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# <sup>1</sup> Prenasalisation in Tonga (M64): A Morphosyntactic Perspective

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### 6 Abstract

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In this study I explore the influence/use of the morphemen- in Tonga. This morpheme is 7 mainly viewed and/or regarded as the first person singular pronoun in many Bantu languages. In this study, I argue that in addition to being a first person singular morpheme, n- can also 9 be used as a second person pronoun in Tonga. It is shown in the study that the morpheme is 10 in fact part of the discontinuous morpheme, the other part of the discontinuous morpheme 11 being the terminal vowel â??" e. Further, I demonstrate that the tone on all the syllables 12 succeeding ndetermines the semantic out-put of the syntactic unit, resulting from prefixing n-13 to a verb. I end by positing a rule for the phenomenon, which I have suspected is endemic in 14 other Bantu languages. 15

# 17 Index terms—

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## 18 1 Introduction

his study takes a Morphosyntactic perspective in discussing the morpheme n-. This morpheme is responsible for 19 20 prenasalisation in Tonga (M64) and many other Bantu languages. Tonga (M64) varieties are spoken in Zambia and Zimbabwe. The examples used in this study are drawn from the Plateau Tonga variety, a variety spoken in 21 Zambia. The study exposes the influence of the morpheme n-on the verbs. Precisely, the study shows that the 22 morpheme n-is responsible for converting simple verbs into syntactic units. At the same time, it is shown in this 23 study that the morpheme in question is a component of discontinuous morpheme, the other component being 24 the terminal vowel -e. The study also demonstrates that the tone on the terminal vowel is crucial in determining 25 26 the semantic out-put of the syntactic units resulting from the prefixation of the morpheme n-to verbal forms.

In Bantu languages, studies on the morpheme abound, though it seems that there is none in Tonga. Studies that discuss this morpheme in Bantu languages concentrate on its phonological influence on segments in its environment (cf Peng, 2007;Mberia, 2002;Kula, 1999; ??ancy and Lutz, 1998;Katamba 1974). It appears that studies that focus on the Morphosyntactic influence of this morpheme in Bantu are rare. In fact I did not come across any such studies.

Distributed Morphology (henceforth DM) is used as the underpinning theoretical perspective in this study. DM, an outgrowth of Generative Grammar, was propounded by Halle and Marantz (1993). DM is concerned with the ways in which words, together with their underlying structure, relate to syntactic structures. In other words, the theory is concerned with the relation between words-derivational rules and syntactic derivational rules. Thus, in this study, DM is used to show that prefixing the morpheme n-to simple verbs changes the simple verbs into syntactic units. Muhammad (2019:47) holds that DM "is a syntactic, piece based, realizational approach to morphology in

which there are at least some 'late insertion' of phonological material into terminal nodes". In the context of the present study, the prenasalising morpheme n-can be taken to be a 'late insertion' phonological material which converts simple verbs (to which it is attached) into syntactic units, and also affects their phonological out-put, in some cases. The focus of DM is succinctly expressed by ??mbick and Noyer (2005:2) who state that DM "proposes architecture of grammar in which a single generative system is responsible both for word structure

<sup>44</sup> and phrase structure". This means that DM can account for both morphological and syntactic processes; it is <sup>45</sup> a Morphosyntactic oriented theoretical framework. Other studies which show that DM is concerned with the

relationship between structures of words and syntactic structures are Harley and Noyer (1999); and Halle (1997). 46

Using DM as the theoretical perspective, the present study shows that prefixing the morpheme n-to verbal forms 47 converts simple verbs to syntactic units. Put in other words, DM is used to show that n-serves as a derivational

48 49 morpheme in Tonga.

#### $\mathbf{2}$ II. 50

#### 3 Prenasalisation in Bantu 51

I have already noted that studies on prenasalisation specifically focusing on the morpheme in Bantu languages 52 abound. I have also noted that it seems that most of such studies assume a morphophonological perspective. 53 The focus in these studies is mainly on the influence of the morpheme on the segments it precedes. 54 As such, the concept 'prenasalisation' is ordinarily taken to be associated with morphology and phonology only. 55 However, a cursory morphosyntactic view of the morpheme n-in Tonga indicates that the morpheme is analysable 56 morphosyntactically. This is because it appears that the besides having a phonological influence on segments 57 in its environments (as can be seen from Hubbard, 1995; ??ancy and Lutz, 1998), the morpheme also has a 58 morphosyntactic influence on verbs to which it can be prefixed. Thus, the forms to which it is prefixed, especially 59 verbal forms, render themselves readily to a morphosyntactic analysis. For this reason, I suggest that the concept 60 'prenasalisation' should not be restricted to the morphophonological domain, but it should also be accommodated 61 in the morphosyntactic domain. This is on the account that the morpheme is also responsible for formation of 62 syntactic units out of verbs, as shown in this study. 63 Literature on the morpheme n-proffers the morpheme as being a first person singular prefix (cf Peng, 2007;Kula,

