

# A GRAMMAR OF VAI

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By

WM. E. WELMERS

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# INTRODUCTION

Vai is spoken by probably fewer than 40,000 people, largely along the northwestern coast of Liberia, but extending also into Sierra Leone.<sup>1</sup> It is a Northern Mande language (Welmers 1958), but is not geographically adjacent to any of its closest relatives, not even Kono in Sierra Leone, from which Vai has been separated for about five hundred years. The language is known to its speakers as /váí-wò'ò(ě)/ '(the) Vai language'; what seems to be an older form of the stem, /véí/, is said to be recognized by elderly people but not widely used today. The name is almost certainly of non-Vai origin, as all morphemes with initial /v/ appear to be.<sup>2</sup>

Vai is best known, of course, for its indigenous syllabic writing system, which dates from the early decades of the nineteenth century. More than half of the existing publications on Vai deal primarily or exclusively with this syllabary, which has understandably enthralled almost everyone who has had occasion to learn about it. As for the language itself, there are some materials of a practical pedagogical nature produced by or for the United States Peace Corps; those I have been able to obtain (by Tom Wheeler, no date) reflect no advance over earlier works in terms of linguistic analysis. The only earlier descriptive treatments worthy of note are those of Koelle (1854, republished 1968), Klingenheben (1925-6, 1933), and Heydorn (1971, published posthumously from a manuscript of 1934). Of these, Koelle's work is of considerable historical interest, but understandably falls far short of being an adequate linguistic analysis by modern standards. Klingenheben's work is also far from adequate, and in some respects misleading. Although he discussed tone, for example, he failed to recognize lexical tone in verbs, interpreting all verbs as having low tone (which they do in some, but not all, verbal constructions). He defines grammatical tone only in terms of distinguishing grammatical classes (which is not

a function of tone), and adds that grammatical tone rules are not yet known. He even makes the preposterous statement that Vai intonation (which is simple, and very much like intonation in many other Mande languages) is "Hamitic!" Heydorn's work is not without merit; in less than forty pages, he presents a reasonably comprehensive and sometimes perceptive sketch of many aspects of the phonology and grammar of Vai. There are, however, several respects in which Heydorn is incomplete or inaccurate. Although he must have been aware of tone in Vai, he totally ignored its presence and function; this is especially strange since he showed in his work on Kisi (1970, but also dating from the mid-30's) that he was reasonably competent in handling tone, and the tonal system of Vai presents no serious problems. In addition, Heydorn noted the heavily aspectual character of the Vai predicative system, but then succeeded in obscuring rather than clarifying its structure. The present study, therefore, appears to be the first that can be considered anything like an adequate description of Vai.<sup>3</sup>

This description is based on work done in Liberia in 1974 and 1975, almost entirely with the Rev. Fr. C. K. Kandakai.<sup>4</sup> Much of the analysis was actually done in a little less than two weeks of full-time work in March, 1974, which was then supplemented by part-time work, concentrating largely on lexicography, in May through July, 1974, and by additional work in June and July, 1975. This may appear to be a dangerously short time, the more so because medical considerations unfortunately made it necessary for the work to be done entirely in Monrovia; substantial experience in Vai-land itself would, of course, have been greatly preferred. It should be noted, however, that the publications cited above, and also notes prepared in 1973 by the Rev. John and Mrs. Isabel Anderson, provided valuable hints as to what might be expected in the language. Perhaps more significantly, the author's prior experience with Mandekan and with the Southwestern Mande languages (especially Kpelle), and concurrent work on Manya, made it far easier than it would otherwise have been to identify grammatical categories and constructions in Vai. At the same time, of course, it would be presumptuous to claim that the data included in this study are completely free from error, or that the analysis is exhaustive or incapable of refinement.

A lesser amount of work was done with Jay Foboi of Monrovia. A final recheck of the data from Chapter 13 on was made with Mr. Abbas Mas-salay, a speaker of Vai residing in Los Angeles. I am also deeply indebted to Mrs. Gail Stewart, the preeminent authority on the Vai syllabic writing system, for suggestions and criticisms based on her knowledge and experience.

The gracious cooperation and assistance of The Institute for Liberian Languages (a division of the Lutheran Bible Translators), with whose personnel it has been an inestimable privilege to work during these two visits to Liberia, played a large part in making this and other linguistic research possible. In addition to such scholarly significance as this study may have, it is hoped and intended that it will be of practical use in the Institute's program, and of value to the Vai people.

There has been a great deal of discussion of the question of a practical alphabetic orthography for Vai: whether such an orthography is needed at all, and, if so, just what form it should take. The transcription used in this study can be construed as representing my personal recommendation, on a combination of technical linguistic and practical grounds. At the same time, of course, I cannot presume to dictate an authoritative or definitive orthography. Final decisions must await the consideration of those who will ultimately use the orthography, preferably after careful testing. I can only urge, most vigorously but also sympathetically, that any alternative orthographic conventions that may be chosen should not obscure the phonologic contrasts and the principles of word formation that are significant in Vai.

The photo-offset masters for this work were typewritten by the author, who must therefore accept full responsibility for any typographical errors and editorial irregularities.

# CHAPTER I

## CONSONANTS

1.1. The consonantal phonology of Vai provides so much unusual and fascinating evidence for the lexical history of the language that, even in an essentially descriptive study, it seems worthwhile to treat the consonants by groups which unquestionably reflect historical developments in the language. It is convenient, for this purpose, first to treat consonants in stem-initial as opposed to other positions.

The stem-initial consonants of Vai may be divided into two major categories. The first comprises only those consonants which reflect the proto-Northern-Mande (PNM) consonantal system. This does not mean, of course, that these modern Vai consonants are identical with their PNM ancestors; on the contrary, it is clear that some phonologic changes from PNM to modern Vai have taken place, most conspicuously a merger of PNM \*k and \*g as modern Vai /k/ (a development shared by Mandekan, but not by some other languages that diverged earlier from the PNM stock). Nor does this mean, of course, that every stem beginning with one of these consonants is inherited from PNM; on the contrary, it is possible to identify a number of words of non-PNM origin which have initial consonants in this group. What is significant about this category is, rather, that all inherited PNM stems retained in Vai -- along with an undetermined and probably undeterminable number of innovated stems -- begin with one of these consonants. They are thus in a true sense the "inherited consonants" of Vai. There are twelve such consonants:

	t	k	kp
b		j	
f	s		
w	l		
m	n	ny	

The phonetic values of a few of these require special comment. /kp/ is a doubly articulated (velar and bilabial) stop, with some oral suction preceding the simultaneous release. /b/ is implosive, /b/. /j/ may best be described as a voiced palatal stop; there is very little affrication in its release. /l/ is, for many speakers, usually an implosive stop, [ɖ], which could as validly occupy the blank in the voiced alveolar stop position in the chart above; for many other speakers, however, it is commonly a lateral resonant as the symbol suggests. (In contrast with stems beginning with this /l/, there are a very few stems which may be cited with initial [l], never [ɖ], by some speakers, but which are usually heard with no initial consonant in context after another word. Apart from independent citation, none of the forms in question ever begins an utterance. This elusive phonological entity, represented in this study as /'/, is treated along with intervocalic consonants in 1.8 below.) Before one of the vowels /i, e, ε/, /w/ is rare (and undoubtedly not "inherited"), and is usually a close bilabial resonant with no protrusion of the lips, /ʋ/; this is especially noticeable in phrase-medial position after a vowel ending a preceding word. A phonetic [w] may be heard in forms transcribable as [ʀwíì] 'boil', [wéé] (a sentence-final particle), and [wèé] 'today'; these are, however, variants of [ʀwúì] or [ʀwúì], [wóé], and [wòlé] or [wòé], and Vai speakers accept /ʀwú'ì/, /wóé/, /wò'é/ as valid interpretations.<sup>5</sup> Representative examples of these twelve initial consonants are:

t:	tâŋ	'ten'	tó'á	'rat'
	té'é	'sun, day'	tó'ò	'ear'
	tìè	'chicken'	tú'ú	'oil'
k:	kàí	'man'	kí'à	'path, road'
	ká'ó	'moon, month'	kò'á	'cloth'
	kámá	'elephant'	kòndé	'bird'
	kéŋ	'house'	kǔŋ	'head'
kp:	<sup>R</sup> kpáí	'chase away'	kpènè	'catfish'
	kpéŋgbé	'frog'	kpò'ó	'skin; paper'
	kpé	'alcoholic drink'	kpòŋ	'monkey'
b:	bǎ	'goat'	bó'í	'medicine'
	<sup>R</sup> bè'á	'fall'	bò'ó	'bag, cap'
	bìndá	'spoon'	bú	'abdomen, width'

j:	jàmbá	'leaf'	jð	'who?'
	jè'ìmà	'evening'	jðŋ	'slave'
	jí	'water'	jù'ú	'vine, rope'
f:	fǎ	'father'	féŋ	'thing'
	fàndé	'cotton'	fó'ó	'empty'
	fè'á	'two'	fúndé	'mushroom'
s:	sàkpá	'three'	sènέ	'farm'
	sámbà	'basket'	sòná	'rain'
	sěŋ	'stone'	sùέ	'animal, meat'
w:	wé'è	(neg. mphm.)	wá'í	'thorn'
	wíkì	'week'	wó'á	'virgin forest'
	<sup>R</sup> wú'ì	'boil'	wù'ú	'dog'
	wóέ	(particle)	wónyè	'driver ants'
l:	lá	'mouth'	lòndó	'one'
	lèndé	'vehicle'	lónŋ	'cooked rice'
	lìfí	'night'	lùmà	'ground'
m:	mànjá	'chief'	mð	'person'
	mèέ	'this'	mùsú	'woman'
n:	náánì	'four'	nóó	'dirty'
	nìí	'cow'	núú	'there'
ny:	nyàá	'lice'	nyíŋ	'tooth'
	nyíέ	'fish'	nyòð	'corn'

1.2. The second category of stem-initial consonants may be called "innovated consonants." All of them have quite clearly become part of the Vai phonologic system after the phonologic developments resulting in the inherited system outlined above had been completed. A corrolary of this fact is that no stem beginning with one of these consonants is inherited from PNM. In fact, even Kono has no forms at all similar to stems beginning with any of these consonants, except in a very few cases which quite obviously reflect recent and independent adoptions of English words. These consonants have thus been added to the Vai phonologic system within the last five centuries or so, some of them quite possibly within the past century. What is rather remarkable is that the "innovated consonants" of Vai outnumber the "inherited consonants."

There are fourteen of them, as follows:

	p		c		
	bh	dh		g	gb
					h
	v	z			
				ŋ	
	mb	nd	nj	ŋg	

Phonetically, /bh/ and /dh/ are non-implosive voiced stops, [b] and [d]. The symbolization chosen here has a statistical basis, with useful implications for a practical alphabetic orthography of Vai. In terms of lexical frequency, the implosive /b/ ([b]) is six times as common as the non-implosive /bh/ ([b]). Initial /l/ (often phonetically an implosive [d]) is about five times as common as the non-implosive /dh/ ([d]). In text frequency, the predominance of /b/ and /l/ would be even more conspicuous. Further, speakers of Vai recognize the phonetic parallelism between /bh/ and /dh/, and are quite aware of their relative infrequency. /g/ is also non-implosive, but need not be specially marked as such since there is no implosive counterpart. /gb/, like /kp/, is doubly articulated, with slight oral suction preceding the simultaneous release.

Among the rest of these consonants, /c/, like /j/, is a palatal stop with little affrication. /v/ is always labiodental, and thus in contrast with both allophones of /w/, [w] and [v]. In initial /mb, nd, nj, ŋg/, the nasal is somewhat more prominent than the oral release, but is not syllabic and does not carry a tone of its own. The question of a contrast between /mb/ and /m/ (etc.) will be further discussed in connection with vowels in 2.5 below. (In quite a different category are sequences of a syllabic nasal with high tone, the first person singular pronoun, followed by a stem-initial consonant.) Before discussing the statistical situation in more detail, the following are representative examples of the innovated initial consonants; in the case of /c, ŋ, mb, nd, nj, ŋg/, all recorded examples are given here:

p:	pàkái	'papaya'	pí'ìŋ	'turtledove (?)'
	péwé	'mongoose'	pò	'heron'

c:	câŋ	'snail (sp.)'		
	cóci	'church'		
	còbòcòbò	- còìcòì	(ideophone describing wateriness of mud)	
	còkpòcòkpò		(ideophone describing soft, "squashy" food)	
	còò		(ideophone describing a liquid pouring out in a single stream)	
bh:	bhàmbá'ò	'butterfly'	bhókè	'bucket'
	bhìní	'porcupine'	bhù	'gun'
dh:	dhìdhí	'insect (generic)'	dhó	'raft'
	dhìŋ	'shark'	dhùà	'cannon'
g:	gàngàŋ	'sting ray'	gí'í	'round house'
	gé'é	'hawk'	góŋgò	'grasshopper'
gb:	gbàsà	'cassava'	gbó'ò	'oath'
	gbí	'all, every'	gbóò	'eggplant'
v:	vànyá	'blood vessel'	vòòvòò	'lungs'
	vììvìì	'windstorm'	vù	'mildew, mold'
z:	zààmà	'gravel'	zìò	'ceiling mat'
	zìì	'tribe, kind'	zù'ú	'(carpenter's) nail'
h:	hákètò	'forgive me'	hìí	'if'
	héé	(particle)	hóndò	'hundred'
ŋ:	ŋàní	'character'		
mb:	mbê	'what?'	mbééì	'steamship'
nd:	ndáfàí	'masked entertainer'		
	ndòfógbòí	- ndòvógbòí	'snake (sp.), brown'	
nj:	<sup>R</sup> njàfá	'report (someone) to a superior'		
ŋg:	ŋgèèmàgbìsà	'scorpion'		
	ŋgóò	'older brother or sister'		

Initial /y/, omitted from the discussion up to this point, seems in one or two forms to be an inherited consonant, but is included here because of its extreme rarity. It is found in two clearly innovated nouns, a variant form of one adverb, a conjunctive word, and a "relational particle" (see 6.7 below); /y/ occurs also beginning a deriva-

tional suffix, and as a derivative of the second person singular pronoun form /í/ before a vowel. The relevant forms are:

yááfí	- yááví	'masked dancer'
yàbásì		'onion' (a form /sìbáà/ is more common)
yè		'in that case (?)' (variant of /wè/ ?)
yó		'like, resembling'
yè		'to, for'

1.3. Apart from what may or may not be known about the origin of individual stems with various initial consonants, there is a striking statistical contrast between the two categories of initial consonants, inherited and innovated. To be sure, four of the innovated consonants (all oral stops) are more common in initial position than the inherited /ny/, and one is more common than /n/. Oral stops are, however, typically more common than nasals in Vai. Comparing pairs of consonants with closer phonetic similarity, the inherited consonants are far more common than the innovated consonants. Taking all of the consonants together, in a vocabulary of some 1500 items, the inherited consonants appear stem-initially in 85%. The innovated consonants appear in 13½%. The remaining 1½% have initial vowels, and include only a few pronoun forms and a few words of Arabic and English origin.

Further details of these statistics may be even more revealing. The following is a composite chart of the Vai consonants (including also /ngb/, which has been recorded only intervocalically), in which the inherited consonants are indicated by asterisks; after each consonant is given the number of words (not all separate morphemes, to be sure, but nevertheless roughly representative) listed with that initial consonant:

p: 42	*t: 137	c: 5	*k: 268	*kp: 101
*b: 143		*j: 85		
bh: 18	dh: 25		g: 29	gb: 36
*f: 86	*s: 138		h: 8	
v: 12	z: 19			
*w: 62	*l: 121	γ: 5		
*m: 69	*n: 39	*ny: 25	ŋ: 1	
mb: 2	nd: 2	nj: 1	ng: 2	ngb: 0

These statistics suggest some further observations concerning the in-

novated consonants. The commonest of them, /p, g, gb/, along with the very rare /c/, fill out the two series of voiceless and voiced stops; their innovation thus involved no introduction of new distinctive features into the phonology. It is also highly probable that /p, g, gb/ are more common than sources of the other innovated consonants in languages with which Vai has had contact within the past five centuries; the arrival of the Vai people at the coast, and thus contacts with Gola in particular, as well as the earliest possible contacts with European languages, all seem to date from approximately five hundred years ago. The phonologic system in itself may have occasioned more resistance to the introduction of /bh, dh, v, z/, and still more to /mb, nd, nj, ŋg/; the latter in particular, along with /c, h, ŋ/, seem to be attributable to relatively recent contacts, and may also lend support to the hypothesis that prenasalized stops are a recent development in Mende-Bandi, the incursion of which seems to have completed the geographical separation of Vai from Kono. Gola is the source of by far the largest number of identifiably adopted lexical items in Vai, with Mende a rather poor second.

It is natural to cross-cultural contacts, and typical of languages in general, that adopted vocabulary is found predominantly in the morphologic class of nouns (and, in the case of the Mande languages, specifically "free nouns"). Some languages, in fact, show a vigorous resistance to innovation except in this category (cf. Welmers 1961). In Vai, however, stems with initial innovated consonants include a fairly large number of kinship terms, body parts, and verbs. As would be expected, however, free nouns are certainly predominant. Tradition has it that the first Vai settlers along the coast were mostly male, engaged in the military conquest of new territory with the purpose of stabilizing the salt trade, and that they took wives and slaves from neighboring tribes. To the extent that this may be true, it may well account for some of the kinds of words that have come into Vai, particularly through bilingual children with complete native competence in two phonologic systems. It by no means follows, however (as some individuals have suggested), that Vai is in any significant sense a "mixed language." In spite of the fact that more than half of the stem-initial consonant phonemes, taken as a bare list, are of non-PNM origin, the fact remains that even the phonology is preponderantly Northern

Mande in the language as a whole. The areas of vocabulary most essential to any language have been as relatively undisturbed in Vai as anyone could expect, and the grammatical structure reveals no trace of substantial non-Mande influence.

1.4. In intervocalic position, in stems or at least in minimal forms that show no evidence of containing more than one morpheme, the voiceless stops /t, k, kp/ are rare. The voiceless fricatives /f, s/, while not quite so rare, are far from common. The following are a substantial number of the recorded examples:

<sup>R</sup> bátò	'glorify, worship'	<sup>R</sup> sóókò	'push through'
<sup>R</sup> kpátì	'adhere'	sàkpá	'three'
nítí	'leech'	síkpà	'hawk'
kàfà	'shoulder, wing'	kàsé	'fault, blame; rust'
kèèfè	'pepper'	kísí	'termites'
kpàfì	'tick'	<sup>R</sup> kpàsí	'beat, pummel'
lìfí	'night'	mùsú	'woman'

The voiced stops /b, j/, which are counted among the inherited consonants of Vai in initial position, along with all of the innovated stops and fricatives, are extremely rare in intervocalic position. They are found only in words that are quite clearly adopted, most of them rather recently. Examples are:

sìbáà	'onion'	làhádhi	'Sunday'
à'ìjímà	'Friday'	jégà	'jigger'
kápà	'cent'	<sup>R</sup> vúgbò	'flog'
cócì	'church'	kávù	'rattan (sp.)'

1.5. In intervocalic position, the nasal-oral sequences /mb, nd, nj, ng, ngb/ have quite a different status from the very rare initial sequences discussed in 1.2 above. First, they are fairly common. Second, apart from a very few adopted words, they are not clearly in contrast with voiced oral stops; this fact is reflected by alternate representations in the Vai syllabic writing system, which until about 1900 had no separate symbols for these nasal-oral sequences. In the language as spoken today, however, it is hardly defensible to interpret these nasal-oral sequences as simply allophones of oral stops; note the contrastive oral stops in the forms for 'onion, Friday, jigger, flog'

in the examples just above. (The nasal-oral sequences are, however, clearly in contrast with simple nasals; see 1.7 below.) Third, the question may legitimately be raised as to whether these are to be interpreted as unit phonemes or as clusters. Two considerations favor treating them as clusters. In some occurrences, they appear to be the product of a process of reduplication of an oral stop (as in the first example of /mb/ below, and three of the four examples of /ŋgb/). Although there are also cases of reduplication with no consonantal alternation (e.g., /kpókópó/ 'hammer'), there is clearly a pattern of reduplication with an inserted nasal, and with voicing of an unvoiced stop if applicable; this pattern was already noted by Koelle in 1850-51. Further, a number of occurrences of these phonetically nasal-oral sequences are clearly derived from a stem-final /ŋ/ followed by a stem-initial stop. No known cases are included in the examples below, but an illustration is /bàngú'ú/ 'base of a pissava palm branch', from /bàng/ 'piassava palm' and /kù'ú/ 'bottom, base'. On the other hand, there is no recognizable phonetic difference, and thus no phonemic contrast, between such morphemically divisible sequences and sequences which are clearly parts of indivisible stems (of which the forms for 'spoon, bird, iron, chief' are prime examples among the illustrations below). Further, there is no recognizable contrast between sequences which, from their derivation, might be expected to show a contrast. Forms such as /bòmbò/ 'smallpox' and /bhàmbá'ò/ 'butterfly, moth', though apparently reflecting a reduplication of contrastive consonants, /b/ and /bh/, have the same intervocalic /mb/. The only conclusion that can be drawn is that, although different derivations may have to be recognized at a deeper morphologic level of structure, there is only one set of nasal-oral sequences in the surface phonology, and whether they are labelled units or clusters is immaterial.<sup>6</sup> Examples are:

bòmbò	'smallpox'	bìndá	'spoon'
jàmbá	'leaf'	jèndà	'spindle'
<sup>R</sup> jémbé	'watch'	kòndé	'bird'
kámbá	'grave'	<sup>R</sup> kpàndí	'become hot'
kámbí	'guinea fowl'	lèndé	'vehicle'
kúmbé'é	'knee'	kùndú	'iron'
sànjá	'town'	fàngà	'tension drum'

mànjá	'chief'	<sup>R</sup> jàngátà	'punish'
kènjì	'nail, claw'	jòngà	'boasting'
kònjé	'kernel, nut'	kèngèè	'(not) until'
<sup>R</sup> jànjáà	'lengthen'	kóngó	'bark (of tree)'
gbèngbèng	'bass drum'	kpéngbé	'frog'
<sup>R</sup> kpángbá	'fasten'	lòngbó	'crowd, flock'

1.6. Before beginning this study of Vai, two problems in particular were widely and repeatedly singled out as knotty, frustrating, and perhaps insoluble. One was tone; for a description of the rather simple tonal system, see 3 below. The other was the mysterious and even capricious appearance and disappearance of [l] in particular, but other resonants and some nasals as well, in intervocalic position -- variations noted not only in comparing the speech of different individuals, but also in the speech of almost any single individual even from one moment to the next.<sup>7</sup> The problem of intervocalic [l] is indeed worthy of separate treatment, if only because of the vast number of forms involved; it is reserved for 1.8 below. In the case of the other sounds in question, an organization of the relevant forms in terms of their vowels shows some of the problems to be illusory, and the actual variations highly restricted.

It should be noted here that, although this analysis is based almost entirely on the speech of one individual, Fr. Kandakai is acutely aware of the variations that are found in Vai; he shows a considerable amount of unconscious variation in his own speech, and has noted it in listening to tape recordings of his own connected discourse. On his own initiative and also in response to questions that others have raised, he has been unusually observant about the variations in question. With probably very few exceptions, he seems to have reported all the forms in which variation appears.

The simplest case to begin with is /y/, which is rare from any viewpoint. It appears in a very few stems such as /bòyà/ 'beard' and /jááyá/ 'mangrove', and also in a rather uncommon derivational suffix, as in /kò'òyáà/ 'honor, respect', from /<sup>R</sup>kò'ó/ 'be large'. It also appears in a common relational particle with dative or applicative meaning, as in /í ì mà à yè/ 'do it for him.' There is no issue in these

cases; the /y/ is always present as [y], and cannot be omitted. Cases which have been considered questionable are a very few like those here interpreted as /<sup>R</sup>liá/ 'like, enjoy, love' and /níɛ̃/ 'here'. In such sequences, there is no problem of an intervocalic /y/ being sometimes present and sometimes absent. There appears to be no appreciable variation in the phonetic transition from the first to the second vowel, or at most there may be more variation in the learner's hearing than in the speaker's pronunciation. The question (which has arisen in early work on countless other languages as well) is simply whether to recognize the transition as a /y/ or as nothing. In such sequences of /i/ followed by another vowel, there is no audible or visible movement from the tongue position of /i/ to a higher tongue position before the following vowel, and thus no good reason to recognize an intervocalic /y/ in the structure. Further, such sequences are actually in contrast with one which includes an audible /y/ (though after a word space in the transcription), with the relational particle referred to above: /í yè/ 'to you, for you'.

The situation in the case of /w/ is somewhat more complicated, but begins with sets of forms quite comparable to those involving /y/. The first set consists of forms which do not contain a rounded vowel. Intervocalic /w/ (phonetically [v] before /i, e, ɛ/, as in initial position) appears to predominate in the pronunciation of these forms. In the last of the following examples, however, the omission of /w/ has been reported (Charles Hutchison, personal communication); it is possible that the /w/ is optional in other forms as well, perhaps in all two-syllable forms. The inclusion of /w/ in a practical orthography is almost certainly the wisest choice:

báwà	'surfboat'	léwé'é	'itchy blotches'
sàwà	'law'	téwè	'black duiker'
lààwí'á	'sling'	péwé	'mongoose'

Second, on the other hand, there is no discernable [w], which should be visible as a slight increase in lip rounding before the following vowel, between a rounded and an unrounded vowel in forms like the following:

gbóà	'moronic'	lúà	'ink'
lóà	'hermia'	<sup>R</sup> súà	'greet'

Crucially important for the analysis of forms of this type is the one word for 'animal, meat', here interpreted as /sùé/, plus innumerable cases of nouns with stem-final /u/ followed by the definite suffix in the form /ě/. In this environment, /u/ is a front rounded vowel, [ü], and has even been reported to "become /i/," an extreme which I have not heard. Transcriptions (apart from tone) such as *suyɛ* or *suie* have been proposed for 'animal', not only by non-Vai speakers attempting to analyze the language, but even by native speakers who, perhaps because of experience with other languages, recognize the phonetic details. What is significant at this point is that there is not the remotest possibility of interpreting such sequences of rounded plus unrounded vowel as including an intervocalic /w/; nor is there any need, of course, to represent the fronting of /u/ before /ɛ/ in any way.

A third category of forms involves the opposite type of transition, from an unrounded to a rounded vowel, plus one case of a transition from a lower to a higher rounded vowel. Again, no [w] in the form of a transitional lip rounding and release is heard in the following, which include only short vowels:

<sup>R</sup> bóù	'move (residence)'	kèú	'tortoise'
fèó	'asthma'	kèù	'dream'
jéù	'trick'	<sup>R</sup> láo	'agree, permit'

In a fourth category of forms, a problem begins to appear; in each of these, the vowel after the initial consonant is long. In the first of the examples below, pronunciations with and without an intervocalic /w/ are reported to be equally acceptable. In the second, the omission of /w/ would not be surprising, though it has not been noted. In the third and fourth, the omission of /w/ would undoubtedly result in the reduction of the sequence to a double vowel, and there is no evidence for such alternative forms. In any case, no contrasts are involved, and the following can readily be analyzed as structurally including /w/:

kààwò	'crab'
kpààwò	'forked stick used for adze handle'
<sup>R</sup> lúúwù	'treat by inhalation of medicated stem'
lúúwú	'women's tribal cicatrices'

Finally, there is a very small number of forms in which there is a

real and common alternation between the presence and absence of intervocalic /w/, such that the alternate forms must be recognized as having significantly different phonologic structures. For example, the word for 'sodium' (generally 'salt', but also applicable to lye and baking soda) may be either /kòwó/ or /kòó/. This alternation in the segmental phonemes is in contrast with an invariable sequence in /<sup>R</sup>kóó/ 'gather up (small things)', and also with a different alternation in /kò'ó/ ([kòló] or [kòó]) 'rice'. With intervocalic elision in both cases, however, 'sodium' and 'rice' are homophonous; the confusion most likely to result from this homophony, between 'salt' and 'rice', may be avoided by using for 'salt' the common compound /kpòndò-kòò/ (or /kpòndò-kòwò/), in which /kpòndò/ is "soup" (anything served on rice). Only four cases of this type have been recorded; in three of them, there are two identical short rounded vowels if /w/ is present. The cases are:

jòwó - jòó	'sweet potato'	kòwó - kòó	'sodium'
jèwó - jèó	'chain'	kàwó - kàó	'encrusted food'

From a purely descriptive point of view, it is sufficient, of course, simply to note the existence of an alternation such as this, and its fairly systematic restriction to a particular type of form. Historically, /w/ is apparently in the process of being lost (not appearing) in these forms, though Koelle noted both forms for 'sweet potato' as long ago as 1850-51. It is also relevant, however, to consider the practical problem of how to write such forms in an alphabetic orthography which may be used for everyday written communication and in publications. A final solution should ideally be based on a statistical and a sociolinguistic investigation which would require a study far more extensive than the present one (cf. 1.8 below). Tentatively, the safest procedure is probably to write these forms with *w* for purposes of publication, while of course recognizing the privilege of any individual to omit the *w* if he prefers.

1.7. Among the intervocalic nasals, /m/ presents no known problem at all. It appears invariably, and fairly commonly, in forms of which the following are typical:

fúmú	'powder'	kímá	'cold'
kàmá	'elephant'	kèmú	'hard charcoal'

kúmú 'bee, honey'                      lómá 'shirt'

Intervocalic /n/ presents no systematic problem. It is invariable in most of its occurrences; e.g.,

bíná	'horn'	káná	'iguana'
bònà	'larynx'	<sup>R</sup> kóná	'be bitter'
bhìní	'porcupine'	náánì	'four'

In one known case, however, there is an alternation between the presence and absence of intervocalic /n/: both /mánì/ and /máí/ occur in the meaning 'skin, body, vicinity, proximity' (for which Koelle recorded only *mani*). At present, the best information available is that /máí/ is by far the commoner form, and is probably to be preferred for use in a practical orthography. The suggestion has been made that the nasalization of the vowels be indicated; this is unnecessary, since vowels are automatically nasalized after a nasal consonant, and apart from tone the form is like the invariable /<sup>R</sup>máí/ 'insult'.

Intervocalic /ny/ is invariable in most environments. A systematic but highly restricted exception will be discussed after listing the following examples:

<sup>R</sup> fànyá	'be heavy'	mányà'é	'cat'
fónyó	'piassava fibers'	míínyá	'python'
gbànyà	'tongs, pliers'	<sup>R</sup> mììnyá	'be afraid'
kànyà	'wax'	wónyè	'driver ants'
kènyé	'sand'	kúnyè	'odor'

In four recorded forms, there is a variation between [ny], [ỹ], and nothing. In all of these, the first vowel is a single or short /i/; this restriction excludes the forms for 'python' and 'be afraid' above. Whether the initial nasal /m/ or the identity of the final vowel is also significant for this pattern of variation cannot be determined; there are no relevant forms to justify or exclude a broader generalization. Considering [ỹ] to be an optional allophone of /ny/, the phonemic variants are:

mínyá - míá	'where?'	<sup>R</sup> mínyà - <sup>R</sup> míà	'stay long'
mínyà - míà	'which?'	mìnyé - mìé	'knife'

In the case of 'knife', I have recorded /ny/ more frequently than no

intervocalic consonant (though it is possible that, having heard /m̀inyé/ first, I sometimes used the same transcription later even when /m̀ié/ was said); in the other cases, I would not have been aware of the variants with /ny/ except that Fr. Kandakai mentioned them on one occasion. Whether /ny/ in 'knife' is actually more common (possibly because of the tones or the identity of the following vowel) cannot be determined at present. There are no contrasts, however, which would make the omission of /ny/ in a practical orthography confusing, and omitting it is probably to be preferred.

