-a</i> |
| AUG ₆ -CL ₆ -thorn | SM ₆ -PRS.DISJ-prick-ASS-FV |
| ‘Thorns prick (people).’ | |

Generally speaking, the polysemy of associative *-an-* can be semantically accounted for through the cross-linguistically common concept of ‘plurality of relations’ (Lichtenberk 2000; Janic & Segerer 2011; Bostoen et al. 2015: §3.5). In some languages, however, the associative has acquired functions that cannot be explained in this way. It can be used as a comitative suffix introducing an instrumental participant, such as *mondó* ‘tail’ in the Duala example in (17). In Bantu, instrument-like participants are generally rendered by prepositional phrases. In example (18a) from Rwanda, the comitative function of associative *-an-* promotes the manner NP *úmweête* ‘enthusiasm’ as a direct object, although the common strategy with the comitative preposition *na* is also still available as in (18b).

- (17) Duala (Cameroon) (Helmlinger 1972: 399)
- | | | | | |
|--|--------------------------------|-----------------------|--------------------|----------------------------|
| <i>náka</i> | <i>e-ma-bol-an-ε</i> | <i>mondó</i> | <i>ó pang-an-ε</i> | <i>ngingi</i> |
| CL ₉ .cow | SM ₉ -PRS-do-ASS-FV | CL ₃ .tail | to chase-ASS-FV | CL ₁₀ .mosquito |
| ‘The cow uses its tail to chase away mosquitos.’ | | | | |
- (18) Rwanda (Rwanda) (Kimenyi 1988: 369)
- | | | |
|--|----------------------------------|--|
| a. Associative as instrumental marker | | |
| <i>u-mu-góre</i> | <i>a-rá-kôr-an-a</i> | <i>akazi u-mw-eête</i> |
| AUG ₁ -CL ₁ -woman | SM ₁ -PRS-work-ASS-FV | work AUG ₃ -CL ₃ -enthusiasm |
| ‘The woman is working with enthusiasm.’ | | |

b. Instrumental preposition *na*

<i>u-mu-góre</i>	<i>a-rá-kôr-a</i>	<i>akazi</i>	<i>n'</i>	<i>û-mw-eête</i>
AUG ₁ -CL ₁ -woman	SM ₁ -PRS-work-FV	work	with	AUG ₃ -CL ₃ -enthusiasm
'The woman is working with enthusiasm.'				

More relevant to our discussion on the middle voice are Bantu languages in which associative *-an-* marks a number of middle situation types. Again, some of these have close connections to its core meaning of sociativity/reciprocity, such as natural reciprocal, sociative and chaining events. However, it is also found with middle meanings that are further removed from its semantic core, such as body action, cognition and spontaneous events. These different middle situation types are illustrated for various Bantu languages in (19) and (20).

(19) Verbs denoting middle situation types marked by the associative

a. Natural reciprocal and sociative events in Luba-Kasai (DR Congo) (Kabuta 2008)

<i>-fwàngana</i>	'discuss' (p. 107)
<i>-fwàna</i>	'resemble' (p. 107)
<i>-pùükana</i>	'find, meet, bump against; succeed' (p. 285)
<i>-sangana</i>	'find, meet' (p. 291)

b. Body action and cognition/emotion events in Fang (Gabon) (Bostoen and Nzang-Bie 2010: 1279-1280)

<i>-tsim-a</i> ⁶	'wipe one's arse'
<i>-fɔl-a</i>	'change oneself, change clothes'
<i>-wúr-á</i>	'huddle up, flinch, wince'
<i>-kɔr-a</i>	'fold (arms, hands), cross (legs)'
<i>-yá-á</i>	'get angry'
<i>-zob-a</i>	'regret, be embarrassed by unpleasant news, be sad'
<i>-sím-á</i>	'remember, think'

c. Spontaneous/stative events in Orungu (Gabon) (Ambouroué 2007: 188)

<i>-βúrànà</i>	'bend (intr.)'
<i>-βàndyànà</i>	'scatter (intr.)'
<i>-yìrànà</i>	'flow'
<i>-wòndyànà</i>	'get wounded'

(20) Lingala (DR Congo, Republic of the Congo) (Bostoen et al. 2015: 750)

<i>mí-tuka</i>	<i>mísátu</i>	<i>e-tút-án-í</i>
CL ₄ -car	three	SM _{3PL,INAN} -hit-ASS-PRF
'Three cars have bumped into one another.'		

In contrast to the neuter, the semantic space of the associative is mainly centred on agent-oriented constructions and situation types, as is shown in Figure 3. For reasons of representation, the demarcation of what constitutes the semantic space of the canonical middle has been modified to facilitate the comparison to the semantic space of the associative.