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1999; Johnson, 1979). However, it appears that in some contexts, this morpheme serves as a second person prefix. 65 Such contexts are given and discussed in this study. Thus the study uses the morphosyntactic perspective to 66

demonstrate that the morpheme is does not only serve/function as a first person singular pronoun. 67

#### 4 III. 68

#### 5 **Findings and Discussion** 69

#### 6 a) Prenasalised verbs in Tonga 70

Since this study approaches prenasalisation from a morphosyntactic perspective, the phonological influence of 71 the morpheme under focus is ignored. The only phonological aspect incorporated in the study is tone; tone in 72 the verbal forms used as examples is marked. A marking of the tone in the examples helps in distinguishing the 73 74 syntactic units which result from a prefixation of the morpheme n-.

75 The morphosyntactic influence of the morpheme n-is demonstrated in Table 1 serving as example (1): There 76 are phenomena that can be noted from the examples in Table 1. One of the phenomena worthy of note is that prefixing the morpheme n-to a verb (with one meaning) produces a syntactic unit which has two different but 77 related meanings. The difference in meaning, as can be seen in the difference in meaning between (a) and (b) in 78 each example, is perceived from the difference in the in the tone of the terminal vowel in each syntactic unit. 79

The phenomenon that can be noted from the examples in Table 1 is that the morpheme n-can take two 80 different cases: the subjective case or the objective case, depending on the meaning one intends to put across, or 81 depending on the tone of the terminal vowel. In the table, the morpheme assumes that subjective case in (a) and 82 objective case in (b) in each example. As can be seen in (a) in each example, the morpheme takes the subjective 83 84 case when the terminal vowel has a low tone while, as can be seen in (b) in each example, it takes the objective 85 form when the terminal vowel has a high tone.

Related to the foregoing, the third phenomenon that can be noted from Table 1 is that when the terminal 86 vowel has a high tone and the n-assumes the objective case, the subject position is occupied by the second person 87 pronoun. Thus, we suggest that in the sequence: n+H + H (+H), n-is the second person (singular or plural). 88 In this case, n-should be viewed as a component of discontinuous morpheme n-...-e, and the tone of the last 89 morpheme -e (which I have referred as terminal vowel in some cases) should be factored in. 90

This sequence pushes the first person singular to the object position of a syntactic unit. On the other hand, 91 in the sequency: n+H(+H) + L, n-is the first person singular. Similarly, in this case, n-should be viewed as a 92 component of discontinuous morpheme n-...-e, and the tone of the last morpheme -e should equally be factored 93 in. In this sequence, there is no lexical item serving as an object. 94

95 Furthermore, as already allude to, it can be noted from Table 1 that the morpheme n-which is usually taken 96 to be the first person singular in Bantu languages can also serve as a second person (singular or plural) in Tonga, 97 and probably other Bantu languages. The determinant factor on whether the morpheme is used as first person 98 singular or second person is the tone assigned to the syllables succeeding the morpheme n-. In fact, the tone assigned to the syllables also determines the semantic out-put of the syntactic unit resulting from the prefixation 99 of the morpheme. 100

There are cases when the morpheme n-only gives the following sequence: n+L + H (+ H). In these cases 101 first, the out-put syntactic unit has one meaning, second, the morpheme n-serves a subjective case, third, it 102 serves as a first person singular, fourth, there is no object in the syntactic unit, and fifth, the terminal vowel of 103

the out-put syntactic unit is similar to that of the in-put verb. It seems that this is the default morphosyntactic 104 characteristic of the morpheme n-. The examples in Table 2 show that if the terminal vowel of the out-put 105 syntactic unit is similar to that of the in-put verb, the influence of the morpheme n-is minimal, in comparison 106 to its influence when the terminal vowel of the out-put syntactic unit is different from that of the verb. In Table 107 2, the terminal vowel of the in-put verbs is -a, and the vowel of the output syntactic unit is also -a. In this case, 108 the out-put syntactic unit only has one meaning and one tonal sequence. On the other hand, (as seen in Table 109 1), if the terminal vowel of the out-put syntactic unit is -e, the there are two possible tonal sequences (as already 110 discussed) on the syllables succeeding the morpheme, and each tonal sequence feeds into the semantic outputs 111 of the syntactic out-puts. 1 and those in Table 2, it can be said that in Table 1, the morpheme n-together with 112 the terminal vowel -e form a discontinuous morpheme. On the other hand, in Table 2 the morpheme n-stands on 113 its own as a morpheme signifying the first person singular. The discontinuous morpheme n-...-e, as can be seen 114 from Table 1, is the one which produces a syntactic unit which has two meanings. In the next section, posit a 115