There is one recorded case of a free variation between intervocalic /ny/ and /ŋ/: /sínyáŋ/ or /sínáŋ/ 'cutlass (of indigenous type and local manufacture)'.  
 R

sínà 'lend to'                      sòŋá 'jaundice'

Between identical vowels, however, /ŋ/ is said to be heard sometimes in a number of forms, but variants without /ŋ/ and with long nasalized vowels are apparently far more common. Only the low vowels /ɛ, a, ɔ/ are attested in forms of this type. This variation apparently reflects an almost completed process of losing intervocalic /ŋ/ between identical vowels; Koelle recorded only forms with /ŋ/ in 1850-51. About half of the recorded cases are:

báá - bàŋá	'reed instrument'	kóó - kóŋó	'hunger'
gèè - gèŋè	'saw'	kpàá - kpàŋà	'slat mat'
káá - kàŋá	'box'	<sup>R</sup> láá - láŋá	'stop'
kóó - kòŋó	'hill'	sóó - sòŋó	'price, value'

For such forms, the variants with long nasalized vowels are probably to be preferred for a modern alphabetic orthography. Three forms with invariable long nasalized vowels are also known, but they would not introduce any confusion; in two of these, the vowel is /i/, which does not occur in forms like those above:

híí	'if'
kíí	'checkers' (Engl. <i>king</i> )
wéé	'with determination'

1.8. In a very few (but some of them exceedingly common) morphemes,

apparently none of which can occur in utterance-initial position, a morpheme-initial [l] is sometimes heard if the preceding morpheme ends with a vowel; a morpheme-final /ŋ/ followed by one of these morphemes always results in the sequence /nd/. This occasional and often elided [l] cannot be assigned to the initial consonant phoneme interpreted as /l/ in 1.1 above; the common initial /l/ is pronounced as [d] by some speakers, but the initial consonant of the morphemes in question here, if pronounced at all, is invariably [l], and in contrast with /l/.<sup>8</sup> There are two reasons for not having treated this [l] in connection with initial consonants: first, the morphemes in which it may appear are not "words" which can normally be cited independently (though some of them will be written as separate words); and second, it has the same phonologic status, after a morpheme-final vowel, as morpheme-internal intervocalic [l], also commonly elided, which is the primary topic of this section. Like the morpheme-internal alternation between [l] and nothing, this comparable alternation will be written with an apostrophe (see below). In Klingenheben's unpublished vocabularily file of Vai, there are some twenty-six forms with initial [l] as opposed to [d] (the entries were kindly made available to me by Mrs. Gail Stewart, personal communication); almost all of those not included in the list below are derivatives of one or another of these, most of which I would write as phrases, and none of which seems to weaken the analysis proposed here. The morphemes in which I have recorded this alternation are:

- 'ó (introduces direct quotations)
- 'ó 'only' (a more emphatic form, using the same morpheme initially and finally, is /'óbéndó/)
- 'ò 'inside' (a relational noun)
- 'à (a relational particle expressing association)
- 'à (a verbal construction marker; see 10 below)
- 'à (a verbal suffix; see 10 below)
- 'éè (a verbal suffix; see 10 below)

In perhaps as many as forty percent of all Vai stems, an intervocalic [l] is sometimes heard, in the speech of some people. In most if not all such forms, variants without [l] are said to be more common. No single word can be cited as having an invariable intervocalic [l]. This is clearly another instance of a phonetic change well on its way

to completion, but not yet fully realized -- a phenomenon one is not often privileged to observe, particularly in such a conspicuous and extensive form. In 1850-51, Koelle transcribed a great many of the relevant forms, and wrote them consistently with *r*, mentioning only a few sporadic instances of its elision.<sup>9</sup> At present, Fr. Kandakai has offered the "guestimate" that [l] may be heard from twenty to thirty percent of the time in some words, and up to perhaps fifty percent of the time in others. I would judge, after listening to an hour or two of rather animated conversation among four men approximately in their fifties, that [l] is far less common, in fact quite rare, at least in that style of speech. The extent to which [l] has been lost does not correlate with dialect areas, nor entirely with age groups, though in general, as would be expected, it is heard more commonly in the speech of the older generation. Really adequate information on this could hardly have been obtained for the present study even if a great deal more time had been available; it would be a major research project in its own right, requiring an extensive recording of the speech of scores or even hundreds of people, and including a careful study of stylistic and sociolinguistic factors. At the same time, some reasonably intelligent observations can be made even with the limited evidence available, which can at least serve as guidelines for possible further investigation of the topic.

Before further comments are offered, however, a statement is in order as to how this alternation should be treated in a descriptive study such as this, as well as for purposes of a practical alphabetic orthography of Vai. From the viewpoint of a technical description, it does not seem appropriate to omit in a transcription what is sometimes heard in speech; yet it seems unfortunate to suggest, by writing *l* in every instance where it may sometimes or occasionally be heard, that it has the same status as any other phoneme. And it would, of course, be hopelessly redundant and uneconomical to write two alternate forms for every one of the hundreds of instances that must be cited. In efforts to decide on a practical orthography (which is, of course, by no means an unrelated problem), countless fruitless hours are said to have been spent in discussing whether the optional intervocalic [l] should always be written, always omitted, or written in some words but not in others.

Some experiments have been conducted, using the extremes of "always" and "never," and neither seems acceptable. Some readers are understandably impatient at seeing the written language constantly interrupted by the letter *l* where they do not normally pronounce the sound it is supposed to represent; others are, equally understandably, confused if *l* is omitted in writing all such words, since they often pronounce such words with [l], and would like to depend on the letter to help them recognize the word. The solution adopted for this study, and recommended for a practical orthography, had apparently never occurred to anyone before, but was the instant reaction of Beatrice F. Welmers when the problem was described to her (and for which she deserves full credit if it should be immortalized in Vai publications): use an apostrophe. In this description, /' / is simply defined as representing the alternation in question. In practical use, since many potential readers of Vai are already at least minimally literate in English, and since an apostrophe is a less conspicuous symbol than the other letters that will be used, it should not be difficult to teach people to ignore it or to pronounce it as [l], as they prefer. Such a compromise at least seems far preferable to never writing Vai alphabetically at all, which was beginning to seem inevitable.

A few typical examples -- all of which have been heard both with and without [l] when the particular form in question did not seem to be the focus of attention -- are as follows:

<sup>R</sup> kì'í	'tie'	kí'à	'path, road'
té'é	'sun, day'	<sup>R</sup> bè'á	'fall'
<sup>R</sup> sè'é	'go up'	té'ì	'proverb'
fà'á	'liver'	sá'é	'lying down'
kò'ó	'rice'	kò'í	'the ocean'
kpò'ó	'skin; paper, book'	bó'í	'medicine'
tú'ú	'oil'	kú'è	'sound, voice'
kùmà'é	'palm nuts'	kúmbé'é	'knee'
fàà'é	'dead'	bè'èsíí	'honor, praise'
kà'àmóó	'teacher'	mù'ì'é	'overturned'

One may well wonder whether the elision of intervocalic [l] is actually equally optional in all cases in a phrase such as /bó'í ló'á'é/ 'sour medicine'. Under the circumstances of this study, all that could

be done was to try to ascertain whether all possible combinations would be acceptable; the possibilities are:

[bóí lóáé]	[bólí lóáé]
[bólí lóáé]	[bólí lóáélé]
[bóí lóláé]	[bóí lóláélé]
[bóí lóáélé]	[bólí lóláélé]

None of the alternatives seemed particularly unacceptable to Fr. Kanda-kai, though it was hardly possible to tell (or undoubtedly for him to judge in the admittedly artificial context) whether some sounded more "natural" than others. Such premature and rather intuitive feelings as I may have concerning the relative probability of hearing one or another of the above are hardly worth mentioning.

Some other matters, however, are well worth discussing. The first is a sociolinguistic problem. It appears to be a rather widely accepted popular belief that the existence of a written form of a language has a strong tendency to inhibit language change. Although the influence of a written language cannot be totally ignored (as exemplified by "spelling pronunciations," of which my own English [palm] for the more common [pa:m] may be an excellent example), it is far more significant that even the alltime best seller in English literature has not prevented speakers of English from losing the older forms 'thou, thee, thy, thine' except, for some of us, in addressing God in prayer. In the case of Vai, the syllabic writing system, probably familiar to a far smaller percentage of the speakers of the language than even Elizabethan English is to modern speakers of English, might be expected to have exerted even less influence on the contemporary spoken language. One must not, however, discount the impact of a number of deeply respected elders, conversant with and understandably proud of the unique Vai syllabary, or perhaps merely retaining the vanishing intervocalic [l] in their own speech, on the younger generation. It is to be expected, in this rather typical West African society, that almost any youngster, for all the innovating contacts he may have, would still be aware that the word for 'crocodile', which he normally pronounces as [fáí], is properly [fálí] in the tradition of the elders of his people. This is but one of the reasons why it seems appropriate to recognize the generally archaic intervocalic [l] as a reality in modern Vai

structure.

Closely related to this is a stylistic problem. For those who are aware of the archaic forms, it is natural that intervocalic [l] is far more likely to be used in isolated citation forms than in connected discourse. In the nature of the present study, citation forms or at least only minimal sentences have tended to predominate, although efforts have been made to hear representative forms in as natural contexts as possible. It is also a virtual certainty that intervocalic [l] will be used more commonly in speaking to an expatriate learner of the language than in informal conversation with one's peers. (Much of the desired recording for a fuller study should be done by native speakers of Vai, if possible without the interviewees being aware in advance that their speech is being recorded.) Further, it is likely that intervocalic [l] is heard more frequently in formal address than in casual conversation, and by the same token in words with something of a formal connotation, such as /bè'èsíí/ 'praise, honor, respect' as opposed to /kùmà'é/ 'palm nuts'. This may be one of the reasons why [l] is said to be heard more frequently in some words than in others.

In discussing the elision of other intervocalic consonants (1.6,7 above), it was noted that elision was in every case restricted to forms with particular segmental shapes. While the same may have been true for [l] when it first began to be elided, the elision seems at present to have spread to all forms irrespective of such possible conditioning factors. It is attested even in a number of forms like /tàà'à/ 'gill', /tòò'ò/ 'kola nut', and /kèè'é/ 'snail', though in these cases, since three consecutive identical vowels are not permitted (except in ideophones), at least with the same tones, the forms with elision are [tàà], [tòò], and [kèé] ([kèě]?) or perhaps [kèèé]. It is nevertheless possible that pronunciations with [l] are more common in the case of words with definable segmental or possibly tonal characteristics.

Finally, it is possible that [l] is commonly heard in a few words of rather recent foreign origin, particularly if the foreign source word is widely known; and in some such forms it may eventually be retained, and at some later date recognized as an innovation in the phonologic system. Cases of this type include /pù'òŋ/ 'mango' (Liberian English 'plum') and /sé'èŋ/ 'twenty cents' (for which 'shilling' is still used fairly commonly in Liberian English). In the latter case, however, I

have casually slipped phrases like /sé'èŋ fè'á/ 'forty cents' into longer sentences without using intervocalic [l], and have not noted a sign of surprise or disapproval. As of even date, however, I would be rather surprised to hear [téélà] 'tailor' without an intervocalic [l]; I suspect that it is still a conscious citation of a foreign word, a convenient and perhaps somewhat prestigious substitute for the Vai phrase /kò'à só'ó-mòò/ (literally 'cloth sew-person').

In short, it does not appear that any systematic criteria are likely to be found for recognizing intervocalic [l] as more desirable or acceptable in some words than in others, though there may be a range in the frequency of its occurrence in some individual forms as opposed to others. Further, it appears that, although intervocalic [l] is probably destined for eventual oblivion (perhaps later to reappear, as a sort of phonetic phoenix, in newly adopted words), it is likely to be recognized, heard, and even emotionally defended for at least a few more decades. In a later generation, when no one remains to use it or demand it, our ubiquitous apostrophe can also be dispensed with.

1.9. Only one consonant, /ŋ/, occurs in word-final position. Phrase-medially, this sometimes -- perhaps generally, but by no means always in the relatively careful speech I have primarily heard -- becomes [m] or [n] (or [ŋ] or [ŋm]) by assimilation to the articulatory position of the initial consonant of the following word. In some other languages, I have frequently found it difficult to recognize contrasts between /i/ and /e/, or between /u/ and /o/, in closed syllables, and especially before /ŋ/. In Vai, this has presented no problem. The seven vowels (see 2 below) are clearly distinct in the following monosyllables, which otherwise differ only in tone in a few cases:

lîŋ	'ring'	<sup>R</sup> lúŋ	'hurt'
léŋ	'child'	<sup>R</sup> lǒŋ	'enter'
<sup>R</sup> léŋ	'hang up'	<sup>R</sup> lóŋ	'eat'
	<sup>R</sup> láŋ		'hear'

## CHAPTER 2

# VOWELS

2.1. Vai has seven oral vowel phonemes. Nasalized counterparts of four of these have been recorded, though they are not frequent. These are as follows:

i	u	ĩ	
e	o		
ɛ	ɔ	ẽ	õ
	a		ã

2.2. All vowels may occur short (written singly) or long (written doubly). Structurally long vowels are, of course, exceedingly common if intervocalic [l] is not pronounced in forms like /tú'ú/ 'oil'; the examples in 1.8 above only begin to hint at the extent of this phenomenon. There are also instances of long vowels, however, where there is no evidence of an optionally or recently elided intervocalic consonant (although at least the word for 'cow', cited below, has apparent cognates in other Mande languages with an intervocalic consonant). Illustrations of the oral vowels, short and long, are:

kĩ	'sleeping'	nìí	'cow'
kèfé	'pineapple'	kèèfè	'pepper'
sènéné	'farm'	fèèwê	'winnowing basket'
tá	'fire'	<sup>R</sup> táá	'go'
sǒ	'work'	sóò	'firewood'
kó	'thing (matter)'	sóó	'hole'
bhù	'gun'	kùú	'compound, home'

Abnormally lengthened vowels are characteristic of some ideophonic forms. These are indicated by triple writing of the vowel in forms such as the following:

wùùù (descriptive of movement in mass or confusion)

wààà (descriptive of rain falling in a brief shower)

dhùùù (descriptive of the sound of a gun or cannon)

There are undoubtedly a great many more forms like these; the circumstances under which the present study was made were naturally not conducive to hearing many of them used.

It may also be necessary to recognize structurally triple vowels where /' / is not realized as [l], and where the tones of the three vowels are not identical. It is also possible, however, that these sequences are reduced to ordinary long or double vowels, although the tone sequences are retained. Examples of forms of this type are:

kèè'é	'snail'	pòó'ò	'fruit (sp.)'
jèè'é	'rough'	tóó'ò	'fruit (sp.)'
ténjè'èě	'the plate'	à táá'á	'he has gone'

2.3. There are also numerous instances of sequences of two different vowels in stems; again, these are multiplied if /' / is not realized as [l], as in /fà'í / 'crocodile'. Apart from such elision, sequences of three vowels, at least two of them different, are not recorded in stems. Such sequences are common, however, in forms in which two stem-final vowels are followed by a suffix consisting of a vowel. In sentences, up to five consecutive vowels have been recorded. Examples of vowel sequences are as follows; in the full sentence, spaces written between words are not necessarily phonologically significant:

kàí	'man'	kàíě	'the man'
tìè	'chicken'	tìèě	'the chicken'
lòà	'red monkey'	nìíě	'the cow'
kèú	'tortoise'	kèúě	'the tortoise'
kàíě ì à nyià sémbé 'à		'the man fixes it well'	

2.4. Phonemically nasalized vowels are not at all common, and are clearly not part of the inherited phonology of Vai, which, however, displays a structural counterpart in stem-final /ŋ / (1.9 above). Long nasalized vowels in alternates of forms with intervocalic /ŋ /, and in a few other forms, have already been described and illustrated in 1.7 above. Apart from these, fewer than twenty forms with nasalized vowels have been recorded. Small though this number is, the forms nevertheless fall into definably different groups. First are two forms with

single nasalized vowels, and two with two different vowels both of which are nasalized:

kpà	'credit' (owed to, not by, the possessor)	pòwá	'rice mixed with greens or okra'
kpá	'firmly'	páì	'pint'

In six cases including a higher vowel followed by a lower vowel, only the final lower vowel is prominently nasalized:

zìṣ	'ceiling mat'	lóá	'tree (sp.)'
tóá	'bat'	kpèsíḗ	'strangler fig'
tòá	'smithy'	jààsíḗ	'mushroom (sp.)'

In four cases, only the first part of a stem, with a long vowel, is nasalized; one case of reduplication is included:

kpàákè̀sì	'wasp'
pàápíí	'stew made with starchy foods other than rice'
<sup>R</sup> kpéé̀sì	'remove (palm nuts from among thorns of cluster)'
tèè̀fìtèè̀fì	'tough but resilient' (literal and metaphoric)

Finally, four reduplicated forms have been recorded, with long nasalized vowels or vowel sequences in both parts; three of these are terms for species of birds:

gṣṣgṣṣ	'crow'	vṣṣvṣṣ	'hornbill'
híìhíì	'owl'	dhéídhéì	'epilepsy'

2.5. The absence of a nasalized counterpart of /u/ from the inventory of nasalized vowels is probably not the result of a phonologic constraint, but rather merely a reflection of the infrequency of nasalized vowels in general. There is excellent evidence, however, that the non-occurrence of nasalized counterparts of /e/ and /o/ is no accident. The same kind of vowel system -- seven oral vowels and five nasalized vowels, with no nasal counterparts for /e/ and /o/ -- is exceedingly common in West Africa (Welmers 1973, p. 32). Since all of the forms cited above are probably adopted from other languages (or perhaps in some cases, of ideophonic types, native Vai inventions), the repertoire of nasalized vowels must reflect the phonology of a language or languages with which Vai has been in contact relatively recently.

Further, after nasal consonants, the vowels /i, e, a, o, u/ are au-

tomatically nasalized (and not specially marked as such in this study). Precisely after nasal consonants, /e/ and /o/ do not occur. It seems clear that the contrast between intervocalic nasal-oral sequences and oral stops is of rather recent origin in the history of Vai; so also is the contrast between initial nasal-oral sequences and nasal consonants. The contrast in initial position seems to have arisen with the introduction of forms such as /ŋgɔ̃/ 'older brother or sister' from Mende.<sup>10</sup> In the following forms, the oral release of /mb, nd, ŋg/ is not at all prominent, but it is audible, and this interpretation is clearly preferred by native speakers of Vai:

mbê	'what?'	lumbó'ò	'citrus fruit'
mbééì	'steamship'	sééndé	'rain water'
lìàmbò	'conversation'	ŋgèèmàgbìsà	'scorpion'

As suggested in 1.2 above, the first two of the above examples have nothing to do with the common occurrence of syllabic [m] followed by a stem-initial /b/; cf. 3.7 below.

## CHAPTER 3

# TONES

3.1. Vai is a discrete-level tone language with two tones.<sup>11</sup>

Throughout a phrase or sentence, there is no appreciable downdrift conditioned by a low tone between two high tones. A final high tone or sequence of highs after low may be somewhat lowered (which is not downdrift but rather an utterance-final "downtilt"; see 4.1 below), but even this phenomenon has been less noticeable than in some other languages. In the following sentences, for example, there are respectively four and five instances of one or more low tones between high tones. Except for the final high tone in the first sentence, the last high in each sentence is scarcely lower than the first, and certainly by no means as low as any low tone in the sentence:

ń má à sò ànú'á kò'ó mènú sàŋ kàà mú.

'I don't know where they bought that rice.'

mùsú sàkpá bè kò'ó 'ò fí-nà kéně kpáà 'ò.

'Three women are winnowing rice behind the house.'

3.2. A single vowel or syllabic nasal may have a single tone, as may be noted in most of the forms so far cited. In such cases, high is marked /' / and low is marked /` / . In forms with two syllables or two immediately successive vowels, any possible sequence of the two tones may occur: high-high, low-low, high-low, low-high. The following groups of examples may also serve as useful drill material for a learner of Vai, or to help a native speaker recognize the tones of his language and learn how to represent them in writing:

sánjá	'fence'	gbàsà	'cassava'
wúnú	'mortar'	jèndà	'spindle'
nyíé	'fish'	kpènè	'catfish'
té'é	'sun, day'	kpò'ò	'palm cabbage'
kúú	'bath fence'	làà	'paddle'

sámà	'basket'	sànjá	'town'
kpésè	'toothbrush'	fàndé	'cotton, thread'
níè	'here'	sàkpá	'three'
kú'è	'sound, voice'	jàmbá	'leaf'
búù	'man's bag'	làá	'clay pot'

3.3. Single short syllables, whether complete words in themselves or parts of longer words, fall into the same four tonal groups. In such syllables, a simple high or low tone is marked as illustrated above. It is also possible, however, for the sequence high-low to be compressed, as it were, into a quick falling tone accompanying a single short vowel, and similarly for the sequence low-high to be compressed into a quick rising tone. To mark such compressed sequences, the symbols for marking tone are also compressed. Thus, for high-low, the symbols /<sup>^</sup>/ are joined to form /<sup>^</sup>/; similarly, for low-high, the symbols /<sup>'</sup>/ are joined to form /<sup>'</sup>/. Examples of tones with short vowels are:

tá	'fire'	bhù	'gun'
jí	'water'	nà	'Come!'
kéŋ	'house'	lòŋ	'Come in!'
bâ	'mother'	mǒ	'person'
tíŋ	'island'	sǒ	'beans'
tâŋ	'ten'	bǎ	'goat'

The compressed sequences /<sup>^</sup>/ and /<sup>'</sup>/ with short vowels are not at all common in word stems. The latter, however, always accompanies the definite suffix of nouns, generally corresponding to English 'the'. The suffix has the alternate forms /-ě/ (after /i, e, u, o, ŋ/), /-ě/ (after /e, o/), and /-ǎ/ (after /a/). If a word has more than one vowel, and if the final vowel is one of these, with low-high tone, it is always the definite suffix. A few representative examples are:

lìndíě	'the termite hill'	tíŋě	'the island'
jíě	'the water'	kéŋě	'the house'
nyíéě	'the fish'	fàndéě	'the cotton'
kùndúě	'the iron'	bòndòě	'the attic'
bhùě	'the gun'	sànjáǎ	'the town'
kpò'òě	'the palm cabbage'	bǎǎ	'the goat'

Where the compressed sequence /<sup>^</sup>/ might be expected, in a few compounds and in alternate forms of certain suffixes, what appears is rather a double vowel with an ordinary high-low sequence. E.g.,

jàmbà-móò 'herbalist' (from /jàmbá/ 'leaf' and /mó/ 'person')  
 à bè kǒŋ tìè-náà 'he is cutting sticks' (cf. /<sup>R</sup>tìé/ 'cut', suffix form /-nà/ in other tonal contexts)

3.4. It has been mentioned in other connections (1.8 and 2.2 above) that sequences of three identical vowels are not ordinarily permitted. This certainly applies to forms in which the definite suffix would otherwise be the third of three identical vowels, even though all three would not have the same tone. The resultant contractions of vowels and tones are illustrated in the following, which hardly seem to require a separate statement of formal rules:

láá	'a plankfish'	:	láǎ	'the plankfish'
làà	'a paddle'	:	làǎ	'the paddle'
làá	'a clay pot'	:	làǎ	'the clay pot'

If not all of these contrasts are consistently maintained in rapid speech, it matters little to the structural analysis of the language, or for purposes of a practical orthography. Among the six items above, which were checked on one occasion with three speakers of Vai together, the only confusion that was suggested as at all possible was between /làá/ 'a clay pot' and /làǎ/ 'the paddle'; all agreed that the orthographic distinction was useful for its obvious reflection of at least the underlying structures of the forms.

3.5. In spite of the existence of a few sets like the above, pairs or larger groups of stems that differ from each other only in tone are not particularly common, especially within a single grammatical category; it would probably be possible to find a few dozen minimal pairs, but hardly several score. As the above examples suggest, however, minimal pairs are multiplied when forms including the definite suffix are taken into consideration. Pairs of forms that differ in both tone and vowel length are even more common, as /sànjá/ 'a town' and /sànjáǎ/ 'the town'. In context, the tonal difference between such forms is at least as conspicuous as the difference in vowel length.

Although all four possible tone sequences are illustrated in 3.2 and

3.3 above, low-low (or a single low) is less common than the others as a lexical tone pattern, and does not occur at all as a lexical tone with verb stems. In nouns, low(-low) may well be confined to innovated forms and a few monosyllabic relational nouns or particles (compare the situation in Kpelle, Welmers 1961). In verb stems, there are few if any pairs distinguished only by lexical tone; all verbs, however, appear with low replacing the lexical tone in a number of constructions. There are also other differences (construction markers and/or suffixes) which contribute to distinguishing different verbal constructions; yet the tone of a verb stem is by no means a matter of indifference, but is as important as anything else in the construction. In the imperative, for example, all verbs with one known exception have low tone. Imperatives of three verbs are illustrated in the following:

mú kùnè	'wake us up'
kǒŋ tìè	'cut sticks'
kǒŋě lèsì	'catch the stick'

Yet these same three verbs have different lexical tones, as shown in a future construction:

àì mú kúné'à	'he will wake us up'
àì kǒŋ tìé'à	'he will cut sticks'
àì kǒŋě lésì'à	'he will catch the stick'

Further details concerning tonal alternations, as well as a few consonantal alternations, will be treated in the appropriate grammatical sections of this study.

3.6. Stems and morphemically complex forms containing more than two vowels are rather miscellaneous and non-systematic in terms of the tonal sequences they display. The same principles of tone marking, however, naturally apply in these forms as well. A few illustrations will suffice to show the variety of tone sequences:

kúmbé'é	'knee'	bhúndùfú	'cloud of dust'
lààwí'à	'sling'	gbómàgbó	'tree (sp.)'
lèélèé	'fish (sp.)'	kèèkù'ò	'ground squirrel'
bè'èsíí	'honor, praise'	góógènè	'pond'
kòŋ-káì	'wood carver'	lìfì-kèŋ	'jail'

3.7. High tone accompanies a syllabic nasal in forms of the first person singular pronoun followed by a stem-initial consonant. There are no other syllabic nasals in Vai. This nasal is unspecified as to position of articulation; it is homorganic with the following consonant. (It is [ŋ̥] before /w/, the velar component of which predominates in this context.) It will here be written as /ŋ̥/ before all consonants except in a special case to be noted below.<sup>12</sup>

After /ŋ̥/ (phonetically [ŋ̥] in this case), stem-initial /l/ is always a stop (as it often is for many speakers in any case; see 1.1 above), but with little if any implosion. Where word division is written (which it is in some cases for merely practical reasons or on the basis of intuition), the stem-initial consonant may still be interpreted and written as /l/. The first person singular pronoun also appears before a few morphemes with initial /'/, including /'à/ (a relational particle) and /'ó/ (introducing quotations). Such combinations are written as /ndà/ and /ndó/. This is paralleled by innumerable instances of stem final /ŋ/ followed by the same or similar morphemes, in which the sequence of /ŋ/ and /'/ is interpreted and written as /nd/, and is not distinguishable from other cases of intervocalic /nd/. Further details on the morphemes in question will be found in appropriate sections dealing with the grammar later in this study.

Some typical examples of the first person singular pronoun, including phonetic transcriptions, are:

ŋ̥ bâ	[m̥ bâ]	'my mother'
ŋ̥ fǎ	[ŋ̥ fǎ]	'my father'
ŋ̥ má tàà	[m̥ má tàà]	'I didn't go'
ŋ̥ táá'à	[n̥ táá'à]	'I went'
ŋ̥ sũŋ	[n̥ sũŋ]	'my nose'
ŋ̥ lá	[n̥ dá]	'my mouth'
ŋ̥ já	[n̥ já]	'my eyes'
ŋ̥ kěŋ	[ŋ̥ kěŋ]	'my foot'
ŋ̥ kũŋ	[ŋ̥ kũŋ]	'my head'
ŋ̥ kpǎ	[ŋ̥m̥ kpǎ]	'what is owed to me'

3.8. One allotonic phenomenon is worthy of note. Between a high tone and either low or high, the compressed sequence low-high accompanying a single vowel gives the impression of being a rather level tone

which one might at first want to interpret as "mid"; at best, the rise is far from conspicuous. There is no reason, however, to posit a third level tone to account for this phenomenon. Further, this compression of low-high does not affect the discrete-level character of tone sequences; a following high tone is just as high as any preceding high tone. This phenomenon may be heard in sequences like the following:

ànú'á kégě fè'è	'they saw the house'
ànúì kégě fé'é'á	'they will see the house'

A sequence of two vowels, each with low-high, compounds this effect; each low-high may give the impression of being level, the second a little lower than the first. The following thus sound like "terracing," but structurally are not:

ànú má kǒgě fè'è	'they didn't see the tree'
ànú má bǎǎ fè'è	'they didn't see the goat'

3.9. In discussions of the establishment of a practical orthography, for innumerable African languages and probably for languages elsewhere as well, resistance to any indication of tone has been exceedingly common, and has often approached the level of irrationality. The plea is commonly heard that a native speaker can tell what tone is intended "from the context." In the case of Vai, the relatively small number of minimal contrasts might be cited for further support. The above discussion, however, demonstrates first that far more than bare lexical tone must be considered. There are many more instances than mere lexical tones would suggest in which "context" would be useless even to a native speaker of Vai; it would be unfortunate if he could not tell whether the indefinite or definite form of a noun is intended in a number of cases. In addition, of course, an unambiguous representation of tone is absolutely essential to a non-Vai who hopes to learn to speak the language accurately, read it aloud intelligibly, or study its structure. This is by no means intended to suggest that tone be consistently marked primarily as a favor to the relatively few expatriates, such as missionaries and Peace Corps Volunteers, who may find it useful or desirable to learn Vai. The Liberian government has expressed its intention, and has begun the implementation of programs, to teach Vai and other Liberian languages to other than their native speak-

kers, as well as to promote literacy among those who are native speakers. In a very real sense, the foregoing discussion, in addition to being a descriptive linguistic statement and a linguist's strong preference for a practical orthography, may be considered to be dedicated to the aspirations and best interests of Liberia's peoples.

## CHAPTER 4

# INTONATIONS

4.1. The tones of Vai as described above are heard in isolated words and phrases, and without appreciable difference in complete declarative sentences and in question-word questions.<sup>13</sup> A final low tone in such complete utterances is relaxed, and is the lowest pitch in the utterance. As noted in 3.1 above, a final high tone after low may be slightly lowered. Such sequences may be interpreted as having declarative intonation, and marked by a final period, /./ . For purposes of a practical orthography, it is strongly recommended that a period rather than a question mark be used at the end of an utterance containing a question word and expecting an answer; e.g.,

JŃ mènú.	'Who's that?'
Míá bàndà mù à ná'à.	'When did he come?'

4.2. Questions which may be answered with assent or dissent are marked by a question intonation which affects only the final tone of the utterance. A final high tone is considerably higher than in declarative intonation, and a final low tone is actualized as a rise. (Morphemes that may occur in utterance-final position are restricted to certain classes; it is my impression that no such morpheme ends with a single vowel having low-high or high-low tone.) Question intonation may be indicated by a question mark, /?/; it should be noted that this is intended to mark only a phonologic intonation, not every logical question. E.g.,

À bè nú?	'Is he there?'
À bè ná-nà?	'Is he coming?'
Ànú má nà?	'Didn't they come?'

In response to such questions, assent is expressed by /hěě/ 'Right!', which after a negative question corresponds to English 'No'. Dissent is expressed by /kpé'é/ 'Wrong!' (or, marginally to the phonologic sys-

tem, by a sequence of nasals interrupted by a glottal stop, with the tonal sequence low-high, such as [nʔn̄n̄]), which after a negative question corresponds to English 'Yes'. That is, the Vai answers indicate whether the statement underlying the question is correct or incorrect, while the English answers indicate whether the correct statement concerning the situation would be affirmative or negative. (The Vai pattern is, of course, characteristic of countless languages; the pattern represented by English is probably less common in languages of the world.)

4.3. A sentence-internal pause, as at the end of a subordinate clause, is intonationally marked in much the same way as are questions, but with a less extreme raising of pitch. This may be marked by a comma, /,/. E.g.,

Á ná'é, mùì à f'é'é'à.

'When he comes, we'll see him.'

## CHAPTER 5

# MORPHOPHONEMIC ALTERNATIONS

5.1. The usual phonetic realizations of word-final /ŋ/ before word-initial consonants have been briefly but adequately treated in 1.9 above. The variants of a syllabic nasal with high tone have quite a different status, simply because they are syllabic; they are treated in 3.7 above. Mention was made there of comparable alternations in the case of word-final /ŋ/. A somewhat fuller outline is appropriate here, and certain other alternations are most conveniently treated separately before turning to more specifically grammatical matters.

First, there is a small group of morphemes, cited in 1.8 above, which do not appear in utterance-initial position, beginning with /'/. In all of these, a morpheme-initial [l] may sometimes be heard after a preceding vowel, but never an initial [d]. Some of these morphemes are grammatically independent words, and will be so written if a word-final vowel precedes. The form /'b/ 'inside', for example, functions exactly like a number of other relational nouns (see 6.7 below), and is in fact the head constituent in relational noun phrases. A form /'à/, one of at least three homophonous morphemes, shares some of the same uses, and is interpreted as a relational particle. A second form /'à/ is a verbal construction marker; perhaps arbitrarily, this will be written as a separate word after a noun subject, but without word space after a pronoun subject. A third form /'a/ and the form /'ee/ are verbal suffixes (see 10.2-4 below), and will always be joined to what precedes without word space.

These forms may also occur, however, after stems which have a final /ŋ/. In such cases, the stem-final /ŋ/ and the initial /'/' of the morphemes in question combine as /nd/, which is indistinguishable from morpheme-internal /nd/. Such combinations will be written without word space irrespective of the grammatical status of the morpheme with initial /'/. Comparative examples of these morphemes after vowels and af-

ter /ŋ/ are as follows:

kéŋě 'ò	'the inside of the house, in the house'
kpóndò	'the inside of a bowl, in a bowl' (kpóŋ)
í ŋ kò féŋ bóǒ 'à	'give me something'
í ŋ kò jà-fêndà	'give me money' (jà-fêŋ)
kàíě 'à ŋ kè'è	'the man called me'
ànú' à ŋ kè'è	'they called me'
Lěndà ŋ kè'è	'Lěŋ called me' (Lěŋ: female name)
kò' áǎ kpé' à	'the cloth is white'
kò' áǎ fíndà	'the cloth is black' ( <sup>R</sup> fíŋ)
á ná' éè, ...	'when he comes, ...'
á bándéè, ...	'when it is all gone, ...' ( <sup>R</sup> báŋ)

As noted in 3.7 above, the first person singular pronoun, a syllabic nasal, has been recorded before two of these morphemes: the relational particle /'à/, and /'ó/ introducing a direct quotation. It also appears before the verbal construction marker /'à/, but with quite a different alternant; see 10.4 below. Comparative examples relevant here are the following:

fèó bè à 'à	'he has asthma'
fèó bè ndà	'I have asthma'
à 'ó, ...	'he said, ...'
ndó, ...	'I said, ...'

