A DESCRIPTION OF DII

PHONOLOGY, GRAMMAR, and DISCOURSE

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2010

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LIST OF ABBREVIATIONS AND SYMBOLS

[]	phonetic brackets
$\langle / / / / / / / / / 0 \rangle$ > or \rightarrow	or phoneme indicator, or morpheme title indicator morphophoneme indicator (or simply a capital letter) zero allomorph, morpheme; = systematic <u>absence</u> of a form high tone low tone becomes, is realized as
-	 joins two or more English words used to translate a single Dii wordor: separates parts of Dii words to facilitate use of solid "position lines" (5.0.5.) or interlineary glosses,or: obligatory absence of a position
+ ± ()	obligatory presence optional 1) enclose separate elements to be treated together at all times or 2) enclose optional elements
。 \$ < > *	indefinite vowel or consonant length word or syllable boundary enclose a morpheme representative of a certain specified small group of morphemes non-existent form
(1B35) or (4	1-2) references to my data notebooks
x ₁ , x ₂ , x ₃	(subscript) indicate contrastive types, classes
x _a , x _b , x _c	(subscript) indicate subclasses, non-contrastive types
x ⁿ	(superscript) indicates an indefinite number of repetitions
└/↑	indicates an optional position for some element
[]	joins discontinuous elements of a single linguistic unit
г с	concord or agreement between two elements

±(± †) or $\pm \pm \mp$ both elements are optional, but only $\pm \pm \mp$ to may occur in a single construction
+(± ±	b) or $-+$
±(++)	both elements are optional, but they can only occur together
А	antecedent in logophoric reference
acc	accompaniment
adj	adjective
adjr	adjectivizer
adv	adverb
advr	adverbalizer
aff	affirmative
AfrS	African Studies (and Bantu Studies)
aux	auxiliary
Ax	axis position
B	body of a tale
C	complement position in clauses; consonant
CA	'conclusion of the action' section in a tale
card	cardinal numeral
Cau	see Sb Cau
cent	centenary numeral
CG	complement-as-goal position
chge	change
Cl CM	clause
	clause marker position clause marker
cm CNRS	Centre National de la Recherche Scientifique
co	coordinate
Comp	(independent) comparison clause/see Sb Comp
comp	comparison
Con	see Sb Con
ср	compound
Cpd Sent	compound sentence
Cplx Sent	complex sentence
cs	centisecond(s)
d	dual
Dat	dative clause
dat	dative = 'psychological'
dble	double
dec	decade numeral
Dem	demonstrative position
dem	demonstrative root

Desc	descriptive clause
desc	descriptive
Desid	desiderative clause/see also Sb Desid
desid	desiderative
det	detail
di	ditransitive
dir	direct
Dir Quo	direct quotation
Dir Quo Dist	-
dist	distributive position distributive
Ditr	ditransitive clause
EC	explanatory closing of a tale
EI	explanatory introduction of a tale
Emph/E	emphatic position/clause
emph	emphasis/emphatic
Eng.	English
Eq	equative clause
eq	equative
Excl	exclamative clause
excl	exclusive (pronoun)
EXCL	exclamative morpheme
Exp	expletive position
exp	expletive root
FACT/Fact	factative mood or marker
FC	formal closing of a tale
FI	formal introduction of a tale
F-I	FACTATIVE-IMPERFECTIVE
finemph	final emphatic
FOC	focus position
foc	focus root
ForLing	Forum Linguisticum
F-P	FACTATIVE-PERFECTIVE
Fr.	French
frac	fraction
Ful	Fulfulde (Fulani)
FUT	future
fut	future (in subscripts)
futemph	future emphatic (in subscripts)
gen	genitive (NP only)/general (not NP)
genan	animate genitive
H	head position; high tone
HYP/Hyp	hypothetical mood/see also Sb Hyp
hyp	hypothetical particle
Hyp Sent	hypothetical condition sentence
I Sem	indirect object position
i	intransitive
I	

IA	instrumental accompaniment position
Ideo	instrumental-accompaniment position
ideo	ideophone position ideophone
IdeoP	ideophone phrase
IMPF/Impf	
-	imperfective aspect or marker
IMPV/Impv	-
In Inch	noun as indirect object inchoative clause
inch	inchoative inclusive
incl	
indef	indefinite root
indir Ind Ond	indirect
Ind Ord	indirect order clause
Ind Quo	indirect quotation clause
Init	initial position in a sentence, serial clause, or phrase
Int	intentional clause
int	intentional
Intr	intransitive clause
Intro _{di}	ditransitive introducer clause
Intro _{tr}	transitive introducer clause
lpr íD	personal pronoun as indirect object
ÍP	<u>í</u> phrase
JALL	Journal of African Languages and Linguistics
JWAL	Journal of West African Languages
kin	kinship
kinab	absolute kinship
kinlog	reference (logophoric) kinship (possessive)
L	low tone
Lg	Language
LI	Linguistic Inquiry
Lim	limiter position
lim	limiter root
Lo	locative position
lo	locative morpheme
Loc	locative clause
LOG	logophoric
log	logophoric (subscript)
LoP	locative phrase
Μ	mid tone
m	motion
Man	manner position/see also Sb Man
man	manner (morpheme, expression)
Med	medial position in a serial verb construction
mil	millenial numeral
ML	mood-logophoricity position
Mod	modifier position

Ν	nagal concenent: nagal gullable nuclous
	nasal consonant; nasal syllable nucleus
n NEC	noun
NEG	negative polarity
neg	negative
nomr	nominalizer
nonfut	non-future
NP	noun phrase
npr	non-personal pronoun
nuc	nucleus
num	numeral
NumP	numeral phrase
0	direct object position
obj	object
Obj Comp	object complement clause
oc	object complement
On	noun as direct object
OP	object of a pre-/postposition in Sb Rel
Opr	personal pronoun as direct object
ord	ordinal numeral
P	predicate position
Perc	perception clause
perc	perception
PERF/Perf	perfective aspect or marker
Piv Sent	pivoting sentence
pl	plural; plural marker
ple	plural exclusive
pli	plural inclusive
PM	PN-ML(-T) position
PME	emphatic PN-ML-T position
PN	person-number position
pn PN-ML	proper name
PN-ML-T	person-number-mood-logophoricity composite position
FIN-IVIL-I	person-number-mood-logophoricity-tense composite position
PN-ML(-T)	PN-ML or PN-ML-T
PN-ML-TE	emphatic PN-ML-T position
PNP	proper name phrase
Poss	possessive position; target possessive in logophoric
1 055	reference
poss	possessive root
possd	possessed
possr	possessor
Post-v	post-verb position
Pr	(coreferential) pronoun; target logophoric pronoun
pr	(personal) pronoun
Pre-v	pre-verb position

Prim	primary position in a sentence
	Projet de Recherche Opérationnelle pour l'Enseignement
	des langues au Cameroun
PrP	pronoun phrase
Pur	purpose clause/see Sb Pur
Q	interrogative morpheme/position/clause
q	interrogative
qual	qualifying adjective
QualP	qualifier phrase
Quant	quantifier position
R	rule
RAP	relator-axis phrase
Rcp	reciprocal clause
rcp	reciprocal
Rec	recall position
rec	recall adjective
redup	reduplication
ref	reference (in ref-matrix)
REF COND	
Rel	relator position/see also Sb Rel
rel	relator (not as subscript)/relative (subscript only)
repeti	intransitive repetitive
repettr Res Sent	transitive repetitive
S Sent	response sentence subject position
	singular (nouns, pronouns)/stem (nouns, verbs)
s say ^{di}	ditransitive verb of saying
say ^{tr}	transitive verb of saying
Sb	subordinator position
sb	subordinator element
Sb Cau	subordinate cause clause
Sb Comp	subordinate comparison clause
Sb Con	subordinate concessive clause
Sb Desid	subordinate desiderative clause
Sb Hyp	subordinate hypothetical clause
Sb Lest	subordinate negative purpose clause 'lest'
Sb Man	subordinate manner clause
Sb Pur	subordinate purpose clause
Sb Rel	relative clause
Sb TeLoC	subordinate temporal-locative-conditional clause
Sb Until	subordinate 'until' clause
sbemph	subordinate emphatic
SbP	subordinating phrase
SELAF	Société pour l'Etude des Langues Africaines
Sent	sentence
Sim	simile position (on clause level); see also Comp

sim	simile
Spr	personal pronoun as subject
Stv	stative/passive clause
stv	stative/passive
subj	subject
SVO	subject-verb-object word order
Т	tense position
TAM	tense, aspect, mood
Te	temporal position
te	temporal root
telo	temporal-locative root
teloc	temporal-locative-conditional
TeP	temporal phrase
Ter	terminal position in a sentence, serial clause, or phrase
ТОР	topicalizer; topicalized; topicalized position
top	topicalizer morpheme
Tr	transitive clause
tr	transitive
uni	unit
V	vowel; short vowel
V	verb
V°	indefinitely long vowel
vd	voiced
vl	voiceless
VN	verbal noun mood, clause
vn	verbal noun/infinitive
VNP	verbal noun phrase
V ^{nuc}	vowel nucleus of a syllable
Voc	vocative position
voc	vocative
VP	verb phrase
VV	long vowel
VVV	overlong vowel
V-V	double vowel = $V'V$ or VgV

INTRODUCTION

From September 1963 until my retirement in August 2001, I was engaged in the study of the Dii language and in training personnel at the Dii Literature Center in Mbé, assisting them in the production of literature, the creation of literacy materials and the running of several literacy campaigns. In-depth analysis of the phonological, grammatical, and discourse structures of the language was necessary, first for me to understand those structures on all levels, to use them in editing several editions of the primers and readers, and then to help the personnel understand them and use their knowledge to produce quality literature and translations in the language. An initial attempt at describing Dii structures was published in French: Bohnhoff 1971b.

My initial training in 1962 was structuralist, specifically Tagmemic, and my initial attempts at description leaned heavily on Kenneth Pike and Robert Longacre for the analytical tools and descriptive symbols needed in the task. My debt to these two linguists is obvious, especially for their uses of constructions, tagmemes, positions and fillers, their distinction between etic and emic, etc.; see appendix D for more specific comments. In my life as translator, counselor, and producer of literature in the Dii language, I gradually built up the description that is presented here in the current format. The restructuring of translated texts into fluent, flowing Dii obliged me to understand Dii surface structures to the maximum. The current work is my effort to make my understanding available to a wider audience.

As the years passed, I modified my writing style while remaining structuralist, hoping for a description that would be understandable to the contemporary reader, without presenting a 'too complicated' formal apparatus; whether I've succeeded in that goal, only the reader can judge. It will also be obvious to the seasoned reader that some sections were written under the influence of other theories; for health reasons, I have not made an attempt to uniformize the whole of this work. This is especially visible in portions of chapters 5 and 7.

The third edition of the Dii dictionary (Bohnhoff and Kadia 2002) is the companion volume to the current work, and was edited in French.

This volume is not a pedagogical grammar. For instruction in Dii, the reader is referred to Bohnhoff and Kadia 1990, <u>Cours de Langue Dii</u>, and the two tapes prepared for that course.

An effort has been made to avoid obliging the reader to jump from chapter to chapter in order to understand the presentation. If the reader wants to learn about Dii nouns, for example, then section 3.4 should be consulted to read about the different nominal types, their internal structures, and their external distribution. There <u>are</u> references to other chapters in the book, but they're always enclosed in parentheses, and are seldom obligatory to the understanding of the section being read.

The Dii language (Duru or Durru) is spoken in northern Cameroun by an estimated 50,000 people. The chief concentration of the Dii population, as illustrated on the map at the end of this introduction, is located in an area north and northeast of Ngaoundéré, and south and southeast of Garoua, although sizeable Dii populations have sprung up in Ngaoundéré, Garoua, Yaoundé, and Douala.

The Western dialect (<u>mam be'</u>), centered around Mbé, is the subject of this study; Kadia Mathieu and Asmaou Marthe are the principal informants; additional data came from Koulagna Jean Bosco and many other speakers of the language as well. Western dialect speakers on the plain (excluding those on the plateau, for which I have no exact figures) numbered 5,767 according to census figures from 1959-1961; they now number an estimated 10,000 persons, although the last 40 years have seen a commingling of speakers from the previously distinct dialect areas, especially along the main north-south road going through Mbé. The <u>mam be'</u> dialect of Dii was chosen for the production of literature in Dii by the Evangelical Lutheran Church of Cameroon because it's the prestige dialect, although not the majority dialect.

Joseph Greenberg (1970:9) placed Dii (his Durru) with Vere, Namshi, Kolbila, Pape, Sari, Sewe, Woko, Kotopo, and Kutin in the Adamawa group of the Adamawa-Eastern subfamily of the Niger-Congo family. The Linguistic Atlas of Cameroun (Dieu et al. 1983:43, 96, 352-9) classed Dii in its (zone 3) Kobo-Dii 'Vere-Duru' group (Kobo, Komandera, Gimnime, Gimme, Dooyąąyo = northern subgroup; and Pɛɛrɛ, Loŋto, Duupa, Pa'no, Dii = southern subgroup) in the Adamawa subfamily of the Adamawa-Oubanguien family. Boyd (1999:3-4) places it in a group called 'Adamaoua du Sud-Ouest'. Bohnhoff 1968, 1971a, 1971b, 1976, 1982, 1986, 1990, Bohnhoff and Kadia 2002, and Bohnhoff and Boyd 2003 are the chief published sources that precede this more complete treatment of Dii structures.

This work is far from a complete Reference Grammar, however, which had been my first intention. The most incomplete treatments are chapters 2, 4, 8 and 9. Other portions that need expansion are mentioned where they are concerned. My remaining strength at this time does not allow for a thorough re-editing of the whole; I beg the reader's indulgence.

A few remarks on some formal details in the presentation follow.

1) Orthographic symbols used are those for Cameroon as contained in Tadadjeu and Sadembouo 1979. The letters used in materials published for use by the Dii population differ from those in this work in only one respect: in popular materials, both mid and low tones are unmarked, while in this work the low tone is marked (`), and the mid tone remains unmarked.

Examples:		
<u>for the Dii</u>	<u>this book</u>	<u>meanings</u>
baa	bàà	he cultivates
nuŋ	nùŋ̀	he finds

2) References to my personal notebooks follow each example cited in chapters four to eight, and are enclosed in parentheses, as: (3-117).

3) Examples cited are first translated literally, then (if the literal translation is inadequate or misleading in English) also freely. The free translations are always enclosed in parentheses. Where ambiguity might result, a hyphen (-) joins two or more words used to translate a single Dii word.