⁶ In this language the reflex of Proto-Bantu **-an-* is the suffix *-a*.

- (22) Classification of Proto-Bantu *-ok- verbs from Schadeberg (1982: 61-65) into middle situation types
- | | |
|---|--|
| <p>a. ((Non-)Translational) Motion</p> <ul style="list-style-type: none"> *-jibok- 'come out of water' *-jinok- 'straighten oneself, go home from work' *-jinok- 'come out of water' *-jidok- 'run' *-kidok- 'jump over' *-kébok- 'look around/behind' *-jèpok- 'avoid, get out of the way' *-táok- 'come out/from' *-jàbok- 'cross river' *-gàdok- 'come/go back' *-cómok- 'come out' *-kòtok- 'go home from work' *-kùok- 'come out' *-gòdok- 'fly' *-pòdok- 'escape' *-tòyòdok- 'come/go down' *-bùtok- 'run' *-bùtok- 'come/go back' <p>b. Change in body posture</p> <ul style="list-style-type: none"> *-jímok- 'stand up' *-pi(n)dok- 'turn over, alter (intr.)' (also spontaneous event) *-támbok- 'walk, travel' <p>c. Spontaneous event</p> <ul style="list-style-type: none"> *-diok- 'revive (intr.)' *-tìtimok- 'be startled, wake up' *-jítok- 'startled' *-cèdok- 'boil up, froth up' *-pépok- 'light in weight, get blown away' (also stative) *-dàmok- 'wake up (intr.)' *-kámok- 'dry up (intr.)' *-jàmbok- 'spread (as a disease or fire)' *-bábok- 'sing (intr.)' *-badok- 'split (intr.)' *-gàdok- 'turn, alter' *-jápok- 'separate, split (intr.)' *-játok- 'split (intr.)' *-mónyok- 'break off (intr.)' *-tòtomok- 'boil up/over' *-tòmbok- 'burst open' *-cùbok- 'have a rash' *-dùok- 'fall off (of clothes)' | <p>d. Cognitive</p> <ul style="list-style-type: none"> *-jibok-/jijok- 'remember' *-kòmbok- 'remember' <p>e. Stative</p> <ul style="list-style-type: none"> *-dèdok- 'be light' *-cóngok- 'be sharp, pointed' *-godok- 'be straight' *-cúok- 'be ugly' |
|---|--|

In Cuwabo (Mozambique), the separative intransitive is still used to mark different middle situation types, such as change in body posture (23), translational motion (24), emotion events (25), and spontaneous processes (26).

- (23) *a-zugúnúw-á* *a-dh-á* *a-malríh-a* *dhi-ója*
 SM₁-turn_round-FV.SEQ SM₁-come-FV.SEQ SM₁-finish-FV.SEQ CL₁₀-food
a-já *a-eká*
 SM₂-eat-FV.SEQ CL₂-alone
 ‘He (the cat) turned round, came to finish the food alone’
 (Guérois 2015: 684)
- (24) *o-hí-búddúw-a* *mú-nddimúwa* *mwáná-kálába*
 SM₁-PFV.DISJ-go_out-FV CL₁-old_man CL₁.child-CL_{1a}.senior
 ‘An old man came out.’
 (Guérois 2015: 613)
- (25) *ábále* *ddabunó* *a-oté=éne* *a-hi-jibúluw-a*
 CL₂.DEM_{III} then CL₂-all=INT SM₂-PFV.DISJ-get_upset-FV
 ‘All those around got upset.’
 (Guérois 2015: 624)
- (26) *á-yíma* *ábá* *a-hi-únúw-a* *va-ñgónó* *va-ñgónó*
 CL₂-child CL₂.DEM_I SM₂-PFV.DISJ-grow-FV CL₁₆-little CL₁₆-little
 ‘These children grew up little by little.’
 (Guérois 2015: 607)

Interestingly, the separative intransitive suffix has undergone a similar functional expansion in Cuwabo as the reflex of positional **-am-* in several languages in the north-western part of the Bantu domain (cf. §2.2). In this language it has become a passive marker, although in free variation with the regular reflex *-iw-* of the canonical Proto-Bantu passive suffix **-ibv-* (Guérois & Bostoen 2016). Both passive markers allow the agent to be introduced by an oblique prepositional phrase (27).