5.2. A closely similar alternation is found in a small number of compound nouns. A major type of compound noun shows a tonal alternation in the final member of the compound; hyphenation is used in such "regular" compounds, and it is not necessary to recognize any consonant alternation at that boundary (see 7.1 below). In a smaller number of compounds, however, many of which do not have the tonal alternations characteristic of "regular" compounds, a stem-final /ŋ/ in the first member combines with the stem-initial consonant of the second member to form a nasal-oral sequence indistinguishable from those in stem-internal intervocalic position. Some of these are instances of final /ŋ/ plus initial /l/ combining as /nd/, similar to the alternation de-

scribed above (though the cases above involve only initial /'/, never initial /l/). There are also a few cases of final /ŋ/ plus initial /b/ combining as /mb/. The remaining cases show voicing of the initial consonant of the second stem: final /ŋ/ plus initial /k/ combine as /ŋg/, and final /ŋ/ plus initial /kp/ combine as /ŋgb/. (In several regular compounds, however, these alternations do not appear.) Most of the recorded cases of these alternations are listed in 7.4,5 below, and need not be separately cited here.

5.3. Another similar alternation is found in the sequence of a stem-final /ŋ/ and a suffix-initial /y/; the resultant combination, attested in one example, is /nj/. The first person singular pronoun also combines with a morpheme /yè/, a relational particle, to form /ńjè/. A parallel combining of stem-final /ŋ/ with initial /w/ is not attested, but the first person singular pronoun combines with a morpheme /wá/ (introducing quotations, like /'ó/ above; /'ó/ appears to be more formal, and is perhaps archaic) as /ŋgá/. Comparative examples are:

<sup>R</sup> kò'òyáà	'enlarge' ( <sup>R</sup> kò'ó 'be large')
<sup>R</sup> jànjáà	'lengthen' ( <sup>R</sup> jǎŋ 'be long')
ànú'à à fò mú yè	'they told (it to) us'
ànú'à à fò ńjè	'they told (it to) me'
à wá, ...	'he said, ...'
ŋgá, ...	'I said, ...'

5.4. The common tone sequence low-high in nouns has the alternant low-low before high tone in (1) any modifier, (2) a verb of which the noun is the object, or (3) the final member of a compound (which then has high-low rather than low-low; see 7.1 below). This alternation is not found before a relational noun, nor before the morpheme /á/ used in possessive constructions with free nouns (cf. 6.2,3 below). (Nouns are rarely found in other environments, and the alternation is not expected elsewhere.) Comparative examples, using the noun /mùsú/ 'woman' and in one case /lìfí/ 'night' as representative of nouns with low-high tone, are as follows:

mùsúě	'the woman'
mùsú mềé	'this woman'

mùsú fè'á	'two women'
á'à mùsú fè'è	'he saw a woman'
mùsú tóó	'a woman's name'
mùsú á kò'á	'a woman's cloth'

But:

mùsù náánì	'four women'
mùsù kúndú	'a short woman'
íì mùsù fé'é'ée, ...	'if you see a woman, ...'
lìfì-kêŋ	'jail' (lit., 'night-house')

The same sequence low-high, as the lexical tone of verb stems, has the same alternant low-low before high in a verbal suffix (of which /'ée/, or optionally /'é/ after intransitive verbs, is the only representative), and in the final member of a compound. Comparative examples are:

àì jì'í'à	'it's going to swell up'
àì jì'ì'ée, ...	'if it swells up, ...'
jì'ì-fêŋ	'boil, abscess'

The same alternation in verb stems is optional before a morpheme with inherently locative meaning which is used in expressions for present action; this is treated fully in 10.5 below.

This alternation, low-low for low-high before a high tone, is thus characteristic of many forms in many combinations. Two combinations in which it does not appear were noted above; it also does not appear in noun modifiers.

5.5. An apparently unique alternation is found in many compounds ending with the noun which independently is /mɔ̃/ 'person'; in such compounds, it has a double vowel, /-mòò/ (or /-móó/ depending on the preceding tone). This has been pointed out to me independently, and apart from questions being asked about it, by four or five different speakers of Vai. Relevant compounds are:

támáá-mòò	'idler'	kò'à l'éè-mòò	'weaver'
jàmbà-móó	'herbalist'	sènè ké-mòò	'farmer'

5.6. A few other morphophonemic alternations, restricted to one or a few forms, may have been overlooked here, but will be noted as rele-

vant examples appear in the following sections. In addition, there are a few tonal alternations which have a morphemic status (i.e., which are not environmentally conditioned, as are those described in the foregoing sections). These will be discussed in connection with the grammatical constructions in which they occur.

## CHAPTER 6

# CATEGORIES OF NOUNS

6.1. Vai nouns fall into two categories, free and relational, a distinction which is typical of the Mande languages. Free nouns are those which may be used without an expressed possessor; by and large, they refer to what may be obtained or disposed of at will ("alienable possessions," or what Heydorn aptly terms "acquirable property"), or are nouns for which possession is irrelevant (e.g., 'night', 'shark'). Relational nouns, on the other hand, normally require an expressed possessor; by and large, they are "inalienable possessions," or what Heydorn refers to as "natural possessions:" blood relatives and certain social affiliates, body parts and one's name, and locative relationships such as the underside or inside of something. In Vai more than in many other languages, relational nouns may be cited in isolation, as /bó'ó/ 'hand', but they are not used in context without an expressed possessor, except for special uses of a few of them. More formally, the two categories of nouns are distinguished by a difference in their construction with a possessor.

6.2. The possessor of a relational noun is immediately preposed to it, with no additional marker for the possessive construction. E.g.,

wù'úě lá	'the dog's mouth'
kàíě fǎ	'the man's father'

The stem forms of pronouns are used as possessives with relational nouns. The pronoun stems are as follows:

1s:	ń	1pl:	mú
2s:	í	2pl:	wó
3s:	à	3pl:	ànú

Illustrations of these as possessives with relational nouns are:

ŋ kěŋ	'my foot'	mú bâ	'our mother'
í tóó	'your name'	wó kùndíì	'your (pl) hair'
à lá'ò-kù'è	'his (/her) voice, word, orders'	ànú tá	'their possession, theirs'

6.3. The possessor of a free noun is followed by a morpheme /á/ indicating the possessive construction. This is here written as a separate word after a noun possessor; e.g.,

kàíě á kěŋě	'the man's house'
ŋ fá á nìíě	'my father's cow'

The combination of a pronoun with this morpheme /á/ is, however, here written without space. The first person singular pronoun combines with /á/, hardly predictably, as /ná/; the second person singular combination is /yá/. Examples of all pronouns in this construction are:

ná wù'úě	'my dog'	múá kò'áă	'our cloth'
yá ká'lě	'your hoe'	wóá kèèfèě	'your (pl) pepper'
àá sámbàă	'his basket'	ànúá mäsàă	'their table'

6.4. The specific form of nouns, formed with a vowel suffix with low-high tone, is briefly but adequately described in 3.3-4 above. It will be noted that, in the preceding two sections, the specific form has not been used with relational nouns, but that it has regularly been used with free nouns. Although this is not an obligatory pattern, it does reflect certain realities concerning the nature of relational and free nouns. For the most part, relational nouns may be thought of as specific by definition. Specific forms have been recorded in a few cases, in the speech of Jay Foboi; Fr. Kandakai considers the specific forms acceptable, but not at all different in meaning from the non-specific forms which he ordinarily uses.

With possessed free nouns, however, there is a clear distinction in meaning between specific and non-specific forms. The specific form is used unless the reference is to only one or some of the totality of items possessed. For example, either of the phrases /ná tìěě/, /ná tìè/ might be translated as either 'my chicken' or 'my chickens'; number is not at issue. The first phrase, however, using the specific form of the noun, means 'my chicken' only if I own no more than one, or if only one is under consideration; it means 'my chickens' only in reference to

all of the chickens I own. The second phrase, on the other hand, using the stem form of the noun, means 'a chicken of mine' or 'some of my chickens', with the implication that I own others as well.

6.5. As intimated in the foregoing, the concept of singularity as opposed to plurality is not inherent in free nouns by themselves. The same form of the noun, for example, is used with the numeral /lòndó/ 'one' and with all higher numerals. A distinction must be made, however, between personal and non-personal nouns. For non-personal nouns, the stem form has a generic meaning, neither explicitly singular nor plural. The sentence /ná tìè fè'è/, for example, may be translated as either 'I saw a chicken' or 'I saw chickens'; the reference of /tìè/ may perhaps better be reflected by the phrase 'chicken flesh' -- though not in the sense of mass, like 'meat', but rather in the sense of an unspecified number of chickens. There is, nevertheless, a phrase /tìè nú/ which can refer only to more than one chicken. Superficially, it might appear that /nú/ is a plural marker. Its reference, however, is not to bare plurality. The sentence /ná tìè nú fè'è/ rather implies 'I saw chickens here and there, but undoubtedly not all that were in the area.' The reference is to individuated plurality: particular individual chickens, not a flock. A free noun without /nú/ is used with reference to many items, as well as to one item, when individuation is not meant to be expressed.

In the case of personal nouns, on the other hand, the noun by itself (i.e., without a numeral or other modifier specifying singularity or plurality) can have only a singular reference; e.g., /ná mùsú fè'è/ can mean only 'I saw a woman,' not 'I saw women.' If only personal nouns were to be considered, the morpheme /nú/ might with considerable justification be interpreted as a simple plural marker: /ná mùsú nú fè'è/ means 'I saw women,' and nothing more need be said about it. Nevertheless, even for personal nouns the concept of grammatical number cannot be said to be basic. Rather, the semantic feature "personal" in Vai (and apparently generally in West African languages that do not have morphologic pluralization) implies individuality; by contrast, the feature "non-personal," as noted above, implies generic reference. It is only by virtue of its implied individuality that a personal noun by itself has singular reference. With a personal noun, therefore, the

first word in the definition "individuated plurality" for the morpheme /nú/ is redundant, and what remains is mere plurality. Number reference is, therefore, only secondary in the semantic structure of Vai nouns, no matter how real it may be.

This seems to be a convenient point at which to observe that the third person "plural" pronoun /ànú/, cited in 6.2 above, is clearly the third person "singular" pronoun /à/ followed by the individuated plural marker /nú/.

6.6. The category of relational nouns, as defined and illustrated in 6.1-2 above, includes some forms and usages which may be puzzling without further explanation, and some for which an alternative analysis might be proposed (and, indeed has been for somewhat comparable phenomena in other Mande languages, with somewhat more justification in some cases than in others).

Some relatively minor details may be noted first. In all other Mande languages known to me, there are two forms translatable as 'child', one a relational noun referring to one's offspring, and the other a free noun referring to a youngster without reference to his parents. Vai has only one stem, /léŋ/, and it is, surprisingly, in the category of free nouns even when it refers to one's physical progeny; e.g., /ná léŋ/ 'my child'. All other terms for blood relatives are relational nouns. There are also a few other personal relational nouns, such as the following cited with a third person singular possessor:

- à tógbàì        'his fellow-initiate' (a person who completed the tribal initiation ceremonies at the same time as the possessor)
- à líámó        'his friend' (compare the apparently related regular free noun compound /àá líá-mòò/ 'a person who cares about him')
- à bǒ            'his counterpart' (companion in an activity, buddy, pal, opponent in a game such as checkers)

The terms for 'husband' and 'wife', on the other hand, are free nouns, simply the words for 'man' and 'woman'. Thus:

ná kàíě        'my husband'                      ná mùsúě        'my wife'

Most non-personal relational nouns refer to obviously physical rela-

tionships, such as 'foot' or 'surface'. There are, however, some others of which the following are examples:

à bɛ̀'ɛ̀	'honor, respect, or praise due to him'
à pààwà	'his wages, his salary, pay due to him'
mú làndá	'our customs, traditional ways' (involving relatively formal social sanctions; cf. the free noun in /múá tè'è-kí'ì/ 'our customs, actions associated with our daily life,' matters with no ritual significance)

A few stems may be used as either relational or free nouns. In one case there is a semantic extension found in a great many West African languages: /à kpò'ó/ is 'his skin', but as a free noun /kpò'ó/ means 'paper, letter, book' (probably via 'parchment'). The same stem begins a free noun phrase of which the final stem is the head: /kpò'ó jàà'é-kì'á/ 'Hansen's disease' (leprosy, lit. 'red skin disease'; the diagnosis may not always be reliable); it is quite likely that terms for other skin conditions, or for disorders involving other body parts, are somewhat similarly constructed. Other free noun phrases using normally relational nouns include the following:

bò'ó fè'á	'two-handled draw knife' (lit., 'two hands')
kèṅ kúndú	'hedgehog' (lit., 'short legs')

A few other stems with physical reference may be used in either category without comparable semantic shifts. The following illustrations show two words for 'urine'; as free nouns, they are used as the objects of different verbs, both with the general meaning 'do, act upon':

Relational:

à sùsù bè lún-nà	'her breast is causing her pain'
à kéṅgò'ò fíndà	'his urine is dark-colored'
à sé'í fíndà	"

Free:

léndò'lě̀ bè sùsù mì-náà	'the baby is nursing'
à bè kéṅgò'ò má-nà	'he is urinating'
à bè sé'í ké-nà	"

One recorded stem with a non-physical reference may similarly be used in either category. The stem is /kíní/, which may be defined as

'pitiableness, occasion for sympathy'. As the object of a somewhat formal and archaic verb meaning 'see, look upon', it is used as a relational noun in expressions like the following:

mú kìní jè 'have pity on us'

A closely parallel expression uses /kìní/ as a free noun; in this case, the implication appears to be that the speaker is acting as the formal spokesman for a group, as in public prayer. This and another usage as a free noun are illustrated in the following:

múá kìníě jè 'have pity on us'  
àá kìní bè ndà 'I feel sorry for him' (approximately 'his pitiableness is on me')

The relational noun stem /tǎ/ refers to one's possession, what properly belongs to one. It may be used by itself, or with a free noun following, in which case it refers to one's 'own'. Another relational noun with a somewhat similar meaning is /jǎ/. This, however, is used only with another noun; it refers to what pertains to the possessor by virtue of his birth or "native" association. These are illustrated in the following:

ǎ fǎ tá mù 'it is my father's'  
ǎ tá kpò'óě mè 'this is my own book'  
ǎ jǎ láà 'my home, my home town'  
ǎ jǎ wò'ò 'my native language'

6.7. A number of relational nouns refer, or may in some of their uses refer, to locative relationships. A few, which can hardly be assigned to a different grammatical class, indicate other relationships which are expressed in English by prepositions. Many of these are most commonly used (after their obligatory possessor) at the end of a clause, and function as adverbial complements. A few are used only in this way. To introduce the problem (which is to some extent illusory) presented by these forms and their usages, consider the stem /mà/, which basically refers to the 'top surface' of something, in the following:

kà'áǎ bè sěǎ mà 'the snake is on the rock' (lit.,  
'the snake is-at the rock's surface')

The frequent use of some stems, and the exclusive use of a few, in

this construction, along with the fact that English prepositions are typically used to translate them, has given rise to the notion, widespread among students of other Mande languages which show somewhat similar patterns, that these constitute a separate morphologic class which may be labelled "postpositions." Such a class (but probably much smaller than supposed) may perhaps be validly posited in some languages. Too often, however, the concept seems to be used as a facile way of explaining some of the facts in the comfortable English-oriented shadow of "prepositions," while more basic aspects of the structure are quietly ignored or perhaps considered aberrant. For Vai, a survey of the morphemes in question, and their usages, will show that the concept of "postpositions" is awkward if not downright deceptive.

Among the likely candidates for a category of "postpositions," in addition to /mà/ as illustrated above, are the morphemes /fè/ 'area alongside of', /té/ 'area between or among', and /'ò/ 'inside'. The last of these, indeed, one might be tempted to call a suffix, since it is commonly pronounced without a phonetic initial consonant. Examples of these in adverbial complements are as follows:

sò à fè	'go along with him, follow him'
à bè sósókò-nà mšě nú tè	'he's pushing through the crowd'
à bè kéŋě 'ò	'he's in the house'

Any of these stems may also, however, be used as the subject or object of a verb, and therefore clearly function as nouns; the following are illustrative:

sěŋě mà kpàndí'à	'the surface of the rock is hot'
à bè à mà jì'à-náà	'he is displaying it for sale' (lit., 'he is showing its surface')
à bè jí fè má-nà	'he is fishing' (lit., 'he is acting-on the side/edge of water')
mú'à à t'é t'é	'we split it, we cut it in half'
lǎǎ 'ò nóó'à	'the inside of the pot is dirty'
à 'ò fá'àndà	'it changed'
ànú'à à 'ò fà'àŋ	'they changed it'

(The verb stem /<sup>R</sup>fá'àŋ/ in the last two of these examples is attested only with /'ò/ 'inside' as subject or object; it is the combination

that means 'change'.)

There are, however, other forms which are used only in adverbial complements, never (at least in the available data) as subject or object. Of the four known relevant forms, two have a locative reference. Of these, /bà'á/ refers to 'inherent location'; as is true generally in Niger-Congo languages, one cannot go to a person, but only to where he is. The same word is used after a verb meaning 'speak'. (Another relational noun, /tì-nà/, appears to refer to 'location' in a more temporary sense and, though not so recorded, can undoubtedly be used as the object and perhaps subject of a verb.) A second form, /mái/, seems to refer basically to 'overall surface', but is also used with reference to the area beside or near the possessor. Of the two forms with non-locative reference, one is /'à/, which expresses the 'association' or 'involvement' of the possessor with a situation or action. Finally, /yè/ has an applicative force, generally reflected by translations with 'to' or 'for'. These forms appear finally in the following:

ànú táá'á mànjàǎ bà'á	'they went to the chief'
à gú'ù'á à bà'á	'he ran toward it'
ànú kóáí'á mànjàǎ bà'á	'they spoke to the chief'
à'á tú'ú mà ŋ mái	'he rubbed oil on me'
kàsé bè à mái	'it's rusty' (i.e., rust is on it)
sò ŋ mái	'stand beside me'
jì'ì-fêŋ bè à 'á	'he has a boil'
à'á kò'ò sò ké 'á	'he stopped work'
í ì tiè kpààtóó 'á	'cut it with a cutlass'
à bè ná-nà kò'ó 'á	'he's bringing (coming with) rice'
à'á tòònyáà fò í yè	'he told you the truth'
à bè sò ké-nà mú yè	'he's working for us'

Even these forms, which do not have obvious nominal uses as subject or object of a verb, hardly justify positing a class of "postpositions". The fact that they are indeed "postposed" to a noun or pronoun is especially irrelevant; the same is true, after all, of /fǎ/ 'father' and all other relational nouns. It would seem entirely legitimate, in the light of the Vai usages, to refer to all of the forms that have been cited as relational nouns, and then to observe that many of them may be used in an adverbial complement construction, and a few only in that

construction.

It must be admitted, however, that the adverbial complement construction has something of a special status. In addition to the fact that a few forms appear only in this construction, there is one relational noun which has a special tonal alternant when so used. The stem /bó'ó/ 'hand, arm' has high tones in its more obvious nominal usages. It has low tones, /bò'ò/, however, when used in an adverbial complement in the common expression for personal possession, the thing possessed being in or at one's hand. (That the same stem is being used is obvious from numerous other Mande languages.) E.g.,

ń bó'ó bè ń lún-nà	'my hand hurts (me)'
kápà náánì bè ń bò'ò	'I have four cents'

In recognition of the restriction of a few forms to the adverbial complement construction, they may be given the special label "relational particles." It remains crucially important to recognize, however, that many other forms frequently used in this construction, in spite of their semantic similarity to English prepositions, are full-fledged nouns with obvious nominal usages.

6.8. Several forms are probably best analyzed as compound relational nouns rather than as sequences of independent relational nouns. Most of these have /'ò/ or /'à/ as their final element, but even with /'ò/ the specific meaning 'inside' cannot always be recognized. The final morpheme is /mà/ in one recorded case. In the following, the derivations are obvious:

à já	'his eye, his eyes'
à já'á	'his face, the area in front of him'
à já'ò	'the front surface of it'
à kpáà	'his buttocks'
à kpáà'ò	'the area behind or on the other side of it'
à kǔń	'his head'
à kùmà	'the top of it'

In two recorded cases, the uncompounded stems used initially in such compounds are not attested in Vai, but are known from other compounds or from cognates in other northern Mande languages. These are:

- à wá'á'ò 'his side' (cf.: à wá'á-kù'ù 'his ribs')  
 à kó'ò 'his back, the area behind him, the area under it'

The latter of these, like /à kpáà'ò/ cited above, may refer to the area behind something like a house. Where a contrast is possible, however, it is as illustrated in the following:

- kà'áǎ bè sěŋě kó'ò 'the snake is under the rock'  
 kà'áǎ bè sěŋě kpáà'ò 'the snake is behind the rock'

The form /kó'ò/ is also used as an adverb, without a possessor, in one recorded expression:

- à tó'á kó'ò 'he drowned' (lit., 'he stayed under')

A stem /bú/, probably originally a relational noun meaning 'abdomen, stomach', is used as a free noun meaning 'pregnancy', and as a relational noun meaning 'width'. The reference 'abdomen, stomach' is expressed by a compound with /'ò/. The second and the last two of the following examples show homophonous sequences that are grammatically different, as reflected by word division in one case but not in the others:

- à'á bú bì 'she became pregnant' (lit., 'she picked up pregnancy')  
 à bè bú 'ò 'she is pregnant' (lit., 'she is in pregnancy')  
 kí'áǎ bú kò'ò 'the road is wide'  
 kí'áǎ bú lò'ò 'the road is narrow'  
 tò'ò n'ò'ò bè à bú'ò 'he has worms'  
 ŋ bú'ò bè tó'l-nà 'I have stomach cramps' (lit., 'my stomach is twisting')

Other compound bases, explicitly marked as such by tonal alternations, are treated in 7 below.

6.9. A morpheme /wá/ (homophonous with /wá/ introducing quotations; cf. 5.3 above) is interpreted as a relational noun, with three somewhat similar but distinct usages. First, this /wá/ is used with singular pronouns to form nominals, corresponding to "independent pronouns" in many languages; the combination with the first person is /ŋgá/. Thus:

ńgá mù	'it's me'
í wá mù	'it's you'
à wá mù	'it's him'

The plural pronoun stems are attested before /wá/ in some usages, but before the identifier /mù/, as in the above, special forms are constructed with /ànú/ after the pronoun stem. Thus:

múànú wá mù	'it's us'
wóànú wá mù	'it's you'
ànúànú wá mù	'it's them'

Second, the same /wá/ is very commonly used after a noun to express emphasis, rather like English 'himself, herself, itself.' Actually, it was sentences like the following that were the first responses when an effort was made to elicit a construction of topicalization:

ń fǎ wá ná' à	'my father himself came'
jǒ wá 'à à mà	'who did it?'
ná mànjáǎ fǎ wá fè' è	'I saw the chief's father himself'

The last of these was first given as an equivalent of 'it was the chief's father that I saw.' In affirmative sentences, however, there is another construction of topicalization which parallels constructions in many other languages; it will be discussed more fully at a later point, but is illustrated here for purposes of comparison:

mànjáǎ fǎ mù ná à fè' è	'it was the chief's father I saw'
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In this sentence, the object pronoun /à/ recapitulates the fronted object /mànjáǎ fǎ/ 'the chief's father'. /mù/ indicates identification, 'it is'.

Third, this /wá/ is used before a form /ngǎ/, which appears to be another relational noun, to express '-self' in both intensive and reflexive uses. In reflexive phrases, a pronoun possessor is (naturally) obligatory. In intensive phrases used as subject, /wá/ appears again after /ngǎ/. The recorded usages are illustrated by the following:

à wá ngǎ wá ná' à	'he himself came'
ńgá ngǎ wá 'à ànú fè' è	'I myself saw them'
ń fǎ wá ngǎ wá ná' à	'my father himself came'
ànú' à ànú wá ngǎ fè' è	'they saw themselves'

ná ḡḡá ḡḡǎ fè'è	'I saw myself'
mùsúě 'à à wá ḡḡǎ fè'è	'the woman saw herself'

An alternative for the above intensive and reflexive phrases uses another relational noun, /bé'èě/ (apparently with the specific suffix). When used as a subject, this also requires /wá/ after it. Equivalents of the above examples are:

à bé'èě wá ná'à	'he himself came'
ḡ bé'èě wá 'à ànú fè'è	'I myself saw them'
ḡ fǎ bé'èě wá ná'à	'my father himself came'
ànú'à ànú bé'èě fè'è	'they saw themselves'
ná ḡ bé'èě fè'è	'I saw myself'
mùsúě 'à à bé'èě fè'è	'the woman saw herself'

What appears to be an even more emphatic intensive is illustrated in the following:

ḡ bé'èě ḡ búù wá ná'à	'I, myself, came' (lit., 'myself my body itself came')
-----------------------	--

6.10. The foregoing has established two categories of nouns, free and relational, and in particular has shown that many forms whose grammatical classification is not transparent on the basis of superficial semantic features are actually relational nouns. There remain, however, a very few morphemes which are more difficult to categorize. Perhaps they are not nouns at all, but they share some of the characteristics of nouns, and it does not seem possible at present to fit them conveniently into any other class, nor entirely justifiable to posit one or more separate classes to accommodate them.

Two of these seem to have something of a demonstrative significance, apparently referring to something previously mentioned or something that is obvious, perhaps because it is being touched or held. One of these, /kě/ (/kè/ before high tone), is used both with and without a preceding noun or pronoun. The other, /bhì'í/, is used only with a preceding noun or pronoun, as if it were a relational noun. Usages like the following have been recorded:

à kè wá bè ḡ bò'ò	'it's what I have' (referring to an amount of money previously quoted)
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kè tɔŋ sé'èŋ néí	'this one is thirty cents'
mbè kè ká'à sé'èŋ néí	'I'll sell this one for thirty cents'
mǒ bhì'í mù	'it's the person' (e.g., that you were looking for)
féŋ bhì'í mè	'this is the thing' (similarly)
à bhì'í kángó'ò, ...	'after this, ..., afterwards, ...'

These are not, however, the ordinary demonstratives, which are /mèé/ 'this' and /mènúú/ 'that'. The demonstratives are not used after pronouns. On the other hand, /kě/ is attested with a demonstrative after it, in the phrase /à kě mèé/ 'this one'. Yet, with a formation like that of the remote demonstrative, there is also a form /kènúú/ 'that one, the other one'. Unlike most other categories and usages in Vai, these are not paralleled in other languages familiar to me. They may be very common, but their usages are such that they cannot readily be elicited; they can only be observed through a much longer period of exposure to the language.

Finally, an unclassified morpheme /pé'é/, meaning 'also' or 'in turn', is used after nouns or pronoun stems. If it were used only after nominals (including phrases like /à wá/ as described in 6.9 above), it could probably be classified as an adverb; its use after the stem forms of pronouns suggests including it here. Examples are:

kò'ó pé'é sàŋ	'buy rice too'
ŋ pé'é ŋ kò	'give me (some) too'
í pé'é, yá mbê wá mà	'and you, what did you do?'

## CHAPTER 7

# NOUN BASES

7.1. Most of the nouns cited up to this point have had bases consisting of a single stem; some compound nouns have been included, but have not been systematically described. A great many nouns, however, both free and relational, have bases consisting of more than one stem. There are several types of such composite noun bases; by all odds the most common of them -- more than 130 have been recorded -- may be termed "regular compounds."

Most regular compounds consist of two stems. The first member may be a free noun, a relational noun, or a verb. The second member is in almost all cases a free noun or a relational noun, though one stem classified as an adjective is attested in this usage. Regular compounds are formed by a special tone rule, and are written with a hyphen between the two members. It cannot be too strongly emphasized that this use of hyphenation is intended specifically to signal the application of this tone rule. In a practical orthography, hyphenation should be used systematically; decisions as to where to use a hyphen should not be made independently for every combination where a hyphen might be suggested. Above all, the use of hyphens should under no circumstances be determined by the structure of the English equivalents of the forms in question (a practice which has actually been followed in some African languages!). Hyphenation can be most systematically used if it is used only where certain tonal alternations appear. These alternations appear only in "regular compounds" (including a verb stem with a suffix, which is actually nominal). If the tones of the first member of such a compound are high, high-low, low, or miscellaneous (cf. 3.6 above), those tones are unchanged, but the tones of the second member are all low, no matter what tones the stem has independently. If the tones of the first member are independently low-high, they become low throughout, and the tones of the second member are high-low. Examples

of regular compounds with their derivations are:

jí-sòò	'water hole, well': /jí/ 'water', /sóó/ 'hole'
wúnú-kòṅ	'pestle': /wúnú/ 'mortar', /kòṅ/ 'stick'
káṅ-jù'ù	'necklace': /káṅ/ (rel) 'neck', /jù'ù/ 'rope'
lúṅ-féṅ	'sore': / <sup>R</sup> lúṅ/ 'hurt', /féṅ/ 'thing'
bó'ó-lò'ì	(rel) 'finger': /bó'ó/ (rel) 'hand, arm', /ló'ì/ 'young, undeveloped'
kávù-jàndà	'kávù thatch': /kávù/ 'rattan (or similar plant, sp), /jàndà/ '(piassava) thatch'
zìì-mànjà	'clan chief': /zìì/ 'tribe, clan', /mànjà/ 'chief'
bí'à-kàì	(rel) 'father- or brother-in-law (of a man)': /bí'à/ (rel) 'in-law (of a man), /kàì/ 'man'
bâ-lèṅ	(rel) 'maternal aunt': /bâ/ (rel) 'mother', /léṅ/ (rel) 'child'
sá'à-jà'à	'long fish net': / <sup>R</sup> sá'à/ 'pull, drag', /jà'à/ 'hammock'
bàṅ-kpè	'piassava palm wine': /bàṅ/ 'piassava palm', /kpè/ 'alcoholic beverage'
bò'ò-kùù	'garden': /bò'ò/ 'cultivated greens', /kùù/ 'fenced enclosure near one's house'
màà-wù'ù	'angry or suspicious dog': /màà/ 'anger', /wù'ù/ 'dog'
fè-mòò	(rel) 'follower': /fè/ (rel) 'area beside', /mò/ 'person'
gòíwà-kòṅ	'guava tree': /gòíwà/ 'guava', /kòṅ/ 'tree'
gùmàtètètè-jù'ù	'gùmàtètètè vine': /gùmàtètètè/ 'fruit (sp)', /jù'ù/ 'vine'
jàmbà-mòò	'herbalist': /jàmbà/ 'leaf', /mò/ 'person'
kòṅ-kpôṅ	'wooden bowl': /kòṅ/ 'tree', /kpôṅ/ 'bowl'
kòṅ-kàì	'wood carver; master drummer': /kòṅ/ 'tree, wood, stick', /kàì/ 'man'
lìfì-kêṅ	'jail': /lìfì/ 'night', /kêṅ/ 'house'
kùṅ-kpàsà	'head cloth': /kùṅ/ (rel) 'head', /kpàsà/ 'ker- chief'
nòò-kó'ò	(rel) 'point of the elbow': /nòò/ (rel) 'bend of the elbow', /kó'ò/ (rel) 'area behind'

- kì'ì-kó'à 'wrapper (cloth tied around waist as skirt)':  
/ʳkì'í/ 'tie', /kò'á/ 'cloth'
- jì'ì-fêŋ 'boil, abscess': /ʳjì'í/ 'swell up', /féŋ/ 'thing'

A very few bases (no more than five instances are recorded) are most conveniently included here in spite of the fact that they are apparently irregular in tone. The tones have been carefully checked, and are recognized as irregular with no explanation. These are:

- kpàndí-lèè'à 'small house lizard': /kpàndí/ 'heat' (?), /lèè'á/  
'lizard' (the expected tones are low-low with the first member, and high with the first vowel of the second member)
- kùndò-kí'ì 'thinking': /kùndò/ 'in the head' (a compound of /kũŋ/ and /'ò/), /kí'í/ 'manner' (?) (low-low is expected in the second member; cf. /kùndò-bò'ò/ 'cap': /bò'ó/ 'bag')
- tì-nà (rel) 'place where one is': /ʳtĩ/ 'be at', /na/  
(bound morpheme or suffix indicating place, inherent tone unknown; cf. /sìì-nāā/ 'a place to sit': /ʳsìí/ 'sit') (high-low with double vowel is expected with the second member)
- tì-mòò (rel) 'owner': /ʳtĩ/ 'be at' (as above ?), /mǒ/  
'person' (high-low is expected with the second member)
- sò-fêŋ - só-fèŋ 'domestic livestock; buildings (a new usage)':  
/ʳsó/ 'stand, build, raise (livestock)', /féŋ/  
'thing' (the two forms are given as alternants, both commonly used; only the second, which is regular, uses the stem form of the verb)

One other recorded form may appear to be irregular, but is not: /fì'àndéŋ-jì/ 'converging streams': /fì'àndéŋ/ 'twins', /jí/ 'water'. In this case, the first member is itself a composite base, of a type described in 7.4 below; it ends with the stem /léŋ/ 'child', which retains its stem tone.