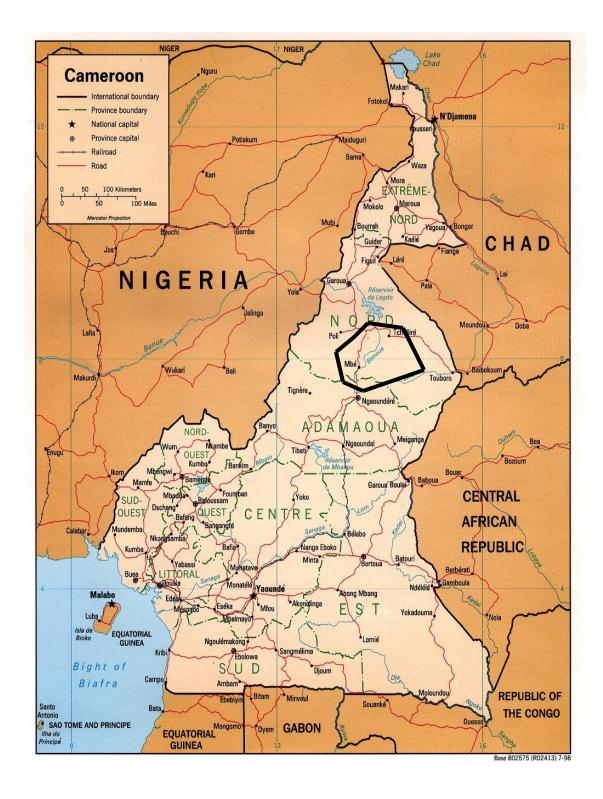
Elsewhere, citations and glosses are enclosed in "…" because single quotes '…' or '…' would be confused sometimes with the glottal stop in Dii words.

A complete list of abbreviations and symbols used in the text is found on the pages immediately preceding this introduction.

4) Boundaries of positions within clauses and sentences are clarified in the Dii examples by the use of a solid line over each distinct position. Occasionally a hyphen is inserted in the Dii text to facilitate the use of these solid lines.

5) The symbol \emptyset is used in the examples of Dii clauses where there is no overt third singular subject pronoun, since the absence of any other pronoun indicates the subject is third singular.

6) References to works cited take the form of the author's name plus the year of publication with or without a following page reference, as: Longacre (1964:7).



The location of the Dii in Cameroon

map from: images.nationmaster.com/nm/motw/cameroon.html

CHAPTER 1

PHONEMES

1.0 INTRODUCTION

Bloomfield (1933:79) defined the phoneme as 'a minimum unit of distinctive sound-feature,' but a fuller and more general definition is that of Gleason (1961:9): 'a minimum feature of the expression system of a spoken language by which one thing that may be said is distinguished from any other thing which might have been said.' In other terms, different phonemes sound 'different' (as opposed to 'same') to the native speakers of a language. Hockett (1978:99) has summarized it as follows: '[it] is the assumption that every utterance in some single language is composed wholly of an ordered arrangement of phonological elements drawn from a strictly finite stock, which are the only ones of relevance for the language in question.'

One type of subphonemic analysis for Dii is described in appendix A. These components and the various ways of describing them are interesting, but the main concern of my work in Dii has been the production of literature, using phonemes as the smallest written units.

The Dii language uses some 55 distinct elements in its sound system: 34 consonants, consonant length, 10 basic vowels, vowel length, vowel doubling, vowel nasalization, 3 tonal levels, an emphatic stress (accent), and 3 types of juncture in utterances. Some phonemes are written with two or even three letters orthographically, but are of course single units and cannot be subdivided, e.g.: <u>mb</u>, <u>mgb</u>, <u>kp</u>, <u>'w</u>.

Some phonemes have phonetic variants (<u>allophones</u>) that occur in different positions in syllables or words. A good example is the phoneme \underline{w} in Dii, with nasal (\tilde{w}) and non-nasal (w) variants. See discussion of the phoneme \underline{w} below.

1.1 CONSONANTS

Table 1.1 displays Dii consonant phonemes. In the following illustrations, high tone is written / /, low tone / /, and mid tone is left unmarked. Allophones and phonetic symbols are enclosed in brackets [...] following several phoneme symbols.

bil = bilabial vel = velar	lad = lab glo = glo			lv = alv av = lab		-	=alveo	palatal
CTTO DG		bil	lad	alv	alp	vel	glo	lav
STOPS						1	,	
-voiceless		р		t		k	,	kp
-voiced, semi-v	oiced	b		d		g		gb
-prenasalized		mb		nd		ŋg		mgb
-implosives		6		ď				
FRICATIVES								
-voiceless			f	S			h	
-voiced, semi-v	oiced		V	Z		g[gh]		
-prenasalized				nz				
NASALS		m		n		ŋ		
LIQUID				1		5		
VIBRANTS			vb	r				
SEMI-CONSON	VANTS	W			у			
PREGLOTTAL		RIES:	'm, 'n,	'w, 'y	5			
Table 1.1: Dii o	consonant	phone	mes					

Distribution of consonants in syllable-initial and syllable-final positions is discussed in section 2.1.

Syllable-initial p, t, k, are aspirated. A more fronted, almost palatal allophone of \underline{k} occurs when preceding \underline{i} , \underline{i} , or \underline{e} ; otherwise \underline{k} is velar.

 $p[p^h]$ <u>pí</u> he sets-a-trap, <u>púg</u> wild animal, <u>pàn</u> he carries.

t $[t^h]$ <u>t</u> \dot{u} he guards, <u>t</u> $\dot{a}\dot{a}$ he thinks, <u>t</u> \dot{c} he washes (clothes), <u>t</u> $\dot{a}\dot{a}$ he is-tired.

- k $[k^h]$ <u>kì</u> he hears, <u>kó</u> he does, <u>sàkùùd</u> cloud, <u>káákáá</u> eternal, <u>kó</u> skin.
- '[?] The glottal stop is pronounced in Dii before all words beginning in the popular orthography with a vowel, although it's not

written in this position. In this work, these words will be written as in the popular orthography: <u>bà'á</u> father, <u>áá'à</u> [?áá?à] no!, <u>zè'</u> fish, <u>nú'</u> tooth.

kp <u>kpòò</u> he rubs, <u>kpàà</u> bow, <u>kpùù</u> viper, <u>kpáá</u> he scratches.

The phonemes <u>b</u>, <u>d</u> and <u>g</u> have the following allophones: 1) voiced in syllable-initial position; 2) voiceless released or unreleased in free variation syllable-finally in isolation; 3) voiceless unreleased before a following consonant; 4) semi-voiced word-medially after a long vowel. Doubled stops between syllables are always composed of first the voiceless allophone, then the voiced: $-\underline{bb} - = [pb]$, etc. As for <u>k</u>, a more fronted allophone of <u>g</u> occurs before the front vowels <u>i</u>, <u>i</u>, or <u>e</u>.

- b [p, b] <u>bab</u> field, <u>bè</u> he enlarges, he grows, <u>báa</u> he is-lost, <u>dub</u> yam, <u>babbí</u> in the field.
- d [t, d] $\underline{d\hat{i}}$ black, $\underline{d\hat{u}}$ he cuts-down, $\underline{d\hat{e}}$ he draws, $\underline{d\hat{b}g}$ he goes-up, $\underline{v\hat{i}d}$ night, $\underline{6\hat{i}d}$ bad, $\underline{k\hat{b}d}$ forest, $\underline{k\hat{b}dd\hat{i}}$ in the forest.
- g [k, g] gí he sells, gò he breaks, gìgìg agitated, <u>hígìgì</u> astonished, g<u>é</u>ń (rain) stops, <u>hág</u> country, <u>hággì</u> it's-a-country.
- g [gh] A voiced fricative similar to the Parisian <u>r</u>: Pa<u>r</u>is, and is found almost exclusively between two short, identical vowels: <u>vágád</u> human life principle, <u>yigid</u> shade, shadow, <u>ndígíd</u> he twists-inpain, <u>kígi</u> round, <u>zágààà</u> all day long. This unit is written with the symbol <u>g</u> in the popular orthography. The following few morpheme combinations (none are single morphemes) might be used to support a phonemic analysis technically, but the Dii literature staff rejects writing the symbol <u>gh</u>: <u>hágá</u> or <u>hágí</u> on the ground; <u>vógáa</u>? tomorrow?; <u>dágáa</u>? one?; <u>í yògooo</u> like that a long time.
- gb <u>gb5</u> he hits, <u>gbaa</u> place of sacrifice, <u>gbèè</u> mumps, <u>Tagbùì</u> village of Taboum.
- mb <u>mbàà</u> he sits, he is, <u>mbùù</u> hyena, <u>mbóg</u> he prepares, <u>mbòò</u> covered with (mud/bees...).
- nd <u>ndàà</u> cow, <u>ndóg</u> sore, wound, <u>ndúń</u> pepper, <u>ndąąd</u> bright red.
- ng <u>ngaa</u> yam bean, <u>ngóń</u> tuberculosis, <u>ngàgàm</u> a certain fruit, <u>záńgà</u> he reads (Ful).

mgb [ŋmgb]	Prenasalized <u>gb</u> :	mgbàà bush spirit,	<u>mgbàỳ</u> molar,
mgbe	<u> éémgbéé</u> crying wi	ithout stopping.	

- 6 Implosive: $\underline{6\dot{u}\dot{u}}$ they are-numerous, $\underline{6\dot{d}\dot{d}}$ today, $\underline{6\dot{a}\dot{a}}$ woven basket, <u> $6\dot{\epsilon}n$ </u> a certain bush.
- d Implosive: <u>dìì</u> he is-far-away, <u>dǎá</u> he climbs, <u>dàg</u> calabash, gourd.
- f $\underline{f} \neq \underline{f}$ he accepts, $\underline{f} = \underline{f}$ he teases.
- s <u>sú</u> it is-deep, <u>sà</u> he pricks, <u>sòò</u> he searches, <u>sáá</u> carefully.
- h <u>hì</u>' it is-full, <u>hí</u> he wants, <u>hág</u> country, <u>hẹn</u> thing.
- v <u>vì</u> he asks, <u>vee</u> fire, <u>vəg</u> neck, <u>vúd</u> he goes-out, <u>vàgà</u> bracelet.
- z \underline{z} he drinks, \underline{z} buffalo, \underline{z} aga sun.
- nz <u>guu nzúu</u> name of a certain mountain, <u>nząąd</u> gluey.
- m [m, m] <u>mòò</u> he speaks, <u>méé</u> tongue, <u>zʉm</u> flour; occurs also as nucleus of syllables as in <u>é"mhmm</u> expression of sympathy.
- n [n, n] <u>nónó</u> five, <u>na'</u> he is-big, <u>kan</u> and, with, by; occurs also as nucleus of syllables as in <u>'ń"nh'n</u> expression of sympathy.
- $\eta \qquad \underline{d} \underline{a} \underline{n} \text{ near, } \underline{z} \underline{u} \underline{n} \text{ he pounds, } \underline{v} \underline{a} \underline{n} \underline{n} \underline{a} \text{ fast.}$
- 1 [1, 1] [1] occurs syllable-initially or finally, or when 1 is doubled: lúú he leaves, bàl elephant, bàllì it is-an-elephant; but between two vowels word-medially, a flap is possible: lààlí going, lúúlí leaving, láó thin, lìì thick. The last two examples are of a curious occurrence seemingly mostly in ideophones; very few tokens were found of this sound: the tongue is pushed firmly against the palate behind the alveolar ridge, then flapped forward.
- vb [v] The lower lip is placed behind the upper teeth, then flaps forward, simultaneous with voicing: <u>vb55</u> walking stick, <u>vbìi</u> he rolls, <u>vbìd</u> he snatches, <u>vbád</u> lie, falsehood, <u>vbà</u>' he takes-a-lotof.
- r $[\tilde{r}]$ Occurs in Dii only syllable-finally and as an alveolar trill: <u>kpùr</u> very rigid, <u>dòr</u> very heavy, <u>wùr</u> imitation of the sound of crushing grain.

The nasalized variant of \underline{w} and \underline{y} occurs either before or after a nasalized vowel. Boyd (1989:198) has appropriately remarked that nasalization in Adamawa languages is often associated with the whole syllable instead of with single phonemes, a remark valid here for Dii.

w [w, \tilde{w}] waa child, wəə husband, hàw termite, wakéé kaw prostitute.

- y [y, \tilde{y} , \tilde{n}] <u>yúú</u> head, <u>yèd</u> he pours-out, <u>mbógoy</u> it prepares-itself, isprepared, <u>gəy</u> it breaks-itself, is-broken; the variants \tilde{y} or $\underline{\tilde{n}}$ occur before or after a nasalized vowel, individual speakers preferring one or the other in their speech: <u>yag</u> mouth, <u>yà'àd</u> dog, <u>híy</u> it catches-on (something).
- 'm ['m, 'm] Preglottalized m: <u>'màà</u> he is-thin, <u>'màà</u> pliers, <u>'màà</u> new, <u>'méň</u> he finds (a lost item); occurs as nucleus of syllables as in <u>'mím'm</u> no.
- 'n ['n, 'n] Preglottalized <u>n</u>: <u>'ná'</u> he steps-on, stamps, <u>'nò'</u> she mixeswith-the-sauce, <u>'néń</u> only (one); occurs as nucleus of syllables as in <u>'ń"nhìn</u> expression of sympathy.
- 'w Preglottalized <u>w</u>: <u>'wàa</u> he finishes, <u>'wạạ'wàạ</u> swollen, <u>'wó'wóó</u> snail, <u>'wóg</u> hoof.
- 'y Preglottalized y: <u>'yúú</u> he sticks-out (his lips), <u>'yòg</u> he sucks, <u>'yá'yá'</u> worthless.

All consonant phonemes occur initially before the vowel <u>aa</u> (or <u>aa</u>) except <u>nz</u>, <u>'n</u>, <u>r</u>, and <u>g</u> [gh], as Table 1.2 illustrates. The remaining normally initial consonants, <u>nz</u> and <u>'n</u>, don't happen to occur with <u>aa</u> or <u>aa</u> in our data. Indigenous Dii <u>r</u> occurs only word-medially and syllablefinally; <u>g</u> [gh] occurs only in double vowels and word-medially; thus these don't appear in Table 1.2.

In a manner of speaking, Table 1.2 becomes a massive contrasting group, corresponding to the 'minimal pairs' that are often sought in phonology, especially in this case since nasalization (see 1.3) and three tonal levels (see 2.2) are shown to be contrastive elsewhere.