- (27) a. *guliwé* *e-hi-p-iw-á* *na* *mú-lóbwana*
 CL₉.pig SM₃-PFV.DISJ-kill-PASS-FV by CL₁-man
 ‘The pig was killed by the man.’
 (Guérois & Bostoen 2016: 2)
- b. *mí-ri* *dhi-ni-ó-j-uw-á* *na* *nyenyéle*
 CL₄-tree SM₄-IPFV.DISJ-CL₁₅-eat-PASS-FV by CL_{10a}.ant
 ‘The trees are being eaten by the ants.’
 (Guérois 2015: 339)

As far as we know, Cuwabo is the only language where this specific expansion of the separative intransitive from marking middle situation types to a canonical passive marker has taken place. With many Bantu languages still remaining un(der)described, future research might lead to the discovery of other languages where this development is attested.

As shown in Figure 4, apart from the canonical passive, only reported to be associated with the reflex of **-ok-* in Cuwabo, the separative intransitive suffix most commonly occurs with a wide range of verbs denoting middle situation types, which are actually the same as those covered by positional **-am-* (cf. Figure 2). The strong overlap

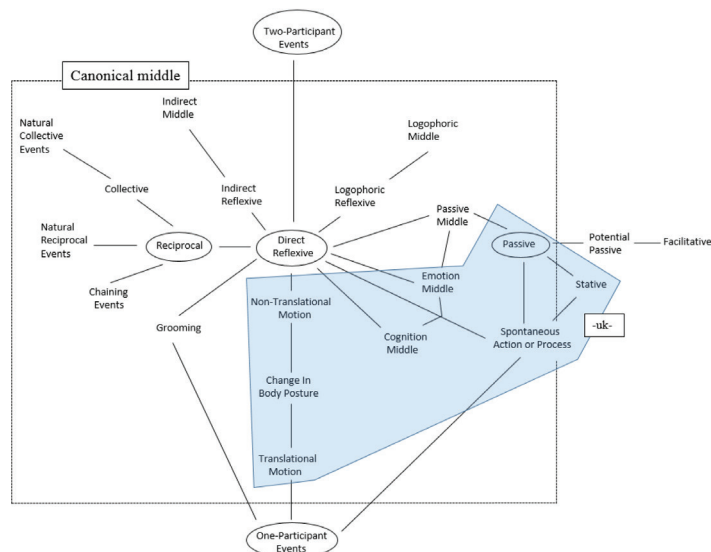


Figure 4. The cross-Bantu semantic range of separative intransitive **-uk-* plotted on the semantic map of the middle domain (cf. Kemmer 1993)

between the semantic content of these suffixes within the semantic space of the middle domain can be attributed, at least partly, to the fact that **-am-* did not originally convey the notion of movement out of some original position (see §2.2). Future comparative research on the functional domains of both suffixes in individual Bantu languages could shed more light on how they interact more specifically within the middle domain.

2.5. The reflexive prefix

Kemmer (1993) provides some examples of the reflexive marker *-ti-* in Changana (Mozambique) encoding middle situation types. Examples are shown in (1a), repeated here as (28).

- (28) Reflexive/middle *-ti-*
- | | | |
|----------------------|--------------------------------|-----------------------------------|
| <i>ku ti-tekela</i> | 'take for oneself' (p. 17) | [indirect middle/autobenefactive] |
| <i>ku ti-milela</i> | 'germinate, sprout' (p. 19) | [spontaneous event] |
| <i>ku ti-tsakela</i> | 'be(come) happy' (p. 21) | [emotive middle] |
| <i>ku ti-nwaya</i> | 'scratch, rub oneself' (p. 61) | [bodily action middle] |

In a number of South-Western Bantu languages spoken mainly in Angola, the poly-functionality of the reflexive not only extends to marking verbs denoting middle situation types, but also includes reciprocal derivation. Such is the case in Kwamashi, where the reflexive prefix *-ci-* is used for both the reflexive (29a), middle situation types (29b) and reciprocal (29c).

- (29) Kwamashi (Zambia) (Bostoen 2010: 1-2)
- a. Reflexive
 - thaura* ‘scratch’ > -*cí-thaura* ‘scratch oneself’
 - óá* ‘wash’ > -*cí-óá* ‘wash oneself’
 - b. Middle situation types
 - cí-engá* ‘dress well, wear ornaments’ [grooming]
 - cí-neka* ‘stand on tiptoe’ [change in body posture]
 - cí-uba* ‘be at peace’ [emotion]
 - c. Reciprocal
 - ka-tú-cí-mon-ine* *rero*
 - NEG-SM_{1PL}-RECP-see-PRF today
 - ‘We haven’t seen each other today.’