A sub-type of regular compounds consists of those whose bases include three stems. In many of these, the first member is a free or re-

lational noun followed by the relational noun /'ò/ 'inside'. Since this is not phonologically a separate word in any case, and is not written with a hyphen before it, such forms constitute only a minor addition to the above. Examples are:

- fí'á'ò-sùè 'wild animal': /fí'á/ 'unused land, the bush',  
/sùé/ 'animal'
- kú'ú'ò-tù'ù (rel) 'bone marrow': /kú'ú/ (rel) 'bone', /tú'ú/  
'oil'
- lá'ò-kù'è (rel) 'voice, words': /lá/ (rel) 'mouth', /kù'è/  
(rel) 'sound, voice'

There are probably a great many more regular compounds whose bases consist of three stems than those noted here (which must be carefully distinguished from the composite noun bases described in the following section). In the following, the tone rule for compounds applies to both the second and the third members. The few recorded examples are:

- tò-kí'à-fè 'gift to one's host when he accompanies a guest part  
way home': /<sup>R</sup>tǒ/ 'stay, leave (behind)', /kí'à/  
'path, road', /fè/ 'area beside'
- màì-lú'ù-wò'ò 'boasting': /màí/ 'insulting speech or actions',  
/lù'ù-wó'ò/ 'language' (the final member is not  
attested for its independent tones, but compara-  
tive evidence suggests /wó'ó/)
- sìì-lú'ù-wò'ò 'boasting (based on status)': /<sup>R</sup>sìí/ 'sit' (thus  
'be rich'), /lù'ù-wó'ò/ 'language' (as above)
- jàó-lù'ù-wò'ò 'complaining': /<sup>R</sup>jàó/ 'become spoiled', /lù'ù-wó'ò/  
'language' (as above)

7.2. A number of nominalizations of object plus verb have been recorded, and the formation is productive; as noted below, two nominalizations of subject plus verb, perhaps non-productive, have been recorded. In nominalizations of object plus verb, the stem tones of the verb are unchanged if they are independently high or high-low; a verb whose stem tones are low-high, however, has an alternant with high-high in this construction. Both the tonal behavior and the grammatical relationships in these composite bases suggest that it is preferable to write the object and verb as separate words. Some examples are:

máá ké	'training': /máá/ (rel) 'training, upbringing', /ʳké/ 'do'
sò ké	'work, working': /sò/ 'work, labor, job', /ʳké/ 'do'
kò'á léè	'weaving': /kò'á/ 'cloth', /ʳléè/ 'weave'
kòŋ tíé	'cutting down trees': /kòŋ/ 'tree', /ʳtíé/ 'cut'
lá'ò kí'í	'stuttering': /lá'ò/ (rel) 'inside of the mouth', /ʳkí'í/ 'tie'
nyòò béŋ	'a meeting': /nyòò/ 'the other one, one another', /ʳbéŋ/ 'meet, assemble'
bè'è síí	'honor': /bè'è/ (rel) 'honor, respect (due to one)', /ʳsíí/ 'sit, set'
té'é bí'á	'umbrella': /té'é/ 'sun', /ʳbí'á/ 'catch'

An object-verb nominalization, in which the object is itself a compound, may be used in sentences like the following; the productivity of the formation should be evident from the fact that the probably unprecedented sentence (constructed on the eleventh day of work, before remembering to learn to say 'yes' and 'no') was accepted without question, and its intended meaning fully understood:

mǒ á lù'ù-wó'ò'ò ká'á ì ŋ fà'á sà 'I enjoy analyzing languages' (lit., 'studying the inside of people's languages makes my liver lie down': /mǒ á lù'ù-wó'ò'ò/ 'person's language-inside', /ʳká'á/ 'learn, study', /ì/ (verbal construction marker), /ŋ fà'á/ 'my liver', /ʳsá/ 'lie down, lay down')

The two recorded nominalizations of subject plus verb, both with the same subject, can only suggest that, in addition to the verb stem having high tones, the subject noun may have low tones irrespective of its stem tones:

tè'è bó	'sunrise': /té'é/ 'sun, /ʳbó/ 'come out'
tè'è jí'í	'sunset': /té'é/ 'sun, /ʳjí'í/ 'go down'

7.3. An object-verb nominalization like those described above may be used as the first member of a compound, of which the second member is the head noun, though not necessarily the logical subject of the verb preceding it. The object-verb nominalization retains its independent tones (and is written without hyphenation), but the compound for-

mation with the final noun is regular, as defined in 7.1 above, and therefore written with hyphenation. About thirty-five bases of this type have been recorded, over half of which are agentives with the noun /mǔ/ 'person'. The formation is productive, and undoubtedly countless more combinations are used or could be invented. Some examples are:

- bú'ò bó-bò'ì 'laxative': /bú'ò/ (rel) 'abdomen, stomach, /<sup>R</sup>bó/ 'go out, remove', /bó'í/ 'medicine'
- féŋ lóŋ-bò'ò (rel) 'right hand': /féŋ/ 'thing', /<sup>R</sup>lóŋ/ 'eat', /bó'ó/ (rel) 'hand, arm'
- fí'á lóŋ-mòò 'hunter': /fí'á/ 'unused land, the bush', /<sup>R</sup>lóŋ/ 'enter', /mǔ/ 'person'
- kǎǎ ké-mòò 'thief': /kǎǎ/ 'stealing', /<sup>R</sup>ké/ 'do', /mǔ/ 'person'
- sènè ké-mòò 'farmer': /sènè/ 'farm' (and as above)
- kà'à ké-kèŋ 'school building': /kà'à/ 'learning, education', /<sup>R</sup>ké/ 'do', /kéŋ/ 'house, building'
- kò'à léè-fèŋ 'loom': /kò'à/ 'cloth', /<sup>R</sup>léè/ 'weave', /féŋ/ 'thing'
- kó tíé-bǎǎ 'courthouse': /kó/ 'matter, case', /<sup>R</sup>tíé/ 'cut, decide', /bǎǎ/ 'unwalled shelter'
- jí fè má-kòndè 'fishing bird': /jí fè/ 'water's edge', /<sup>R</sup>má/ 'action', /kòndé/ 'bird'

One form in this category shows irregular tones in the initial noun:

- jè'è lóŋ-mòò 'town crier': /jé'é/ 'shouting', /<sup>R</sup>lóŋ/ 'enter', /mǔ/ 'person'

7.4. A few nouns are clearly derived from two stems, but the stems are joined in such a way that it is impossible to recognize a boundary that can be indicated by space or a hyphen. A still smaller number of nouns that could be interpreted as two-word phrases are included here by analogy. All of these include an intervocalic nasal-oral sequence, voiced throughout, which is indistinguishable from such sequences within a stem (cf. 1.5). Most of these are derived from phrases consisting of a free noun plus a relational noun. One, however, is apparently derived from an unidentified stem which must be a free noun, plus an adjective. Two others could be interpreted as regular compounds, and one follows the rules for regular compounds except that the second member

is a verb, which is not typical of regular compounds.

Three of these have a derivative of /kó'ò/ (rel) 'back, area behind, area under' as their second member, with its initial consonant voiced:

káŋgó'ò	(rel) 'throat': /káŋ/ (rel) 'neck'
kèŋgó'ò	(rel) 'sole of the foot': /kěŋ/ (rel) 'foot'
kéŋgó'ò	'urine': /kéŋ/ 'house' (reflecting a common practice); cf. /kéŋě kó'ò/ 'behind the house')

Three more of these add (or appear to add; the derivations are not clear in every case) a nasal before the second member, which is /léŋ/ 'child' in each one:

kà'àndéŋ	'student': /kà'à/ 'learning, education'
fì'àndéŋ	'twins': (the first member is thought to be related to /fè'á/ 'two', in spite of the difference in the first vowel)
kpi'àndéŋ	'boy-friend, girl-friend': (the first member is not identifiable)

One somewhat similar noun may be a unitary stem, but it is also possible that it is derived from an unidentified noun /féŋ/ or /fé/ plus an adjective stem /kpé/ 'white', the initial consonant of which is voiced:

féŋgbé	'white shirting, broadcloth'
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Three similar forms follow the rule for regular compounds, and might be so written except that, in compounds, nasal-oral sequences at the hyphen-marked boundary do not seem to be so consistently identical with stem-medial sequences; otherwise, the first of these could even be an ordinary phrase consisting of noun plus adjective:

kòndó'ì	'sapling': /kǒŋ/ 'tree', /ló'ì/ 'young, undeveloped'
léndò'ì	'baby': /léŋ/ 'child', /ló'ì/ (as above)
kùndûŋ	'headache': /kũŋ/ (rel) 'head', / <sup>R</sup> lúŋ/ 'hurt'

Finally, two more forms are included here because of the same nasal-oral sequences; the first of these clearly is, and the second undoubtedly was at one time, free noun plus relational noun. These are:

kéndá'à	'doorway': /kéŋ/ 'house', /lá/ (rel) 'mouth, opening, entrance', /-à/ (rel, association)
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kùndíì (rel) 'hair': /kũŋ/ (rel) 'head'; the second member is not used independently, but undoubtedly once referred to hair other than on the head; at present, even body hair or animal hair is called /kùndíì/

7.5. In another small group of nouns whose bases consist of two stems, the second member has high tones (compare the rule for regular compounds, 7.1 above). Somewhat arbitrarily, these few forms are written without space or hyphen. In two cases there are medial nasal-oral sequences which cannot conveniently be divided. In one case, on the other hand, this convention results in a word-medial (but not stem-medial) /l/, which is written as such and cannot be elided; in another case, a medial /ŋk/ appears, which is impossible within a stem. The recorded cases are:

- kèndó'í (rel) 'toe': /kěŋ/ (rel) 'foot', /ló'ì/ 'young, undeveloped' (compare the regular compound /bó'ólò'ì/ 'finger'; strangely, the formations are distinctly different)
- kùŋgbéŋgbé 'month of misty rain' (about June?): /kũŋ/ (rel) 'head', /kpé/ 'white' (voiced initially and reduplicated; beads of misty rain on the hair give a whitish appearance)
- bééléŋ (rel) 'nephew, niece': /béè/ (rel) 'maternal uncle', /léŋ/ 'child' (but the phrase /ŋ béè léŋ/ 'my cousin (maternal uncle's child)' is a different formation)
- kàmàkpó'ó 'kind of medicinal bark (thick like elephant hide)': /kàmá/ 'elephant', /kpò'ó/ (rel) 'skin' (compare the regular compound /kàmà-kpò'ó/ 'elephant hide' and the phrase /kàmá kpò'ó/ 'an elephant's hide (of a live elephant)')
- fàndèkpó'ó 'skein of yarn': /fàndé/ 'cotton, thread', /kpò'ó/ (rel) 'skin', (free) 'paper' (there is apparently no question of a confusion between English 'skein' and 'skin')
- wòòjù'ú 'vine (sp)': /wòò/ (unidentified), /jù'ú/ 'vine' (several other compounds with /jù'ú/ are regular)

fàndèkón	'cotton plant; spool': /fàndé/ 'cotton', /kón/ 'tree, plant, wood, stick'
sòjón	'donkey': /sò/ 'horse', /jón/ 'slave' (?)
kpònké	'gray monkey': /kpò/ 'monkey', second member unidentified
kó'íkpe	'serval (or other species similar to leopard)': /kó'í/ 'leopard', second member unidentified

7.6. About thirty nouns with fully reduplicated stems have been recorded; in no case does the unreduplicated stem occur by itself. In most cases, the tones as well as the consonants and vowels of the two parts are identical; six, however, have the tones of regular compounds (7.1 above), and two have high tones with the second part (7.5 above). In one case, a word-medial /l/ (for some speakers [d]), which cannot be elided, must be written. There is some suggestion of a semantic feature associated with reduplication; several of these nouns, though not all of them, refer directly or indirectly to numerous items, or to repeated actions or motions. Some examples are:

bónìbónì	'gnats'	gbèngbèng	'bass drum'
sóisóì	'mosquitos'	kpókpo	'hammer'
gǒǒgǒǒ	'crow'	gàngàng	'sting ray'
híhíhí	'owl'	lèélèé	'fish (sp)'
nyòìnyòì	'measles'	gbǒngbǒng	'okra'
síkòsíkò	'hiccoughing'	fóófóó	'container, load'
wááwáá	'whispering'	mèèmèè	'mirror, glass'

There are also a few reduplicated forms in which the initial voiceless consonant of the first part is reflected in the second part by a voiced nasal-oral sequence; e.g.,

kpèngbé	'bed'	kpéngbé	'frog'
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7.7. Finally, in Vai as probably in languages in general, there are a number of phrases which, while they do not present any special grammatical problem, may deserve mention as constituting lexical units. Phrases of this type are often classified as "idiomatic." A few examples are:

pàá kènà	'spider, "old man spider"' (/kènà/ alone is also
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'spider'; /pàá/ does not occur alone; cf. English  
"daddy long-legs")

pàá nyèngèsè	'praying mantis'
kpò'ò léŋ	'letter': /kpò'ó/ 'paper', /léŋ/ 'child'
kpò'ò bâ	'envelope': /kpò'ó/ 'paper', /bâ/ (rel) 'mother'
kèŋ kúndú	'groundhog' (?) (lit., 'short legs')
sŋ kpé	'putty-nose monkey' (lit., 'white nose')

## CHAPTER 8

# FREE NOUN PHRASES

8.1. In the course of defining free nouns as a category distinct from relational nouns (6.1-5 above), it was necessary or at least convenient to include descriptions of possessive constructions, a "specific" suffix, and phrases indicating individuated plurality. Other free noun modifiers, in the order in which they occur after the noun, are qualificative attributives, numerals, and demonstratives.

About half of the recorded qualificative attributives are unitary stems. Examples of nouns plus such attributives are:

sámà ná má	'a new basket'	kàl kúndú	'a short man'
kpò'ò kó'ó	'an old book'	kǒŋ lèkpè	'a flexible stick'
sùè kú'à	'raw meat'	kéŋ bà	'a large house'
kò'à tá'á	'torn cloth'	kàí nyámá	'a tall man'
fí'á ló'ì	'young bush'	kí'à nyámá	'a bad road'

Reduplication or optional reduplication is attested in a few cases:

kí'à kpúsákpúsá	'a bumpy road'
gbéngbé'é jèè(jèè)	'a rough plank'

Most other qualificative attributives are derived from verb stems by a suffix /-'é/. In these forms, stems whose lexical tones are low-high have the alternant tones low-low; stems whose lexical tones are high-low generally have the alternant tones high-high, but a possible regular exception is recorded in the case of a monosyllabic stem with final /ŋ/, and there are two exceptions in stems of presumed non-Vai origin. Examples are:

mǒ sǐì'é	'a rich person': / <sup>R</sup> sǐí/ 'sit' (a rich person does not have to work, but can just sit down)
jí kímá'é	'cold water': / <sup>R</sup> kímà/ 'be cold'
kò'à nóó'é	'dirty cloth': / <sup>R</sup> nóó/ 'be dirty'

bó'í kóná'é	'bitter medicine':	/ <sup>R</sup> kónà/	'be bitter'
lùmbó'ò ló'á'é	'a sour orange':	/ <sup>R</sup> ló'à/	'be sour'
kàí tòò'é	'a fat man':	/ <sup>R</sup> tòó/	'be fat'
kòndó kpèè'é	'hard wood':	/ <sup>R</sup> kpèé/	'be hard' (of 'inside')
kòṅ tândé	'a straight stick':	/ <sup>R</sup> tâṅ/	'be straight'
kò'à zénè'é	'clean cloth':	/ <sup>R</sup> zénè/	'be clean'
kò'à dhógbò'é	'wet cloth':	/ <sup>R</sup> dhógbò/	'get wet'

In two recorded cases, attributives are clearly related to verbs, and end in /má/, but no regular rule can be stated for the formation in other respects:

kò'à kpéémá	'white cloth':	/ <sup>R</sup> kpé/	'be white, light colored'
kò'á fìimá	'black cloth':	/ <sup>R</sup> fíṅ/	'be black, dark colored'

In a few other cases, attributives are formed with the suffix /-é/ as above, but what precedes is more than a mere verb stem; the full significance of the derivation is unclear. Examples are:

kí'à bú kò'òyáà'é	'a wide road'; cf. /kí'áǎ bú kò'ò/ 'the road is wide':	/ <sup>R</sup> kò'ó/	'be large'
kí'à bú lòòyáà'é	'a narrow road': cf. /kí'áǎ bú lòò/ 'the road is narrow':	/ <sup>R</sup> lòó/	'be small' (/kí'áǎ bú/ 'the road's width')

Little effort was made to elicit sequences of two or more attributives after a noun.<sup>14</sup> Such sequences are not commonly used, but the following were recorded as samples:

wù'ú fìimá kè'émá	'a large black dog'
wù'ú kè'émá fìimá	"
wù'ù-bà kè'émá	'a huge dog'
cf.: wù'ú fìimá	'a black dog'
wù'ú kè'émá	'a large dog'
wù'ù-bà	"

8.2. The numeral forms used in counting and as noun modifiers are identical. After counting through five, a special form for 'five' is used, and the forms for 'one' through 'four' are added to it to express 'six' through 'nine'. There is then a new unit for 'ten':

lòndó	'one'	sôŋ lòndó	'six'
fè'á	'two'	sôŋ fè'á	'seven'
sàkpá	'three'	sôŋ sàkpá	'eight'
náánì	'four'	sôŋ náánì	'nine'
sóó'ú	'five'	tâŋ	'ten'

The above forms for 'one' through 'nine' are added directly to /tâŋ/ 'ten' to express 'eleven' through 'nineteen':

tâŋ lòndó	'eleven'	tâŋ sôŋ lòndó	'sixteen'
tâŋ fè'á	'twelve'	tâŋ sôŋ fè'á	'seventeen'
tâŋ sàkpá	'thirteen'	tâŋ sôŋ sàkpá	'eighteen'
tâŋ náánì	'fourteen'	tâŋ sôŋ náánì	'nineteen'
tâŋ sóó'ú	'fifteen'		

The expression for 'twenty' is /mò bándé/, literally 'an entire person', presumably (though by no means in any naive, "primitive" way) referring to the total number of fingers and toes. The lower numerals are then added to this phrase after a form /àkó/ (here written as one word, though almost surely originally from /à kó/ 'its back, behind it, after it'). Twenties are multiplied (e.g., /mǒ sàkpá bándé/ 'sixty'), and lower numerals added, through 'ninety-nine'. E.g.:

mò bándé àkó lòndó	'twenty-one'
mò bándé àkó sôŋ sàkpá	'twenty-eight'
mò bándé àkó tâŋ	'thirty'
mò bándé àkó tâŋ sóó'ú	'thirty-five'
mǒ fè'á bándé	'forty'
mǒ fè'á bándé àkó tâŋ	'fifty'
mǒ fè'á bándé àkó tâŋ sôŋ fè'á	'fifty-seven'
mǒ sàkpá bándé àkó tâŋ sóó'ú	'seventy-five'
mǒ náánì bándé àkó tâŋ sôŋ náánì	'ninety-nine'

What was probably originally a system that continued according to this pattern through 399 (or perhaps 199) has been simplified by the adoption of the English word 'hundred', in the form /hóndô/, which forms the basis for higher additions and multiplications. E.g.,

hóndô lòndó àkó mò bándé	'one hundred twenty'
hóndô fè'á	'two hundred'

hóndô fè'á àkó mǒ fè'á bándé àkó tâŋ sóó'ú	'two hundred fifty-five'
hóndô sôŋ náánì	'nine hundred'

Similarly, the English word 'thousand' has been adopted in the form /táúsùŋ/.

As noted above, these numerals are used after nouns as modifiers. If the noun has an attributive modifier, the numeral follows it. E.g.:

kéŋ fè'á	'two houses'
kpò'ó mò bándé àkó sóó'ú	'twenty-five books'
sámà náamá sàkpá	'three new baskets'
kàí nyámá sôŋ fè'á	'seven tall men'

Numerals may be used after the specific form of a noun with a partitive meaning. For other combinations of modifiers, see 8.6 below.

E.g.,

kéŋě fè'á	'two of the houses'
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8.3. The monetary system constitutes a set of free noun phrases which may conveniently be included at this point. As in all other Liberian languages, the monetary system reflects the British system of pounds and shillings, from a time when the pound sterling was the equivalent of four dollars (American or Liberian). The shilling, equivalent of twenty cents, is now divided into twenty cents rather than twelve pence. There are, however, special terms for five cents, ten cents, and fifteen cents, reflecting the British threepence, six pence, and nine pence. The Vai monetary units are:

kápà	'cent'	éétîŋ	'fifteen cents'
fóŋ	'five cents'	sé'èŋ	'twenty cents'
néí	'ten cents'	pôŋ	'four dollars'

A form /pátà/ 'dollar' is also sometimes used. The form /éétîŋ/ is clearly adopted from English 'eighteen', and originally referred to eighteen half-penny pieces, making nine pence. The pattern followed in using these terms is illustrated by the following:

kápà lònǎó	1¢	sé'èŋ lònǎó éétîŋ	35¢
kápà fè'á	2¢	sé'èŋ fè'á	40¢
kápà náánì	4¢	sé'èŋ fè'á néí kápà fè'á	52¢
fóŋ	5¢	sé'èŋ fè'á éétîŋ	55¢
fóŋ kápà lònǎó	6¢	sé'èŋ sàkpá	60¢
fóŋ kápà náánì	9¢	sé'èŋ sàkpá éétîŋ	75¢
néí	10¢	sé'èŋ sóó'ú	\$1.00
néí kápà fè'á	12¢	sé'èŋ sôŋ fè'á néí	\$1.50
éétîŋ	15¢	sé'èŋ tâŋ	\$2.00
éétîŋ kápà sàkpá	18¢	sé'èŋ tâŋ fè'á néí	\$2.50
sé'èŋ lònǎó	20¢	sé'èŋ tâŋ sôŋ fè'á néí	\$3.50
sé'èŋ lònǎó kápà fè'á	22¢	sé'èŋ tâŋ sôŋ sàkpá	
sé'èŋ lònǎó fóŋ	25¢	éétîŋ	\$3.75
sé'èŋ lònǎó fóŋ		pôŋ lònǎó	\$4.00
kápà lònǎó	26¢	pôŋ lònǎó sé'èŋ tâŋ	\$6.00
sé'èŋ lònǎó néí	30¢	pôŋ fè'á	\$8.00

8.4. In some respects, the grammar of numerals is similar to that of relational nouns. Like relational nouns, numerals immediately follow a noun stem or phrase; in addition, they may be used after the stem form of a pronoun. Unlike relational nouns, however, they may take the specific suffix with its ordinary semantic significance. E.g.,

mǎ fè'á	'two people'	ànú fè'áǎ	'both of them'
mǎ fè'áǎ	'the two people'	ànú sàkpá	'three of them'
mú fè'á	'two of us'	ànú tâŋě	'the ten of them'

In the light of these usages, certain other words with quantitative reference may be treated together with the actual arithmetic numerals. These include the following:

bóǎ	'some'	gbí	'all'
kú'úŋ	'amount, number of'	kámà	'how many?'
kú'úmbà	'a lot of' (/kú'úŋ/ plus /bà/ 'large')	kí'í	'number of' (in rela- tive clauses)

Some usages of these are as follows:

í bóǎ b̀ núú	'take some off (there)' (commonly, 'reduce the price')
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à bǒǒ	'some of it'
mò bǒǒ nú	'some people'
kò'áǎ bǒǒ	'some of the cloth'
ànú kú'úŋ kò'ò	'there are a lot of them' (lit., 'their number is large')
kò'ò kú'úŋ má kò'ò	'rice isn't plentiful'
mò kú'úmbà ná'à	'a lot of people came'
àì à gbí sǎndà	'he's going to buy all of it'
ŋ wò'ó'à ànú gbí 'à	'I want all of them'
mò gbí	'everyone'
kámà mù	'how much is it?' (of price)
kpò'ò kámà mù à'à à sàŋ	'how many books did he buy?'
ŋ má à sò à'à sámbà	'I don't know how many baskets he
kí'í mú sàŋ	bought' (/mú/ marks relatives)

8.5. Ordinal numerals are formed with a suffix /-nǎ/. There is a special form for 'first', but the suffix is added to the forms for 'two' through 'five', and 'ten' (the only instances which were recorded). The numeral stems in these forms appear with low tones throughout. Ordinals are usually used with the specific suffix, and are so cited in the following examples:

kéŋ sénjénǎǎ	'the first house'
kí'à fè'ànǎǎ	'the second road'
mǒ sàkpànǎǎ	'the third person'
sǎŋ nàànìnǎǎ	'the fourth year'
té'é sòò'ùnǎǎ	'the fifth day'
ká'ó tǎn-nǎǎ	'the tenth month'

8.6. There are two demonstrative modifiers, /mèé/ 'this and /mènúú/ 'that'. When used after a numeral higher than one, it is the numeral which indicates plurality. E.g.,

níí mèé	'this cow'
níí sàkpá mèé	'these three cows'
bǎ mènúú	'that goat'
bà náánì mènúú	'those four goats'

If there is no other indication of plurality, however, the demonstratives may be pluralized by the addition of the individuated plural

marker /nú/:

mǒ mǎ̀é nú 'these people'      mǒ mǎ̀núú nú 'those people'

Demonstratives and the specific suffix are mutually exclusive; only one can be used in a noun phrase. Similarly, the marker /nú/ and numerical pluralization are mutually exclusive. It should be noted, however, that a demonstrative follows a numeral but precedes /nú/, as does the specific suffix. The following are illustrative of noun phrases using as many of the above types of modifiers as possible:<sup>14</sup>

sám̀bà námá fè'áǎ 'the two new baskets'  
 sám̀bà námá fè'á mǎ̀é 'these two new baskets'  
 sám̀bà námáǎ nú 'the (various) new baskets'  
 sám̀bà námá mǎ̀é nú 'these new baskets'

8.7. Nouns, and only nouns, may be conjoined by /bé/ 'and':

kàíě bé mùsúě 'the man and the woman'  
 mùsúě bé àá léŋ 'the woman and her child'  
 lèndè námá bé lèndè kó'ó 'a new car and an old car'

If one or both of the conjoined items is a pronoun, however, quite a different construction is used. The first member is a plural pronoun, expressing the personal reference and the plurality of the group: /mú/ 'we', /wó/ 'you', or /ànú/ 'they'. This is followed by /fè'á/, perhaps here best equated with 'including'; it is certainly the numeral 'two', but phrases of this type often refer to more than two members. The final member of the phrase is a noun or a pronoun followed by /wá/ (cf. 6.9 above); if this final member is singular, the total group numbers two, but if it is plural the total group numbers more than two. If the first member of the group is first person, /mú/, the final member may be either second or third person; if the first member is second or third person, /wó/ or /ànú/, the final member can be only third person. The possibilities permitted by this structure are illustrated in the following:

mú fè'á í wá 'you and I'  
 mú fè'á à wá 'he/she and I'  
 mú fè'á wó wá 'you (pl) and I, you and we'  
 mú fè'á ànú wá 'they and I, he and we, they and we'

wó fè'á à wá	'he/she and you (sg)'
wó fè'á ànú wá	'he and you (pl), they and you'
ànú fè'á à wá	'he/she and he/she'
ànú fè'á ànú wá	'he/she and they, they and they'
mú fè'á ń fǎ wá	'my father and I'
mú fè'á ń fǎ nú wá	'my father and we'
wó fè'á í fǎ wá	'you (sg) and your father'
wó fè'á í fǎ nú wá	'you (pl) and your (sg) father'
ànú fè'á à fǎ wá	'he and his father'
ànú fè'á à fǎ nú wá	'they and his father'
ànú fè'á ànú fǎ wá	'he and their father'
ànú fè'á ànú fǎ nú wá	'they and their father'
wó fè'á jô wá táá'à	'who (sg) went with you (sg)?'

This is the only way in which personal accompaniment can be expressed, as reflected in the translation of the last of the above.

8.8. Disjunction is expressed by the form /òò/, adopted from English 'or'. A longer form /òòzì/, the last part of which presumably comes from Mende, is sometimes used. Apparently no inherited expression of disjunction is in current use.

Disjunctive expressions appear to be only closed -- i.e., to permit a choice only between the alternatives named. In a question, open disjunction is implied by adding /òò mbê/ 'or what?'. The following illustrations appear to exhaust the possibilities; in the English equivalents, nonstandard punctuation is deliberately used to make the intended English intonations unambiguous:

mbê mù. bááwá òò bǎ.	'What is it. A sheep? or a goat.'
bááwá mù. òò bǎ.	'Is it a sheep? or a goat.'
í wò'ó'à kò'ó 'à? òò jòwó.	'Do you want rice? or sweet potatoes.'
í wò'ó'à kò'ó 'à? òò jòwó? òò mbê.	'Do you want rice? or sweet potatoes? or what.'

## CHAPTER 9

# NONVERBAL PREDICATIONS

9.1. Two types of predications are nonverbal in the sense that the predicative words used in them do not enter into the variety of constructions characteristic of verbs. These are "identificative" and "copulative" predications.

The simplest and most obvious kind of identificative predication consists, in the affirmative, of a noun or noun phrase followed by the identificative morpheme /mù/ 'it is'. The negative counterpart uses /máà/ 'it is not'. E.g.,

bǎ mù	'it's a goat'
mànjǎǎ mù	'it's the chief'
ńgá tá mù	'it's mine'
jô mù	'who is it?'
mbê mù	'what is it?'
ńgá tá máà	'it's not mine'

An identificative predication may also include a reference to that which is being identified. Such a reference may precede the identification; there is little if any pause, but the intonation appears to justify the use of a comma. Alternatively, such a reference may follow the identification, in which case it is followed by the relational particle /'à/. Thus:

tìè mènúú, ńgá tá mù	'that chicken is mine'
ńgá tá mù tìè mènúú 'à	"
kò'à léè, kài só-kè mù	'weaving is a man's job'
kài só-kè mù kò'à léè 'à	"

Identificative predication is also used with a number of words with qualificative reference. This is, however, by no means the only construction used for qualificative description. Qualificatives may be

recognized not only as a semantic class, but also as a grammatical class in that they enter into both predicative and attributive constructions (cf. 8.1 above). Different qualificatives, however, are used in four different predicative constructions. The assignment of one qualificative to one construction, and another to another construction, appears to be completely arbitrary. Of those which are used in identificative constructions, several are unitary stems; a somewhat larger number, however, are derived from verb stems by the suffix /-'è/. For all qualificatives in this class, the attributive form is identical with the form used in predications. In these predications, the qualificative is preceded by a noun or noun phrase, or by the stem form of a pronoun. Examples are:

lùmbó'òě bù'ú mù	'the orange is unripe'
sámbà mềé námá mù	'this basket is new'
à ló'ì mù	'he is young'
à kú'à mù	'it is raw'
kàíě kì'à'é mù	'the man is sick'
kí'ả námả'é mù	'the road is slippery'
kò'ả dhógbò'é mù	'the cloth is wet'
à mà'ò'é mù	'he is ashamed'
à kì'à'é máà	'he isn't sick'
sámbà mềé námá máà	'this basket isn't new'

In the affirmative only, identificative predication is also the normal form of topicalization, which will be discussed more fully at a later point; a few simple examples will serve to illustrate this for the present:

kúnù mù à ná'à	'it was yesterday that he came'
sámbà mềé mù ná'à à sàŋ wò'é	'it was this basket that I bought (it) today'

With reference to past time, identification may be expressed in the same way, with the addition of an adverb. E.g.,

jɔ̀ mù wì	'who was it (just now)?'
jɔ̀ mù kè'è mà	'who was it (some time ago)?'
jɔ̀ mù nì	'who was it (long ago)?'
à kì'à'é mù wì	'he was sick (not long ago)'

With qualificatives, however, verbal predications are frequently used for past as well as other non-present references. E.g.,

à kì'á'á	'he got sick'
à mà'ó'á	'he was ashamed'
àì mà'ó'á	'he will be ashamed'
kò'áǎ dhógbò'á	'the cloth is going to get wet'

With nouns (which, of course, may be modified by qualificatives), verbal predications using an expression meaning 'become', /<sup>R</sup>tĩ ... kò/, are also used for other than present reference:

àì tĩ'á mànjáǎ kò	'he will be(come) the chief'
àì tĩ'á mǎ sìì'é kò	'he will be(come) a rich man'

9.2. Copulative predication is the joining of two constructions by a copula, the most important of which is /bè/ in the affirmative and /bé'è/ in the negative. These are used primarily, though not exclusively, in expressions of location. The locative constituent may be a single word with locative reference, but is very commonly a relational noun phrase. The copula may be preceded by a noun or noun phrase, or by the stem form of a pronoun. Examples are:

ànú bè níè	'they are here'
ń fá bè Dhùkó'ò	'my father is in Monrovia'
lòngó bè kǎǎ mà	'there's a chameleon on the tree'
à bè sǎǎ kó'ò	'it's under the rock'
à bè sǎǎ kpáà'ò	'it's behind the rock'
fèó bè à 'à	'he has asthma'
ń bà bé'è núú	'my mother isn't there'
wù'úǎ bé'è kéǎǎ 'ò	'the dog isn't in the house'
kò'só bé'è ń bò'ò	'I don't have rice'
mbê kò bè núú	'what news is there there?' (a com- question after greeting)
kàsé bé'è kàmbá máì	'there's no blame on God' (answer to the above)

A rather small number of qualificatives are used in copulative predications; there is no indication that these are or ever were locative in meaning. All of the qualificatives in this class are unitary stems; none is derived from a verb. The attributive forms are identical with

the forms used in predications, though a few of them (with a suggestion of multiple reference, as 'bumpy') may be reduplicated as attributives.