<u>pàa</u> he drives	<u>tàà</u> he thinks			
<u>kaa</u> village	<u>áá</u> he yawns			
<u>kpàà</u> bow				
<u>bàà</u> he hoes	<u>dàà</u> he passes			
<u>gàà</u> he knows	<u>gbaa</u> place of sacrifice			
<u>mbàà</u> he sits	<u>ndàà</u> cow			
<u>ngạạ</u> yam bean	<u>mgbàà</u> bush spirit			
<u>6àà</u> basket	<u>dáá</u> he climbs			
<u>fàà</u> repeat	<u>sàà</u> village court			
<u>hàà</u> he insults				
	uring circumcision rites and cares for his			
newly circumcized youn	ger brother			
<u>zàa</u> a bit later				
<u>màà</u> it is-enough	<u>nàà</u> he dances			
<u>(da)ŋaa</u> kitchen				
<u>làà</u> he goes				
<u>vbáa</u> it twines around				
waa child	<u>yaa</u> he comes			
<u>'màà</u> he is-thin	<u>'wàa</u> he finishes			
<u>'yáá</u> he stalks				
T 11 12 C	1. 6. / / /			
Table 1.2: Consonants occuring before /aa/ or /aa/				

1.2 CONSONANT LENGTH

Consonant length is important in Dii (cf. <u>káné</u> crying, and <u>káńné</u> mutual desire), although most lengthened consonants are predictable. The importance of consonant length can be illustrated by the following two sentences, where the division into grammatical words is given in parentheses:

<u>mínímíané</u> I'm not yet awake (<u>mí nímí ná né</u>), and <u>mínímíannè</u> I awoke well (<u>mí nímí nánně</u>).

Consonant length is usually predictable, however, by the length of the preceding vowel and the speed of pronunciation. When a stem containing a short vowel takes a suffix, the stem's final consonant is lengthened if the suffix begins with a vowel: <u>bab</u> field, <u>babbí</u> in the field. But this lengthening is often suppressed in faster speech: <u>babí</u>. After a long (or double) stem vowel, the consonant is not lengthened: <u>ba'ad</u> work, <u>ba'adí</u> at work.

1.3 VOWELS

There are 10 basic Dii vowels, four front ($\underline{i}, \underline{i}, \underline{e}, \underline{e}$), two central ($\underline{o}, \underline{a}$), and four back ($\underline{u}, \underline{u}, \underline{o}, \underline{o}$). These vowels can be long, short, double, or (except for $\underline{e}, \underline{o}$ and \underline{u}) nasalized. The vowel \underline{i} seems not to be nasalizable except as influenced by context. Table 1.3 shows the simple (i.e., non-double) oral and nasal Dii vowels using these criteria, using the usual features of tongue position, lip rounding, and tongue height.

	front	central	back
ORAL VOWELS	<u>unrounded</u>	<u>unrounded</u>	<u>rounded</u>
high - close	i		u
- open	i		u
mid - close	e	ə	0
- open	ε		С
low		a	
NASAL VOWELS			
high	į		ų
mid	ç	ş	Q
low		ą	
Table 1.3: Simple (i.e	e., non-double) D	ii oral and nasal	vowels

The long, short, double and nasalized vowel possibilities in Dii are theoretically as follows:

ORAL										
-short:	a	ε	e	i	i	с	0	ə	ŧ	u
-long:	aa	88	ee	ii	ii	cc	00	əə	uu	uu
-double:	aga a'a	εgε ε'ε	ege e'e	igi i'i	igi i'i	ogo o'o	ogo o'o	əgə ə'ə	ugu u'u	ugu u'u
NASAL										
-short:	ą	ę	į	Q	ş	ų				
-long:	ąą	ęę	<u>]</u>]	QQ	<u>ş</u> ş	ųų				
-double:	ągą ą'ą	ęgę ę'ę	lgl į'į	çgç ç'ç	şgş Ş'ş	ųgų ų'ų				

Double vowels aren't to be confused with long vowels in Dii, although many linguists use the terms synonymously (see Grammont 1965:52-3). Double Dii vowels V-V serve as syllable nuclei in the same way that short V and long VV vowels do. This phenomenon isn't unheard of in West Africa (Bearth 1971:55). Dii has two types of double vowel, one with a medial glottal V'V, the other with a medial g [gh] VgV. Following are seven characteristics of double vowels.

1. The whole cluster is either oral or nasal: V-V or V-V, never V-V or V-V.

2. Both 'parts' of the vowel have identical vowel quality: <u>aga</u>, <u>igi</u>, <u>a'a</u>, <u>i'i</u>, <u> $\epsilon'\epsilon$ </u>, etc.

3. The same tones occur on double vowels of 'content word' dictionary entries as occur on long vowels, i.e., the tone glides high-mid and low-mid occur, but other glide possibilities are excluded. If the double unit were a bisyllable (2 syllables), free occurrence of all tones on any vowel would be expected, as actually does occur with bisyllabic dictionary entries.

4. Since syllable-final nasal $(\underline{m}, \underline{n}, \underline{n})$ consonants carry a distinctive tone following a short vowel, one would expect that if V-V were a bisyllable, a final consonant in the combinations V-Vm, V-Vn, etc., would bear a distinctive tone, too. This is, however, not the case.

5. Occurrence restrictions with final consonants in syllable patterns indicate also that double vowels aren't bisyllables. Not only do V-V units have their own distinctive occurrence restrictions in contrast to simple V and long VV vowels, but (see Table 1.12) even the two patterns V'V and VgV seem to have different patterns of occurrence.

6. In the verb groups (3.8, Table 3.6), syllables with double vowels cannot be treated as if they contained two short vowels. For example in the negative, a verb with a short vowel adds $-\underline{n}$ and retains it even when the clause-final marker /né/ is juxtaposed: $\underline{mi \ sen \ ne}$ I don't want to. But if the verb root contains a long or double vowel, this $-\underline{n}$ is lost when the negative particle is juxtaposed: $\underline{mi \ laa(n) \ ne}$ I'm not going; $\underline{mi \ naga(n)}$ né I didn't grind it. Since the pattern CV-V doesn't retain the suffix $-\underline{n}$, it shouldn't be interpreted as a bisyllable. Moreover, there seem to be no bisyllabic verb roots of Dii origin, since all bisyllabic roots collected so far are borrowings from neighboring languages.

7. In songs, double vowels are often sung at twice normal speed so as to be included in a single rhythmic beat or note. When singing to melodies of Western origin, the beat can only with extreme reluctance be allowed to fall on the second half of a double vowel. Beats can fall on the first half of a double vowel, however, with no difficulty.

Each vowel will now be examined in turn. First, examples of all short, oral vowels.

- i \underline{gi} he sells, \underline{mig} nose, \underline{vid} night.
- i <u>yi</u> he breaks-open (couscous), <u>ki</u> he hides, <u>kid</u> charcoal, <u>ti'</u> he opens (his hand), <u>víd</u> smile.
- e <u>né</u> negative, <u>'wé</u> cry of pain, <u>be'</u> sky, <u>zè'</u> fish, <u>gègèè</u> kind of sorghum.
- ε <u>tè</u> he washes (clothes), <u>kè</u> he pierces, <u>bè</u> he takes, steals, <u>yèd</u> he pours-out, <u>ne'</u> he washes (hands).

Note: <u>e</u> and <u>e</u> have largely complementary distributions describable in terms of CV patterns and vowel length. <u>E</u> occurs short before syllable-final glottal or <u>y</u>, long in the syllable-final position. <u>E</u> occurs short in any CV pattern <u>except</u> before syllable-final glottal or <u>y</u>, long before final consonant. The symbol \$ in the following formulae indicates a syllable boundary. Thus:

 \underline{E} (and \underline{o}) occur in the patterns:

Examples of \underline{e} and $\underline{\varepsilon}$ in these patterns: <u>dey</u> torn, <u>vee</u> fire, <u>ve'</u> year, <u>kè'e</u> he shucks (peanuts), <u>tégé</u> sandal, <u>kè</u> he digs, <u>vɛlí</u> in the fire, <u>sèg</u> he rubs, <u>nè'ed</u> he licks, <u>séeg</u> orphaned.

Despite this widespread apparent distributional complementarity, a few minimal or similar pairs do indicate a phonemic status for the e/ϵ contrast:

<u>née</u> how	vs. <u>'nɛɛ'nɛ̀é</u> pointed
<u>débdèè waa</u> amulette	vs. <u>bɛddì</u> it's-a-feather
<u>zèè</u> buffalo	vs. <u>zèè</u> with wings out-spread
Some speakers, howe	ver, don't follow this exact pattern, but distribute
the phonemes differer	tly or use a phone which is between the two under
discussion. My two n	nain informants use the pattern here described.

 $\frac{g}{2} he breaks, \underline{v} he scorches with a bit of flame, \underline{n} he sleeps, \\ \underline{v} h$

a <u>sà</u> he pricks, <u>wá'</u> he counts, <u>mam</u> water.

2 <u>z</u> $\dot{2}$ he drinks, <u>t</u> $\dot{2}$ it rusts, <u>n</u> $\dot{2}$ five, <u>t</u> $\dot{2}$ ear, <u>n</u>2 dead.

See the above discussion for \underline{e} and $\underline{\varepsilon}$ concerning the distribution patterns of \underline{o} and $\underline{\circ}$ for my two principal informants. As for \underline{e} and $\underline{\varepsilon}$, however, despite wide-ranging apparent distributional complementarity, one can find a rare minimal/similar pair which forces a phonemic interpretation for these two vowels. Examples of apparent complementarity:

<u>vo'</u> thirty	vs. <u>vó</u> we
<u>vóó</u> our	vs. <u>vógód</u> life
	<u>wòod</u> small red centipede

Examples of minimal/similar pairs: <u>yó'</u> he swallows vs. <u>yò'</u> what-you-may-call-it

- dòò alcoholic drink vs. ndòò insulting, angry answer
- \underline{d} <u>d</u> <u>u</u> <u>h</u> e cuts-down, <u>p</u><u>u</u> <u>h</u> e gives, <u>z</u><u>u</u> flour.
- u \underline{su} it is-deep, \underline{ug} he flies, \underline{nun} he finds.
- \underline{i} <u>h</u> he snores, <u>h</u> it is-full, <u>z</u> truth potion.
- ę <u>h</u>ę he sets (a post), <u>h</u>èhèw very hot (sun, water), <u>d</u>è' reed, <u>d</u>e' he is-clean, <u>v</u>é' he goes-home.
- \hat{a} <u>hàgád</u> very clear (water), <u>ká</u> he flatters, <u>sà</u> he cuts (through).
- a <u>hà</u> he breaks-off (leaf), <u>kà</u>' he is-cold, <u>hag</u> pregnancy, <u>zaza</u>' whitish (water).
- \hat{Q} \hat{Q} he says, $\underline{h}\hat{Q}$ he sees, $\underline{t}\hat{Q}'$ he picks (fruit), $\underline{d}\hat{Q}d\hat{Q}\hat{Q}$ reason.
- ų <u>yúú hú</u> hair, <u>kpú</u> very old.

All oral and nasalized vowels occur long as well:

- ii <u>dìì</u> black, <u>líid</u> fruit.
- \underline{i} \underline{h} \underline{i} he wants, \underline{z} \underline{i} it is-heavy, \underline{s} \underline{i} \underline{i} unfaithful to spouse.
- ii <u>hii</u> metal, <u>sii</u> war, <u>diid</u> fox.

o $\underline{vóo}$ our, \underline{soo} he looks-for, \underline{to} if, $\underline{wanbo'}$ ten.

- ee <u>zèè</u> buffalo, <u>mbèè</u> sheep, <u>sèè</u> old, <u>péém/sápéém</u> wind.
- εε <u>zèè</u> with wings outspread, <u>méé</u> tongue, <u>kèεm</u> robber, <u>waa séeg</u> orphan.
- eq <u>fèè</u> he accepts, <u>kéé</u> wife, <u>gèem</u> hip/buttock.
- əə səə he stays-awhile, <u>nəə</u> he rests, <u>bààm</u> stutterer.
- $\frac{1}{2}$ $\frac{1}{2}$ he falls, $\frac{1}{2}$ husband, $\frac{1}{2}$ husband, $\frac{1}{2}$ fragile newborn.
- aa <u>bàà</u> he hoes, <u>'wàa</u> he finishes, <u>bàad</u> planting season.
- a_{a} <u>tàà</u> he is-tired, <u>záad</u> alive.
- 35 <u>ndòò</u> insulting, angry answer, <u>gbòmsòòg</u> earthworm, <u>wòod</u> small red centipede.
- oo <u>sòò</u> he searches, <u>'móóm</u> fine millet powder.
- çç <u>fóó</u> body, <u>kpòog</u> deaf-mute.
- $\underline{z\hat{u}\hat{u}}$ he descends, <u>hund</u> seed.
- uu <u>dùù</u> he follows, <u>gúú</u> six, <u>ya úud</u> sleeping spot.
- <u>hùù</u> he kisses, <u>vùù</u> imitation of the sound of an airplane, <u>tùúd</u> imitation of the sound of passing gas.