The historical associative suffix **-an-*, the most commonly used suffix for reciprocity in Bantu, has lost its productive derivational function as a reciprocal marker in Kwamashi and is only retained in a number of lexicalized verbs denoting middle situation types, as shown in (30a). However, the reflexive-reciprocal polysemy has become so pervasive that *-cí-* is now also used with verbs denoting naturally reciprocal events (30b).

- (30) Kwamashi (Zambia) (Bostoen 2010: 3)
- a. *-hang-an-a* ‘meet’
 - kan-an-a* ‘contradict, oppose’
 - ngum-an-a* ‘assemble, gather’
 - kwash-an-a* ‘lie flat’
 - tand-an-a* ‘roll in pain’
 - lyang-an-a* ‘be confused’
 - mbutum-an-a* ‘muse’
 - b. *-cí-andhipera* ‘quarrel’
 - cí-cídha* ‘race, compete’
 - cí-handa* ‘divorce’
 - cí-hata* ‘be near to, neighbours with’
 - cí-pitura* ‘look alike, be equal’
 - cí-sinya* ‘barter, exchange’

In other languages where the reflexive is involved in reciprocal derivation, it is often combined with the associative. The latter can, however, not be used individually to denote reciprocity. In Songye, for example, reciprocal derivation is marked by a combination of the reflexive prefix *-i-* and the suffix *-een-*, which is presumably a historical merger of the associative (*°-an-*) and applicative (*°-il-*). This is illustrated in example (31).

- (31) Songye (DR Congo) (Stappers 1964: 27)
- ku-i-lek-éen-a* ‘to leave each other’
 - ku-i-dil-éen-a* ‘to mourn each other’
 - ku-i-fut-éen-a* ‘to pay each other’
 - ku-i-sep-éen-a* ‘to laugh at each other’
 - ku-i-ab-éen-a* ‘to divide amongst each other’
 - ku-i-el-éen-a* ‘to bombard each other’

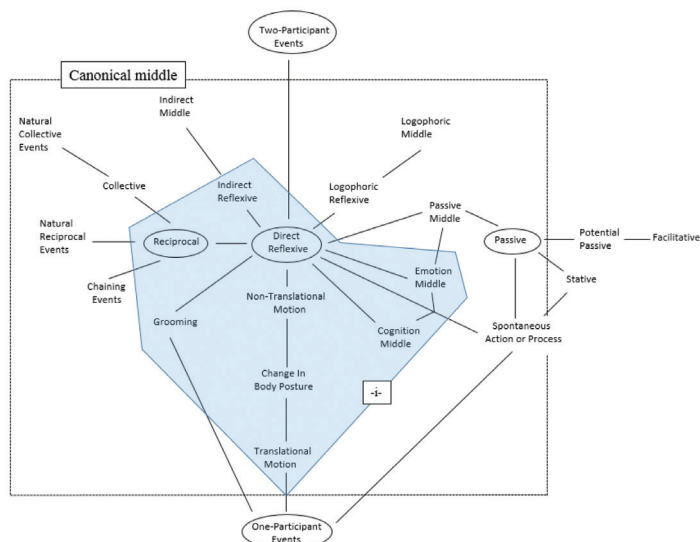


Figure 5. The cross-Bantu semantic range of the reflexive prefix*-(j)i- plotted on the semantic map of the middle domain (cf. Kemmer 1993)

In still other languages, such as Kaonde and Sanga (DR Congo), the reflexive and associative seem to be used in free variation as reciprocal markers (Bostoen 2010: 5). In Lunda, the associative has become largely lexicalized, but is still used as a reciprocal marker with a limited set of verbs next to the reflexive, which is the productive marker for reciprocity (Kawasha 2003: 325-326). Additional issues still remain to be studied and described in more detail, such as how these languages disambiguate reflexives with plural subject NPs and reciprocals. Hilde Gunnink (p.c.) reports that in Fwe (Zambia; Namibia), where reflexive-reciprocal polysemy is attested, the context and lexical semantics of the verb most often do not evoke ambiguity. However, if both a reciprocal and a reflexive reading would be available, speakers of Fwe can resolve the ambiguity by adding either *omuntu nomuntu* ‘each other’ or *-eni* ‘self, owner’. Nevertheless, our main goal here is to point out that in certain Bantu languages, the reflexive prefix functions as a quasi-middle marker denoting additionally middle situation types and/or reciprocity. Figure 5 shows that the semantic space of the reflexive as a quasi-middle marker covers a number of middle concepts *within* the canonical middle domain. Very often these middle situation types are overlooked in Bantu grammar studies for the reflexive prefix.