Examples are:

kǒŋě bẹ̀ lẹ̀kpẹ̀	'the stick is flexible'
kàíě bẹ̀ kúndú	'the man is short'
à bẹ̀ gbà	'it is different'
à bẹ̀ làà	'it is light (in weight)'
à bẹ̀ léfé	'it is thin (as sheet metal)'
kǒŋě bé'ẹ̀ lẹ̀kpẹ̀	'the stick isn't flexible'
à bé'ẹ̀ kúndú	'he isn't short'

Also used in copulative predications are qualificative ideophones; no definition of ideophones is suggested at this point, but the following are examples:

kàí mènúú bẹ̀ tàmùtàmù	'that man is staggering'
kí'ǎǎ bẹ̀ còìcòì	'the road is a muddy mess'
kpòndòě bẹ̀ còkpòcòkpò	'the "soup" is really slimy' <sup>15</sup>

From one very important point of view, expressions referring to action going on at present should be considered nonverbal predications, specifically copulative predications of the locative type illustrated above. There is evidence in any number of Niger-Congo languages, including other Mande languages, that expressions of present action are inherently locative (see Welmers 1973, pp. 312-15, 324). The evidence in Vai is unambiguous. First, the construction uses the affirmative copula /bẹ̀/ or its negative counterpart /bé'ẹ̀/. Second, the verb stem is followed by a suffix /-nà/, which is amply attested in other combinations as locative in meaning: e.g., /bó-nà/ 'the place one comes from or has come from'. What is specifically predicative about expressions for present action is not the verb stem, but the copula. Simple examples are:

à bẹ̀ táá-nà núú	'he's going there'
ànú bẹ̀ nyíé lón-nà	'they're eating fish'
à bé'ẹ̀ ná-nà	'he isn't coming'

Perhaps in part as a cowardly capitulation to traditional grammatical treatments, but also in part because the construction in question

involves verb stems and their tones, objects, complements, and other characteristics of verbal predications, a fuller treatment of present action is included with verbal predications in 10 below.

A few expressions have been recorded that appear to be apocopated copulative predications, with nothing following the copula. E.g.,

ŋ̀ kpò'ó 'ò bé'è	'I'm not feeling well' (lit., 'the inside of my skin isn't')
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With reference to other than the present situation, relationships like the above are expressed by verbal predications, using the verb /<sup>R</sup>tĩ/ 'be (at)'.

Another copula is /tɔŋ/ 'be named, be priced at'; there is no negative counterpart. Examples of its use are:

í tɔŋ jɔ̀	'what (lit. 'who') is your name?'
ŋ̀ tɔŋ Kòŋ-káì	'my name is Kòŋ-káì'
kè tɔŋ sé'èŋ néí	'this one is thirty cents'
kèfé m̀é tɔŋ sé'èŋ fè'á	'this pineapple is forty cents'
kò'ó páì l̀ndó tɔŋ sé'èŋ l̀ndó fón	'one pint (= pound) of rice is twenty-five cents'

## CHAPTER 10

# VERBAL PREDICATIONS

10.1. Verbal predications, including here the expressions for present action mentioned in 9.2 above, are predications which use a verb stem, as opposed to simply a particle or a copula. Verb stems may be formally defined as forms which occur with a particular set of affixes; the individual affixes will be identified along with the description of different verbal constructions in the following sections.

Only one verb stem has been found which ever appears in an utterance in exactly the form that must be used for purposes of lexical identification. This is /táá/ 'go', which by itself constitutes a singular imperative utterance. (For a unique derivation from this stem, see below in this section.) Otherwise, every verb stem must be used either with a suffix or with low tone replacing its stem tone; this tonal replacement is itself considered an affix. It is because of this restriction that verb stems are normally cited, in isolation or in minimal utterances, with low tone, which happens to be characteristic of imperatives with the exception noted above. Tonal contrasts appear, however, in the presence of suffixes. The form used for lexical identification, therefore, must include a tone or tone sequence that appears only when a suffix is used, but not the suffix itself. It is for this reason that, in this study, verb stems with their lexical tones are specially indicated by the preposed symbol <sup>R</sup>: e.g., /<sup>R</sup>fáá/ 'die, kill'. Particularly for native speakers of Vai, it is hoped that this convention will be a reminder that such forms, though not pronounced as written, include essential information about each verb stem.

The vast majority of verb stems have one or two vowels, in the latter case either with or without an intervocalic consonant. The lexical tones, which appear unambiguously before a suffix /-ʼà/ which is used in the future construction, are either low-high, high(-high), or high-low; roughly the same number of verb stems is recorded with each. No

verb has low(-low) as its stem tone, though as noted above low replaces the stem tone of all verbs in certain constructions. Following the principle of maximum differentiation, therefore, it is used like the following that establish the forms by which verb stems must be lexically identified:

<sup>R</sup> tìé :	àì kǒŋ tìé'á	'he's going to cut sticks'
<sup>R</sup> kúné :	àì mú kúné'á	'he's going to wake us up'
<sup>R</sup> lésì :	àì à lésì'á	'he's going to catch it'

A few verb stems have three vowels. A majority of these have a double vowel after the initial consonant, then an intervocalic consonant, and a final single vowel, with the stem tones high-high-low. Four of the eight recorded stems certainly are, and the rest may be, adopted items. These are (with abbreviated glosses in two cases):

<sup>R</sup> dhóónò	'be slow'	<sup>R</sup> lúúwù	'inhale steam'
<sup>R</sup> g'ééndè	'drag'	<sup>R</sup> pááwà	'pay'
<sup>R</sup> káámà	'stand up'	<sup>R</sup> sóókò	'push through'
<sup>R</sup> kpéésì	'remove'	<sup>R</sup> tóósò	'suffer a sprain'

Other miscellaneous stems with three vowels are:

<sup>R</sup> mìinyá	'fear, frighten'	<sup>R</sup> fàsáì	'interpret'
<sup>R</sup> kóá'í	'talk'	<sup>R</sup> jànggátà	'punish physically'
<sup>R</sup> kúmbé'é	'roll'	<sup>R</sup> làhí'ì - làjí'ì	'advise'

A very few verb stems are derived by suffixation. One of these is unique: /<sup>R</sup>tááyé/ 'walk', from /<sup>R</sup>táá/ 'go'; the high tone of /<sup>R</sup>táá/, but not of the suffix, is retained in the imperative form /tááyè/. All but one of the others is derived from a small class of qualificatives (see 10.8 below) by a suffix /-yáà/. The qualificative roots do not appear in any construction diagnostic for lexical tone, but the derivations are most simply explained if the tones of the roots are assumed to be low-high. The known cases are:

<sup>R</sup> jàáyáà	'become spoiled; spoil' (cf. / <sup>R</sup> jáó/ 'spoil')
<sup>R</sup> kò'òyáà	'become larger; enlarge, honor'
<sup>R</sup> lòòyáà	'become smaller'
<sup>R</sup> kpè'èyáà	'become harder'
<sup>R</sup> jànjáà	'become longer, taller; lengthen'

Finally, there are some reduplicated stems, generally referring to extensive or repeated action. For some but not all of these, the unre-duplicated stems are also attested:

<sup>R</sup> kì'íkí'ì	'get tangled up'	<sup>R</sup> nììníì	'tickle'
<sup>R</sup> mààmáà	'move around'	<sup>R</sup> nyényè	'spread out'
<sup>R</sup> mù'ìmú'ì	'turn around and around'	<sup>R</sup> sììsíì	'pile up'
<sup>R</sup> nè'èné'è	'eat slowly and appreciatively'	<sup>R</sup> tèntéŋ	'mix with the feet'
		<sup>R</sup> tìètíè	'cut in pieces' (ob- ject: /...'ò/)

There are a few instances of nouns related in form and meaning to verbs; the noun and the verb stem are usually homophonous, but in one instance there is a difference in tone. The noun forms are used as objects of the verb /<sup>R</sup>ké/, which has the meaning 'do, perform' with a number of objects referring to actions; a few of the other nouns used with /<sup>R</sup>ké/ have cognates which are verbs in other Mande languages, but have no verbal counterparts in Vai. Of the nouns related to verbs, some are used with /<sup>R</sup>ké/ to express a general meaning (e.g., 'steal'), in contrast with the verb and a specific object (e.g., 'steal a car'). The pattern in question here is not sufficiently common to justify a generalization to the effect that verbs, or transitive verbs, also have nominal usages. At present, it seems preferable to handle the few cases as pairs of separate lexical items. The known instances are the following:

màí	'insulting speech or actions' (cf. / <sup>R</sup> màí/, trans., 'insult'):
à'à màí kè	'he spoke (or acted) insultingly'
kǎǎ	'stealing' (cf. / <sup>R</sup> kǎǎ/, trans., 'steal'):
àì kǎǎ kè	'he steals'
kà'á	'studying, learning' (cf. / <sup>R</sup> ká'á/, trans., 'study, learn'):
à bè kà'á kè-nà	'he's studying'
gbó'ò	'oath' (cf. / <sup>R</sup> gbó'ò/, intrans., 'take an oath, swear'; trans., 'curse'):
à'à gbó'ò kè	'he took an oath'
kĩ	'sleeping' (cf. / <sup>R</sup> kĩ/, intrans., 'sleep'):
à'à kĩ kè	'he slept'; cf. / <sup>R</sup> kĩ/ as a verb: ń kĩ'á bé'èná 'I slept well'

The last of these is also used in an expression referring to state:

à bɛ̃ kɪ̃ 'ò        'he is asleep' (lit., 'he is in sleep')

By analogy with this, a form /sɔ́/ 'standing' can also be interpreted as a noun, homophonous with the verb /<sup>R</sup>só/ 'stand'; it is similarly used:

à bɛ̃ sɔ́ 'ò        'he is standing' (i.e., on his feet, not getting  
to his feet)

Paralleling the verb /<sup>R</sup>síí/ 'sit', however, there is only a nonhomophonous noun /sú/:

à bɛ̃ sú 'ò        'he is seated'

In many related languages, including other Mande languages, expressions paralleling the above are best treated as a part of the verbal system, as a "stative" construction used with verbs which may refer to position. In Vai, however, it is clearly preferable to treat these as involving nouns, some of them different from the corresponding verb stems. For a different "stative" construction in Vai, see 10.9 below.

Having thus defined and described verb stems, and having excluded certain forms in certain usages from the verbal system as such, it is possible to go on to describe the various constructions which function as verbal predications. In the following sections, the term "subject" will refer to a noun or noun phrase, or to a pronoun in its stem form unless otherwise noted. In most verbal constructions, the subject is followed by a "construction marker." A further detail should be obvious by now: the object of a verb precedes the verb.

10.2. The first verbal construction to be considered will be labelled "situational." This construction is used only with intransitive verbs, many of which are active but some qualificative in meaning. With a verb indicating action, the situational refers simply to an action in the past, with no reference to or implication concerning its results or its effect on the present.<sup>16</sup> The statement of action merely defines the situation at the past time in question. For example, the situational predication /ŋ́ kúné'á/ 'I woke up' is appropriate whether or not the speaker went back to sleep; it may refer to waking up once, perhaps because of a noise, or (with further information added) to waking up repeatedly during the night. By contrast, the "completive" predication (see 10.7 below) /ná'á kùnè/ may also be translated 'I woke

up', but with the implication that the speaker stayed awake after that time; it may also be the equivalent of 'I have waked up' or 'I am awake'. The distinction is not a full parallel with the English "past" and "perfect" distinction; the most that can be said is that the situational never equates with an English "perfect." The exclusion of transitive verbs from the situational construction reflects the fact that action upon an object implies a goal or result of the action, which is foreign to the concept of the situational.

With a verb having qualificative reference, on the other hand, the situational refers to the present state of affairs; e.g., /kò'á mɛ́ zɛ̀nɛ̀'á/ 'this cloth is clean'. A number of qualificatives require this construction; they constitute a third class of qualificatives in terms of predicative usage (cf. 9.1,2 above). The attributive counterparts of qualificatives in this class are in most cases formed with the suffix /-'é/, but in a few cases with /-má/ (cf. 8.1 above).

In the affirmative situational construction, the subject appears immediately before the verb, with no construction marker. The verb stem has its lexical tones with no alternation, and takes a suffix /-'à/. As noted in 5.1 above, a stem-final /ŋ/ combines with the initial /' / of this suffix as an intervocalic /nd/. Examples of the affirmative situational are:

í kɪ'á kámà	'how did you sleep?'
í bɔ́'á míá	'where are you from?'
ànú sɪí'á	'they sat down, they were seated'
à mà'ó'á	'he was ashamed'
mùsúɛ máì sàmbá'á	'the woman trembled, shivered'
mànjáǎ lǒndà kéŋɛ̀ 'ò	'the chief entered the house'
kò'áǎ jǎ'á	'the cloth is red'
kàí mɛ̀núú tǒó'á	'that man is fat'
ŋ bá'ó'á	'I got better'
lóng-fèŋɛ̀ bándà	'the food is all gone'
lòndò'ìɛ̀ kúné'á lɪfíɛ̀ 'ò	'the baby woke up during the night'
kò'áǎ kpé'á	'the cloth is white'
kò'áǎ fíndà	'the cloth is black'
kò'áǎ nǒó'á	'the cloth is dirty'
bàànáǎ kófù'á	'the bananas began to rot'

à kòsù'à	'he coughed'
mǒě nú lásòndà	'the people gathered together'
bó'íě kónà'à	'the medicine is bitter'
jíě kímà'à	'the water is cold'
lùmbó'òě ló'à'à	'the orange is sour'
kǒŋ mèé tândà	'this stick is straight'

In the negative, there is no distinction between the situational and the completive (10.7 below). The first and second person plural subject pronouns have alternants with low tone, /mù/ and /wò/; there is a construction marker /má/; and all verb stems have low tones replacing their stem tones. The following are negative counterparts of some of the above:

ǵ má kòsù	'I didn't cough'
mù má kì bé'ènà	'we didn't sleep well'
lòndò'ìě má kùnè	'the baby didn't wake up'
bǎ mènúú má tǒò	'that goat isn't fat'
kò'á mèé má nǒò	'this cloth isn't dirty'
kǒŋ mèé má tàŋ	'this stick isn't straight'

10.3. The affirmative "future" construction uses a construction marker /ì/ after the subject. For convenience rather than on any definable grounds of linguistic structure, this will be joined to a preceding pronoun subject without space, but written as a separate word after a noun subject. There is a special alternant with the first person singular pronoun; the combination of the pronoun and the construction marker is /mbè/ (apparently with an unusual initial consonantal /mb/, not a syllabic nasal before a form homophonous with the copula /bè/). There is some evidence that the construction marker may at one time have had alternants /wè/ and /yè/, the first of which might explain the first person singular combination /mbè/; perhaps reflecting the second, after the second person singular pronoun /í/, /è/ has occasionally been heard, but the combination /î/ is apparently always acceptable. The first and second person plural pronouns have low tone, /mù/ and /wò/. The verb stem has its lexical tones with no alternation, and takes a suffix /-'à/ as in the situational. A commonly used alternative expression for future action is described in 11.1 below. Examples of the

affirmative future are:

mbè à jì'á'à ànú'á	'I'm going to show it to them'
mùì ànú kpà'ó'á	'we're going to look for them'
àì kànyá'á	'he's going to get tired'
ná mùsúě ì táá'á Dhùkó'ò	'my wife is going to go to Monrovia'
ànúì à ká'í'á	'they're going to break it'
mbè ń fǎ ké'é'á	'I'll call my father'
mùì féŋ lónḁ	'we're going to eat (things)'
kò'áǎ ì dhógbò'á	'the clothes are going to get wet'
àì mánjǎǎ sú'á'á	'he's going to greet the chief'
mbè à 'ò fá'àndà	'I'm going to change it'
mbè à nyíà'á	'I'll fix it'

In the negative of the future, the subject is followed by a construction marker /wé'è/; in the first person singular, the combination /ń wé'è/ ([m' wé'è]) is sometimes heard as an alternant of /ń wé'è/. As in the affirmative, verb stems have their stem tones and take the suffix /-á/. Examples are:

ń wé'è kǎŋ tìé'á	'I'm not going to cut sticks'
à wé'è à kǎǎ'á	'he's not going to find it'
ànú wé'è ń f'é'é'á	'they're not going to see me'
ń bâ wé'è ná'á	'my mother's not going to come'
à 'ò wé'è fá'àndà	'it's not going to change'
mú wé'è à túsà'á	'we're not going to ask him'

10.4. A "conditional" construction is most conveniently considered next, although it never constitutes a complete predication. It belongs here, however, because it has a structure comparable to that of the other constructions treated in this section. A conditional may be translated by an English clause beginning with either 'when' or 'if', as long as the reference is to the future; there is no implication as to the likelihood of the outcome, such as is distinguished by English 'when' (expected) and 'if' (dubious). Affirmative conditions of this type can actually be expressed in three different ways. The first construction, discussed immediately below, is treated first because of its parallelism with a negative counterpart. The second is treated at the end of this section. The third is not a primary verbal construction,

but a subordinate in its internal structure; this, along with other conditional clauses related to it, is treated in 12.1,2 below.

The first affirmative conditional uses a construction marker /'à/, written (again for convenience only) without space after a pronoun but with space after a noun subject which ends with a vowel. Combinations of pronouns with this construction marker show alternations as noted below. Verb stems have their stem tones, except that low-high has the regular alternant low-low before the initial high tone of the following obligatory suffix. The verbal suffix may have the form /-'éè/ after any verb. That form is obligatory after transitive verbs, and also after qualificative intransitive verbs of the class that takes the suffix /-'é/ in the identificative predicative construction (9.1 above). After other intransitive verbs, the suffix of the conditional is optionally /-'é/.

The conditional and the completive (10.7 below) use the same construction marker /'à/, which combines with pronouns according to the same rules in both constructions. First, with any verb and therefore in any conditional or completive construction, a set of forms may be used in which /'à/ is overtly present; the singular pronoun forms preceding /'à/ have special alternants characterized by the vowel /á/. This set is as follows:

1s:	ná'á	1pl:	mú'á
2s:	yá'á	2pl:	wó'á
3s:	á'á	3pl:	ánú'á

Independently of the other alternants to be noted, the third person plural pronoun has an alternant combination with /'à/ which may also be used with any verb: /ándà/.

Before intransitive verbs only, the singular forms may be used without /'à/ being overtly present, but with the same characteristic /á/ as above: /ná/, /yá/, and /á/ respectively.

Before transitive verbs only, for the third person singular and the first and second persons plural, alternants may be used which differ from the above only in that low tone accompanies the first vowel (which constitutes a regularity for the third person singular): /à'á/, /mù'á/, and /wò'á/ respectively.

Affirmative conditionals (with conclusions in the future or impera-

tive to make complete sentences) are illustrated in the following; the alternants described above are shown for the first few conditions with intransitive verbs, and later for the first few with transitive verbs:

- ná'á jè'è'é, mbè í fé'é'á 'when I return, I'll see you'  
 (~ ná ...; ~ ... jè'è'éè, ...)
- yá'á tò'é níè, í ì fò ñjè 'if you stay here, tell me'  
 (~ yá ...; ~ ... tò'éè ...)
- á'á ná'é, àì ñ fǎ fé'é'á 'if/when he comes, he will see my  
 father'  
 (~ á ...; ~ ... ná'éè, ...)
- wó'á táá'é wààkó'ò, wó 'when you (pl) go to Robertsport,  
 kpààtóó sàṅ ñjè buy a cutlass for me'
- kǎǎ ké-mòò mènúú 'á 'if that thief shows up, chase him  
 bó'ándé, í ì kpàì away'
- kò'áǎ 'á dhógbò'éè, í ì lèṅ 'if the clothes get wet, hang them  
 táǎ máì near the fire'
- ná'á à fì'ì'éè, í ì lèsì 'when I throw it, catch it'
- á'á àá jà-fèṅě kǔǔ'éè, 'if he finds his money, he will be  
 à fà'á ì sá'á happy'  
 (~ à'á ...)
- mú'á à lóndéè, mùì kì'á'á 'if we eat it, we'll get sick'  
 (~ mù'á ...)
- wó'á ñ kúné'éè, mú fè'á wó 'if you (pl) wake me up, I'll go  
 wá ì táá'á jí fè má-nà fishing with you'  
 (~ wò'á ...)
- ánú'á wù'ù-lèṅě sómà'éè, 'if they put the puppy down, he'll  
 àì gú'ù'á run away'
- mànjáǎ 'á à já'ì'éè, à fà'á 'if the chief declares him guilty,  
 wé'è sá'á he won't be pleased'

The corresponding negative conditional uses the construction marker /má/. The first and second person plural pronouns have low tone, /mù/ and /wò/. The same suffix is used as in the affirmative, with the same rules for the stem tones of verbs. Examples are:

í má ŋ fě'ě'ée núú, í má ŋ kònbò	'if you don't see me there, don't wait for me'
à má à kpà'ò'ée, à wé'è à fě'ě'à	'if he doesn't look for it, he won't find it'
mù má tì'é núú, mù tǐ'à kù'ú 'ò	'if we aren't there, we'll be at home'
sóná má kè'é, mbè táá'à Dhùkó'ò	'if it doesn't rain, I'll go to Monrovia'

For affirmative conditionals only -- there is no negative counterpart for this construction -- an alternative construction uses a construction marker /kónì/, and the verb stem has low tone replacing its stem tone. Alternative formations corresponding to the first three affirmative examples above are:

ŋ kónì jě'è, mbè í fě'ě'à	'when I return, I'll see you'
í kónì tò níè, í ì fò njè	'if you stay here, tell me'
à kónì nà, àì ŋ fǎ fě'ě'à	'if/when he comes, he will see my father'

For another use of /kónì/, see 12.8 below.

10.5. As noted in 9.2 above, the usual expressions for present action are, in an important sense, non-verbal predications of the copulative, and specifically locative, type. They do show sufficient similarity to the constructions described above, which use suffixes after the verb stem, to justify being included at this point; yet even the pattern of suffixation shows a significant difference, at least in an optional usage. An alternative formation noted below, however, using the same construction markers as are used in the future, further strengthens the case for considering a "present" in the context of verbal predications.

After the copulas /bè/ and /bé'è/, a verb stem takes a suffix /-nà/. A hyphen is written between the verb stem and the suffix for two reasons: first, the suffix is also used with verb stems to form what are clearly compound nouns with a locative meaning; second, a stem-final /ŋ/ becomes /n/ before this suffix, resulting in a double [n] which does not occur anywhere else in intervocalic position. Before this

suffix, the verb stem tones high(-high) and high-low are unchanged. The stem tone low-high, however, may be realized in any of three ways, as illustrated in the following alternatives:

à bɛ̃ kɔ̃ŋ tìé-nà	}	'he's cutting sticks'
à bɛ̃ kɔ̃ŋ tìè-náà		
à bɛ̃ kòŋ tíé-nà		

In the first of these, the stem tone of /<sup>R</sup>tìé/ 'cut' is used with no alternation. The second appears to differ from the first only at the level of a phonologic rule which is regular in ordinary compound nouns, not at the level of a grammatical construction; the choice between the two may well be idiolectal (Fr. Kandakai seems to prefer the second, but recognizes the first as entirely acceptable). The third of the above, however, represents an instance of nominalization (cf. 7.2,3), which points up the grammatical difference between this construction and the verbal predications described in preceding sections.

In the illustrations below, the second of the above formations will be used for verbs with low-high stem tone. This is sufficiently distinctive in print to serve as a reminder that the other two alternatives are also permissible. Examples of the present, therefore, are as follows:

sónáǎ bɛ̃ kè-náà	'it's raining'
pì'ìě bɛ̃ bìndà-náà	'the grass is burning'
wù'ù-lêŋě bɛ̃ à bā kpà'ò-náà	'the puppy is looking for its mother'
í bɛ̃ táá-nà míá	'where are you going?'
ŋ bɛ̃ táá-nà kùú 'ò	'I'm going home'
ŋ kǔŋ bɛ̃ ŋ lún-nà	'my head aches' ('is hurting me')
à bɛ̃ lóŋ táá-nà	'she's cooking rice'
à bɛ̃ kɛ̃ŋě 'ò fí'á-nà	'she's sweeping the house (inside)'
jíě bɛ̃ wú'ì-nà	'the water is boiling'
à bɛ̃'è bìndà-náà	'it isn't burning'
léŋě nú bɛ̃'è ná-nà	'the children aren't coming'
à bɛ̃'è kò'á léè-nà wò'é	'he isn't weaving cloth today'

Not very frequently, and largely in the context of informal conversation, the affirmative future construction marker /ì/ and its negative

counterpart /wé'è/ have been heard instead of the copulas /bè/ and /bé'è/, reportedly with no difference in meaning. E.g.,

íì táá-nà míá	'where are you going?'
mbè táá-nà kùú 'ò	'I'm going home'
à wé'è ná-nà	'he isn't coming'

10.6. The verbal constructions described up to this point include all those that use a suffix after the verb stem. The remaining constructions use low tone replacing the stem tone of the verb. The first of these will be labelled "incompletive." The incompletive uses the same construction markers as the future: affirmative /ì/ and negative /wé'è/, with the same alternants of pronouns; it differs from the future only in having low tones with the verb stem instead of a suffix after it. More than one aspectual reference is included in the usages of the incompletive; in many other languages, two or even three different constructions are required to cover the same range. By itself, an incompletive predication in Vai is normally interpreted as referring to customary action. In an appropriate verbal or situational context, however, the affirmative completive has a hortative significance (suggesting that something should be done); strikingly, the first person hortative ('let's ...') is expressed not by this construction but by an imperative (see 10.8 below). For any person, necessity may be expressed by the incompletive with the added adverb /wákè/. The negative incompletive is more restricted to the customary meaning. While it may be used to express a negative hortative, the preferred construction is identical with the negative completive and imperative (10.7,8 below). Other uses of the incompletive are treated in 11.4,5 below. The following are illustrations of the incompletive; for each, the verb stem used is also shown with its lexical tone:

<sup>R</sup> lóŋ :	mùì lóŋ kú'úmbà lòŋ	'we eat lots of (cooked) rice'
<sup>R</sup> má :	àì wúndé mà mú yè	'he cooks (does cooking) for us'
<sup>R</sup> ké :	ó nyò mó ì sǒ kè	'my brother works in Robertsport'
	Wàà-kó'ò	
<sup>R</sup> tìé :	ànúì kǒŋ tìè kpààtóó	'they cut sticks with cutlasses'
	'à	
<sup>R</sup> ké :	à wé'è sǒ kè níé	'he doesn't work here'

<sup>R</sup> mĩ :	ń wé'è kpé mì	'I don't drink (booze)'
<sup>R</sup> gú'ù :	ń fǎ wé'è lùmà-lèndè gù'ù	'my father doesn't drive (a land vehicle, car)'
<sup>R</sup> sǎŋ :	á táá'é Dhùkó'ò, àì ká'ì sǎŋ	'when/if he goes to Monrovia, he should buy a hoe'
<sup>R</sup> táá :	àì tàà Dhùkó'ò sínà	'he should go to Monrovia tomorrow'
<sup>R</sup> fí'á :	Námá ì kéŋě 'ò fì'á wò'é	'Námá should sweep the house today'
<sup>R</sup> kòńó :	ń má tì'ée núú, ànúì ń kòńò	'if I'm not there, they should wait for me'
<sup>R</sup> táá :	mùl tàà wákè	'we have to go'
<sup>R</sup> táá :	mù má tàà sínà	'let's not go tomorrow'
<sup>R</sup> ké :	à má sǒ kè sínà	'he shouldn't work tomorrow'

10.7. The "completive" construction uses the same construction markers as the conditional, affirmative /'à/ and negative /má/, but takes low tones with the verb stem instead of a suffix. In the affirmative, combinations of pronouns with the construction marker also have the same alternants as in the conditional, depending on whether the verb is transitive or intransitive; these are fully described in 10.4 above. In the negative, the first and second person plural pronouns again have low tone. It was noted in 10.2 above that the affirmative situational construction is used only with intransitive verbs, and that with verbs referring to action it indicates simply an action in the past, with no implication concerning subsequent results. For intransitive verbs, accordingly, the completive sometimes has a reference like that of the English "perfect"; it may, for example, express the fact that someone 'has gone' somewhere and is still away. The parallelism is by no means complete, however; the completive may also be used to say that someone 'went' somewhere yesterday or at some other time, as long as he has not yet returned. With transitive verbs, the choice between an English "perfect" and "past" in translation is unambiguous only if an appropriate adverb or other information makes the reference clear. Examples of the affirmative completive, with arbitrary choices of translation in some cases, are as follows:

<sup>R</sup> táá :	á'á tàà Dhùkó'ò	'he has gone to Monrovia'
	(- á tàà ...)	

- <sup>R</sup>táá : á'á tàà Dhùkó'ò 'he went to Monrovia yesterday (and  
kúnù (- á tàà ...) is still gone)'
- <sup>R</sup>jòndó : á'á à jòndò 'he pushed it'  
(- à'á à jòndò)
- <sup>R</sup>tìé : ànú'á kòŋ kú'úmbà 'they (have) cut a lot of sticks  
tìé wò'é today'
- <sup>R</sup>fé'é : ná'á kò'á léè-fèŋ 'I saw a loom in town'  
fè'é sànjáã 'ò
- <sup>R</sup>kóó : kái kènúú 'á à kòò 'the other man denied it'
- <sup>R</sup>sùndá : ŋ fá 'á ŋ sùndà 'my father sent me'
- <sup>R</sup>só : mú'á kèŋ sò Gbáã 'we built a house in Gbáã'
- <sup>R</sup>léè : ŋ fá 'á kò'á mèé 'my father wove this cloth'  
léè
- <sup>R</sup>lûŋ : ànú'á à té lûŋ 'they divided it'

As noted in 10.2 above, the situational uses the same negative construction as the completive. This negative, with all verb stems having low tones replacing their stem tones, is obviously more closely related to the affirmative completive than to the affirmative situational. As will be noted in 10.8 below, the negative imperative, rather surprisingly, is also the same. Negatives of intransitive verbs and some qualificatives, corresponding to affirmative situationals, are illustrated in 10.2 above. The following are negatives of transitive verbs, including some illustrations of negatives with adverbial modifiers which specify aspects more explicitly:

- <sup>R</sup>kì'í : à má à kì'ì bé'èná 'he didn't tie it well'
- <sup>R</sup>kpà'ó : ŋ má nyíé kpà'ò 'I didn't look for fish'
- <sup>R</sup>ká : à má àá kò'ó kà wé 'he hasn't sold his rice yet'
- <sup>R</sup>ké'é : ŋ nyòmó má ŋ kè'è 'my brother didn't call me'
- <sup>R</sup>gbàì : káiě má túsá kée 'the man didn't answer the question'  
gbàì
- <sup>R</sup>nyíà : kò'á só'ó-mòòě má 'the tailor didn't fix it well'  
à nyíà bé'èná
- <sup>R</sup>kúné : à má kùnè wé 'he hasn't waked up yet'
- <sup>R</sup>lónŋ : mù má gbàsà lónŋ 'we've never eaten cassava'  
wé nì (gbà)

10.8. The "imperative" uses no construction marker before the verb in the affirmative, but has low tones replacing the stem tones of all verbs except as noted below. The second person singular pronoun /í/ is optional in most combinations if singular reference is intended. If there is a third person singular object pronoun, however, the second person singular subject pronoun is required. The third person singular object pronoun has the special alternant /ì/ (rather than the usual /à/) in the affirmative imperative. The subject pronoun /wó/ is required for plural reference. In addition, the first person plural pronoun /mú/ is used to form what is structurally another imperative, but with the hortative meaning 'let's ...'.

The one verb /<sup>R</sup>táá/ 'go', and the same root, but not the final syllable, in the derived verb stem /<sup>R</sup>tááyé/ 'walk', retains its high tones in the imperative. The singular pronoun in /í táá/ is regular, but the plural pronouns are low: /wò táá/ 'go (pl)', and /mù táá/ 'let's go'.