Examples of the double vowels that occur follow:

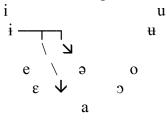
- igi <u>kígi</u> ball, lump, round, <u>yigid</u> shadow.
- igi <u>tìgi</u> he shakes, <u>tígid</u> midnight, <u>yígíd</u> he is-made-crazy.
- ege
- εgε <u>tégé</u> sandal, <u>tégém</u> liver.
- əgə $\underline{t \circ g \circ}$ he looks-around, $\underline{t \circ g \circ d}$ he filters.
- aga <u>lágá</u> he whispers, <u>vágád</u> life, <u>sàgàd</u> sand.
- $3g_2$ <u>yágá</u> tomorrow, <u>fágád</u> bean leaf.
- ogo

- ugu <u>mbúgu</u> sorcerer, <u>púgu</u> he gives-him, <u>gúgun</u> he compares.
- ugu <u>kúúdugu</u> bush, <u>kúsúgum</u> back, <u>sùgud</u> cotton.
- įgį
- ęgę <u>kęgę</u> (fishing) net, <u>sègèd</u> selfishness.
- şgş <u>şgşd</u> make very uncomfortable
- ągą <u>gbàgà</u> gray duiker, <u>'yàga yè</u> now, <u>pagam</u> behind.
- ggq <u>ike that, kógó</u> he is-weak, <u>vógó</u> he teases, <u>kògom</u> weak.
- ųgų <u>ugųd</u> very good (wine).
- i'i <u>ní'i</u> he patches several, <u>kpì'ìd</u> laterite rock.
- i'i <u>hí'i</u> he laughs, <u>hì'i</u> he separates, <u>hì'ìd</u> fork, branch.
- e'e <u>pè'e</u> he makes-several-flat, <u>yè'è</u> split, <u>kè'èd</u> yellow dirt.
- ε'ε <u>6έ'égéd</u> empty (stomach), <u>ké'ém</u> whitish, <u>nè'ed</u> he licks-withtongue.
- ə'ə <u>hó'ə naa</u> small curved knife, <u>bó'ə</u> he looks-at-several, <u>mbə'əm</u> imitation of someone slurping gravy.
- a'a <u>tá'a</u> he shoots-several, <u>tá'ád</u> he rises-early.
- o'o <u>'nò'òm</u> sesame seed, <u>mó'óm</u> covered with dust.
- o'o <u>kó'o</u> (tree) bark, <u>hò'od</u> it has-a-strong-taste, <u>do'od</u> at the foot of.
- u'u <u> \hat{bu} 'u</u> he removes-skins-from, <u>yu'u</u> he removes-all-clothes, <u>tu'ud</u> he spits (on someone).
- u'u <u>dù'u</u> he pours-in-several-times, <u>gbú'úd</u> he vomits.
- i'_i <u>pi'i</u> they line-up, <u>zí'íd</u> he sneezes, <u>sí'íd</u> end.
- ç'ę <u>dè'</u>ę he cleans-several, <u>vé'</u>ęd green, unripe, <u>gbè'</u>èm kind of tree.
- \hat{q}^{2} , $\frac{d\hat{q}^{2}\hat{q}}{d\hat{q}}$ small piece, $\underline{vb\hat{q}^{2}\hat{q}n}$ it falls-across.

- a'a <u>tà'a</u> he unsticks, <u>ká'ad</u> cold, cool.
- q'q <u>kq'q</u> he coughs, <u>kq'qd</u> flower, <u>zq'qd</u> beginning of dry season.
- \dot{y}^{i} , $\underline{dy^{i}}$, $\underline{dy^{i}}$, short (finger), $\underline{ky^{i}}$, $\underline{dy^{i}}$ it molds.

1.4 GLIDES

There are two vowel glides in the Dii language, neither of which need be written by a distinctive symbol because they're only phonetic variants. Both are in the front of the mouth, but one is higher than the other. These glides may be represented by arrows to more easily show the direction the tongue moves during pronunciation:



The upper glide is an allophone of the phoneme \underline{i} , while the lower one is an allophone of $\underline{\varepsilon}$ ($\underline{\varepsilon}$ when nasal). They occur before a syllablefinal g or $\underline{\eta}$ or before medial g [gh]. There are also a few other words which don't end in g or $\underline{\eta}$ that contain these glides, but seemingly in free variation with the regular vowel \underline{i} , $\underline{\varepsilon}$, or $\underline{\varepsilon}$.

The final part of the \underline{i} glide almost sounds like \underline{o} , but is fronted and higher in the mouth than \underline{o} . The last part of the $\underline{\varepsilon}$ (or $\underline{\varepsilon}$) glide(s) sounds almost like the \underline{a} in Eng. cat, or sometimes sounds nearly like the Dii phoneme \underline{a} . Examples:

- i \underline{lig} it flows, \underline{zig} it is-sweet, \underline{tigi} he shakes.
- ii <u>biig</u> snake, <u>síig</u> spear, <u>ziziig</u> a certain lizard.
- ε <u>gbèg</u> twenty, <u>bén</u> a certain bush, <u>tégé</u> sandal.
- $\varepsilon \varepsilon$ <u>méég</u> branch tips, <u>waa séeg</u> orphan.
- ę <u>hège</u> he pulls-on-one-end-of (something), <u>kege</u> fishing net.

ęę <u>hęęg</u> bamboo

A set of words with all vowels occurring before syllable-final g has these glides filling the positions \underline{i} and $\underline{\varepsilon}$:

<u>sig</u> grasshopper		sug (mam) flying spider thread
<u>sig</u> jealousy		<u>sùg</u> he gathers
<u>sèg</u> she cackles	<u>ság</u> very straight	<u>sóg</u> price
	sag abandoned field	

It's most significant for the analysis of these vowels that there are environments where \underline{i} or $\underline{\varepsilon}$ become glides. Below, the non-glide is on the left, the glide on the right.

 $\frac{hi}{di} he buys$ $\frac{di}{di} he is-in-the-process-of$ $\frac{t\hat{\epsilon}}{k\hat{\epsilon}} he washes$ $\frac{k\hat{\epsilon}}{k\hat{\epsilon}} he pierces$ <u>hìgi</u> he buys-it <u>digi hìlí</u> he is-it-buying <u>tège</u> he washes-it <u>kège</u> he digs-a-hole-through-the-wall-of (a house)

In other contexts, a glide in the base form (on the left) changes into a 'regular' vowel (on the right), sometimes also with a tone shift that is not explainable:

dèn he hitsdené hittingnèn he chasesnené chasing'mén he finds (a lost item)'méné finding again

1.5 VOWEL LENGTH

Two topics need to be addressed concerning Dii vowel length. First, there are four lengths identified in the analysis:

1- short (e.g., <u>kè</u> he pierces, <u>kəd</u> quiver),

2- long (e.g., <u>lìì</u> it bears-fruit, <u>líid</u> fruit), and double (e.g., <u>sí'íd</u> end, <u>yigid</u> shade),

3- overlong (e.g., kíiì it's-a-concession, siiì it's-war), and

4- indefinitely long (meaning 'anywhere from normal to very long,' here symbolized by ° or by extra vowel or consonant letters: <u>kpùù°/kpùùùù</u> imitation of the sound of a rifle shot, <u>zágà°/zágàààà</u> all day long, <u>sìm°/sìmmm</u> very very quiet, <u>tee°d/teeeed</u> imitation of the sound of a trumpet).

While short, long, and indefinitely long vowels can be termed phonemic, overlong vowels do not occur freely in Dii. They arise from elision across a morpheme boundary (3.1), or from extra length given to a vowel due to an affective intonation pattern, and in addition, they occur only in open syllables. An example of the elision mentioned is the following: <u>waa dììì</u> child Dii-cm (he's-a-Dii), where <u>dìì</u> plus the clausefinal particle -<u>ì</u> becomes <u>dììì</u>.

An example of the affective lengthening of a clause-final vowel is the following: $\underline{\diamond} \mod \underline{a} \underline{a} \underline{a}$! Good bye! This lengthened final vowel evidently carries more sincerity or friendliness than the 'regular' form ending with $\underline{a} \underline{a}$.

The second topic is to specify the actual length of a given vowel in a given context, which of course is made difficult by multiple conditioning factors. Some of these factors will be listed in the last paragraph in this section.

There is statistical evidence (Bohnhoff 1976, chapters 4 to 6) that what linguistically is called 'length' for vowels in Dii <u>is</u> reflected in physical durational differences, long vowels being measurably longer than short. (This isn't necessarily the case for all languages, see Bohnhoff 1976, chapter 1). It can be maintained that in Dii there are three 'absolute' degrees of vowel length (short, long/double, and overlong), reflected in the following average durations (in centiseconds) extracted from speech sample 1 for the oral vowel /a/ in open syllables (Bohnhoff 1976, chapter 5):

<u>length 1</u>	<u>length 2</u>	<u>length 3</u>
short	long, double	overlong
7.5cs	10.5cs	16cs

For the purpose of comparison, the indefinitely long vowels in the same sample averaged 25cs in duration.

From the above figures, it's clear that long vowels in Dii are <u>not</u> <u>twice as long</u> as short vowels, but are merely longer, given a sufficiently specific context. The ratios between them aren't 1-2-4, or even 1-2-3, but are 1-1.4-2.1 for the three average durations cited above.

Some of the contextual factors that modify the exact duration of a given vowel (other than the speaker's tempo, style, etc.) are the following:

-1) Vowels in pre-pausal position are lengthened considerably (by 'one length' in terms of the above 'absolute' degrees).

-2) High vowels ($\underline{i}, \underline{u}$) are shorter than low ones ($\underline{\varepsilon}, \underline{a}, \underline{2}$).

-3) Front vowels ($\underline{i}, \underline{i}, \underline{e}, \underline{\varepsilon}$) are shorter than back ones of the same tongue height ($\underline{u}, \underline{u}, \underline{o}, \underline{o}$).

-4) A hesitation in the speech flow can cause a vowel to be held longer.-5) Certain intonation patterns connected with emotions may cause certain vowels to be lengthened.

-6) Emphasis, intensity, or the duration of an activity or state may cause a vowel to be lengthened. See the beginning of this section for several examples under the title 'indefinitely long.' All of these factors caused the following extremes (shortest and longest vowels) in one test sample (Bohnhoff 1976, chapter 5):

<u>short</u>	long	<u>double</u>	overlong
2-18cs	4-24cs	7.5-21.5cs	25cs

But such overlapping results shouldn't be taken to mean there is no such thing as vowel length in Dii. They simply mean one must allow for all the factors influencing length, removing them from consideration one by one. The result gives us the durational evidence that confirms what we hear as differing vowel lengths.

1.6 CONSONANT AND VOWEL RELATIVE FREQUENCIES

One major count has been done previously, that found in Bohnhoff 1971a and 1971b, section 1.6. The corpus that served as a basis for that count was 41 pages of transcription of spoken Dii, and contained 9,429 phonemes (5,152 consonants, 4,277 vowels). This count was made preparatory to writing the first edition of the Dii primer.

The results presented in Tables 1.4, 1.5, and 1.6 are from speech sample 2 in Bohnhoff 1976 (appendix C), updated by the analysis and orthographic conventions of 1981. A total of 18,541 phonemes were counted: 10,253 consonants, 8,288 vowels. The syllable initial glottal stop // was counted among the consonants, although it isn't written in the popular orthography. Consonants of non-Dii origin are enclosed in parentheses.

The consonant <u>n</u> is thus the most frequent consonant (1,237) in spoken Dii, followed by <u>m</u> (923) and <u>'</u> (872). The total number of nasal consonants (<u>m, n, n, 'm, 'n</u>) is 2,447 (1,297 initial, 1,150 final), or 24% of the total number of consonants in sample 2.

But note that the 'exotic' consonants (<u>gb</u>, <u>d</u>, <u>b</u>, <u>kp</u>, <u>vb</u>, <u>'m</u>, <u>'n</u>, <u>mgb</u>, etc.) occur infrequently.

Among the vowels, <u>a</u> is by far the most frequent, representing 38% of the total; and 30% of all vowels are nasalized if we include those nasalized automatically following an initial nasal consonant (1,155 plus 1,297).

<u>initia</u>	<u>1 C</u>	<u>final</u>	<u>_C</u>	<u>initia</u>	<u>l C</u>	<u>final</u>	<u>C</u>
,	663					62	у
		660	n	f	60		
1	659			nd	51		
m	650			ď	35		
k	625			'у	31		
v	615					30	W
n	613					25	b
d	560			ŋ	24		
у	538			5		23	r
b	493			vb	16		-
W	436				10	12	(s)
t	422			(r)	8	12	(3)
S	389			'n	7		
s h	280			kp	6		
11	280	276	d	-	6		
		270		(kr)			
	2(7	273	m	ŋg	6		
р	267			(j)[dz	2] 4	2	1
g	227	017		< .	2	3	1
		217	ŋ	(nj)	3		
		209	,	'n	3		
		199	g	mgb	2		
mb	163					1	(k)
Ζ	133					1	(f)
gb	121			(py)	1		
6	80			nz	0		
'w	65					0	vb
				8	,262	1,991	Totals
Table	e 1.4:]	Freque	ncy of Dii syllable-	initial a	nd -fin	nal cons	sonants;
	1	borrow	ed consonants are e	nclosed	l in par	enthes	es

a i u i o e o c c u c agi, agaa, i	gii	2,664 810 807 615 573 498 448 343 241 123 11		а ç ç į į ç g g g g g g g g g g g g g g g		2) 2)	87 89 56 77 42 4 0
Totals		7,133				1,1	55
Table 1.5:	Vowel qua	ality freque	ency in speec	h sample	e 2 		
	<u>short</u>	long	overlong	V'V	VgV	<u>Total</u>	
a, ą	$\frac{51011}{1,848}$	1,118	7	109	69	$\frac{10001}{3,151}$	
i, į	657	209	0	2	19	887	
0, Q	255	539	0	6	29	829	
ŧ	593	147	0	58	9	807	
e, ę	418	364	0	1	4	787	
i	584	21	0	6	4	615	
с	410	4	0	0	34	448	
u, ų	169	156	0	5	13	343	
ε	232	0	0	1	8	241	
ə, ş	63	88	0	12	2	165	
(agi, agaa,	igii, ògooç	<u>)</u>				(15)	
	5,229	2,646	7	200	191	8,288	
Table 1.6:	· ·	of vowel in speech s	nuclei types sample 2	(collated	l with v	owel	

1.7 OCCURRENCE PATTERNS AND RESTRICTIONS

Not all consonant and vowel phonemes occur in every position within a syllable, word, phrase or clause. The following restrictions deal with units that are recognized elsewhere as phonemic. These patterns are listed with no order of importance or frequency.

The following syllable-final consonants (<u>b</u>, <u>d</u>, <u>g</u>, <u>'</u>, <u>m</u>, <u>n</u>, <u>n</u>, <u>l</u>, <u>w</u>, <u>y</u>), when preceded by a short vowel, automatically double in length before: -the temporal-locative /lí/ (e.g. <u>babbí</u> in the field, <u>zìŋŋí</u> in the river), -the verbal noun suffix /lí/ (e.g., <u>sònné</u> saving, <u>lúúlí</u> leaving), or -a vowel-initial clause marker (which is translated 'it's a' in the example: <u>babbì</u> it's a field.

See section 3.1 for the use of the bars / /.

The nasal consonant used in the prenasalization of \underline{b} , \underline{d} , and \underline{g} is required to be homorganic: mb, nd, ηg , mgb=[η mgb].

Any vowel following a nasal consonant (\underline{m} , \underline{n} , \underline{n} , \underline{n} , \underline{n} , \underline{n}) is automatically nasalized; this nasalization is therefore not written: $\underline{n}\underline{5}\underline{n}\underline{5}$ five, $\underline{m}\underline{a}\underline{b}$ it is-enough, $\underline{m}\underline{a}\underline{b}$ he is-thin.