# rule for the phenomenon in the examples in Table 1.

## <sup>117</sup> 7 Examples of this case are provided in

## <sup>118</sup> 8 If a comparison is made between the examples in Table

## <sup>119</sup> 9 b) Prenasalisation rule in Tonga

120 In this section, I propose a rule which summarises or simplifies the phenomenon in the examples in Table 1.

## <sup>121</sup> **10 The rule:**

122 n++ syllable H (+syllable H ) + syllable H = first person singular, while n++ syllable H (+syllable H ) + syllable 123 L = second person (singular or plural), where H signifies the high tone, and L; low tone.

The rule should be interpreted as follows: when there is a sequence n-plus a syllable with a high tone, plus 124 an optional syllable with a high tone, plus another syllable (whose nucleus is -e) with high tone, the morpheme 125 n-serves as a second person morpheme (together with the nucleus of the last syllable which is always be -e, in this 126 case). On the other hand, when there is a sequence n-plus a syllable with a high tone, plus an optional syllable 127 with a high tone, plus a syllable (whose nucleus is -e) with a low tone, the morpheme n-serves as a first person 128 singular (together with the nucleus of the last syllable which is always -e). The weakness of this rule is that it is 129 mainly located in the domain of Phonology. This problem stems from the fact that the examples in Table 1 can 130 also be taken to be words because Tonga, just like other Bantu languages, are agglutinative in nature. 131

The rule I have posited shows that the morpheme n-in Tonga should not be taken as a first person singular morpheme only, especially when the terminal vowel of the verbal form it is prefixed to is -e; it can also be used as second person (singular or plural), depending on the tone of the terminal vowel; -e. It is possible that the phenomenon described in this study is also found in other Bantu languages. As such, I invite linguists to vet prenasalition in different languages so as to establish whether what I have observed in Tonga exists in other languages.

138 IV.

## 139 11 Conclusion

In this study, I have attempted to describe the influence of the morpheme n-on Tonga verbs from a Morphosyntactic perspective. Even if the main locus of the study is Morphostyntax, I have also touched on the phonology and semantics aspects relating to the morpheme in an attempt to show that the morpheme nshould not only be taken as a first person singular pronoun; rather, in addition, it can also be as second person pronoun. I have argued that in this case, tone is crucial, and in addition, the morpheme should be seen as being part of the discontinuous morpheme; the other component of the discontinuous morpheme being the terminal vowel -e.

I have also attempted to provide the two (tonal) sequences which can be considered if one is to appreciate the morphosyntactic influence of the morpheme when it is prefixed to a verb. It has been shown in the study that the two sequences serve a very critical role in informing the semantic out-put of the syntactic unit resulting from prefixing the morpheme to a verb. In explaining the phenomenon, I have posited a rule. Owing to a suspicion that the phenomenon discussed in this study is endemic in many other Bantu languages, I have recommended that studies of similar nature as the present one be carried out to establish whether truly this phenomenon is endemic in other Bantu language. <sup>1 2</sup>

<sup>&</sup>lt;sup>1</sup>Prenasalisation in Tonga (M64): A Morphosyntactic Perspective