Examples of affirmative imperatives are:

<sup>R</sup> sǎŋ :	(í) nyíé mée sǎŋ	'buy this fish'
<sup>R</sup> ná :	(í) nà níè	'come here'
<sup>R</sup> fí'á :	(í) kéŋě 'ò fì'á	'sweep the house (inside)'
<sup>R</sup> má :	í ì mà wò'é	'do it today'
<sup>R</sup> kpà'ó :	í ì kpà'ò	'look for it/him/her'
<sup>R</sup> ké'é :	í ì kè'è	'call him/her'
<sup>R</sup> tìé :	wó kǒŋ tìé	'cut (pl) sticks'
<sup>R</sup> gbésè :	wó gbèsè	'get out of the way (pl)'
<sup>R</sup> sìí :	mú sìn	'let's sit down'
<sup>R</sup> súmá :	mú ì sùmà	'let's measure/weigh it'
<sup>R</sup> kònó :	mú í nyòmó kònò	'let's wait for your brother'
<sup>R</sup> táá :	mù táá núú sínà	'let's go there tomorrow'

For the negative imperative, the construction marker is /má/ (with the first and second person plural pronouns having low tone), and all verb stems take low tone. The second person singular pronoun may not be omitted. With a subject other than second person, the same construction has a negative hortative meaning (cf. the incomplete, 10.6 above). The negative imperative is thus identical in form with the negative complete (10.7 above). Even a distinctive verbal context to resolve the ambiguity does not appear to be a common device. Apparent-

ly the situational context -- merely whether the hearer for one reason or another expects to hear a statement or a command -- is more important. Examples of negative imperatives, with their extension to the negative hortative usage, are as follows:

<sup>R</sup> táá :	í má tàà núú	'don't (/you didn't) go there'
<sup>R</sup> sǎŋ :	í má kò'á mènúú sǎŋ	'don't buy that cloth'
<sup>R</sup> ké'é :	í má ànú kè'è	'don't call them'
<sup>R</sup> ké'é :	wò má wó fǎ kè'è	'don't (pl) call your father'
<sup>R</sup> má :	wò má à mà	'don't (pl) do it'
<sup>R</sup> ná :	mù má nà níè sínà	'let's not come here tomorrow'
<sup>R</sup> lǒŋ :	mù má lǒŋ kéŋě 'ò	'let's not go in the house'
<sup>R</sup> kòŋó :	ànú má ŋ kòŋò	'they shouldn't wait for me'
<sup>R</sup> ké :	à má sǒ kè sínà	'he shouldn't work tomorrow'
<sup>R</sup> pááwà :	à má sò ké'éè bé'è- nà, ànú má à pááwà	'if he doesn't work well, they 'shouldn't pay him'
<sup>R</sup> jì'á :	ŋ má à jì'á à 'à?	'shouldn't I show it to him?'
<sup>R</sup> só'ó :	kò'á sǒ'ó-mbòě má à sò'ò fàndé mènúú 'à	'the tailor shouldn't sew it with that thread'
<sup>R</sup> kpàsí :	léŋě nú má wù'úě kpàsì	'the children shouldn't beat the dog'

10.9. Two known verbs which require verbal complements (described in 11 below), and a small number of qualificatives, are used in a "stative" construction. Like the imperative, the affirmative stative has no construction marker, and has low tones with all verb stems. It differs from the imperative, however, in that the subject is not restricted to one of three pronouns. Nor can the subject be tortuously interpreted as the object of an imperative, since it cannot be preceded by a pronoun like the subject pronoun of an imperative. The qualificatives used in the stative construction constitute a fourth class in terms of predicative usages; for the others, see 9.1,2 and 10.2 above. In addition to five recorded cases that are entirely regular, there are three which are included here although their tones are not low throughout; alternative usages are attested for all three, and these may perhaps be apocopated constructions. The attributives corresponding to some of these are completely unrelated.

The negative stative, like the negative situational and imperative, is identical with the negative completive (cf. 10.2,7,8 above).

The verbs used in the first two examples below differ in meaning in that /<sup>R</sup>kòsá/ refers to learned or acquired ability, while /<sup>R</sup>kúŋ/ implies native ability and often opportunity. The lexical tones of many of the qualificatives cannot be determined; they have been recorded only in this construction, and perhaps do not occur in other constructions in which their lexical tones would be expected to occur. All forms recorded in the stative are included in the following:

à kòsà wúndé má'á 'he can cook' ('do cooking')

ǫ kùŋ ná kò'óě gbí ká'á 'I can sell all my rice'

kéŋě kò'ò 'the house is large'

(cf.: kéŋ-bà 'a large house')

kí'ǎǎ bú kò'ò 'the road is wide'

(cf.: kí'ǎ bú kò'òyáá'é 'a wide road')

kéŋě lòò 'the house is small'

(cf.: kéŋ-lèŋ 'a small house')

kí'ǎǎ bú lòò 'the road is narrow'

(cf.: kí'ǎ bú lòòyáá'é 'a narrow road')

kàíě jàŋ 'the man is tall'

(cf.: kàí nyámá 'a tall man')

kǒŋě 'ò kpè'è 'the wood is hard'

(cf.: kǒndò kpè'è'é 'hard wood')

kéŋě nyì 'the house is fine'

(cf.: kéŋ nyíá'é, kéŋ bé'èná 'a fine house')

kí'ǎǎ jáò - kí'ǎǎ jáó'é mù 'the road is bad'

(cf.: kí'ǎ nyámá 'a bad road')

kí'ǎǎ námàà - kí'ǎǎ námàà'é mù 'the road is slippery'

(cf.: kí'ǎ námàà'é 'a slippery road')

à fànyá - à fànyáá'é mù 'it is heavy'

(cf.: kǎǎ fànyáá'é 'a heavy box')

ǫ fǎ má kòsà lèndè gú'ù'á 'my father can't drive'

kéŋě má kò'ò 'the house isn't large'

kǒŋě 'ò má kpè'è 'the wood isn't hard'

10.10. The verbal predications described above are summarized in the chart below, which presents them in a different order but reveals

more of the degree of symmetry in the system. In the chart, "S" stands for "subject"; subscript numerals refer to alternant forms of pronouns described in the appropriate sections above. "O" stands for "object," which is not permitted with some verbs, is required with others, and is optional with some (i.e., such verbs may be used either intransitively or transitively); the "O" is therefore parenthesized. "VS" is "verb stem." "∅" stands for the absence of a construction marker, or "zero." "L", written as if it were a suffix, stands for low tones replacing the stem tones of any verb. Otherwise, construction markers and verbal suffixes appear in their actual forms. The special optional tonal alternation for low-high stems in the present (10.5 above) is not noted in the chart.

	<u>Affirmative</u>	<u>Negative</u>
Situational:	S ∅ --- VS-'à	(= Completive)
Stative:	S ∅ --- VS-L	(= Completive)
Imperative:	S ∅ (O) VS-L	(= Completive)
Future:	S <sub>1</sub> ì (O) VS-'à	S wé'è (O) VS-'a
Incompletive:	S <sub>1</sub> ì (O) VS-L	S wé'è (O) VS-L
Conditional:	S <sub>2</sub> 'à (O) VS-'éè	S <sub>1</sub> má (O) VS-'éè
	(or: S kónì (O) VS-L	--- )
Completive:	S <sub>2</sub> 'à (O) VS-L	S <sub>1</sub> má (O) VS-L
Present:	S bè (O) VS-nà	S bé'è (O) VS-nà

## CHAPTER 11

# VERB AND SENTENCE COMPLEMENTS

11.1. A number of verbs permit or require the use of a complement (an object in a few cases, but primarily a post-verbal construction) which includes another verb. One of the commonest combinations is an alternative expression for future action. The present of the verb /<sup>R</sup>ná/ 'come' is used, followed by another verb which also takes the suffix /-nà/ and which may be in a nominalized form (cf. 10.5 above). There is no implication of actual motion toward the speaker, any more than English 'he's going to do it' implies motion away from the speaker. Examples of this alternative future are:

ń̀ b̀e ná-nà táá-nà	'I'm going to go'
à b̀e ná-nà kẹ̀n sọ́-nà	'he's going to build a house'
ń̀ b̄a b̀e ná-nà kò'á m̀eé bótì-nà	'my mother is going to wring out these clothes'
ànú b̀e ná-nà à k̀ì'ì-nàà	'they're going to tie it'

The same construction is used after the verb /<sup>R</sup>táá/ 'go' in sentences like the following, but in this case with the implication of motion away from the speaker, and to express purpose. The present and situational of /<sup>R</sup>táá/ are used here; with other constructions, purpose is expressed by the incompletedive (see 11.5 below).

ń̀ b̀e táá-nà jí f̀e má-nà	'I'm going (i.e., I'm on my way) to go fishing'
à táá'á kùú 'ò lóń táá-nà	'she went home to cook rice'

Another usage of this complement construction is after the verb /<sup>R</sup>tǒ/ 'stay, continue', primarily if not exclusively in the situational and future constructions:

sónáǎ tǒ'á k̀e-nàà l̀í f̀í gbù'ù	'it kept on raining all night'
sónáǎ ì tǒ'á k̀e-nàà té'é kp̀e'èń	'it's going to keep on raining all day'

Finally, such complements are used after the verbs /<sup>R</sup>fé'é/ 'see', /<sup>R</sup>jémbé/ 'watch', and /<sup>R</sup>láng/ 'hear'. The subject of the action referred to in the complement is expressed by an object of /<sup>R</sup>fé'é/ or /<sup>R</sup>jémbé/, but by the possessor of the obligatory relational noun object /kú'è/ 'voice, sound' with /<sup>R</sup>láng/. (For another usage with /<sup>R</sup>láng/, see 11.3 below.) Examples are:

ná'à ànú fè'è sò ké-nà	'I saw them working'
á'à Námá fè'è ná-nà	'he saw Námá coming'
wòì ñ fè'é'à ná-nà	'you (pl) will see me coming'
mú'à ànú jèmbè à má-nà	'we watched them do(ing) it'
mbè à jémbé'à kò'à léè-nà	'I'm going to watch him weave'
ná'à ànú kú'è làṅ lòṅ bó-nà	'I heard them singing'

11.2. After the verbs /<sup>R</sup>kúṅ/ 'be able', /<sup>R</sup>kòsá/ 'have the ability', /<sup>R</sup>bũṅ/ 'start', /<sup>R</sup>kò'ó/ 'stop', /<sup>R</sup>báṅ/ 'finish', and perhaps some others (but see 11.3 below for another expression meaning 'start'), the verbal complement is a verb stem with the suffix /-à/. The first two of these verbs have been illustrated in the stative (10.9 above); they are also used in other constructions as appropriate. E.g.,

ñ kùṅ à má'à í yè	'I can do it for you'
àì kúndà à má'à sínà	'he'll be able to do it tomorrow'
Músá kúndà kǎǎ ké-mòbè bì'á'à	'Músá was able to catch the thief'
ñ kúndà kǎǎ fànyáà'é bí'à	'I used to be able to pick up heavy boxes'
à kòsà kòbòwà nyíà'é nyíà'à	'he can make fine shoes'
ñ má kòsà lèndé mèé gú'ù'à	'I can't drive this car'
sònáǎ bũndà kě'à lìfí 'ò	'it started to rain during the night'
àì bùṅ sǎ mèé ké'à sínà	'he should start doing this work tomorrow'
á'à kò'ò sò ké'à	'he stopped working'
í má kò'ò à kpà'ó'à	'don't stop looking for it'
á'à bàṅ sǎ mènúú ké'à	'he finished doing that job'
yá'à bándéè sóóě sèndà, í ì fò ñjè	'when you finish digging the hole, tell me'

mbè bándà à má'á sínà	'I'll finish doing it tomorrow'
à kúndà bándà àá sò ké'á	'he was able to finish (doing) his
kúnù	work yesterday'

11.3. A few verbs may be used with objects which are relational nouns, the "possessor" of which may be a nominalized verbal expression. For example, the combination of the relational noun /kù'ú/ 'bottom, base' and the verb /<sup>R</sup>bí/ 'pick up' means 'start' (cf. /<sup>R</sup>bûŋ/ in 11.2 above). The verb /<sup>R</sup>láj/ 'hear' requires the relational noun /kú'è/ 'voice, sound' as its object. The next-to-last example below is an alternative for the last example in 11.1 above, in which 'them' is the immediate source of the sound; the last example below, however, can be expressed only in this way, since the source of the sound is the instrument, not the person. Preceding the relational noun in each of the following is a nominalized verb, which itself may have an object:

á'á wó'á kù'ú bì	'he started to undress'
á'á sǒ mèé ké kù'ú bì kúnù	'he started doing this work yesterday'
àì sǒ mèé ké kù'ú bí'á sínà	'he's going to start doing this work tomorrow'
ná'á ànúá lòŋ bó kú'è làŋ	'I heard them singing'
ŋ wò'ó'á mbè àá kóníŋgàì	'I want to hear him play his
séŋ kú'è làŋ	framed lute'

11.4. A number of verbs (of which /<sup>R</sup>wò'ó/ 'want' in the last illustration above is an example) are followed by sentence complements consisting of an inpletive construction. After a negated verb, the inpletive requires the morpheme /tò/ after the construction marker; alternatively, /tò/ is sometimes used in place of the normal construction marker. In most of these combinations, the inpletive complement has something of a hortative or purposive significance, which is, as noted in 10.6 above, a possible meaning of the inpletive construction alone.

The verbs that take inpletive complements may be divided into groups in terms of other characteristics of their usage. The first group consists of three intransitive verbs: /<sup>R</sup>wò'ó/ 'want', /<sup>R</sup>láo/ 'agree, permit', and /<sup>R</sup>gáŋgà/ 'refuse, forbid'. It may seem surprising

that a verb with a meaning such as 'want' would be intransitive; even in other Mande languages, verbs with a comparable meaning are usually transitive. In Vai, however, /<sup>R</sup>wò'ó/ has more of the sense of 'have a desire'; even a physical object which is wanted is expressed by a noun phrase complement using the relational particle /'à/, as in /ŋ wò'ó'à nyíé 'à/ 'I want fish.' In the situational construction, /<sup>R</sup>wò'ó/ refers to the present time unless the complement includes a reference to past time; the past may also be expressed by the adverb /wì/. It is useful to compare the sentence complements in question here with those in other Niger-Congo languages. In languages which have a grammatical infinitive, it is the infinitive which is used if the subject of the complement verb is the same as the subject of the main verb, as in equivalents of sentences like 'I want to do it.' If the subjects are different, however, a hortative construction is used in the complement, as 'I want he should do it.' In Vai, however, as in many related languages, there is no grammatical infinitive. Accordingly, all such sentence complements are hortative, including 'I want I should do it.' In most if not all of the following examples, a conjunction /kémú/ 'that, in order that' is permissible before the complement, but not required; it appears to be more commonly used in fairly long sentences. Examples of incompletive complements with the three verbs under consideration here are as follows:

à wò'ó'à ài tàà kùú 'ò	'he wants to go home'
à wò'ó'à wì ài tàà kùú 'ò	'he wanted to go home'
ŋ má wò'ò mbè tò sǒ mèé kè	'I don't want to do this work'
(~ ŋ má wò'ò ŋ tò sǒ mèé kè)	
ànúì wò'ó'à ànúì à gbí lòŋ	'they'll want to eat it all'
ŋ wò'ó'à íi ná kò'óě sàŋ	'I want you to buy my rice'
ŋ wò'ó'à íi tàà kúnù	'I wanted you to go yesterday'
à wò'ó'à ànúì à pàawà	'he wants them to pay him'
ànú fǎ má wò'ò (kémú) ànúì	'their father doesn't want them
tò tàà kà'á kó'ò	to go to school'
à láó'á ài à mà	'he agreed to do it'
à má làò (kémú) ài tò àá	'he didn't agree to sell his rice
kò'óě sàŋ mú bà'á	to us'
à má làò (kémú) mùì tò àá	'he didn't allow us to buy his

kò'óě sàŋ	rice'
àì làò àá léŋě nú ì nà níè	'he lets his children come here
té'é 'ò	during the day'
à wé'è làò àá léŋě nú ì tò	'he doesn't let his children come
nà níè	here'
à gáŋgà'á àì à mà	'he refused to do it'
àì gáŋgà'á àì à mà	'he'll refuse to do it'
ó má gáŋgà mbè tò à mà	'I didn't refuse to do it'
àì gáŋgà (kè mú) àá léŋě nú	'he forbids (/should forbid) his
ì tàà núú	children to go there'
à gáŋgà'á (kè mú) mùì àá	'he refused to let us buy his car'
lùmà-lèndè sàŋ	
í má gáŋgà ànúì tò nà	'don't forbid them to come'

Secondly, incompletive complements are used after the verbs /<sup>R</sup>bhóó/ 'beg' and /<sup>R</sup>làhí'ì/ (or /<sup>R</sup>làjí'ì/) 'advise'. These, however, also require a personal object, with the same reference as the subject of the complement. A similar case is the phrase /tú<sup>R</sup>sá/ 'ask', in which /tú/ is a relational noun which requires a personal possessor. The form /<sup>R</sup>làhí'ì/ is also used as a noun in the phrase /làhí'ì<sup>R</sup>bí/ 'make a promise, promise', which may also take an incompletive complement. Examples of these are:

à'á ó bhòò mbè à mà	'he begged me to do it'
à'á ó bhòò mí má à mà	'he begged me not to do it'
mbè à bhóó'á àì nà	'I'm going to beg him to come'
bó'í-zòòě 'à à làhí'ì	'the doctor advised him to eat
(kè mú) àì sùè kú'úmbà lòn	a lot of meat'
mú'á ànú làhí'ì (kè mú)	'we advised them to go to a doctor'
ànúì tàà bò'ì-zòò bà'á	
mànjáá 'á ó tú sà mbè nà	'the chief asked me to come'
í ì tú sà àì í bàsà	'ask him to help you'
ó má à tú sà àì tò à sàŋ	'I didn't ask him to buy it'
à'á làhí'ì bì àì tàà sínà	'he promised to go tomorrow'
mbè làhí'ì bí'á mbè à mà	'I (will) promise to do it'

A third group of verbs after which incompletive complements are permitted, though not required, take a third person singular pronoun ob-

ject interpreted as impersonal, 'it', anticipating the sentence complement. The transitive verb /<sup>R</sup>sú má/ ordinarily means 'measure, weigh'; with the relational noun object /'ò/ 'inside' it means 'test, try' (the possessor of /'ò/). With either a third person pronoun alone or with /à 'ò/ 'its inside' as object, and with an incompleted complement, it means 'try, attempt (to)'. Similarly, with only an object the verb /<sup>R</sup>lí á/ means 'like, enjoy, love'; used in the future, with the object /à/ and an incompleted complement, it has the force of 'would like to'. The verb /<sup>R</sup>má/ is the common verb meaning 'do'; with the object /à/ and an incompleted complement, it means 'force, compel'. Examples of these three verbs with incompleted complements are:

mbè à sú má' à mbè à mà	'I'll try to do it'
í ì sù má í ì à nyí à wò' é	'try to fix it today'
í ì sù má í ì nà sé' èŋ tãnda	'try to bring two dollars'
mbè à lí á' à à ì sǒ kè ñjè	'I'd like him to work for me'
ŋ nyòmó ì à lí á' à à ì tà à kà' à kó' ò	'my brother would like to go to school'
á' à à mà mù ì à á fòó fòó é bì	'he made us carry his loads'
í má à mà mbè tò à mà	'don't make me do it'
ŋ wé' è à má' à í ì tò tà à nú ú	'I won't make you go there'

Finally, the verb /<sup>R</sup>fó/ 'say' is commonly used with an incompleted complement. It also requires an anticipatory object 'it', and in addition may have a complement with the relational particle /yè/, indicating the person addressed. Thus:

á' à à fò mù ì nà	'he said we should come'
á' à à fò mú yè mù ì nà	'he told us to come'
í ì fò à yè à ì ná bhù é nyí à	'tell him to fix my gun'
à ì à fò à nú yè à nú má à 'ò fà' à ŋ	'he should tell them not to change it'
kà' à mósó é 'à à fò ñjè	'the teacher told me that the
léŋ é nú ì nà sín à	children should come tomorrow'

11.5. In a much less restricted way, the incompleted construction, with more of its hortative than its customary significance, may be used after a wide variety of verbal predications. This is the usual way of expressing purpose; after an incompleted, a future, or an imperative,

however, there is no very sharp line of demarcation between purpose and what is merely a potential subsequent action. Purpose can be unambiguously expressed by using the conjunction /kè mú/. These usages are nevertheless included here, rather than under the heading of subordinate clauses (12 below), because the incompletive often follows another verb without a conjunction, and even without a pause (which would be indicated by a comma, representing pause intonation). In this respect, the incompletive constructions in the following examples are more like sentence complements, or even like coordinate clauses similar to "consecutive" constructions in many other languages. Thus:

á'á tǎà àà sènéě 'ò	'he went to his farm to work'
àì sǒ kè	
ná'á nà níè (kè mú)	'I came here to see you'
mbè í fè'è	
mbè táá'á kùú 'ò mbè	'I'm going to go home and (/to)
kpò'ó nyèì	write a letter'
àì í bàsà íì à mà	'he should help you do it'
í ì bàsà àì à mà	'help him do it'
à bè sò ké-nà (kè mú)	'he's working in order to go to
àì tǎà kà'á kó'ò	school'
àì nà níè sààmà 'à	'he comes here in the morning and
àì sǒ kè mú yè	works (/to work) for us'

11.6. There is one recorded instance of a completive construction functioning like a sentence complement; this is after the verb /<sup>R</sup>bàsá/ 'help' when it also appears in the completive. This is somewhat similar to some of the above examples, which can be interpreted as paratactic and coordinate. Other coordinate clauses which may be paratactically joined, however, may alternatively be joined by a coordinating conjunction; these are discussed in 14 below. An example of a complement-like completive is the following:

á'á ń bàsà ná'á à mà	'he helped me do it' (lit., 'he
	helped me I did it')

11.7. It is highly unlikely that the foregoing discussion of verb and sentence complements (particularly 11.1-4, 6) has included an exhaustive list of the Vai verbs that take such complements. What is

likely, however, is that there are no other types of complements used with other verbs. It may further be added that Vai equivalents of a few other English verbs that one might expect to be included here provide no new information. For example, the common expressions for 'succeed' and 'fail' are merely the appropriate affirmative and negative constructions with the verb /<sup>R</sup>kúŋ/ 'be able' (see 11.2 above).

## CHAPTER 12

# SUBORDINATE CLAUSES

12.1. An affirmative and a negative conditional construction, and an alternative for the affirmative, were described in 10.4 above. These share the general characteristics of independent verbal predications, but do not constitute complete sentences; they are by definition a type of subordinate clause. As noted there, such conditionals may correspond to English clauses beginning with either 'when' or 'if'; there is no implication as to whether the action or situation referred to is expected or in doubt. Conditions implying doubt ('if') are alternatively expressed, however, by clauses beginning with a conjunction /hĩĩ/, which appears to have been adopted from Mende; such clauses also permit a wider variety of aspectual reference. In the clauses which parallel the conditional construction most closely in meaning, the reference is to something that has not as yet taken place; yet these clauses use the situational construction with intransitive verbs, and the completive with transitive verbs (cf. 10.2,7 above). Other predications, both nonverbal and verbal, may also be used after /hĩĩ/ with the aspectual implications peculiar to them (e.g., customary, future, stative). E.g.,

hĩĩ à táá'à núú, à wé'è jè'é'à	'if he goes there, he won't come back'
hĩĩ í bó'ó mà wónyé'à, í má à wònyè	'if your arm (surface) itches, don't scratch it'
hĩĩ à bú'ò bó'à, àì bó'í mèé mì	'if he gets diarrhoea (lit. 'if his stomach comes out'), he should take (lit. 'drink') this medicine'
hĩĩ à bú'ò bè bó-nà, àì bó'í mèé mì	'if he has diarrhoea, he should take this medicine' (/hĩĩ/ with present)

hĩĩ à'á àá kò'óě kà, àì jà-fêŋ fě'ě'á	'if he sells his rice, he will have (lit. 'see') money'
hĩĩ ná'á yá léŋě nú fě'è, mbè à fó'á ànú yè ànúì nà	'if I see your children, I'll tell them to come'
hĩĩ í bâ 'à à tàà, mbè à lóndà	'if your mother cooks it, I'll eat it'
hĩĩ ànú bè ná-nà jòwó sà-n- náà, í ì fò ànú yè ànúì bóó sàŋ ŋ pé'ě njè	'if they're going to buy sweet po- tatoes, tell them to buy some for me too'
hĩĩ tòònyáà mù, í má à kòò	'if it's true, don't deny it'
hĩĩ ŋ kùŋ bándà kpò'ó mée' nyéì'á, ŋ fà'á ì sá'á	'if I can finish writing this book, I'll be happy'
hĩĩ ànú má táá wò'é, ànúì táá'á sínà	'if they don't go today, they'll go tomorrow'
hĩĩ ŋ má kì'á, mbè ná'á niè sínà	'if I don't get sick, I'll come here tomorrow'
hĩĩ à má àá kò'óě kà, à wé'è jà-fêŋ fě'ě'á	'if he doesn't sell his rice, he won't have money'
hĩĩ í má à sùmà íì à mà, ŋ wé'è í bàsá'á	'if you don't try to do it, I won't help you'
hĩĩ à má nà sàánà, ŋ wé'è à kòónó'á	'if he doesn't come soon, I'm not going to wait for him'
hĩĩ tòònyáà máà, í ì fò njè	'if it isn't true, tell me'

12.2. Hypothetical conditions are also introduced by the conjunction /hĩĩ/, but in addition require the adverb /wì/. If the condition refers to the future ('if it should happen'), /wì/ follows /hĩĩ/ directly, and the verbal construction in the conditional clause is a future. If the condition refers to the present or past (i.e., as contrary to fact, 'if it were true,' 'if it had happened'), /wì/ follows the verb or copula or identifier, and any appropriate construction can be used in the condition with its own aspectual reference. After all such conditional clauses, the conclusion uses a future construction, even if

the condition requires a reference to past time. Examples of such hypothetical conditions are:

hǐí wì íì táá'á Jòndú, íì ń fǎ f'é'é'á	'if you should go to Jòndú, you would meet my father'
hǐí wì kàí mènúú ì àá sò ké'á, àì jà-fèṅ f'é'é'á	'if that man would do his work, he'd have money'
hǐí í táá'á wì Jòndú, íì ń fǎ f'é'é'á	'if you had gone to Jòndú, you'd have met my father'
hǐí í tí'á wì níè, ń nyòmó wé'è fàá'á	'if you had been here, my brother would not have died'
hǐí ná'á ànú fè'è wì, mbè à f'ó'á í yè	'if I had seen them, I'd have told you'
hǐí ń má à kè'è wì, à wé'è ná'á	'if I hadn't called him, he wouldn't have come'
hǐí à bè wì sò ké-nà wò'é, mbè kúndà à ké'é'á	'if he were working today, I could call him'
hǐí à bé'è wì sò ké-nà, mùì kúndà táá'á jí fè má-nà	'if he weren't working, we could go fishing'
hǐí à má tí wì sò ké-nà, mùì kúndà táá'á jí fè má-nà	'if he hadn't been working, we could have gone fishing'
hǐí tòònyáà máà wì, mbè à f'ó'á wó yè	'if it weren't true, I would tell (/have told) you (pl)'

12.3. Propositions after the equivalents of English verbs such as 'say', 'think', 'know', etc. (i.e., clauses of indirect discourse) are ordinary predications introduced by the conjunction /kè/ 'that' (which is quite possibly also the first part of the conjunction /kémú/ 'in order that'). Some of the common expressions introducing such clauses, however, deserve explanatory notes. Only the last of the following is an ordinary intransitive verb:

á'á à f'ò kè ...	'he said (it) that ...'
á'á à sò kè ...	'he knows (/knew) (it) that ...'
á'á à f'è'è kè ...	'he saw (/learned) (it) that ...'

à jí'ì bè kè ...	'he thinks (/thought) that ...' (lit. 'his mind is-at that ...')
á'á jí'ì sùlì à mà kè ...	'he remembered that ...' (lit. 'he set mind on it that ...')
á'á nyìnà kè ...	'he forgot (/has forgotten) that ...'

Examples of these with predications after them are:

á'á à fò kè à bè ná-nà à má-nà sínà	'he said that he's going to (/would) do it tomorrow'
ànú'á à fò njè kè mò bóbó bè kéṅě lá	'they told me that someone is (/was) at the door'
léṅě nú bâ 'à à sò kè ànú bè kéṅě 'ò	'the children's mother knew that they were (/ knows that they are) in the house'
léṅě nú bâ 'à à sò kè ànú tí'á kéṅě 'ò	'the children's mother knew that they had been in the house'
ná'á à sò kè tòbònyáà mù	'I know it's true'
íì à fé'é'á kè tòbònyáà mù	'you'll learn that it's true'
ná'á à fè'è kúnù kè í líámó ì ná'á	'I learned yesterday that your friend was (/is) going to come'
ó jí'ì bè kè kò'ó pái'ì lònḍó tòṅ sé'èṅ fón	'I think that rice is twenty-five cents a pint'
ó jí'ì tí'á kè sò ké mée' kpè'è	'I used to think that this work was hard'
à má jí'ì sùlì à mà kè ná'á à pààwà	'he didn't remember that I had paid him'
ànú wé'è jí'ì sùlì à mà kè ó kó'ò má kpè'è	'they don't remember that my back isn't strong'
ná'á nyìnà kè à bè níè	'I forgot that he was here'
ó má kùṅ nyìná'á kè wó'á ó bàsà ó táá'á kà'á kó'ò	'I can't forget that you (pl) helped me to go to school'

12.4. Subordinate clauses expressing cause are introduced by one of two conjunctive phrases, /kpàndá máà/ and /béí máà/. The word /kpàndá/ by itself means 'for nothing, in vain, with nothing added'; it is a qualificative used predicatively in the identificative construction (see 9.1 above). The phrase /kpàndá máà/ thus has the basic meaning of 'it is not without reason'; it functions as a complete clause or perhaps even as an independent sentence, rather than as what is typically thought of as a conjunction. The phrase /béí máà/ is probably similar in its etymology, though /béí/ by itself has not been identified; it is at least similar in its grammatical function. It is worth noting that some other Mande languages have conjunctive expressions with comparable etymologies and functions. Examples of these, incorporating a suggestion that they be written at least with a comma preceding and following them to show that they are independent predications in themselves, are as follows:

ń bẹ̀ sò ké-nà, kpàndá máà, 'I'm working because I want to go  
ń wò'ó'à mbẹ̀ tàà kà'à kó'ò to school'

ná'à nà í bà'à kẹ̀mú mbẹ̀ í tú 'I've come to you to ask you to  
sà íì ń bàsà, béí máà, ná help me, because my child is  
léŋě kì'à'é mù sick'

ànú fà'á 'à sà, kpàndá máà, 'they're happy because rice is  
kò'ó kú'úŋ kò'ò sǎŋ mée' 'à plentiful this year'

ń fà'á 'à sà, béí máà, ń 'I'm happy because I was able to  
kúndà jẹ'é' 'à níè sǎŋ mée' 'à come back here this year'

In each of the above, only one of the expressions for 'because' is used; the other can be substituted in every case, with no apparent shade of difference in meaning.

12.5. Vai expressions comparable to English clauses introduced by 'before', 'until', and 'unless' are of four types, three of them partially similar to each other, but none of them corresponding fully to any one of the English subordinates. The semantic characteristics of each must be defined apart from their English equivalents. Further, as noted below, 'after' is simply the inverse of 'before'.

In the first type of expression, the main clause (always the first

clause in Vai) refers to a single action or event. The subordinate clause corresponds to an English clause introduced by 'before' following an affirmative predication only. In Vai, such clauses are commonly introduced by one of the conjunctions /péŋ/ or /pééééé/. Such a conjunction is not, however, essential to the construction; it may be omitted, and what follows conveys the meaning by itself. The conjunctions themselves seem to be relatively recent innovations in Vai, since they have initial /p/ (see 1.2 above). The clauses in question could be classified as a type of sentence complement (cf. 11.5 above in particular), but are included here because the conjunctions are so commonly used. An incompleted construction is used in the subordinate clause, with the morpheme /tò/ following the construction marker (cf. 11.4 above). In this case, /tò/ is quite clearly a form of the verb /<sup>R</sup>tǒ/ 'stay, continue'.<sup>17</sup> The following verb, however, is apparently not a complement of /tò/, since it also has the low tones characteristic of the incompleted, and there are no other verbal complements with low tone. The form /tò/ may be considered to have an adverbial function, with the meaning 'still'. In these clauses, the incompleted has a consecutive rather than a hortative or customary implication. Examples of sentences with these subordinate clauses are:

mùì kě'á núú (péŋ) sònáǎ ì tò kè	'we'll get there before it starts to rain' (i.e., 'and the rain is still coming')
ànú kò'ó'á sò ké'á (péŋ) té'éě ì tò jì'ì	'they stopped working before the sun set'
nà jà-fêŋě 'à (péŋ) mbè tò tàà Dhùkó'ò	'bring the money before I go to Monrovia'
á'á bàŋ à má'á (péŋ) ànúì tò nà	'he finished doing it before they came' / 'they came after he fi- nished doing it'

All efforts to elicit subordinates of the 'after' type resulted in inversions like the last of the above.

12.6. In the second type of sentence under consideration, the main clause refers to a continuing action or state; further, the reference

is to the past. In this case, the subordinate clause corresponds to an English 'before' or 'until' clause following a negative predication, or to an 'until' clause following an affirmative predication. It will probably be easier to follow the description and alternative possibilities for these if examples are given first:

ń má à fè'è, à tǒ'à (à 'ò) ná'à nú tò	'I didn't see him before (/until) I left there'
ánú tǒ'à sò ké-nà, à tǒ'à (à 'ò) té'éě jì'í'à	'they kept on working until the sun set'
ń tǒ'à ná jà-fêṅě kpà'ò- náà, à tǒ'à (à 'ò) ná'à à fè'è	'I kept on looking for my money until I found it'

In the first (main) clause of the second and third of the above examples, it is also possible to use a simple completive construction: /ánú'à sǒ kè/ 'they worked', /ná'à ná jà-fêṅě kpà'ò/ 'I looked for my money'. The use of the verb /<sup>R</sup>tǒ/ 'stay, continue' (in the situational) with a complement in which the verb has the suffix /-nà/ (cf. 11.1 above) emphasizes the continuing nature of the action. In the subordinate clauses of all three of the above, the introductory phrase /à tǒ'à/ is again a situational construction with the same verb /<sup>R</sup>tǒ/; this is optionally followed by /à 'ò/, lit. 'its inside', so that the entire introductory phrase means 'it continued (in it)'. The substance of the clause is then expressed by a situational construction if the verb is intransitive, or a completive construction if the verb is transitive. These are not interpreted as sentence complements, since they could be used as complete sentences by themselves. They are rather in a paratactic relationship with what precedes: 'it continued (in it), I left there', etc.. Optionally, however, the final clause may be expressed by an incompletive, with a consecutive significance: /mbè nú tò/, /té'éě ì jì'í/, /mbè à fè'è/. While these could also be complete sentences, they would not by themselves have a past reference; it is the nature of a consecutive that it has the temporal or aspectual reference of the preceding verbal construction.