The clause-final particle $\underline{-i}$, called a clause marker and abbreviated \underline{cm} in this chapter (see also 5.1.1), is also automatically nasalized immediately following a nasal vowel: $\underline{k} \underline{\phi} \underline{\phi} \underline{\phi}$ it's-skin. This is true also if the nasal vowel is separated from the clause marker by the glottal stop: $\underline{ba}^{"}\underline{\phi}$ it's-an-egg. The verbal noun suffix /lí/ shows the same automatic nasalization pattern: $\underline{k}\underline{a}^{"}\underline{\phi}$ to be-cold. These nasalizations wouldn't need to be written in the popular orthography, although several younger Dii prefer to write them.

After a short nasalized vowel, if no other consonant closes the syllable, the final consonant is seemingly restricted to a glottal stop: <u>kà</u>' he is-cold, <u>sà</u>' he cuts, etc. Only eleven exceptions have been found: <u>hà</u> he breaks-off (leaf), <u>he</u> he sets (a post), <u>hì</u> he snores, <u>hò</u> he sees, <u>ò</u> he says, <u>sò</u> (foot) is-asleep, <u>yá</u> he hides-in-order-to-do-evil-to (someone), <u>yà</u> he attains, <u>yè</u> this, <u>yó</u> he melts (metal), <u>yò</u> there (near by).

When a glottal stop or g [gh] occurs between two short vowels of identical quality, these vowels are treated in Dii as a complex but unitary syllable nucleus (see 1.3), forming what is here termed a 'double vowel'. The restriction is that each of these vowels must be short and of identical quality: <u>yigid</u> shadow, shade, <u>zígid</u> sweet, <u>vágád</u> human life principle, <u>yógó</u> tomorrow, <u>sùgud</u> cotton.

When those verbs of the first group that end in a short vowel take a third singular pronoun object, this pronoun is suffixed to the verb and has the form: g[gh] plus a vowel identical in quality to the immediately preceding one. Thus: $\underline{mi \ vi \ hen}$ I ask something, but $\underline{mi \ vigi \ hen}$ I askhim something. The vowel of the pronoun is thus not \underline{u} or \underline{o} , as for the other verb groups (3.8.10), but is restricted to the quality of the immediately preceding vowel, thus creating a double vowel.

Last of all, certain vowel modifications occur so frequently that they're found in almost every Dii sentence.

-In the temporal and locative (telo) suffix /lí/,

-the verbal noun (vn) suffix /lí/, and

-in the clause markers (cm) $\underline{\acute{u}}$ and /né/,

some (but not all) speakers modify the suffix vowel, assimilating it somewhat to the height of the preceding vowel, as is shown in Table 1.7 (see also 3.4.2, 3.9.1, and 5.1.1). The exact assimilation that occurs for a given vowel following a given morpheme depends on the speaker involved, since these vowels aren't all modified in exactly the same way by all speakers; the forms cited here are as used by my two principal informants.

Although <u>none</u> of the assimilations mentioned in the preceding paragraph are contrastive in these suffix vowels, each assimilation involves distinction(s) that are phonemic elsewhere in Dii phonology: nasalization, and 3 or 4 levels of vowel height. We could write them with cover symbols in technical writing (E, I, O, and \forall), using capital letters to remind the reader that the assimilations being described are morphophonemic in nature. Such cover symbols aren't very helpful to the Dii reader, however, so these vowels are written in this work and in the popular orthography by symbols reflecting more closely the pronunciation.

Table 1.7 lists in the left margin the preceding vowel and/or consonant which condition(s) the assimilation of the suffix vowel. Across the top of the table are listed the several morpheme titles in / /, with the concrete realizations of these morphemes directly below each.

The bar / in the first three columns of Table 1.7 means 'either/or,' depending on the speaker and the preceding morpheme. For the cm $\underline{\underline{u}}$ in column four, the first option occurs when the preceding syllable ends in a consonant, the second when it ends in a vowel. This second option is initiated by an unwritten glottal stop (<u>'</u>) and is written as a separate word in the popular literature.

Table 1.7 outlines the assimilations referred to above. The negative clause marker /né/ is pronounced either <u>ní</u> or <u>né</u>. The vowel of

the temporal-locative /lí/ is realized either as $\underline{i}, \underline{i}$ or \underline{e} . That of the clause marker $-\underline{i}$ is pronounced $\underline{i}, \underline{i}$, or \underline{e} ; that of the clause marker \underline{i} is realized either as $\underline{u}, \underline{i}$, or \underline{o} , etc. A high suffix vowel following a nasal consonant is simply nasalized, but a 'low vowel' as defined in this chart is lowered even further when preceded by a nasal consonant or a nasalized vowel.

Although some Dii have a less complicated set of realizations than those shown in Table 1.7, all speakers seem to retain <u>some</u> assimilation due to the preceding context. Some examples of the assimilations as per my principal informants follow. As elsewhere in this section, the abbreviation 'cm' will be used, ignoring for the moment the finer distinctions of aspect and mood that will be treated in detail in chapter 5.

TEMPORAL-LOCATIVE (telo) SUFFIX /lí/

<u>liggí</u> in the house	<u>be"í</u> in the sky
<u>kè'emé</u> in the entry house	<u>la"í</u> in the tree
<u>hú"í</u> in the group, herd	<u>kòddí</u> in the woods
<u>mènné</u> in the afternoon	<u>yạg kà'ạmé</u> in the morning
sèy tóólí at another time	-

VERBAL NOUN (vn) SUFFIX /lí/

<u>híílí</u> wanting, loving	<u>pìmní</u> heating up
<u>tùlí</u> guarding	<u>báané</u> wandering-around-lost

CLAUSE MARKER (cm $-\frac{1}{2}$) WITH FINAL NOUNS $\underline{Mi h \dot{0} y \dot{u} \dot{u}}$.I see (a) head-cm. $\underline{Mi h \dot{0} kaa \dot{1}}$.I see (the) village-cm.

CLAUSE MARKER (cm $\underline{\acute{u}}$) WITH FINAL VERBSYa pì \acute{u} .It is-hot cm.Mam kà" \acute{q} .(The) water is-cold-cm.

NEGATIVE CLAUSE MARKER (cm /né/)<u>Mí hòn kaa né</u>.I don't see (the) village.Zága pìn ní.(The) sun isn't hot.

CLAUSE MARKER (cm no) WITH FINAL POSSESSIVES

<u>Waa míí nu</u> .	Child my cm (He's my child.)
<u>Waa wòò nɔ</u> .	Child his cm (He's his child.)
<u>Waa vòò nɔ</u> .	Child their cm (He's their child.)

preceding conditioning context	vn /lí/	cm	 cm - <u>ì</u>	cm <u>ម</u> ੰ	cm <u>no</u>	neg cm /né/
$i/u \pm C(C)$ -	-í			-ú/ú	nu	ní
$i/\dot{u} + N$ - or $i/\dot{u} \pm C(C)$ -	-į́	-į́	- <u>Ì</u>	-ų́/ų́	nu	ní
іцеровар	-í	-í	-ì	-ú/ú	no	né
$N + low V \pm (C(C))$ low $V \pm (C(C))$ - o low $V/V + N$ -	r	- <u>į</u> ́/-ę́	- <u>ì</u> /-è	-ý/ý	no	né
Table 1.7: Vowel a condition				eral morphem	ies, and	l their
The abbreviations i	in Tabl	e 1.7 h	ave the follov	ving meaning	5:	

С	any non-nasal consonant
Ν	any single (or doubled) nasal consonant
V	any oral vowel, short, long, or double
Ý	any nasal vowel, short, long, or double
low V	iueeoeao
()	optionally present
/	either/or, depending on the speaker and the preceding morpheme

Since not all phonemes occur in initial or final position in syllables, or medially in a word, the following tables indicate the distribution combinations (and thus restrictions) attested so far with an x. Table 1.8 shows which consonants have been found in initial and final positions in syllables, and medially (alone) between vowels in words. Ideophones were included when this table was compiled. Consonant order is as found in Table 1.1. \underline{S} , \underline{f} , \underline{k} , and \underline{v} occur syllable-finally only in borrowings, so are placed in parentheses.

consonant	initially <u>in syllables</u>	alone medi- <u>ally in words</u>	finally <u>in syllables</u>
p	X	X	
t	Х	Х	
k	Х	Х	(x)
,	Х	Х	X
kp	Х	Х	
b	Х	Х	Х
d	Х	Х	Х
g	Х	Х	Х
gb	Х	Х	
mb	Х	Х	
nd	Х	Х	
ŋg	Х	Х	
mgb	Х	Х	
6	Х	Х	
ď	Х	Х	
f	Х	Х	(x)
S	Х	Х	(x)
h	Х	Х	
V	Х	Х	(X)
Ζ	Х	Х	
g [gh]		Х	
nz	Х	Х	
m	Х	Х	Х
n	Х	Х	Χ
ŋ	Х	Х	Х
1	Х	Х	Х
vb	Х	Х	Х
r	Х	Х	Х
W	Х	Х	Х
У	Х	Х	X
'm	Х	Х	
'n	Х	Х	
'w	Х	Х	
'у	Х	Х	
Table 1.8:	Initial, medial, an	d final consonant occ	currences

<u>s</u> (<u>e c</u>	1	<u>n (</u>	1	<u>C</u>	<u>1 0</u>	<u>1 S</u>	<u>0 n</u>	<u>a n</u>	t 1	<u> 1 S</u>	<u>t e d</u>	C	<u>h</u>	0 C	<u>r 1</u>	<u>Z</u>	<u>o n</u>	t	<u>a </u>	<u>y:</u>
р				кр		d	g	gb	mb		ŋg	mgb		d	I				Z	gb	nz
	X X		Х		X X	v				Х			Х			Х		Х			
			х		Λ								х					x			
Λ				X			x			X			Λ	х		х		Х			
	x		**				**														
	х	х			х	Х			х	х			х	Х		х		Х			
	Х					Х		Х		х			Х			Х			Х		Х
	Х	Х	Х	Х	Х	Х	Х	Х		Х	Х	Х	Х	Х		Х	Х		Х		
	Х				Х																
	Х	Х			Х	Х	Х		Х	Х						Х					
										Х					Х						
m		n	n	1	vł	•	r	w	V	'n,	'n	'w	' v								
111		X	ŋ	I	vi	,	T	**	y	111	11	**	y								
				х																	
		х							Х			Х	х								
		х		Х					Х	х											
									Х												
							Х														
Х		Х		Х																	
		Х																			
Х		Х	Х	Х	Х				Х	Х		Х									
				Х																	
Х								X	Х												
		X		Х				Х	X	v											
		Х							Х	Х											

Table 1.9 contains a résumé of the attested occurrences (marked with an \underline{x}) of consonant clusters medially in words. Ideophones and foreign words assimilated into Dii were included when the table was compiled. In borrowings, Dii permits \underline{f} , \underline{k} , \underline{s} , and \underline{v} syllable-finally. The 'first consonant' in this table is the final consonant of one syllable, and the 'second consonant' is the initial consonant of the following syllable.

Anyone desirous of seeing the data behind Tables 1.8 through 1.14 can contact me personally, since those data lists are not included in the present work.

Table 1.10 contains the list of attested oral and nasal vowel qualities occurring with any given syllable-initial consonant. Ideophones were included when the table was compiled.

Those oral and nasal vowel qualities that occur with given syllable-final consonants are shown in Table 1.11. Syllable-final clusters (except -yn) are found only in ideophones (1.8).

Since short, long, and double vowels don't seem to occur with equal facility before all syllable-final consonants, Table 1.12 displays those combinations that have been attested, for both oral and nasal possibilities. A \underline{z} indicates when the pattern(s) are only exemplified by ideophones or expletives. An \underline{x} indicates all other attested forms. It seems there are systematic restrictions against double vowels before ' and g, nasal vowels before 1, and against long and double vowels before <u>n</u>. Other gaps in the table may be only accidents of the data.

Table 1.13 displays the combinations of differing oral and nasal vowel qualities that occur in syllable nuclei in bisyllabic words. The words are all of the consonant-vowel shape CV(C)-CV(C), i.e., either syllable might be open or closed. Vowel length is not indicated in Table 1.13.

Table 1.14 displays which syllable-initial consonants have been found to occur in syllables with the different syllable-final consonants.

	Vowol ovolitios
Initial	<u>Vowel qualities:</u>
<u>consonant</u>	iie e ə a ɔ o ʉ u j ę ş ą ç ų
р	* * * * * * * * * * * * * * * * * * * *
t P	X X X X X X X X X X X X X X X X X X X
k	X X X X X X X X X X X X X X X X X X X
, ,	X X X X X X X X X X X X X X X X X X X
kp	X X X X X X X X X X X X X X X X X X X
b b	X X X X X X X X X X X X X X X X X X X
d	X X X X X X X X X X X X X X X X X X X
g gh	X X X X X X X X X X X X X X X X X X X
gb	X X X X X X X X X X X X X X X X X X X
mb	X X X X X X X X X X X X X
nd	X X X X X X X X X X X X
ŋg	X X X X X X X X X X X X X X X X X X X
mgb	X X X X X X X X X X X
6	X X X X X X X X X X X
ď	X X X X X X X X X X X
f	X X X X X X X X X X X X X X X X X X X
S	X X X X X X X X X X X X X X X X X X X
h	X X X X X X X X X X X X X X X X X X X
V	X X X X X X X X X X X X X X X X X X X
Ζ	X X X X X X X X X X X X X X X X X X X
nz	X X X X X X X X
m	X X X X X X X X
n	X X X X X X X X
ŋ	X X X X X X
ĺ	X X X X X X X X X X X X X X X X X X X
vb	X X X X X X X X X X X X
r	X X X X X X
W	X X X X X X X X X X X
у	X X X X X X X X X X X X X X X X X X X
'n	X X X X X X X X
'n	X X X X X
'w	X X X X X X X
'y	X X X X X X X X X X X X X X X X X X X
Table 1.10:	Oral and nasal vowel qualities occurring with syllable-
	initial consonants in open or closed syllables
	· ·

V	0	W	7.6	e 1		q		u	а	1	i	t	i	e	s			final consonants (in descending order of frequency)
					a						į	ę			Q	ų		
K	X	X	X	X	X	X	X	x	X		x	X	X	x	X	X		d
K	X		X	X	X	X		X	X		X	X	X	X	X	X		g
K	Х		X	X	X	X		X	х		X	X		X	X	X		ŋ
K	Х	X	X	X	X	X	x	X	Х		X	X	X	X	X	X		,
x	X	X	X	X	X	X	x	X	X			X	X	X	X			n
K I	Х	X	X	X	X	X	X	X	Х		X	X	X	X	X	X		m
K I	Х	X	X	X	X	X	X	X	Х			X		X	X			b
x		X		X	X	X	X	X	X		X	X		X	X			у
X	Х		X		X	X	X		X			X		X				W
	Х		X	X	X	X		X	X									r
			X		X			X	Х									1
					X													rb
	Х					X												rd
					X													vb
 Та	- bl	e i	- 1.1	1:					nas ts s						ali	ties	occurrin	g with syllable-final