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		Prenasal	isation ir	n Tonga (M64): A Morphosyntactic Perspective
				n-
Year 2021				
42	S/N	In-put verb	simple	Out-put syntactic unit
Volum <b>è</b> .		Bona 'see' Bala		(a) n-bone $>$ m-bónè 'That I may see' (b) n-bone $>$ m-
XXI	2.	'read'	Cenga	bóné 'Can you see me' (a) n-bale > m-bálè 'That I may
Is-	3.	'lie'	Ccilila	read' (b) n-bale > m-bálé 'Can you read me' (a) n-céngè
sue	4.	'follow'	fwusa	That I may lie' (b) n-céngé 'Can you lie to me' (a) n-cílílè
III	5.	'throw'	Gonka	'That I may follow' (b) n-cílílé 'Can you follow me' (a)
Ver-	6.	'cut'		n-fwúsè 'That I may throw' (b) n-fwúsé Can you throw
sion				me' (a) n-gónkè 'That I may cut' (b) n-gónké 'Can you
Ι				cut me'
G )	7.	Gusya 'r	emove'	(a) n-gúsyè 'That I may remove'
(	8.	Kwela	'pull'	(b) n-gúsyé 'Can you remove me' (a) n-kwélè 'That I may
Global9.		komba		pull' (b) n-kwélé 'Can you pull me' (a) n-kómbè 'That I
Jour-	10.	'worship	' langa	may worship' (b) n-kómbé 'Can you worship me' (a) n-
nal	11.	'look'	lumba	dángè 'That I may look' (b) n-dángé 'Can you look at me'
of	12.	'thank'	mena	(a) n-dúmbè 'That I may forget' (b) n-dúmbé 'Can you
Hu-	13.	'swallow	' mana	forget me' (a) n-ménè 'That I may swallow' (b) n-méné
man	14.	'finish' r	nyonsya	'Can you swallow me' (a) n-mánè 'That I may finish' (b)
So-	15.	'breast	feed'	n-máné 'Can you finish me' (a) n-nyónsyè 'That I may
cial		nyamuna	a 'lift'	breast feed' (b) n-nyónsyé 'Can you breast feed me' (a)
Sci-				n-nyámúnè 'That I may lift' (b) n-nyámúné 'Can you lift
ence				me'
- 16		popya 'heal'		(a) m pápyà 'That I may heal'
	10.	ponya n	cai	(a) m-pónye That Thay hear (b) m-pónyé 'Can you heal me'
	17	nandula	'cut	(a) m-pándúlè 'That I may cut open'
	11.	open'	cut	(a) in pandule That Thiay cut open
		open		(b) m-pándúl-é 'Can vou cut me'
	18	sala 'cho	ose'	(a) n-sálè 'That I may choose'
	10.	Sala elle	000	(b) n-sálé 'Can you choose me'
	19	sola 'try'	,	(a) n-sólè 'That I may try'
	10.	sona erj		(b) n-sólé 'Can you try me'
	20.	tola 'tak	e'	(a) n-tólè 'That I may take'
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	nals			

Figure 1: Table 1 :

Prenasalisation in Tonga (M64): A Morphosyntactic Perspective

Year 2021 43 Volume XXI Issue III Version I G ) ( Global Journal of Human Social Science -

		,
		(
S/Man-put simple verb	Out-put syntactic unit n-sèká 'I	Global
seka 'laugh' bala	laugh' n-bàlá $>$ m-bàlá 'I read' n-	Journa
'read' cenga 'lie' ccilila	cèngá 'I lie' n-cìlílá 'I follow' n-	of Hur
'follow' fwusa 'throw'	fwùsá 'I throw' n-gònká 'I cut' n-	Social
gonka 'cut' gusya	gùsyá 'I remove'	Science
'remove'		
kwela 'pull'	n-kèwlá 'I pull'	
komba 'worship'	n-kòmbá 'I worship'	
langa 'look'	n-dàngá 'I look'	
lumba 'thank'	n-dùmbá 'I forget'	
mena 'swallow'	n-mèná 'I swallow'	
	© 2021 Global Journals	
	S/Mn-put simple verb seka 'laugh' bala 'read' cenga 'lie' ccilila 'follow' fwusa 'throw' gonka 'cut' gusya 'remove' kwela 'pull' komba 'worship' langa 'look' lumba 'thank' mena 'swallow'	$      S/\mathbb{N}n-put simple verb S/\mathbb{N}n-put simple verb S/\mathbb{N}n-put simple verb Solut-put syntactic unit n-sèká 'I Solution (Second Constant) (Second Consta$

Figure 2: Table 2 :

<b>2</b>

13.	mana 'finish'	n-màná 'I finish'
14.	nyonsya 'breast feed'	n-nyònsyá 'I breast-feed'
15.	nyamuna 'lift'	n-nyàmúná 'I lift'
16.	ponya 'heal'	m-pònyá 'I heal'
17.	pandula 'cut open'	m-pàndúlá 'I cut'
18.	sala 'choose'	n-sàlá 'I choose'
19.	sola 'try'	n-sòlá 'I try'
20.	tole 'take'	n-tòlá 'I take'
21.	tanda 'chase'	n-tàndá 'I chase'

Figure 3: Table 2 :

## 11 CONCLUSION

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