12.7. In the third type of sentence under consideration, the main clause again refers to a continuing action or state, but the reference

of the subordinate clause is to the future; further, the anticipated event is viewed as inevitable, or at least firmly intended. The subordinate clauses in this type of sentence correspond to 'until' clauses in English. E.g.,

wó tò sò ké-nà, àì tò (à 'ò) té'éě ì jì'ì	'keep on working until the sun sets'
mbè tǒ'à à kpà'ò-náà, àì tò (à 'ò) mbè à fè'è	'I'm going to keep on looking for it until I find it'
ŋ bé'è táá'à, àì tò (à 'ò) té'éě ì bò	'I'm not going to go until the sun rises'

In these, the subordinate 'until' clause is introduced by an incomplete (consecutive) construction, /àì tò (à 'ò)/ '... and it will continue (in it)', similar to the completive used for past reference in the sentences described in the preceding section. The substance of the clause, as is optional with reference to the past, is obligatorily incomplete with reference to the future, and again has a consecutive significance.

12.8. The fourth type of sentence under consideration differs from the third only in that the anticipated event is viewed not as inevitable, but only as possible. After a negative main clause, the Vai subordinate clause corresponds to an English clause introduced by 'before', 'until', or 'unless'. After an affirmative main clause, an English clause introduced by 'until' is the only possible alternative. In this type of expression, the subordinate clause is introduced by one of two conjunctions, /kènggèè/ or /kè'òò/, and the remainder of the clause is a conditional construction with the construction marker /kónì/ (cf. 10.4 above). In each of the following examples, /kè'òò/ may be substituted for /kènggèè/:

í má tàà kènggèè ŋ kónì í sùndà	'don't go until (/before, unless) I send you'
à wé'è à mà'à kènggèè í kónì à fò à yè	'he won't do it until (/before, unless) you tell him'
à 'ò wé'è fá'àndà kènggèè mú kónì à 'ò fà'àŋ	'it won't change until (/unless) we change it'

tò níè kènggèè à kónì à fò      'stay here until he tells you to  
 ì yè ìì tàà                              go'

The forms /kènggèè/ and /kè'òò/ may also be used in expressions like the following, in which what follows is not predicative at all:

í má tàà kènggèè sínà                      'don't go until tomorrow'  
 ǵ wé'è à mà'à kènggèè sínà              'I won't do it until tomorrow'  
 à má à mà kènggèè sínà                      'he shouldn't do it until tomorrow'

Apocopated expressions like the following are also in common use, in response to an actual or implied request:

kènggèè sínà      'it'll have to be tomorrow', 'not until tomorrow'

12.9. Subordinate clauses referring to known time, paralleling English clauses introduced by 'when' (with reference to the past) or 'while', are a type of relative clause, and will be treated along with other relatives in 13 below.

## CHAPTER 13

# TOPICALIZATION, QUESTION WORDS, RELATIVIZATION

13.1. The meaning of the term "topicalization" as used here should be unmistakably clear from the examples cited and their English equivalents.<sup>18</sup> Since question words in Vai are typically topicalized, they must be treated along with topicalization in general.<sup>19</sup> Although relativization is clearly related to topicalization in some languages of the world, and although such a relationship is apparently thought by some to be universal, it is not for that reason that relativization is here considered under the same heading. On the contrary, it is crucially important in the case of Vai (and almost all other Niger-Congo languages; cf. Welmers 1973, pp. 416-45) to recognize a fundamental difference between topicalization (as in question-word questions) and relativization (as in "indirect questions"); the two are treated together here precisely to point out how different they are.

Any constituent of a Vai sentence may be topicalized with the exception of the predicator (verb, identificative particle, or copula). To put it more positively, a subject, object, or adverbial complement may be topicalized. These three topicalizations must be treated separately.

Subject topicalization is expressed by /wá/ after a noun or noun phrase subject; after a pronoun, /wá ngǎ wá/ is used (or perhaps better, noun phrases topicalized by /wá/ include phrases consisting of a pronoun plus /wá ngǎ/, which function as independent pronouns). These expressions are discussed in 6.9 above, where /wá/ and /ngǎ/ are interpreted as relational nouns, and are described as expressing emphasis or as having an intensive use. That is not in conflict with now referring to the same forms used after a subject as constituting topicalization. Topicalization implies singling out one item in contrast with all other possible items; it has sometimes been called "contrastive emphasis." In Vai, the idea of emphasis seems to be more fundamental than the idea of contrast in /wá/; when /wá/ is used after a subject, however, con-

trast appears to be implicit in emphasis. At least, no other construction has been found which more explicitly expresses contrast. Topicalized subjects are thus illustrated in the following; compare the examples and the English equivalents in 6.9 above:

ń fǎ wá ná'á	'it was my father who came'
kímá wá bè bè'á-náà	'it's hail that's falling'
kàí mènúú wá 'à à nyià	'it's that man who fixed it'
kàí mènúú wá ì à nyià	'it's that man who should fix it'
kàí mènúú wá bè à nyiá-nà	'it's that man who's fixing it'
à wá ngǎ wá ná'á	'he's the one who came'
à wá ngǎ wá 'à à mà	'he's the one who did it'
ńgá ngǎ wá ná'á	'it was I who came'
ńgá ngǎ wá 'à à mà	'I'm the one who did it'
ńgá ngǎ wá bè à má-nà	'I'm the one who's doing it'
mú wá ngǎ wá bè à má-nà	'it's we who are doing it'
mànjàǎ wá bè níè	'it's the chief who is here'
tú'ú jàà'é wá bè ń bò'ò	'it's palm oil that I have'
ná mìéé wá bè í bò'ò	'it's my knife that you have'

(The fact that English sentences in the precise form given above are not very common and may seem awkward must by no means be interpreted as suggesting that topicalization is less common in English than in many other languages. Topicalization in English is more frequently signalled by contrastive stress, which is not normally represented in written English. The first two of the above might be rephrased as 'My father came!' and 'It's hailing!', and similarly for the rest.)

There is no parallel construction for negative subject topicalization. A circumlocution is used, as illustrated in the following:

mò mú 'à ná'á, ń fǎ máà	'it wasn't my father who came' (lit., 'the person who came, it is not my father')
féń mú bè ń bò'ò, tú'ú jàà'é máà	'it isn't palm oil that I have' (lit., 'the thing that I have, it isn't palm oil')
mò mú 'à à mà, à wá máà	'it wasn't he who did it'

13.2. An object (of an affirmative sentence only) is topicalized by

being placed in sentence-initial position and followed by the identifier /mù/. What follows must, however, be a complete sentence in itself. A pronoun must be used in the usual object position, recapitulating the displaced object. If the topicalized object is a noun or noun phrase, and if its reference is explicitly singular or if number is irrelevant, the recapitulating pronoun is the third person singular, /à/. If the reference of the object is explicitly plural, the recapitulating pronoun is the third person plural, /ànú/. If the topicalized object is a pronoun, it is followed by /wá/, with alternants as described in 6.9 above, and this entire phrase is followed by /mù/; the recapitulating pronoun in the following sentence is then the same in person and number. The recapitulating pronouns are reflected in the English equivalents of the following examples by the appropriate pronoun in parentheses:

mànjáǎ mù ná'á à fè'è	'it was the chief that I saw (him)'
tú'ú jàà'é mù mú'á à sàŋ	'it was palm oil that we bought
lɔɔ 'ò	(it) in the market'
kɔŋ mù ànú'á à tiè	'it was sticks that they cut (it)'
kpé mù ànú bè à mì-náà	'it's wine that they're drinking
	(it)'
lèndé mènúú mù ŋ fǎ wò'ó'á	'it's that car that my father wants
àl à sàŋ	to buy (it)'
mɔ mènúú nú mù mú'á ànú	'it was those people that we saw
fè'è kúnù	(them) yesterday'
ŋgá mù yá'á ŋ fè'è	'it was me that you saw (me)'
í wá mù ná'á í kè'è	'it was you that I called (you)'
múànú wá mù á'á mú màì	'it was us that he insulted (us)'
ànúànú wá mù mànjáǎ 'á ànú	'it was them that the chief forced
mà ànúì sǔ kè	(them) to work'

In negative sentences, the only form of topicalization is the use of the emphatic marker /wá/ after the object in the usual object position:

ŋ má mànjáǎ wá fè'è	'it wasn't the chief that I saw'
ànú bé'è kpé wá mì-náà	'it isn't wine that they're
	drinking'
ŋ má í wá kè'è	'it isn't you that I called'

13.3. Again in affirmative sentences only, an entire adverbial complement may be topicalized by being placed in sentence-initial position followed by /mù/, with a restriction noted below. Such a topicalized complement is not recapitulated in the following sentence, which is complete by itself in any case.<sup>20</sup> Many adverbial complements, however, are relational noun phrases, which are described in 6.7 above. Such a complement may be topicalized in its entirety, but it is also possible to topicalize only the "possessor"; in such a case, there must be a recapitulating pronoun before the relational noun in its usual complement position. Still other adverbial complements have a relational particle, as distinguished from a relational noun, in final position; the status of relational particles is also discussed in 6.7 above. Such complements cannot be topicalized in their entirety. Only the "possessor" can be topicalized, and a recapitulating pronoun with the relational particle is obligatory in the usual complement position in the following sentence. The instances of recapitulation by pronouns in the following examples are identifiable by parenthesized pronouns in the English equivalents:

kúnù mù ń ná'á níè	'it was yesterday that I came here'
níè mù ń ná'á kúnù	'it was here that I came yesterday'
wò'é mù ná'á mié mèé sàṅ	'it was today that I bought this knife'
núú mù ná'á à fè'è	'it was there that I saw him'
Jòndú mù ná'á mànjàǎ fè'è	'it was in Jòndú that I saw the chief'
sànjáǎ 'ò mù ná'á à fè'è	'it was in town that I saw him'
sànjáǎ 'ò mù ń bè táá-nà	'it's into town that I'm going'
kùndáà 'ò mù à'á lóṅ tàà	'it was in an iron pot that she cooked rice'
kùndáà mù à'á lóṅ tàà à 'ò	'it was an iron pot that she cooked rice in (it)'
kò'ó mù à ná'á à 'à	'it was rice that he brought (it)'
(cf.: à ná'á kò'ó 'à, lit. 'he came rice + associative rel. part.', i.e., 'he came with rice')	
ná bhù mù à'á kó'íě fàà	'it was my gun that he killed the
à 'à	leopard with (it)'

múànú mù à bè sò ké-nà mú yè	'it's us that he's working for (us)'
í fǎ mù ǰ wò'ó'à mbè à fò à yè	'it's your father that I want to tell it to (him)'
mànjàǎ mù ànú táá'à à bà'à	'it was the chief that they went to (him)'
mànjàǎ mù ànú kóáí'à à bà'à	'it was the chief that they spoke to (him)'
ǰgá mù à só'à ǰ máì	'it was me that he stood beside (me)'

13.4. There are three types of interrogative subjects. First, the question words /jô/ 'who?' and /mbê/ 'what?' may be used as subjects by themselves. Second /jô/ may be used as the possessor of a noun to form an interrogative phrase; it is followed by /wá/ in this case. Third, a noun may be followed by an interrogative modifier: /kámà/ 'how many?', /míà(nà)/ 'which?', or /lé'ìě míà(nà)/ 'what kind of?'. (The third of these is, of course, only a special instance of the second; /lé'ì/ is a relational noun meaning 'kind'.) Any of these interrogative subjects may be used before the identifier /mù/ to form a complete question. They may also be topicalized according to the pattern outlined in 13.1 above, by adding /wá/ after them. Examples of such interrogative subjects are:

jô mù	'who is it?'
jô wá ná'à	'who came?'
jô wá 'à à mà	'who did it?'
jô wá ì à fò'à à yè	'who's going to tell (it to) him?'
mbê mù	'what is it?'
mbê wá má'à	'what happened?'
mbê wá ì má'à	'what's going to happen?'
mbê wá 'à í mìnnyà	'what frightened you?'
jô wá tá mù	'whose is it?'
jô wá á jà-fêŋ mù	'whose money is it?'
jô wá fǎ wá ná'à	'whose father came?'
jô wá á wù'ú wá 'à í mìnnyà	'whose dog frightened you?'
jô wá á léŋě wá 'à à mà	'whose child did it?'

mò kámà wá ná'á	'how many people came?'
mò kámà wá 'à mú fè'è	'how many people saw us?'
wù'ù míànà wá 'à í mììnyà	'which dog frightened you?'
wù'ù lé'ìě míànà wá 'à í mììnyà	'what kind of dog was it that frightened you?'

13.5. The same question words and phrases may be used as objects. As such, at least in short questions, they may appear in the usual object position, usually followed by /wá/. Very commonly, however, they are topicalized, following the pattern outlined in 13.2 above. Examples of interrogative objects, with the topicalization construction appearing first in each of the following pairs, are:

jô mù yá'á à fè'è	'who did you see (him)?'
- yá'á jô wá fè'è	'you saw who?'
mbê mù à'á à mà	'what did he do (it)?'
- à'á mbê wá mà	'he did what?'
mìè kámà mù à'á à sàṅ	'how many knives did he buy (it)?'
- à'á mìè kámà wá sàṅ	'he bought how many knives?'
mìéě míànà mù à'á à sàṅ	'which knife did he buy (it)?'
- à'á mìéě míànà wá sàṅ	'he bought which knife?'
mìè lé'ìě míànà mù à'á à sàṅ	'what kind of a knife did he buy (it)?'
- à'á mìè lé'ìě míànà wá sàṅ	'he bought what kind of a knife?'

13.6. Four interrogative complements have been recorded. The first is a simple question word, /míá/ 'where?', which may be topicalized following the pattern outlined in 13.3 above, or which may appear in the usual complement position, optionally followed by /wá/. The second is a phrase, /míá bàndà/ 'when?', the first word of which is clearly the same as the question word meaning 'where?'; this has been recorded only as topicalized. The third is a possessive phrase, /mbê wá kó/ 'why?' (lit., 'the matter of what?'); this also has been recorded only as topicalized. Compare possessive phrases with /jô/ 'who?' in 13.4 above. The fourth interrogative complement, /kámà wà'á/ 'how?', has been recorded only in complement position, not topicalized. My notes

do not explicitly exclude the possibility of a topicalized construction, but I have been so conscious of the fact that expressions for 'how?' function differently from all other interrogative expressions throughout the Niger-Congo languages (cf. Welmers 1973, p. 417 ff.) that I am confident that I checked and found the illustration below to be the only possibility. Interrogative complements are thus illustrated by the following:

míá mù à táá'á	'where did he go?'
~ à táá'á míá (wá)	'he went where?'
míá mù à'á kò'ó mènúú sàŋ	'where did he buy that rice?'
míá bàndà mù à ná'á	'when did he come?'
míá bàndà mù íì ná lèndéě nyíá'á	'when are you going to fix my car?'
mbê wá kó mù à'á à mà	'why did he do it?'
à'á à mà kámà wà'á	'how did he do it?'

13.7. In indirect questions (such as 'I don't know who came'), none of the above question words or phrases is used. Each must be replaced by a noun in a relative construction. It should be noted that the phraseology "a noun plus a relative clause" is carefully avoided here, for reasons that will become clear in the development of this description. Relativization will first be introduced in this restricted context of indirect questions, but generalizations of the pattern, and complications in constituent order, will be treated in 13.10-12 below. The essential ingredient in all relative constructions is the use of the relative marker /mú/ after the head noun. It will not be demonstrable from the data in this section, but will become clear in the following sections, that this /mú/ is not a "relative pronoun"; it serves only to signal the presence of a relative construction, of which the preceding noun is the head. The term "antecedent" does not seem appropriate.

Two variables must be taken into account for any relative construction. The first is internal: the function of the head noun within the relative construction itself; it may be subject, possessor, object, or complement. The second is external: the function of the entire relative construction in the sentence as a whole. In indirect questions such as those treated in this and the following two sections, the rela-

tive construction is neither the subject, object, nor complement of the entire sentence. It is rather an appended comment, explanatory of an object pronoun in the preceding full sentence. Each of the examples below begins with /ǰ má à sò/ 'I don't know it', and the appended relative construction specifies what is not known.

First, indirect questions will be treated in which the head noun is the subject of the relative construction, or the possessor of the subject. The question words used in parallel questions (13.4 above), and the corresponding nouns used in indirect questions, are as follows:

jǰ	'who?'	mǎ	'person'
mbê	'what?'	kó	'thing (abstract)'
		féŋ	'thing (material)'
kámà	'how many?'	kí'í	'number'
míà (nà)	'which?'	kè	'the one' (or zero)

In the relative constructions in the following indirect questions, the appropriate noun followed by /mú/ functions exactly like a noun by itself in a non-relative construction. These indirect questions should be compared with the direct questions in 13.4 above:

ǰ má à sò m̀ mú mù	'I don't know who it is'
ǰ má à sò m̀ mú ná' à	'I don't know who came'
ǰ má à sò m̀ mú 'à à mà	'I don't know who did it'
ǰ má à sò kó mú má' à	'I don't know what happened'
ǰ má à sò kó mú ì má' à	'I don't know what'll happen'
ǰ má à sò féŋ mú 'à à kà' ì	'I don't know what broke it'
ǰ má à sò m̀ mú tá mù	'I don't know whose it is'
ǰ má à sò m̀ mú á jà-féŋ mù	'I don't know whose money it is'
ǰ má à sò m̀ mú fǎ wá ná' à	'I don't know whose father came'
ǰ má à sò m̀ mú á wù' ú wá 'à à m̀ ìnyà	'I don't know whose dog frightened him'
ǰ má à sò m̀ kó' í mú 'à mú fè' è	'I don't know how many people saw us'
ǰ má à sò wù' ú (- wù' úě kè) mú 'à à m̀ ìnyà	'I don't know which dog frightened him'
ǰ má à sò wù' ù lé' ì mú 'à à m̀ ìnyà	'I don't know what kind of a dog frightened him'

13.8. Second, indirect questions will be treated in which the head noun is the object in the relative construction. In these appended relative constructions, the object noun followed by /mú/ appears in the usual object position, not preposed. This illustrates the inappropriateness of the term "antecedent." The relative marker /mú/ is incorporated in the relative construction, so that the noun plus /mú/ functions exactly like an object noun by itself in a non-relative construction. The nouns used are the same as those listed in the preceding section, paralleling the same question words. The following indirect questions should be compared with the direct questions in 13.5 above:

ń má à sò à' à mò mú fè' è	'I don't know who he saw'
ń má à sò à' à kó mú mà	'I don't know what he did'
ń má à sò à' à féŋ mú fè' è	'I don't know what he saw'
ń má à sò à' à miè kí' í mú sàŋ	'I don't know how many knives he bought'
ń má à sò à' à miè (~ miéě kè) mú sàŋ	'I don't know which knife he bought'
ń má à sò à' à miè lé' ì mú sàŋ	'I don't know what kind of a knife he bought'

If the head noun is the possessor of another noun, the entire noun phrase may be followed by /wá/ in the usual object position, or it may be topicalized as outlined in 13.2 above:

ń má à sò à' à mò mú á wù' ú wá fè' è	'I don't know whose dog he saw' (I neg. it know he person rel.'s dog. emph. saw)
ń má à sò mò mú á wù' ú mù à' à à fè' è	(same: I neg. it know person rel.'s dog it-is he it saw)

13.9. Third, indirect questions will be considered in which the head noun functions as the complement in the relative construction. The relevant nouns, with corresponding question words and phrases, are:

míá	'where?'	kàà	'place'
kámà wà' à	'how?'	kí' í	'manner'
míá bàndà	'when?'	kàà ... bàndà	'time'
mbê wá kó	'why?'	kó ... wá kó	'reason'

It should be noted that the noun /kí'í/ refers to 'number' when used as subject or object, but to 'manner' when used as a complement; the parallel question forms are also clearly related. In the last two of the above, the words /bàndà/ and /kó/ are, or function as, relational nouns. There is clearly a relationship between the expressions referring to place and time, but the semantic nature of it has not been fully determined. There is other evidence for /bàndà/ meaning 'time' by itself; /kó/ is amply attested in the meaning 'thing (abstract)', from which the idea of 'reason' is an easy step.

In direct questions, as noted in 13.6 above, /míá/ 'where?' may be topicalized, but /kámà wà'á/ 'how?' is attested only in complement position. In indirect questions, the nouns in the parallel relative constructions, followed by /mú/, appear in complement position in both cases. In the relative constructions referring to time and reason, which differ from the above in that the noun followed by /mú/ is the possessor of a following noun, topicalization is found. The following should be compared with the direct questions in 13.6 above:

ń má à sò à táá'á kàà mú	'I don't know where he went'
ń má à sò à'á kò'ó mènúú sàŋ kàà mú	'I don't know where he bought that rice'
ń má à sò à'á à mà kí'í mú	'I don't know how he did it'
ń má à sò kàà mú bàndà mù à ná'á	'I don't know when he came'
ń má à sò kàà mú bàndà mù ài lèndéě nyíà'á	'I don't know when he's going to fix the car'
ń má à sò kó mú wá kó mù à'á à mà	'I don't know why he did it'

13.10. All of the relative constructions illustrated up to this point have been appended comments, independent of the structure of the main part of the sentence. Such relative constructions may also function as the subject, object, or complement within a sentence.<sup>21</sup> If a relative construction functions as subject, the entire construction is followed by a pause, and what follows is itself a complete sentence. If what follows is a copulative or verbal predication, it begins with the appropriate subject pronoun. The relative construction in these

cases is a "suspended topic,"<sup>22</sup> which is then recapitulated by a subject pronoun. One may also include here identificative constructions of a type already described in 9.1 above.

Internally, if the head noun functions as the subject of the relative construction, it is followed by /mú/ in subject position, and the remainder of the construction follows. E.g.,

kàì mú 'à à mà, à bè níè	'the man who did it is here'
mùsù mú wó'ó' à ká'ó mènúú	'the woman who gave birth last
'à, à fàá' à kúnù	month died yesterday'
kàì mú ná' à wò' é, ǵ fǎ mù	'the man who came today is my
	father'

If the head noun functions as the object of the relative construction, there are two possibilities. First, the noun followed by /mú/ may appear in the usual object position, as in the appended comments described in 13.8 above. (This illustrates the unusual pattern of relativization found in other Northern Mande languages also.) Alternatively, the head noun may be preposed, and recapitulated in the usual object position by a pronoun. This is superficially similar to object topicalization (13.2 above), but the preposing of the object in this case serves a different purpose: to place the noun which is the subject of the entire sentence in initial position. E.g.,

ànú' à mò mú fè' è sànjáǎ 'ò,	'the person they saw in town is
à bè níè	here' (they person rel. saw the-
	town's inside, he is here)
mò mú ànú' à à fè' è sànjáǎ	(same: person rel. they him saw
'ò, à bè níè	the town's inside, he is here)
mú' à nyíé mú sàǵ, à tò' í' à	'the fish we bought has spoiled'
	(we fish rel. bought, it is-
	spoiled)
nyíé mú mú' à à sàǵ, à tò' í' à	(same: fish rel. we it bought, ...)

If the head noun functions as the complement of the relative construction, it is preposed in all of the cases recorded. A relational noun in such a complement appears after /mú/. There is no recapitulation. A relational particle, however, appears in the usual complement

position, preceded by a pronoun recapitulating the noun. E.g.,

hĩĩ í bǒ'á Dhùkó'ò, sànjá 'if you start from Monrovia, the  
sénjénà mú íì kě'á Wàkó'ò first town (rel.) you will arrive  
gbú 'ò, à tǒŋ Gbàà at in Cape Mount Co. (, it) is  
called Gbàà'

sànjá mú 'ò ná'á à fè'è, 'the town in which I saw him is  
à tǒŋ Jòndú called Jòndú'

wù'ù mú à ná'á à 'à, à'á 'the dog he brought (came with it)  
ŋ bó'ó kìn bit my hand'

13.11. If a relative construction functions as the object of an entire sentence, it too is preposed in full as a suspended topic, and is recapitulated in the usual object position by the appropriate object pronoun. If the relative construction were to appear in object position, many sentences would end with an impermissible sequence of two verbs. They would also begin with two subjects, each followed by a construction marker in most cases.

In the following, the entire relative construction is an object, but internally the head noun is the subject of the relative construction:

mò mú 'à ná mìéě kǎǎ, 'the person who stole my knife,  
ànú'á à bì'á they caught him'

In the following, the head noun is the object of the relative construction. From the viewpoint of English and many other languages, it is unusual not to find the head noun either in the object position of the entire sentence or initially:

ná'á mìè mú sǎŋ kúnù, 'he stole the knife that I bought  
à'á à kǎǎ yesterday' (I knife rel. bought  
yesterday, he it stole)

ná'á kòòsíì mú bì'á, 'I measured the barracuda that I  
ná'á à sùmà caught' (I barracuda rel. caught,  
I it measured)<sup>23</sup>

One might expect that the head noun in an object relative construction might appear in the usual object position, followed by /mú/, with the rest of the relative construction following the verb. Actually, the following is a legitimate sentence:

ànú' à mò mú bì' à, à' à ná mìéě kǎǎ.

(they person rel. caught, he my knife stole)

It does not, however, mean 'they caught the person who stole my knife,' but rather 'the person whom they caught stole my knife.' This very device may be used for an object relative, however, if another noun followed by /mú/ precedes it in a double relative. In the following, the double relative functions as the object in the full sentence, but it could also function as a subject:

mò mú ' à mìè mú kǎǎ ná' à à 'the person who stole the knife  
sàŋ kúnù, ànú' à à bì' à that I bought yesterday, they  
caught him'

(person rel. CM knife rel. stole I it bought yesterday, ...)

13.12. If a relative construction functions as the complement of an entire sentence, it appears in the usual complement position in all recorded cases, except for some temporal complements as noted below. Within the relative construction, the head noun is preposed and followed by /mú/. If the head noun is the subject of the relative construction, and if a relational noun or particle follows /mú/, the head noun is recapitulated by a subject pronoun. E.g.,

ànú' ànú wá mù ná' à wù' ù mú 'it was they who brought (came  
' à à' à ŋ bó' ó kìŋ with) the dog that (it) bit my  
hand'

If the head noun of the relative construction functions as its object, it is recapitulated by an object pronoun. E.g.,

à' à lóŋ tàà kùndáà mú 'ò 'she cooked rice in the pot that  
ná' à à sàŋ I bought (it)'

If the head noun of the relative construction functions as its complement, and if in the usual complement position the noun would be followed by a relational particle, the particle appears in the usual complement position in the relative construction, preceded by a pronoun recapitulating the noun (cf. 13.10 above). E.g.,

à' à lóŋ tàà kùndáà mú 'ò 'she cooked rice in the pot that  
ŋ ná' à à 'à I brought (came with it)'

Such complement relative constructions are the usual equivalents of English subordinate clauses referring to known time in the past or present, the treatment of which was delayed until this point as indicated in 12.9 above. In the following, the noun /bàndà/ 'time' is used in the relative construction (cf. 13.9 above); unlike the examples above, the entire relative construction is preposed in the sentence in the following, and the head noun of the relative is not preposed in the relative construction itself. It seems likely that this pattern is restricted to relative complements referring to known time. Thus:

à ná'á bàndà mú 'à, ǵ bẹ́            'when he came, I was asleep'  
 kǐ 'ò  
 ná'á à fẹ̀'ẹ̀ bàndà mú 'à,            'when I saw him, he was sick'  
 à kì'á'é mù

In an answer to a question such as 'When did you see him?', /bàndà/ has also been recorded as a relational noun, possessed and preposed, in the following:

à bàndà mú ǵ ná'á            'when I came' (its time rel. I came)

In other complement relatives, the nominal expression for 'time' described in 13.9 above, /kàà ... bàndà/, is commonly used. The free noun /wátí/ (ultimately of Arabic origin) may also be used. Once more, the relative construction appears in the usual complement position in the entire sentence, and its head noun is preposed:

ná'á à fẹ̀'ẹ̀ kàà mú bàndà            'I saw him when I came'  
 ǵ ná'á  
 à ná'á kàà mú bàndà ǵ bẹ́            'he came while I was working'  
 sò ké-nà  
 (~ à ná'á wátí mú ǵ bẹ́ sò ké-nà)  
 àì à má'á kàà mú bàndà mú            'he'll do it while we're eating'  
 bẹ́ féǵ lón-nà

Similar relationships between actions or events are also frequently expressed by sentence parataxis, which will be treated in 14 below.

## CHAPTER 14

# SENTENCE CONJUNCTION

14.1. In the limited time available for work on Vai, no systematic effort was made to discover a variety of ways in which a transition might be made from one sentence to another in connected discourse. No texts were recorded, and little more than the simplest question-answer conversational exchanges. Nevertheless, some significant information came to light in the course of investigating the equivalents of English subordinate clauses in particular. It seems quite possible that what could be added to the patterns described here would consist largely of a list of additional transitional words and phrases, with little by way of unexpected or unusual structural features. A more extensive treatment of discourse is, of course, to be desired. No apology is needed, however, for considering such a treatment beyond the scope of the present grammar.

Perhaps the most significant feature found in sequences of sentences is the extent of the use of simple sentence parataxis. Several instances of this were recorded in the process of eliciting equivalents of English subordinate clauses. As noted in preceding portions of this grammar, Vai has special constructions for a variety of subordinations; in several cases, however, alternate equivalents were offered in which sentence parataxis is used. These include, but are not restricted to, uses of the incompletive construction in the second sentence as a "consecutive" (cf. 11.5 above, where the incompletive can also be interpreted as a sentence complement expressing purpose).

In 12.4 above, equivalents of causal subordinates are described, using the phrases /kpàndá máà/ and /béí máà/ 'because' (lit., 'it is not without reason'). These are themselves essentially paratactic constructions, though they make use of a special conjunctive predication. The same idea can be expressed by simple parataxis in instances like the following; 'because' was used in the English sentence for which

this was given as an equivalent:

ń wò'ó'á mbè tàà kùú 'ò; 'I want to go home; my head aches  
 ń kǔŋě bè ń lún-nà (is hurting me)'

The first of the following was offered as a simple and common alternative of the second:

ń bè sò ké-nà; à ná'á 'I was (/am) working; he came'  
 à ná'á wátí mú ń bè sò ké-nà 'he came while I was working'

Similarly, the following were offered as alternatives; the first illustrates the consecutive use of the incompletive:

í ń kònnò, mbè bàŋ féŋ lóndà 'wait for me, and I (will) finish  
 eating'  
 í ń kònnò, àì tò (à 'ò) mbè 'wait for me until I finish eating'  
 bàŋ féŋ lóndà (cf. 12.7 above)

Parataxis is also used to express comparison, as in the following:

kéŋ mèé kò'ò; à bě'á kènú 'à 'this house is large; it surpasses  
 the other one' (i.e., 'this house  
 is larger than that one')

The significance of the foregoing lies in the fact that even the little data recorded, along with other similar alternatives that were heard but not transcribed, are sufficient to show that Vai makes use of sentence parataxis considerably more than most other languages, including other Mande languages, with which I have worked. In many other languages, consecutivization (at best a special type of parataxis) is commonly used where Vai simply strings repeated instances of the same construction one after another. This will become even more evident in the following section.

14.2. As is almost universally true in Niger-Congo languages, a conjunction which joins nouns (/bɛ/ in the case of Vai) cannot be used to join verbs or sentences. Vai does, however, have a sentence conjunction, /ámù/, which seems primarily to convey the idea of 'and then, and so'. It is likely that this is a form of, or is derived from, the identificative predication /à wá mù/ 'it is it' (referring to the previous predication) (also 'it is he, it is she' in other contexts, but personal

reference is excluded in this case).<sup>24</sup> If so, its very use constitutes parataxis at least in the underlying structure. In many instances comparable to those illustrated below, /ámù/ was explicitly said to be optional. After a future, an incompletive construction is used, which suggests consecutivization. Examples of the largely optional use of /ámù/ are as follows:

mù táá'á kùú 'ò; (ámù)	'we went home and cooked rice'
mú'á lóŋ tàà	
mbè táá'á kùú 'ò; (ámù)	'I'm going to go home and (in due
mbè lóŋ tàà	course) cook rice' (without /ámù/, this would more likely be inter- preted as expressing purpose)
ná gbòòě 'à kpà'á wí kínéí;	'my farm had just gotten dry, and
ámù sònáă kě'a	the rain came'

The appropriateness of simple parataxis, and the optionality of the conjunctive /ámù/, are vividly demonstrated by a conversation (in English) with Fr. Kandakai after we had heard a little of a Vai news broadcast on a car radio. He mentioned that the particular announcer we had been listening to was well known for his sprinkling /ámù, ámu, ámu/ liberally through his news reports, when in most cases it was unnecessary; the effect was clearly considered rather amusing. Apparently /ámù/ functions for some people as a sort of hesitation form, though there are undoubtedly some cases in which it is meaningful and stylistically desirable.