V	VV	V'V	VgV	Ý	Ϋ́Υ	Ų'Ų	У gУ	(in descending order of frequency
K	X	Х	X	X	X	X	X	d
K	Х	Z	Z	Х	х			g
K	Z			Х				ŋ
K	Z			Х	Z			,
X	Х	Х	Х	Х	х	х	Х	n
X	Х	Х	Х	Х	х	х	Х	m
X	Х	Х	Х		х	Х		b
K	Z	Х	Х	Х		Х		У
x	Z			X				W
Z	Z							r
K	X							1
x								rb
	X							rd
X								vb

first	$\frac{\mathrm{V}}{\mathrm{\cdot}}$		W							<u> </u>						b	
<u>llable</u>	i	i	e	ε	ə	a	с	0	ŧ	u	į	ç	ş	ą	Q	ų	
i	X		X	X		X	X	X	X	X		X		X	X		
i		X	X			X	X		Х								
e			X	X													
ε		X		Х	X							X					
ə			X		X			X	X	Х							
a	X	X	X	X	X	X	X	X	Х	X		X		X	X	X	
с	X		X		X	X	Х	Х									
0			X					Х									
ŧ		X		X	X	X	X		Х						X		
u	X			X		X	Х			Х				X			
į											Х			X			
ę		X	X	X		X		X				X					
ş		X			X								X				
ą		X	Х			X	Х	Х		Х				Х			
Q	X		X			X								X	X		
ų						X										Х	

syllabl	e-		 11 a	 h l	 e-f		al (nai	 n t				
initial	C											m le	eft to	n rie	oht)
conson	ant	<u>d</u>	g	n ŋ	, ,	n	m	b	y y	W	r	1	rb		vb
<u>conson</u>		u	Б	IJ		11	111	U	3	••	T	I	10	14	
	р	X	X	X	X	X	Х	Х							
	t	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х			
	k	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х		
	,	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х		Х	
	kp	Х	Х	Х	Х	Х	Х		Х	Х	Х		Х		
	b	Х	Х	Х	Х	Х	Х	Х	Х		Х	Х			
	d	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х			
	g	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х				
	gb	Х	Х	Х	Х	Х	Х	Х	Х		Х				
	mb	Х	Х	Х	Х	Х	Х	Х	Х	Х					
	nd	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х			
	ŋg			Х		Х	Х	Х	Х	Х	Х				
	mgb	Х	Х	Х		Х	Х	Х		Х	Х				
	6	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х				Х
	ɗ	Х	Х	Х	Х	Х	Х			Х	Х				
	f	Х	Х	Х	Х	Х	Х		Х	Х	Х				
	S	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х				
	h	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х				
	V	Х	Х	Х	Х	Х	Х		Х	Х					
	Z	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х			
	nz	Х	Х	Х		Х				Х	Х			Х	
	m	Х	Х	Х	Х	Х	Х		Х						
	n	Х	Х	Х	Х	Х	Х	Х	Х						
	ŋ														
	1	Х	Х	Х	Х	Х	Х	Х	Х	Х					
	vb	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х				
-	r	Х					Х	Х							
	W	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х			
	У	Х	Х	Х	Х	Х	Х	Х	Х	Х		Х			
	'm	Х	Х	Х	Х	Х	Х		Х						
	'n	Х	Х	Х	Х		Х								
	'w	Х	Х	Х	Х	Х			Х	Х					
	'у	X	X	X	X	X	X								
Table	1.14: C	o-oc onso			of s	ylla	ble-i	nitia	al an	d sy	llabl	le-fi	nal		

1.8 PHONOLOGY OF IDEOPHONES

Ideophones are words that have often been called 'descriptive adverbs' or onomatopoeia. They're used to intensify an idea, convey a particular impression or 'color,' or to imitate specific sounds (or the absence of sound!). See 3.11 for a fuller definition.

Ideophones depart from the 'regular' Dii phonological rules in several ways. Most of the following observations are based on lexical frequency or occurrence, not on occurrence in texts of recorded spoken Dii. There are undoubtedly also other characteristics, but I've found the following observations to be true.

The first three [now two!] characteristics might be called distinctive, and deal with structures not found in non-ideophones.

1. All non-ideophones (except a few verbs which can end in - are limited to a single consonant syllable-finally. Ideophones, howe may have a CVCC pattern ending in $-\underline{rb}$ or $-\underline{rd}$, (see Table 1.12). fird imitation of a person's outcry, scream,				
karb karb / kparb kparb	imitation of the sound of walking with hide sandals,			
nzóórd	very thin.			

2. A three-level tone system is found throughout Dii syllable structures. Several ideophones, however, permit an extra-high or an extra-low tone.

dùỳ	imitation of the sound of pawing around on the
	ground, raising dust,

'má' exactly equal.

[3. The labiodental flap \underline{vb} may occur syllable-initially or wordmedially in Dii, but it occurs word-finally only in ideophones. The symbol $^{\circ}$ is used to indicate indefinite lengthening of the preceding phoneme, which in this case means the flap becomes a trill.

6ávb°/6ávbvbvb imitation of the sound of a horse galloping.

Some previous informants used the above form; more recent informants use a related form only:

bávbàvbà imitation of the sound of a horse galloping, which of course does not have a final -vb. Until another (or more) examples of final -vb are found, this assertion no. 3 is suspended.] The following additional phonological characteristics of Dii ideophones must be described in terms of tendencies rather than absolutes. Again it should be noted that the overall structures are shared by ideophones and non-ideophones, but certain structures are <u>more</u> <u>frequent</u> in ideophones than in non-ideophones.

4. The phoneme \underline{r} , an alveolar flap or trill (see next paragraph), occurs almost exclusively in ideophones, where it's found word-medially and finally.

hòòr	rising all together,
kirib	imitation of the sound of a cat pouncing on its prey,
kə´rbəd	round,
kàráb	crush with a single blow,
à r	imitation of the sound of a belch.

In medial clusters, \underline{r} is a flap, but it's usually a trill when occurring finally. In rapid speech, this final trill may be reduced to a flap. The only four non-ideophones currently attested with \underline{r} are the following.

bárávbád	instinct,	good	sense,
----------	-----------	------	--------

kerbed	porcupine,
nereeu	pere apine,

kpərgód turtle,

ndð r no! (a response showing the speaker is irritated, angry).

Borrowings from Fulfulde or French have considerably increased the number of <u>r</u>'s in contemporary spoken Dii; traditionally Dii had very few non-ideophones with <u>r</u>. My June 1992 list of 596 Dii ideophones, however, showed 35 with <u>r</u>, or 5.9%.

5. The majority of ideophones end in a consonant (80.5%, or 480 in the 1992 sample of 596 items), while non-ideophone vocabulary has consonant-final shapes in only 51% of the tokens (using 1982 dictionary data containing 4,031 entries).

6. While all vowel qualities, oral and nasal, long and short, occur in Dii ideophones, the majority of ideophones retain identical vowel quality throughout the morpheme. Some examples follow. dímbiliid very very small,

háágá	very light in weight,
kələlələ	imitation of a woman's cry or yodel,

mgbìgìlíglíg	very sweet,
pívbíd	very steep,
'migimig'mìgìmíg	large, robust,
'wàŋ̀gàlàŋ̀	imitation of the sound produced by a tree falling.

The only exceptions to this general tendency among the 596 ideophones of this study are the following 11 forms. hààhíí imitation of the sound of blowing a chief's trumpet				
hìigà	numerous,			
hỳgód	very clear bluish (water),			
hələli	shining brightly,			
iiyà	imitation of the sound of a lion coughing or roaring,			
kíláý	very clear (clean water),			
ndìlàŋ̀	flipping and flopping,			
túlii	imitation of the sound of blowing a <u>hòohòò</u> trumpet			
wóóe	imitation of the cry of a punished child,			
'médídí	covered with pox,			
'métég	very small.			

7. Dii ideophones tend to be more polysyllabic than nonideophones. The figures listed below are based on the number of syllables felt to be 'essential' to each ideophone to have its meaning. In addition to these 'essential syllables,' a large number of ideophones may be repeated several times to create a certain effect or in imitation of a sound; I've expressly excluded these 'stylistic' repetitions from the list below.

		of syllal 2	bles 3	4	5	totals
ideophones	306 51.3%	216 36.2%	54 9.1%	20 3.4%	0 -	596 100%
non-ideophones in dictionary 1972	· · · · · · · · · · · · · · · · · · ·	1,018 26.31%			3 0.08%	3,869 100%

8. The final tone-bearing phoneme (vowel or consonant) in some ideophones may be lengthened 'indefinitely.' dígíníní shining black,

gbòòòò	lost, hidden,
hòòòò	imitation of the sound of a fire, wind,
kəŋŋŋ	hold in hand without setting down,
sìm̀m̀m	very silent,
'naaaad	stretchy.

The only non-ideophones noted so far that exhibit this characteristic are the following adverbs and temporal morphemes. háááá/fáááá a long time, náaàà/í yògooo like that a long time,

wààníiì	very much,

zą́gą̀ą̀ą̀ą all day long.

9. A higher percentage of Dii ideophones than non-ideophones contain reduplication in their 'essential' form (as defined above in 7). Reduplication occurred in 213 of the 596-item sample (35.7%).

The non-ideophone exhibiting reduplication most frequently is the noun root (Bohnhoff 1971a (and 1971b):3.4.1), but even here the percentage isn't high: 89 out of approximately 1,150 roots, or about 8% in the 1972 dictionary. It should be stressed that this subclass of nouns seems to be a <u>closed</u> class, with all of its members (potentially) listable, whereas ideophones constitute an <u>open</u> class of thousands of tokens in Dii.

As may be noted from the examples below, reduplication involves only vowel quality, not length or tone.

Three types of reduplication are discernable: either the whole syllable is reduplicated, or some portion of the initial or of the final syllable is reduplicated. Although no strong conclusions should be drawn from the following statistics (since the sample is relatively small), it's nevertheless interesting to note that among the polysyllables in the sample (290), 114 exhibited total reduplication (39.3%), while 57 showed initial reduplication (19.6%), and 42 final reduplication (14.5%).

Examples of total reduplication are the following.							
bàtágbàtág	very dirty (water),						
kéńkéń	shining (moon, metal roof); white (clothes),						
'móý 'mòỳ	imitation of the sound of several mice squeaking together,						

'yúd'yúd being absent.

Examples of reduplication involving the initial syllable are the							
following.							
fififid	imitation of the sound of sniffing around,						
kpękpęękpęŋ	imitation of the sound of walking fast,						
'nà'nàà'nàg	soaked with oil.						

Examples involving reduplication of some portion of the final syllable are the following.

gìlìlì	imitation of the sound of animals or men fleeing,
kə́lə́lə́ŋ°	imitation of the sound of a bell ringing,
lúgúgú	lukewarm (water).

Quite probably these noun roots that exhibit reduplication are of ideophone origin (Welmers 1973:469-70) but in the synchronic description of Dii, they function like any other members of the invariable noun class. Semantically, as is frequently the case across West Africa, most of these nouns refer to insects, small animals, body parts, and a few refer to plants or birds. A few examples follow. bùbùgum toad, láláb butterfly,

vóóvoo mosquito (to avoid the taboo name <u>vád</u>).

To summarize, from the phonological perspective, Dii ideophones as a class can be characterized, in contrast to non-ideophones, as potentially exhibiting the following distinctive traits.

- 1. consonant-final CVCC patterns CVrd and CVrb,
- 2. an extra-high or an extra-low tone,
- 3. <u>vb</u> word-finally [trait suspended for the moment]

The following phonological tendencies are also visible, in contrast to non-ideophones (i.e., the structures in question aren't unique, but the frequency is significant).

- 4. They contain the phoneme <u>r</u> more frequently.
- 5. A larger number of their syllables are closed (CVC(C)).
- 6. They tend to retain identical vowel quality throughout.
- 7. They are more often polysyllabic.
- 8. They lengthen their final sonorant 'indefinitely' more frequently.
- 9. They exhibit more reduplication in their 'essential' form.

1.9 MORPHOPHONEMICS

The following sections are recommended for fuller details about several morphonemic phenomena:

Vowel height and nasalization assimilations to phonemes in the preceding context:

1-clause markers, positive /ú/ and negative /né/: section 1.7 and Table 1.7; section 5.1.1 and Table 5.1;

2-the temporal-locative suffix /lí/: section 1.7 and Table 1.7; section 3.9.1;

3-the verbal noun suffix /lf/: Esection 1.7 and Table 1.7; section 3.4.2 and Table 3.1.

The negative suffix //N//: a) exhibits partial assimilation to the point of articulation of the final consonant of the verb; b) causes HH and LL tones on the verb stem to be drawn to HM and LM before //N//; c) drops its syllable-final form -n if preceded by a long vowel and if followed immediately by the cm <u>né</u>: see section 3.8.3 and Table 3.6. The 'accompaniment verbal suffix' is idential to the negative: section 3.8.6.

Reciprocal verbs exhibit partial assimilation as in a) above; however they don't exhibit features b) and c), so I give this morphoneme the title $//N_2//$: see section 3.8.6 and Table 3.7.

CHAPTER 2

SYLLABLES AND THEIR COMBINATIONS

2.1 CV PATTERNS

The most frequent syllable patterns in Dii consist of an initial consonant C followed by a vowel nucleus V^{nuc} , with an optional final consonant, i.e., $CV^{nuc}(C)$, where parentheses indicate optionality. The vowel nuclei may be short V, long VV, overlong VVV, double V'V or VgV, or indefinitely long ° vowels. The tones associated with these syllables are discussed in section 2.2.

initia	l con	sonant		vowel nucleus	<u>fina</u>	l cons	sona	nt
р	t	k '	kp	with one tone,	b	d	g	,
b	d	g	gb	any V or Y				
mb	nd	ŋg	mgb					
6	ď			with two tones,	m	n	ŋ	
f	S	h		any V or Y	W	1 y	7	
V	Ζ					r		
	nz							
m	n	ŋ						
	1			with two tones,	b	d	g	,
vb	r			any VV or ŲŲ	m	n	ŋ	
W	У			any V'V or Y'Y	W	1 y	/	
'n	'n			any VgV or VgV		r		
'w	,	у						

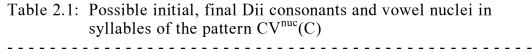


Table 2.1 gives an overall picture of which consonants occur initially in syllables, and which final consonants can occur with the various types of vowel nuclei. The number of tones associated with each subpattern of $CV^{nuc}(C)$ is also specified.