3. Middle voice in Bantu from a typological perspective

The fact that a group of closely related functions is commonly denoted by a single verbal morpheme cross-linguistically and is often referred to as middle voice in traditional grammars has led Kemmer (1993: 24-26) to develop a typology of middle marking

systems. Kemmer's typology, briefly outlined in (32), is based on the relationships between the reflexive and middle morphemes.

(32) Typology of middle marking systems according to Kemmer (1993)

a. **One-form middle system**

The middle marker is formally identical to the reflexive marker.

e.g. German: *Er sieht sich* 'He sees himself' (reflexive) vs. *Er fürchtet sich* 'He is afraid' (middle)

b. **Two-form cognate system**

The middle marker is similar, but not identical to, the reflexive, often being a shorter, i.e. phonologically "lighter", form of the "heavier" reflexive. The formal similarity is mostly due to a historical relation between the two.

e.g. Russian: *Ivan uvidel sebja* 'Ivan saw himself' ((heavy) reflexive) vs. *On utomil-sja* 'He got tired' ((light) middle)

c. **Two-form non-cognate system**

Middle marker is morphologically distinct from the reflexive marker.

e.g. Turkish: *kendi-* (reflexive marker) vs. *-In-* (middle marker)

Kemmer (1993) thus only considers a given morpheme to be a true middle marker if it is the sole marker of the middle voice within a language's verbal derivation system. We have therefore preferred to call the Bantu verbal morphemes discussed above 'quasi-middle' markers. Nevertheless, they still cover multiple grammatical categories and situation types that belong to the semantic domain of the middle. We could thus consider Bantu languages to be a fourth type within Kemmer's (1993) typology, namely a **multiple-form** system. In such a system, multiple verbal morphemes cover different parts of the canonical middle, yet sometimes conveying meanings situated on the periphery of the canonical middle domain. In most Bantu languages, the semantic space of the middle voice seems to be organized along two domains, which can be qualified as agent-oriented vs. patient-oriented functions. On the one hand, reflexes of the associative suffix **-an-* (cf. §2.3) tend to be agent-oriented, although they have become unproductive and lexicalized in several present-day languages, thus paving the way to the quasi-middle in form of the reflexive-reciprocal polysemy (cf. §2.5). On the other hand, the neuter (§2.1), the positional (§2.2) and the separative intransitive (§2.5) cover the patient-oriented part of the middle domain. Eventually, all three categories have the potential to develop into a variety of the quasi-middle that includes canonical passive use. It differs from language to language (group) as to which of the three – if any – ultimately undergoes this innovation. However, given the extremely low number of languages in which the neuter and the separative intransitive have become a dedicated passive marker compared to the larger area where the positional has taken over this derivation and, especially, taking into account numerous languages that have preserved the Proto-Bantu passive suffix, this particular categorial shift is, at best, only marginal. Nevertheless, these three suffixes can still be considered quasi-middles without a canonical passive function.

4. Conclusion

Several polysemous Bantu verbal morphemes cover large parts of the functional domain which is generally considered the canonical middle voice. Although neither of them covers the majority of the subcategories subsumed under the canonical middle voice and therefore cannot be considered a ‘canonical’ middle, these morphemes divide up the semantic space of the middle voice into different smaller, but still multifunctional, semantic units. There seems to be a general distinction between morphemes whose semantics can be qualified as agent-oriented, such as the associative and reflexive, and others which exhibit patient-oriented semantics, such as the neuter, the intransitive separative and the positional. From a typological point of view, Bantu languages can therefore be categorised as languages with multiple-form middle systems. Future typological research should bear out whether other languages of the world have similar quasi-middle systems and uncover their typological features. As for future descriptive research on Bantu languages, it will be beneficial to consider these five verbal morphemes as quasi-middle markers. Bantu scholarship should push the semantic analysis of the verbal categories in question beyond the most common notions reconstructed to Proto-Bantu in order to obtain a more adequate, comprehensive and refined understanding of their rich polysemy.

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Abbreviations

^{1, 2, 3} – number of noun class; _{I, II, III} – demonstrative type; ASS – associative; AUG – augment; CL – nominal class marker; COP – copula; DEM – demonstrative; DISJ – disjoint; FV – final vowel; INAN – inanimate; INT – intensive; intr. – intransitive; IPFV – imperfective; NEG – negation; NP – noun phrase; NT – neuter; PASS – passive; PFV – perfective; PL – plural; PRF – perfect; PRS – present; PST – past; RECP – reciprocal; SBJV – subjunctive; SEQ – sequential; SG – singular; SM – subject marker; TAM – tense-aspect-mood; tr. – transitive.

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