14.3. A sentence giving contradictory information, or expressing a reservation, is introduced by /ké'é/ 'but'. E.g.,

ŋ wò'ó'á mbè tàà kùú 'ò,	'I want to go home, but he begged
ké'é à'á ŋ bhòò mbè tò níè	me to stay here'
ŋ fǎ táá'á kùú 'ò, ké'é	'my father went home, but I stayed
ŋgá tǒ'á níè	here'

14.4. A change of subject may be marked by the form /pé'é/ (see 6.10 above) after the expression for the new subject. Since /pé'é/ in other uses means 'also', the basic idea conveyed seems to be that of new information. English equivalents may include 'and', 'but', 'in

turn', 'however', 'on the other hand'. There may well be another form with a similar usage, but this is the only one recorded (with no special effort to elicit anything of the sort). E.g.,

ń ńgǎǎ, kò'á lée'-mòò mù.	'My older brother is a weaver.
ń nyòmó pé'ée, kò'á só'ó-mòò mù.	My younger brother, on the other hand, is a tailor.'

14.5. The relational noun phrase /à káǎǎ'ò/ 'after it, afterwards' (which also, strangely, means 'his throat') may be used to introduce a sentence referring to a later event, in the past or future. E.g.,

ń táá'á kà'á kó'ò sǎǎ tǎǎ fè'á. à káǎǎ'ò, ń ná'á Dhùkó'ò mbè sǎ kè.	'I attended school for twelve years. After that, I came to Monrovia to work.'
ń wò'ó'á mbè bàǎ sǎ mée kè sínà. à káǎǎ'ò, mbè yá lèndéě nyíá'á.	'I want to finish this job tomorrow. After that, I'll fix your car.'

There are undoubtedly other conjunctive phrases, as suggested in 14.1 above, that are used in a similar way to express ideas like 'therefore', 'at the same time', 'in that way', possibly 'in spite of that', and so on. Although such expressions are likely to be phrases rather than single words, they may well be more appropriate to a lexicon than to a grammar, as indeed /à káǎǎ'ò/ would appear to be. They also impinge on the category of adverbs, treated in 15 below.

## CHAPTER 15

# ADVERBIALS AND IDEOPHONES

15.1. A number of words and phrases with an adverbial function have appeared throughout this grammar, but for the most part they have not been systematically treated. Nor is there any particular reason why special attention should have been given to them before this. Except for what has already been noted about them (especially in 6.7,8 above and in the discussion of topicalization and relativization, 13), they present no special syntactic problem, and can pretty much be taken for granted. At the same time, they constitute a basic constituent in Vai sentences, and as such deserve to be separately recognized and described. In a very few cases, the grammatical classification of a word is problematic apart from an effort to define adverbs.

It would appear that adverbials, including single words and nominal phrases, can be satisfactorily defined as anything that may appear after the verb in a sentence. Some such words and phrases may also have a non-adverbial function elsewhere in a sentence, and may even be topicalized as adverbials. The possibility of appearing in post-verbal position, however, seems to be diagnostic for identifying a word or phrase as adverbial.

In connection with identifying certain morphemes as relational nouns or relational particles, 6.7,8 above, an exceedingly common type of adverbial complement was described and illustrated. It is appropriate to review those here from the viewpoint of their meaning and function, rather than from the viewpoint of their internal composition. First, a great many of them are locative, of which the following are a few illustrations:

à sǐí' à sěŋě mà	'he sat down on the rock'
à' à kpò' óě sǐì kǎǎ kùmà	'he put the book on the box'
ànú bè féŋ lóndà kéŋě 'ò	'they're eating in the house'

à só' à ànú t'é	'he stood up between them'
à nùú' à kǒŋě kpáà' ɔ̀	'he hid behind the tree'
kà' áǎ bè sěŋě kó' ɔ̀	'the snake is under the rock'
à sìí' à ŋ j á' à	'he sat down in front of me'
ànú táá' à mánjáǎ bà' à	'they went to the chief'
sò ŋ máì	'stand beside me'

The meaning of the relational particle /yè/ is at best only marginally locative. It has an applicative meaning, indicating the person to whom something is said or for whom something is done. E.g.,

à' à à fò mú yè	'he told (it to) us'
à bè sò ké-nà mú yè	'he's working for us'

Phrases with the relational particle /'à/ express a variety of relationships to the preceding verb, which may be subsumed under the heading "association." These include instrument, accompaniment, material, and personal involvement (as with a disease or disability). Also included here, and not mentioned in 6.7 above, are phrases with nouns which express a manner of doing something; there are undoubtedly many more than the two included in the following illustrations:

à' à sùéě tìè mìé ' à	'he cut the meat with a knife'
à ná' à kò' ɔ̀ ' à	'he brought (came with) rice'
à' à à nyià kǒŋ ' à	'he made it out of wood'
bòmbò bè à' à	'he has smallpox'
à' à sǒ kè gànàà ' à	'he worked with all his strength'
à' à à mà s'émbé ' à	'he did it well'

To these may now be added some adverbial complement phrases with temporal meaning, but with the same structure. The relational noun /'ɔ̀/ 'inside' and the relational particle /'à/ expressing association are attested in such phrases. E.g.,

à ná' à lìfí ' ɔ̀	'he came during the night'
àì sǒ kè t'é' é ' ɔ̀	'he works during the day'
mbè à má' à sààmà ' ɔ̀	'I'll do it in the morning'
ná' à à f'è' è j'è' ìmàǎ ' à	'I saw him this evening'
mbè táá' à nùú ká' ó mènúú ' à	'I'm going to go there next month'
ŋ ná' à níè ká' ó mènúú ' à	'I came here last month'

In the fourth of the above examples, the definite suffix in the form /jè'ìmàă/ suggests 'this'; the time is the cool of the day, from about 4 P.M. until dark. In the last two examples, the phrase /ká'ó mènúú/ is literally 'that month'; it refers to the month adjacent to 'this month', which may be either 'next month' or 'last month' depending on the temporal reference of the rest of the sentence.

15.2. A number of single words, or phrases of other types, are also used as adverbials, both locative and temporal. Some of these function also as nouns, though usages of them as subject or object may be rare; they may, however, be topicalized. The first category of these that may be mentioned is place names, such as /Dhùkó'ò/ 'Monrovia', /Wàkó'ò/ 'Robertsport', /Sèṅkó'ò/ 'Sinkor' ('behind the rock', a suburb of Monrovia), /Jòndú/, /Gbàà/. Further illustrations of the use of these do not seem necessary.

The locative words /níɛ/ 'here' and /núú/ 'there' seem to be similar to place names in their usage. The latter of these has, however, been recorded in some usages with a short vowel, /nú/. Fr. Kandakai recognizes the distinction in vowel length, but the conditions under which the alternate forms are used have not been isolated. In at least some cases, apparently either form is acceptable.

The word /pó'óŋ/ 'far away' has been recorded only as an adverbial, in /à táá'à pó'óŋ/ 'he has gone far away.' Perhaps too hastily, it was listed as an equivalent of /kpóŋ/; the latter, however, was recorded only as an attributive in the phrase /kàŋ kpóŋ/ 'a distant place'. In any case, apparently neither can be used as a noun, or topicalized.

15.3. A number of single words and regular compounds function as temporal adverbials. At least the following may also function as nouns and may be topicalized:

wò'é	'today'	sínà	'tomorrow'
kúnù	'yesterday'	kó-sàŋ	'last year'
kúnù-kò'ò	'day before yesterday'		

Any of the foregoing, and also the following, may be used in sentence-initial position as a suspended topic. The following, however, are not used as nouns and are not topicalized:

sàánà	'soon'
sóó bǒǒ	'some day, some time'
só bǒǒ	'perhaps'

The last two of the above are of particular interest in the light of some other Liberian languages and of many forms of tribal English. Some languages use a single phrase, literally meaning 'some day', to express both 'sometime' and 'perhaps'. It is common to hear, in English, 'sometimes' with the same two meanings. The two expressions above are presumably related, but are distinguished in pronunciation.

In still a different category are a few adverbs that may be used only in post-verbal position. Sequences of some of these are also found. First, /wè/ 'now, right away' has been recorded only by itself:

í ì mà wè 'do it right away'

Second, /wí/, referring to prior action, has been recorded by itself and also followed by another adverb, /kínéí/, which seems to emphasize the immediacy of the prior action:

ná gbòòě 'à kpà' à wí 'my farm had (already) gotten dry'  
 ná gbòòě 'à kpà' à wí kínéí 'my farm had just gotten dry'

Third, /wé/ 'yet' (after a negative) or /nì/ 'long ago' may be used alone. The sequence /wé nì/ means 'ever' after a negative. Another morpheme, /gbà/, may perhaps be used by itself with some similar meaning, but it has been recorded only after /wé/ and /wé nì/. These are illustrated in the following:

à má kùnè wé 'he hasn't waked up yet'  
 à táá' à nì núú 'he went there long ago'  
 ń má à mà wé gbà 'I haven't done it yet'  
 (with the implication 'since the current opportunity arose',  
 though I may have done it on earlier occasions)  
 ń má à mà wé nì (gbà) 'I haven't ever done it'

The above expressions were recorded, for the most part, incidentally to other aspects of elicitation, and were reviewed only briefly. It is most likely that the above description could be profitably expanded and refined, but there do not appear to be any unusual complications lurking in the shadows.

15.4. Duration of time is expressed by an appropriate phrase referring to a length of time or a number of periods of time, in adverbial position. E.g., the final two-word phrase in each of the following:

sònáǎ tǒ'ǎ kè-náǎ	'it kept on raining all night'
lìfí gbù'ù	
ǎ'ǎ sǒ kè té'é kpè'èŋ	'he worked all day'
ǎ tǒ'ǎ núú ká'ó sàkpá	'he stayed there for three months'

The different modifiers meaning 'all' for 'night' and 'day' appear to be unique to these phrases.

15.5. Numerical frequentatives ('once', 'twice', etc.) consist of a numeral by itself in adverbial position. Two other adverbs may be included here: /'ó/ 'again, (not) any more', and /kpón/ 'often'. E.g.,

ǎ'ǎ à mà lǒndó	'he did it once'
ná'ǎ à fè'è fè'á wò'é	'I saw him twice today'
í ò mà 'ó	'do it again'
í má à mà 'ó	'don't do it again, don't do it any more'
ǎ wé'è à mà 'ó	'he doesn't do it any more'
ǎ'ǎ à mà kpón	'he did it often'

15.6. Adverbs of manner and ideophones can most conveniently be treated together, although the categories are not coextensive. By way of introduction to these forms, it should be noted that, in the rather artificial process of learning as much as one can about a language within a few weeks or months, it is virtually impossible to accumulate a large amount of data in the relevant semantic areas. Even seemingly elementary distinctions in the manner in which an action is performed may be rather subtle, and do not lend themselves to elicitation. Is something done, for example, merely 'quickly', or 'suddenly' (which adds the element of unexpectedness)?<sup>25</sup> Probably in most languages of the world, and certainly in most languages of Africa, expressions of manner tend to be worded rather prosaically in the context of elicitation and language learning; but in the drama of everyday conversation, narrative, or argument, subtle distinctions and vivid ideophonic expressions are commonplace. In spite of the restricted Vai data available, however, the outlines of some patterns seem to be visible, and are

very much worth pointing out.

First, some forms used as descriptive adverbs can safely be classed as ideophones on phonologic grounds. These are forms which consist of a consonant followed by a vowel which is, at least optionally, abnormally prolonged, with low tone. Such prolongation is indicated here by triple writing of the vowel symbol (cf. 2.2 above). One such ideophonic adverb was not actually recorded in a sentence, but came into a conversation in connection with the word for 'gun', /bhù/; the sound of a gun or a cannon is represented by the form /dhùùù/, which is undoubtedly used in sentences like other comparable forms. The forms recorded in sentences are:

còòò : descriptive of liquid pouring in a single stream

wààà : descriptive of rain falling in a brief shower

wùùù : descriptive of movement in mass or in confusion

These are illustrated in the following:

à bè s'í k'é-nà còòò	'he is urinating, "còòò"
sóná 'à k'è wààà	'there was a brief shower'
ànú ná'à wùùù	'they came in droves'
à lóndà wùùù	'he rushed in precipitously'

Two other recorded forms seem rather similar, though they were not transcribed with abnormally long vowels. One is /bòlì/ 'slowly and carefully, which was heard after a predication of the type /à bè tááyé-nà/ 'he is walking'. The other, cited in a sentence that was otherwise English, is /vààì/ (which I believe I recall hearing as /vàààì/, descriptive of (at least among other things) soldiers advancing fearlessly and inexorably. (This form has been cited as just possibly being the origin of the name /Váí/, with reference to the original movement of the ancestors of the present Vai people to the coast. The two words, of course, differ in both vowel length and tone; if they happen to be written the same in the syllabic writing system, that fact is of course irrelevant.)

Another category of forms that may be classed as ideophones are apparently not used as adverbs. They are rather qualificatives, recorded only predicatively in copulative predications (see 9.2 above, where these are illustrated). These forms are reduplications, with each half



a classification. Certainly the form /wéé/, prosaically defined as 'with determination', is much more graphic than that translation suggests when used after an imperative construction such as /í ì mà/ 'do it'; /í ì mà wéé/ corresponds more closely to 'Give it all you've got!' Other forms, all recorded in the context of 'walk', are:

lèè - lèèlèè	'quietly'
tóókée	'quietly'
táámáá	'slowly and quietly'

One form is recorded both as a qualificative in a copulative predication, and adverbially. This is /gbà/ 'different, in a different or strange way'. In addition, one form is recorded as a qualificative attributive and also adverbially: /bé'èná/ 'good, well'.

15.7. A handful of adverbs was recorded which do not appear to fall into any of the categories described above, and which are here listed as miscellany. These are:

kíníí : 'just, barely' (illustrated in another context in 15.3)

lèŋ - lèŋ-lèŋ : 'a little bit, for a little while':

í ŋ kòŋò lèŋ(-lèŋ) 'wait for me just a moment'

gbóŋ : 'very much':

à kè'è bè ndà gbóŋ 'I want it very badly'

wákè : 'necessarily':

mùì tàà wákè 'we simply have to go'

Three forms with meanings in the general range of 'only' are recorded only after nouns. They do not, however, appear to be noun modifiers like qualificative attributives or numerals, because a noun with low-high tones before one of these does not have the tonal alternant low-low. It also seems likely that these forms have other uses, and they are therefore included here:

bábáí : àá mǎ bábáí mè 'these are all (only, nothing but) his people'

'ó : sé'èŋ tãŋ 'ó bè ŋ bò'ò 'I have only two dollars'

'óbéndó : à'à kò'ó 'óbéndó 'he bought nothing but rice'  
sàŋ

The last two of these forms are clearly related; /'óbéndó/ is said to be simply more emphatic than /'ó/ by itself.

15.8. Three other forms may be described here, which are adverbial in a sense, but which may perhaps better be called sentence-final particles. The first of these is /wóé/ ([wéé]), which expresses courtesy, concern, urgency, or warning, all of which find their expression in intonation in English. E.g.,

jè'ìmà wóé	'Goodnight!'
í kò'ò wóé	'I'm so sorry!'
mú bè ná-nà wóé	'We're coming!'

The second of the above is typical of languages of Liberia and neighboring areas. The imperative /í kò'ò/ literally means 'Stop!'; the entire expression is a tender exhortation to stop one's wincing, crying, or grieving. It may be used in any circumstance from one's stubbing a toe to one's losing a loved one by death. Unfortunately, the prevalent English expression corresponding to such genuinely concerned expressions in Liberian languages often sounds brutally callous to a newcomer: "Never mind, yah?"

A second particle with very much the same range of meaning is less common, perhaps archaic, but perhaps also more emphatic in some contexts. It is /héé/, recorded in:

í ì mà wè héé	'Do it right now!'
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This form also appears very commonly in archaic writings using the Vai syllabary, preceding the word /dhă/ 'friend'. Toward the beginning of a letter, practically every expression of greeting, well-wishing, and tidbits of news may be followed by /héé dhă/.

A third sentence-final particle is particularly common after the expression /í sèè/ (pl. /wó sèè/), which includes among other meanings the ideas 'Congratulations!' and 'Thank you!' (see 16 below). The particle is the syllable /ká/ repeated from two to four or more times. In the appropriate context, the translation given here would be proper:

í sèè kákákáká	'Thank you so very much!'
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## CHAPTER 16

# SOME GREETINGS AND AMENITIES

16.1. The material included here has relatively little to do with the linguistic structure of Vai from a narrowly scientific point of view. It is significant, however, in that it illustrates, perhaps more adequately than almost any of the data included in earlier portions of this grammar, the relationship between language and real life in the Vai community. In addition, many of the expressions cited here have close parallels in neighboring languages, including languages only very distantly related to Vai; some expressions are typical of languages throughout West Africa. Perhaps the inclusion of this material will make some of the seemingly sterile allusions earlier in this grammar to buying rice, stealing knives, and seeing someone in Jòndú appear a bit more realistic.

The following is a typical exchange of greetings in the morning, between two people who know each other. The second participant (B) addresses the first (A) by name. The English equivalents are or include as literal translations as possible.

- |                              |                                    |
|------------------------------|------------------------------------|
| A. yá kùnè éé?               | 'Have you awakened?'               |
| B. ɛ̃ɛ. Kòŋ-kál, yá kùnè éé? | 'Yes. Kòŋ-kál, have you awakened?' |
| A. ɛ̃ɛ.                      | 'Yes.'                             |
| B. í kǐ'á kámà.              | 'How did you sleep?'               |
| A. kàsé bé'è Kàmbá máì.      | 'There's no fault with God.'       |
| ŋ kǐ'á bé'èná.               | I slept well.'                     |

The following is a typical exchange later in the day; A has arrived from somewhere else at B's home, farm, or place of work.

- |                        |                               |
|------------------------|-------------------------------|
| A. í bè nú?            | 'Are you there?'              |
| B. ɛ̃ɛ. Mòmó'ù, yá nà? | 'Yes. Mòmó'ù, have you come?' |
| A. ɛ̃ɛ.                | 'Yes.'                        |
| B. mbê-kò bè níè?      | 'What news is there here?'    |

- A. kàsé bé'è Kàmbá máì. 'There's no fault with God.'
- B. yá mùsú bè nú? 'Is your wife there?'
- A. ěě. à bè nú. 'Yes, she's there.'
- B. à kpò'ó 'bè (bè kámà). 'The inside of her skin (is how?)'  
(i.e., 'how is she?')
- A. kàsé bé'è Kàmbá máì. 'There's no fault with God.'

Asking merely whether someone is 'there' is a genuine expression of concern, comparable to our asking 'How are you?' or 'How's your wife?'. This may be followed by an inquiry as to how one is, but to make such an inquiry as the first reference to a person is not very courteous; it has something of the implication that the inquirer expects the other person to be sick.

Asking about 'news' always implies bad news. The Vai response suggests that if there is any bad news, it is not God's fault. (In many other languages, the response is 'there is no news here', even though there may be a lot of good news, or 'there is no bad news here'. Absolving God of blame is, however, a more widespread response to a question about one's health.) Instead of the Vai question /mbê-kò bè níě/ cited above, one may ask /mbê-kò tè'é'à níě/ 'What has transpired here?' With a personal subject, the verb /<sup>R</sup>tè'é/ means 'spend the day'. The noun /kó/ in the compound /mbê-kò/ is not specifically 'news', but 'thing (immaterial)', something that can happen.

16.2. If a speaker does not know the name of someone who greets him, or if he feels it inappropriate to use the personal name (as might be true in speaking to an elder), terms of address like the following are available:

- ń fǎ 'my father' (to an older man)
- ń bǎ 'my mother' (to an older woman)
- ná léŋ 'my child' (to someone considerably younger)
- ń líámó 'my friend' (to a peer or someone somewhat younger)
- ń dhǎ 'my good friend' (to a peer or someone somewhat younger, somewhat more intimate than the preceding, and used mostly by older people)

Similarly, of course, one may inquire about any member of someone's family, or about someone else by name. Some of the terms that may be

substituted for /yá mùsú/ 'your wife' in exchanges such as that given above are:

yá kàí	'your husband'	yá léŋ	'your child'
í fǎ	'your father'	yá léŋ nú	'your children'
í bâ	'your mother'	í nyòmó	'your brother/sister'

16.3. An expression of leave-taking, addressed to one person, is /í kàfáí/ 'Excuse me'; to more than person, the corresponding expression is /wó kàfáí/. Another expression that may be used is /ná'à tàà/, literally 'I have gone.' To any of these, the response is /èè/.

An evening farewell exchange may be as follows:

- A. jè'ìlà wóé. ~ í jè'ìlà. '(Good) evening.'
- B. èè. í jè'ìlà. 'Yes, good evening to you.'
- A. Kàmbá ì mú kì bé'è. 'May God let us sleep well.'
- B. èè. 'Yes.'

The causative transitive usage of the verb /<sup>R</sup>kí/ 'sleep' in the above is unusual.

16.4. A few other amenities are worthy of note. If someone accidentally bumps into another person, or otherwise causes him minor discomfort or inconvenience, the offender says /í lí mù/. We might say 'it was my fault' in English; the Vai expression means essentially 'it is your innocence.' A common equivalent would, of course, be 'Sorry!'

An expression of condolence which might also be translated as 'Sorry!', however, is /í kò'ò wóé/; see 15.8 above.

The expression /í sèè/ (also noted in 15.8 above; it is /wó sèè/ to more than one person) is paralleled by phonetically similar expressions in many other Liberian languages. The standard equivalent in Liberian tribal English is 'Thank you!' This has given rise to unfortunate misunderstandings among expatriates, who often get the impression at first that they are being thanked for coming to a place, for working, when a child is born, and on other occasions. Actually, the range of meaning can perhaps best be summed up by the colloquial English 'Nice going!' The expression is used for welcome and congratulations, and in the case of Vai only marginally to express gratitude. The response is /èè/.

Gratitude is more explicitly expressed by /í bá'íkà/ to one person,

or /wó bá'íkà/ to more than one. The pronoun may optionally be omitted, and /bá'íkà/ may then be repeated, usually only once: /bá'íkà, bá'íkà/. (The form is ultimately of Arabic origin, and has spread into a great many West African languages.) Again the response is /ɛ̃ɛ̃/, which is not so much specifically 'yes' as merely an acknowledgement of something pleasant that has been said.

In conclusion:

ŋ kùŋ váí-wò'ò fós'à lèn-lèn 'I can speak Vai just a little'

# NOTES

<sup>1</sup>P. E. H. Hair (1968) cites the 1963 Sierra Leone census for the figure "about 8,000." His estimate of "probably about 50,000 in Liberia" is hardly to be preferred over the 1962 Liberian census figure, 28,898 (Bureau of Statistics, Office of National Planning, 1964).

<sup>2</sup>Since the beginning of its history as a separate language, Vai appears to have undergone a remarkable modification of its consonant system as a result of acquiring foreign lexical items. Neither the nature nor the amount of this acquisition is particularly unusual, but only the extent to which foreign sounds were recognized and retained. Vai cannot otherwise be said to have been strongly "influenced" or in any sense "hybridized" by other languages; even the phonological modification is relatively superficial and, of course, does not make Vai any less a Northern Mande language. Although innovations in the Vai consonant phonology appear in general to post-date the separation of Vai and Kono, there must surely have been earlier shared lexical acquisitions. My estimate of the time depth of the separation of Vai-Kono from Manderkan is not in the order of 500 years, a figure erroneously and mysteriously attributed to me by Hair (1968), but more like 1700 years.

<sup>3</sup>Klingenheben left a file of some 3,500 vocabulary cards, about 1,500 Vai-German and 2,000 German-Vai, which are said to include tone marking. Desirable as it might be to examine and possibly to publish an edited version of that file, it has proven simpler, in the course of the present study, to compile a Vai-English file of comparable dimensions which, with an English-Vai counterpart, is being prepared for separate publication.

<sup>4</sup>In his High School days in the early 1930's, Fr. Kandakai was a student of the late Richard W. Heydorn, whom he remembers rather fondly. His judgment of Heydorn's Vai pronunciation at the time is less than favorable, but he recalls Heydorn's delight and persistence in ferreting out obscure lexical items.

<sup>5</sup>Verb stems such as /<sup>R</sup>wú'ì/ are not actual citation forms, but are the appropriate forms for lexical entries; "<sup>R</sup>" may be thought of as referring to "root." Most verb stems tend to be cited with low tone throughout, reflecting the grammatical tone of the imperative. Contrastive lexical tones with verb stems appear regularly only before certain suffixes, as in the future. Writing these lexical tones but preposing the "<sup>R</sup>" thus provides the tonal information that is needed, yet serves as a consistent reminder that such forms may be cited with other tones by applying regular rules. In the forms cited here and throughout this study, an intervocalic apostrophe indicates the optional inclusion or omission of an intervocalic [l], discussed in 1.8.

<sup>6</sup>Evidence from Vai syllabic writing (provided by Mrs. Gail Stewart, personal communication) tends to confirm the conclusions drawn here. Prior to 1900, nasal-oral sequences were not distinguished from oral stops in the syllabary. There are now special symbols for nasal-oral sequences followed by vowels: /mba, mbe, nda, ŋge/ etc.; but there is considerable inconsistency in the transcription of these sequences. A form such as /bàngú'ù/, cited above, may be written alternatively with the symbols for *ba-ŋgu-lu*, *ba-ŋ-gu-lu*, *ba-ŋ-ŋgu-lu*. There is no consistent correlation with the identification of a particular form as a single morpheme or a compound.

<sup>7</sup>This may actually go to the ludicrous extreme represented by the following entirely conceivable exchange between a learner and a native speaker of Vai (assuming that the learner imitates accurately, and with no reflection on the attentiveness or integrity of the language helper):

Learner: What do you call a 'road'?

Helper: [kíâ].

Learner: [kíâ]. Is that right?

Helper: That's right: [kílà].

Learner: Oh, I didn't notice that [l]. It's [kílà].

Helper: That's right: [kíâ].

In principle, there is nothing particularly unusual about this, but it is admittedly much more conspicuous in Vai than it appears to be in most other languages.

<sup>8</sup>I am deeply indebted to Mrs. Gail Stewart, the outstanding authority on the Vai syllabary, for her having pointed out to me this most significant detail in the phonology of Vai. Since Fr. Kandakai commonly uses [l] for initial /l/, I would not otherwise have been aware of the potential contrast. This highly restricted occurrence of morpheme-initial [l] contrasting with what is here interpreted as /l/ may seem unusual, but it is fully confirmed in Kono, in which the inherited PNM \*l has completely (and apparently quite independently) disappeared, so that cognates of two of the most common Vai morphemes in question appear as mere vowels, /ò/ 'inside' and /à/ (associative).

<sup>9</sup>The rationale for Koelle's use of r is not entirely clear. If the sound was indeed a lateral resonant in his day, his presumably German-accented English (for which there are other evidences) hardly seems to justify a transcription other than l. Perhaps over-eagerly, Fr. Kandakai reports recalling old people, in his childhood, pronouncing such words with an alveolar tap; his competence in this respect is not in question, since he is acquainted with "Mandingo" (i.e., Mandekan, and especially Maninka) pronunciations of Vai, which would understandably use [r] for [l]. On the other hand, other early transcriptions of some Vai vocabulary use l. In any case, the sound was apparently [l] by the time it began to disappear. And one can hardly resist citing, in connection with the fate of the Vai intervocalic lateral, the words of Edna St. Vincent Millay after her beloved mother's death (and called to my attention by Mrs. Gail Stewart), "The presence of that absence is everywhere!"

<sup>10</sup>As noted previously, the Vai syllabary had no special symbols for nasal-oral sequences followed by vowels until 1900. The relevant phonemic contrasts, however restricted, had probably arisen well before that time, and (typically) were recognized a little belatedly. It may also be noted that Klingenberg (1926?) includes not only the symbols for such sequences, but also symbols that had apparently been invented solely for the transcription of English words with initial consonants such as [š] and [θ], which I have not recorded even in recently acquired Vai words. The fact remains that developments in the syllabary reflect some valid native reactions to historical developments in Vai phonology.

<sup>11</sup>In very recent years, it seems that the majority of African languages that have been investigated for the first time happen to have terraced-level tone systems. One may, indeed, get the impression that earlier investigators frequently overlooked "downdrift," to say nothing of "downstep" (cf. Welmers 1973, p. 93). Actually, it is only an accident of history that many of the languages for which earlier responsible tonal analyses are available happened to have discrete-level systems, while many of those more recently studied happen to have terraced-level systems. The pitch sequences in the illustrative sentences in this chapter are in stunning contrast with comparable sentences in a terraced-level language. Less than two weeks before these sentences were transcribed, some sentences were heard and transcribed in Kisi, with about the same number of low tones preceding high tones. In Kisi, each high tone after a low was at least one musical step lower than the last high tone before it. The tones of Vai are a reminder that one should not assume that downdrift is the norm in tone languages. It is not likely, to be sure, that anyone speaks in such a mechanical way that every high tone in a sentence has precisely the same frequency; the phrase applied to Vai here, *no appreciable downdrift,*' was deliberately so worded. The fact remains that the pitches of alternating low and high tones in Vai are vastly different from those in actual terraced-level languages such as Kisi, Igbo, or Efik -- or, as discovered more recently, Kono!

<sup>12</sup>The Vai syllabary has a single symbol for this syllabic nasal and for the word-final nasal, irrespective of its phonetic realization. In his efforts to write in an alphabetic transcription, F. Kandakai, who has had some training in phonetics, very commonly wrote  $\eta$  irrespective of the following consonant, before this orthographic convention was decided on. While this may in part reflect his acquaintance with the syllabary, it is also true that, for speakers of Vai who are literate in English,  $\eta$  is a "new" or "unusual" symbol, and is admirably suited to being used for a syllabic nasal unspecified as to articulatory position. In fact, even word-final  $/\eta/$  is obligatorily specified as velar only if no consonant follows.

<sup>13</sup>It must not be taken for granted that citation forms have declarative intonation. In some other Mande languages (Mano, for example),

citation forms are normally given in interrogative intonation.

<sup>14</sup>It did not seem particularly meritorious to devote time in Liberia, or space here, to the equivalents of such improbable curiosities as 'those two big old white broken-down wooden houses of theirs.'

<sup>15</sup>The word "soup" as commonly used in Liberia, as the equivalent of some word in every indigenous language, refers to any preparation served on or with rice, most commonly using palm oil. The Vai people seem to have a particular fondness for "slimy" preparations containing okra, sweet potato greens, the scrapings of the inside of cocoa pods, or other ingredients giving the same effect. Americans may dislike the consistency, but *de gustibus non disputandum est*.

<sup>16</sup>This usage comes as close as anything in Vai to warrant the use of the term "aorist." Heydorn (1971 [1934]) applies the term to this construction, but unfortunately also to identificative and copulative predications which are not verbal at all (cf. 9 above); he further compounds the confusion by referring to the identificative particle and the copula in terms of "the verb 'to be.'"

<sup>17</sup>A closely similar construction is used in Kpelle, in which the verb meaning 'stay, continue' is even more obviously involved.

<sup>18</sup>I am quite aware that a number of linguists are currently using the word "focus" for what has often been, and is here, called "topicalization," and apply the latter term to a somewhat different grammatical phenomenon. I prefer to reserve the word "focus" for a still different phenomenon found in the syntax of Malayo-Polynesian languages, for which I believe I was the first to suggest the term (which has been used in publications) in an oral discussion of Ilocano syntax about 1952.

<sup>19</sup>Perhaps this is a good place to register a personal protest against the linguistic chauvinism of the ridiculous label "WH questions." The term is, of course, based on the spelling of most question words in English orthography, although most of them are pronounced with initial /hw/ or /w/, depending on one's dialect, and some with initial /h/. I consider completely unjustifiable and utterly reprehensible the implicit assumption that linguistics can be discussed only in English.

In spoken English, moreover, "WH" takes longer to say than "question word!" The abbreviation fad could be promoted even better by acknowledging the existence of at least a few other languages and using "Q."

<sup>20</sup>This is somewhat different from the situation in Kpelle (a South-western Mande language), in which all topicalized complements are recapitulated by an appropriate form with a neutral meaning (see Welmers 1973, pp. 318-21).

<sup>21</sup>It is possible that a relative construction may also function as a possessor, but no effort was made to elicit equivalents of expressions like 'the dog belonging to the man who came' (the man who came's dog?).

<sup>22</sup>This, roughly the equivalent of something like 'as for the man who did it, ...', is what is sometimes referred to as topicalization. Having reserved the term "focus" for a Malayo-Polynesian phenomenon (note 18 above), and having used "topicalization" as described in 13.1-3, I clearly need another term here, and find "suspended topic" adequate.

<sup>23</sup>The verb /<sup>R</sup>súma/ might also be translated 'weigh', but that meaning would be inappropriate in this case, since no scale was available. The finny (and toothy) friend was 46" long, and delicious.

<sup>24</sup>An exactly comparable phrase in Kpelle, /<sup>h</sup>ya Bé/, the third person singular independent pronoun followed by the identifier, has the same function.

<sup>25</sup>A fried chicken emporium in Monrovia displays the delightful, if improbable, motto: "SUDDEN SERVICE!"

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