Overlong vowels VVV don't appear in Table 2.1 because they arise only from elision across syllable boundaries or from certain intonational modifications of vowel nuclei (Bohnhoff 1976, chapter 2). Specific restrictions on consonant and vowel co-occurrences are already listed in the tables and illustrations in sections 1.7 and 1.8.

There are a few less frequent CV patterns which are typically associated with specific grammatical categories or positions in sentences. In Table 2.2, N symbolizes a nasal consonant. Parentheses continue to indicate optionality. Ideophones are sometimes called 'descriptive adverbs,' and are more fully defined in 3.11.

<u>pattern</u> N(N)	<u>example</u> m	<u>t r a n s l a t i o n</u> exclamation showing irritation	<u>restriction</u> expletive
	ìnìn	yes	expletive
	'ǹт	sigh, groan	ideophone
'N(N)	'ḿḿ'm̀	no	expletive
	'm'mm'm	well then, yes	expletive
hNN	é"mhmm	oh no!	expletive
	hìnìn	exclamation of surprize	
	hṁṁ	describes the action of thinking	ideophone
CVyn	keyn	it's (not) pierced	stative/passive nega-
			tive verbs only
CVVrd	íírd	a scream	ideophones only
CVrb	kparb kparb	sound of walking in animal-skin sandals	ideophones only s
V(V)	-ì	untranslatable	limited to certain
		(see 5.1.1)	clause-final function words (clause markers)
	-áa	interrogative	sentence function word
CCVC	bred	bread	only in borrowed words
	klàs	class	
	bríg	brick	
	Kríddù	Christ	
Table 2.2: F	Patterns and ex	xamples of infrequent s	yllable structures

The number of open compared to closed syllables in spoken Dii is exemplified in Table 2.3. The text which served as a basis for this count was speech sample 2 in Bohnhoff 1976, appendix C. Also included are figures on the number of syllables without an initial consonant, and those with a nasal consonant syllable nucleus.

Of special note in Table 2.3 is that although there were over three times as many open syllables as closed, closed syllables did still comprise 24% of the total sample. Contrary to some African languages which have only open syllables, Dii has a relatively large percentage of closed syllables.

with initial C without initial C with vowel nucleus with nasal N nucleus closed syllables open syllables	8 V ^{nuc}	<u>nitial C</u> 3,262 27	<u>nuc</u> 8,2	88 1	1,	<u>nal C</u> 991 297	
Totals	8	3,289	8,2	89	8,	289	
Table 2.3: Types of	f syllable	s in spee	ech sam	ple 2			
	<u>number</u>	of sy				<u>rd</u> :	<u>Total words</u> :
speech	1	2	3	4	5	6	
sample 2:	5,241	1,281	138	13	3	1	6,677
dictionary totals:	2,765	1,128	298	50	3	0	4,244
	Table 2.4: Number of monosyllabic and polysyllabic words in speech sample 2 and in the dictionary						
		2		4	5	6	<u> </u>
speech sample 2:	78.49	19.18	2.07	.20	.05	.01	
dictionary totals:	65.15	26.58	7.02	1.18	.07	0	100%
Table 2.5: Percent in Table	•	he respec	ctive su	btotals	for e	 ach f	igure cited

The number of syllables per word is seldom the same in spontaneous speech as in dictionary entries. Tables 2.4 and 2.5 testify that there is a higher percentage of monosyllables in spoken Dii than in dictionary entries. Correspondingly, there is a higher percentage of words of 2, 3, and 4 syllables in the dictionary entries than in spoken Dii. Table 2.4 provides the raw data from which the percentages of Table 2.5 are drawn.

Of interest, however, is not only the fact that Dii words have a certain number of syllables, but also that certain grammatical categories have a high correlation with specific numbers of syllables and/or with open/closed syllable patterns. Table 2.6 is a collation of the grammatical categories of the first edition of the Dii dictionary (1972) entries with their syllable shapes and their number of syllables. Polysyllables are referred to as <u>bi</u>, <u>tri</u>, <u>quad</u> and <u>quint</u>; <u>cpd</u> stands for compound. Chapter 3 explains each grammatical category in greater detail.

The following conclusions can be drawn from Table 2.6. --Nouns are heavily of the CVC pattern, whether noun roots (n_1) or nominalizations from verbs (n_2) .

--The CVC pattern for monosyllabic n_1 nouns (456) comprises 38.1% of the total n_1 group.

--Many n_1 nouns are, however, bisyllabic (32.3%).

--Over half of the n_2 nouns (57.6%) are of the shape CVC.

Remember a V in Table 2.6 stands for a short or long vowel, but <u>not</u> a double vowel. Double vowels are indicated by V-V.

Pronouns are usually of the shape CV (40.4%), but many are also CVC (25%), while very few contain double vowel syllable nuclei.

Qualifying adjectives are mostly of the shape CVC (47.6%).

Intransitive verbs are usually of the CV (39.4%) or CVC (46.1%) shape, and few have double vowel syllable nuclei. The repetitive verbs, however, have a relatively high percentage of double vowel syllable nuclei (36.8%), but also have many CV forms (48.3%).

Transitive verbs have about an equal number of CV (42.9%) and CVC (43.4%) forms.

In Table 2.6 all compounds were lumped together into a single category. In Table 2.7 they're broken down also by number of syllables, and in Table 2.8 the totals from Tables 2.6 and 2.7 are compared to each other.

category	<u>n</u>	v	cv	<u>cv-v</u>	CVC	cv-vc	bi	tri	quad	auint	cnd	total
adverb	<u>_11</u>	V	9	1	16	2	10	$\frac{u}{2}$	<u>quuu</u>	<u>quint</u>	<u>epa</u> 7	<u>- totui</u> 47
<u>na</u> adverb			1	1	2	-	8	-			,	11
clause marker		3	14	3	2		2				9	33
demonstrative			11		_		_					11
expletive	4		31		33	3	23	8			2	104
focus adjective			3									3
fraction					1			2				3
ideophone (CVCC: 2)	2		36	2	170	18	107	23	10		5	375
indefinite adjective			1				1					2
locative			15	5	15	5	8	1			1	50
limiter					1		2	1				4
place locative			3		7	1	5	6			8	30
noun 1			171	35	456	65	387	75	7	1		1,197
noun 2			21	2	68	19	4	4				118
compound noun											567	567
kinship noun			2	1	1						20	24
non-personal pronoun			5		3						1	9
number			1	1	2		15	8	1			28
plural			1				_					1
proper name					_		5				-	5
possessive	2	1	13		-y: 1						2	19
pronoun	2	3	42		26		10				21	104
qualifying adjective1		1	14	3	40	6	18	2				84
qualifying adjective 2			13	2	17	13	1					46
<u>na</u> qualifying adjective	e		0				5					5
recall adjective			8	1	0		0				2	8
relator			18	1	8	2	8	0	1		2	37
temporal		1	10 5	3	9	2 2	11	8	1		17	61
temporal-locative		1 2	5 14		3	Z	1					12 25
auxiliary verb descriptive verb		2	2		9							23
desiderative verb			$\frac{2}{2}$									$\frac{2}{2}$
equative verb			1									1
intransitive verb			136	20	159	28	2					345
inchoative verb			150	20	5	20	2					6
intentional verb			3		1							4
locative verb			2		-							2
perception verb			2		1							3
repetitive verb			42	32	11	2						87
say transitive verb			1			-						1
transitive verb			307	43	311	45	10					716
verbal noun			2				4					6
misc. particles		2	6		2		1					11
misc.			14	1	10	1	6				3	35
Totals:	10	13	983	155	1389	212	654	140	19	1	665	4,244
category	n	V	cv	cv-v	cvc	cv-vc	bi	tri	<u>quad</u>	quint	cpd	total
% of total:	<u>n</u> .2	$\frac{\mathbf{v}}{.3}$	23	3.6	32.7	5.0	15.4	3.3	.4		15.7	99.69
+ -y: 1 = .02%,	CV	CC:	2 = .	.05%								
Table 2.6: Collation o						of dicti	onary	entr	ies wit	h shaj	pe of	
syllable an	d nu	mbe	r of s	yllabl	es		-			-		

category	bi	<u>tri</u>	quad	quint	totals
adverb	6	1			7
clause marker	9				9
expletive	2				2
ideophone	3		2		5
locative	1				1
place locative	8				8
compound noun	386	151	28	2	567
kinship noun	20				20
non-personal pronour	l	1			1
possessive adjective	2				2
pronoun	19	2			21
relator	1	1			2
temporal	15	1	1		17
misc.	2	1			3
Totals:	474	158	31	2	665
Table 2.7: Number o	f syllable:	s in compo	ounds in o	dictionary e	entries
mono	<u>bi</u>	<u>tri</u>	quad	<u>quint</u>	<u>total</u>
roots: 2,765	654	140	19	1	3,579
compounds: 0	474	158	31	2	665
Totals: 2,765	1,128	289	50	3	4,244
65.15%	26.58%	7.02%	1.18%	.07%	100%
Table 2.8: Numbers					2.7)
contrasted	with those	se of roots	trom Ta	able 2.6)	

2.2 TONE

Tone is mostly lexical in Dii, and one or two tone(s) are attached to each <u>syllable</u> (not to the vowel!), such that a given tone must be pronounced on whichever phoneme it falls, whether consonant or vowel. Only a few tones are modified in given grammatical contexts.

The Dii are conscious enough of their 3 phonemic tone levels ('voices' in Dii: \underline{yeg}) that they've given each a name:

		~	0	
<u>yég 'méń</u>	tiny voice,		or <u>yég gúba</u>	voice above,
<u>yég waa</u>	small voice,		or <u>yég sàạmé</u>	voice in the middle,
<u>yég gbòò</u>	large voice,		or <u>yég hágá</u>	voice below.

Five or six phonetic pitch levels can easily be distinguished, however. If two or more otherwise identical morphemes are distinguished only by their tones, we will call them a minimal tone pair, triplets, quadruplets, quintuplets, etc.

Due to the relatively few minimal tone triplets in Dii, the Dii Literature Committee finds it necessary to write only one tone in the literature it produces: the high tone. This tone is indicated by the acute accent: <u>gb5</u> he hits. But in this work, all 3 are distinguished: / / for high (H) tone, / / for low (L) tone, with mid (M) tone unmarked.

As indicated earlier, the tone(s) on a given syllable are analyzed as attached to the <u>syllable</u>, not just to the vowel. Thus in Table 2.1, 2 tones are attached to any syllable consisting of a short vowel followed by a nasal or other sonorant consonant. The second tone is pronounced on the final consonant, and is thus marked here, and in the dictionary. Syllables containing long or double vowels distribute their two tones on the vowel, so the syllable-final consonant in these syllables does <u>not</u> bear a contrastive tone. Such final consonants are pronounced with a tone matching that of the latter half of the vowel.

The following groups containing tone-bearing final consonants illustrate the above point.

noun 'we'
pronoun
<u>à</u> and 11'
times
plant
sound of someone
ve)
ophone)
eophone)

We find many minimal tone pairs and quite a few minimal tone triplets in Dii, along with a few quadruplets and quintuplets. An abbreviated list follows, but there are many others in the language. Note that the tone is always written on both vowels of a long vowel. See 3.8.19 for other examples.

béé	he calls several	bíí	sticker on end of some grass seeds
		bíi	he listens closely (in all directions)
bee	call	biì	emphatic logophoric pronoun
bèe	grass fence	bìi	he pours into (a large- mouthed receptacle)
bèè	he calls	bìì	he adddresses (someone)
býý	thunder, lightning	6áá	he precedes
bçç	certain kind of vine	báə	he crushes (with his fingernail)
bòç	he soaks (a garment)	бәә	he builds-up, tapering inwardly
bòò	eagle	699	he leans on, pushes down on
díí	stem, trunk	fíí	he returns home
dii	mouse, rat	fii	it becomes dark
dìi	he's handy, capable	fìi	he gives back
dìì	black, Dii (Duru)	fìì	commerce (Ful)
fóó	he plays	gáá	he glistens
fóo	he caresses; he rejoices	gáa wo	leaves or white garment orn by newly circumcized
foo	a certain blacksmith's tool	gaa	thorax

fòo	he cuts (weeds) the first time	gàa	she puts on (necklace)
fòò	he plasters with mud	gàà	he knows
hệệ	(rooster) crows	h úú	he diminishes in size
hệç	a pile of grass to be burned		
hęę	he sets several (posts)	h uu	dense forest, jungle
hệç	(tree) grows (branches)	h ùu	he puts down
hệệ	he takes a detour	h ùù	he sows broadcast
kíí	(beer) makes drunk	ką́ą́	he hunts
kíi	compound, house	kşş	(road, river) meanders
kii	it resounds	kşş	she gives birth to
		kàş	he cuts down
kìì	behind	kàð	it's crooked
		*** 3 3	
líí	he's straight, just	móó	your
líí	he's straight, just	móó	your
líí líî	he's straight, just then, exclamative	móó móo	your you emphatic
líí líî lìi	he's straight, just then, exclamative he makes straight	móó móo moo	your you emphatic word, palaver
líí líî lìi lìi	he's straight, just then, exclamative he makes straight it bears (fruit)	móó móo moo mòò	your you emphatic word, palaver he speaks
líí líî lìi lìì náá	he's straight, just then, exclamative he makes straight it bears (fruit) like that	móó móo moo mòò néé	your you emphatic word, palaver he speaks he's strong, hard
líí líì lìi lìì náá náa	he's straight, just then, exclamative he makes straight it bears (fruit) like that certain kind of lizard	móó móo moo mòò néé	your you emphatic word, palaver he speaks he's strong, hard
líí líì lìi lìì náá náa naá	he's straight, just then, exclamative he makes straight it bears (fruit) like that certain kind of lizard exclamative particle	móó móo moo mòò néé	your you emphatic word, palaver he speaks he's strong, hard

nóó	eye	są́ą́	he chooses (field)
		są́ą	forest not containing a river or stream
noo	he dies; poison for fishing	sąą	he guesses
nòo	he kills		
nòò	he gathers (honey)	sàà	he makes a dam; returns
séé	he moves	síi	he shows (teeth)
sée	he scolds, reproaches	sii	stomach
sèe	he makes come close	sìi	certain kind of plant
sèè	old	sìì	anteater
síi	arrow	táá	he thinks several times
sii	war, warrior	táa	spear
sìi	kind of parakeet	tàa	it itches
SÌÌ	he defends	tàà	he thinks
téé	where?	wáá	he covers (pot)
tée	and then	waa	child
tèe	he leads, guides	wàa	he has lots of pox
tèè	this, that (recall)	wàà	it forms pox, a blister
yéé	name, song	yíí	he drinks (soup)
yée	male	yíi	fish trap
yee	open court; kidney, back	yii	(couscous) is broken
yèe	he fans	yìi	he breaks several (balls
yèè	he chooses, they elect		of couscous)
yúú	he paddles, he drives	zę́ę́	small

y uu	it's soft, tender	zęę	fresh (meat)
y ùu	he tans	zệç	katydid
y ùù	he sharpens (knife)	zệệ	he scrapes off
áá	he digs up several	'wáa	he's finished
ąą	granary		
àá	what? (repeat)		
àa	he nurses, he sucks	'wàa	he finishes
àà	he digs up	'wàà	imitation of the sound of a gunshot

It's also important to study what the relative frequency of each of the three Dii tones. Table 2.9 lists the tone patterns (and their frequency) found on syllables in speech sample 2 (Bohnhoff 1976, appendix C). This table completes the information on types of vowel nuclei in sample 2 already detailed in Table 1.6.

Н	1,674	ML	21	
Μ	1,429	MH	15	
LL	1,212	HL	1	
L	1,060	HHH	6	
HH	994	MHHH	2	
MM	913	MMMM	2	
HM	586	HMH	1	
LM	348	MHM	1	
LH	23	MML	1	
total:		8,	289	
Table 2.9		f tone patterns occu	-	on vowel nuclei of
	Table 1.6 fro	om speech sample 2		

The count in Table 2.9 still doesn't provide us with the overall frequency of each of the 3 Dii tone <u>levels</u>, however. Long syllables should be broken down, each 'tone segment' receiving a count of 'one.' When each tone segment is weighted in this manner, it's found that:

H occurs	4,314	times in speech sample 2 (34.7%),
M occurs	4,240	times (34.1%), and
L occurs	3,878	times (31.2%).
	12,432	total 'tone segments'

No tone is ultimately found to be very much more frequent than any other in spoken Dii.

Several tone glides exist in Dii. HM and LM are very frequent on verbal and nominal dictionary entries, and need no specific documentation here. HL, ML and LH glides are rarer. Some examples:

HL	líì	then, exclamative
ML	baà	we two (emphatic)
LH	bàá/òó'	exclamation of surprize
	òó/èé/è̥ę́/ḁ̀á́	what? (asking for a repetition)
	òó'/àá'/ờớ'	exclamation of irritation
	fòód/vàń/ndà´r	insult, angry answer

Emotion and/or politeness may bring longer tone glides into being:

HMH néeé	well then! (clause-finally)
HML áaà	exclamation of grief
wààníì°	much (Ful)
HLM Q moo là áàa!	Good-bye!
MML woow	listen now! (clause-finally)
LMH lèw°	go fast and leave a wake behind in the water

Several ideophones that all have a final \underline{d} or \underline{w} , have been noted with what seems to be 3 tones (LHM, MHM, LML) on a single syllable:

MHM:	loód	overripe
LHM:	vbèéd	(mouse) entering its hole
	nòód	very dirty
LML:	bcćdm	with enough peanut sauce
	kpàaẁ	red

These glides all seem to revolve around a mid or low tone, with a pitch rise in the middle before the tone falls again. Too few examples have been collected to see how this phenomenon fits into the overall tone structures outlined in Table 2.1.

Some ideophones have special very-high or very-low tones that aren't possible in non-ideophones. This seems to mean ideophones use five tonal levels instead of the three used elsewhere in Dii. This particularity has already been examined in 1.8: <u>'má'</u> exactly equal, <u>dùn</u> imitation of the sound of pawing and raising dust.

Transitive/intransitive or transitive/auxiliary distinctions in verbs (3.8.17 and 3.8.19) are often accompanied by differences in tone (among other differences), but since each of these verb types is differentiated by internal and distributional characteristics already, tone is merely an additional difference between them. See also some transitive/stative/ passive relationships as discussed in 3.8.5.

2.3 STRESS AND JUNCTURES

Accent (or stress) in Dii is an emphatic stress, used where the speaker wants to emphasize a certain word in a sentence ($\underline{t}a'$ and $\underline{s}a$ in the following examples).

Mí <u>tà"</u> u kan síi.	I <u>shot</u> -him with (my) arrow!
Mí <u>sàg</u> a kan síig. (1B35)	I <u>pierced</u> -him with (my) spear!

Stress is analyzed in Dii as belonging to the intonation pattern. Each word does not have its own accent, and Dii thus has no words differentiated only by their accent, as Eng. '<u>import</u> (noun) and <u>im'port</u> (verb).

A stressed syllable is pronounced with a marked increase in force. There may also be a slight pause (juncture) before such a stressed word in Dii. In such a case, the initial consonant of the stressed word is often doubled, as in the following example (<u>llà</u>' instead of <u>là</u>').

Bàbàam tìi nag kpáag <u>llà</u>' kíddʉlí. (3-122, 123) Rabbit turns hand left hits tar-there (Rabbit pulls back his left hand and hits the tar-man.)

Several other junctures exist in Dii. They may be termed final, sustained, open, and close junctures.

<u>Final junctures</u> occur at the ends of grammatical sentences or in utterance-final position. This type of juncture is usually manifested by a slight downturn at the end of the intonation pattern. It's marked in written Dii by a period.

Sustained juncture is found especially following an initial subordinate clause, before the rest of the sentence is pronounced. If there are two or more such initial subordinate clauses, each will normally be followed by such a (potential) pause before the utterance continues. This juncture is most frequently manifested by a slight lengthening of the vowel in the two most frequent morphemes that close subordinate clauses: $\underline{máa}$ and $\underline{tée}$. Such a sustained juncture may also occur following the main clause, when a subordinate clause closes the sentence. This juncture is marked in written Dii by a comma.

<u>Open junctures</u> occur between those elements that are analyzed in chapter 3 as 'words' in Dii. They're manifested by a (potential) break in the stream of speech, and are marked in written Dii by the space between words. An example: Liggòò di kaalí. House-his is village-in (His house is in the village).

<u>Close juncture</u> is found between the syllables of polysyllabic 'words' as defined in chapter 3; to a lesser extent, it's also manifested between the elements of a compound word in Dii. Such compounds (e.g. a compound noun) may not normally be broken internally by the (potential) break which is open juncture. For example, <u>nàa</u> 'woman,' <u>gbà</u>' 'she guards,' and <u>wəə</u> 'husband' all may occur elsewhere as separate words, but the compound <u>nàa gbà' wəə</u> 'one of the planets (Jupiter?)' is knit together more strongly than are separate 'words' in the sense of chapter 3. Although it would be possible, and probably even desirable, to mark close junctures in compounds by writing hyphens between the elements of the compound, they're not written in the popular literature aimed at Dii readers because the Dii reject the symbol.

A close juncture can also occur between two words that are modified when contracted: <u>lig</u> 'house' + <u>wòò</u> 'his' become <u>liggòò</u> 'his house,' as in the sample sentence just above.

It seems important in the analysis of Dii to recognize the role of <u>potential</u> pauses or breaks between morphemes, words, or longer stretches of speech, as per Pike 1947a:123.

2.4 SYLLABLE-DIVISION RULES

The following set of rules may be used to divide a Dii text into syllables, or to place hyphens correctly at margins.

1. Long VV and double V-V vowels cannot be divided: dágá, dè'en, dìì, kègè, má'án, túú, tú'ud, yigid.

2. With the exception of \underline{i} and \underline{g} [gh] in the V-V pattern, any single consonant between two vowels goes with the following vowel: ki-rib, kó-lóń, kú-kà'a, ná-nán, vɛ-lí, wi-dó'.

3. Any doubled consonant between two vowels is to be divided, one consonant with each syllable: mam-mé, nán-nè, na'-'é, wòw-wòw.

4. The following consonants are di/trigraphs and cannot generally be divided: kp, gb, vb mb, nd, ŋg, mgb, nz 'm, 'n, 'w, 'y

kpà-kpá'ad, gbò-gbòò, mà-vbèè,
kí-mbá, ndù-ndùù, ŋgò-ŋgògòd, mgbò-mgbòg, nzù-nzú,
'mó', 'nɛɛ-'nèɛ, 'wó-'wóó, 'yá-'yá'.

5. With the exception of those consonants listed in number 4, any other combination of two consonants between vowels is to be split: dàm-dam, gìm-sìì, kég-dágá, kóń-kóń, kpám-lám, làb-làà, táń-tíib, wàn-bó'.

6. Exceptions to rule number 4 are sometimes of non-Dii origin, or sometimes contain reduplicated syllables, but some seem to have no apparent 'reason' for being exceptions: bəgəm-ba, bun-dukaa(le), dím-bìlíid, dúŋ-gúd, gbiŋ-gbiŋ, gbúŋ-gùm, màŋ-ginà, mban-zɔgɔlì, zùŋ-gbùŋ, 'wàŋ-gàlàŋ, 'wàŋ-gàlàŋ.

Several words with a medial prenasalized consonant retain the nasal in syllable division, but the two nasals are elided (and therefore only 'one' is heard) in the pronunciation:

syllable division	<u>pronunciation</u>
bíń-nda	bíńda
gbùỳ-mgbùỳ	gbùŋ̀gbùŋ̀
hàỳ-ŋgáá	hàŋ̀gáá
kàn-ndá	kàndá
pásíń-nzà	pásíńzà
sàŋ-ŋgàlàŋ	sàŋgàlàŋ

CHAPTER 3

ROOTS AND WORDS

3.1 DEFINITIONS

Roots, words: Dii roots and words can be defined as any units bound by the borders of phrase-level 'positions' or 'slots' which are not themselves clause or phrases. (See Longacre 1964:103, and the phrase definitions in 4.0). 'Words' are capable of word-level expansion by affixes, while 'roots' are 'minimum free forms' which cannot be further subdivided into other 'free forms'. Words may also be compounds.

Thus the expression <u>the beautiful tail of the peacock</u> contains the roots <u>the</u> and <u>tail</u> and the word <u>beautiful</u> (there is <u>beauty</u> and -<u>ful</u>), but <u>of</u> <u>the peacock</u> is inself a phrase which must be broken down into the roots <u>of</u> and <u>the</u>, and the word <u>peacock</u>.

In Dii the following are all 'roots,' incapable of division into smaller meaningful parts: <u>èè</u> 'yes', <u>wí</u> 'exclamation of surprise', <u>kó</u> 'he does', and <u>vu</u> 'plural'. Roots are always single morphemes.

'Morphemes' are defined as 'the smallest individually meaningful elements in the utterances of a language' (Elson and Picket 1967:2). Morphemes don't always correspond to 'words'. For example, <u>lions</u> is composed of two morphemes: <u>lion</u> and -<u>s</u> 'plural'. Similarly, <u>jumped</u> is divisible into jump and -<u>ed</u> 'past tense', both of which are morphemes. In the Dii langauge, <u>kón</u> 'he does-not' is composed of <u>kó</u> 'he does' and -<u>n</u> 'negative', while <u>kaalí</u> 'in the village' contains the two morphemes <u>kaa</u> 'village' and -<u>lí</u> 'location'. (See Table 1.7 for the alternate forms of -<u>lí</u> used in other contexts.)

'Allomorph' means 'other form', since a single morpheme may have two or more forms differing according to context. The $-\underline{s}$ of <u>lions</u> and the -<u>en</u> of <u>oxen</u> might be considered allomorphs of a single morpheme 'plural' in English. The Dii morpheme /lf/ 'location' mentioned above (the bars / / indicate the 'title' of a morpheme which has two or more allomorphs) has one allomorph after consonants: it generally causes the doubling of the preceding consonant and has the vowel -<u>f</u>; after a vowel, however, an 'l' is inserted (epenthetic) before the suffix vowel -<u>f</u>. <u>Kólí</u> 'doing' or 'to do' is a 'word' composed of <u>kó</u> 'do' plus the verbal noun suffix -<u>lí</u>. <u>Lig gáá</u> is also a 'word', containing <u>lig</u> 'house' and <u>gáá</u> 'visitor', a compound noun meaning 'guest-house'. Proper names, compound nouns, kinship nouns and place names are all called 'words' in Dii (see discussions on each below in this chapter), because they each occupy single positions on the phrase level. Such 'words' as <u>lig gáá</u> could be written with a hyphen or without a space between them to show their internal structure more clearly, but they are written as above to retain a constant visual image for each element before the Dii reader's eyes.

The morpheme /li/ 'time-location', always <u>written</u> as a suffix, is also a separate root, since it's an element on the phrase level filling the position 'relator' (4.8, 4.9).

Another example of possible confusion between word and phrase levels is seen in <u>dan nii</u> 'my older brother'. The -<u>n</u>, while written as a suffix, is actually analyzed as a root, an element on the phrase level filling the possessive position in the kinship noun phrase (4.2.8).

A word should be said here about clause markers, but this is difficult. All clause markers will be described on the <u>clause</u> level (5.1.2), and the reader is advised to see that section for a full description.

3.2 SYLLABIC STRUCTURES

Dii words and roots are usually monosyllabic. In twenty six pages of average text, I counted over six times as many monosyllabic words and roots as bisyllabic (1,852 to 289). Among the bisyllabic words, three quarters exhibited monosyllabic stems (212 to 77, leaving one quarter with bisyllabic stems). Only 10 words were trisyllabic: either contractions of two words, or distributive numerals, or containing a suffix on a bisyllabic stem. Words borrowed from other languages and proper names were not counted. See section 2.1 for fuller details, expecialy Tables 2.4 and 2.5 for statistics based on 'speech sample 2'.

3.3 PROPER NAMES

The nature of Dii proper names (pn) is diverse, as heavy borrowing has brought names from several sources into the language. Indigenous proper names are often combined and/or contracted forms of otherwise distinct Dii words, roots, or clauses, sometimes contracted to the point where some of the original forms are no longer discernible or known to native speakers.

Proper names occur in vocative slots in sentences or in head slots in noun phrases. We forego a tagmemic formula at this time, due to the extremely diverse nature of these names.

'Last names' are often borrowed from Fulani: Diinà, Sùmán, Múúsà, Sàlátù, Bòbózì, Hàẁwá, Aẁdí, Fáńtà; while many first names come from French: Jacques, Martha, Joseph, Paul, etc. A second term may be added to a name using the name of one's village, father or mother, for further precision.

Examples of indigenous Dii proper names:

Gbaŋgỳỳ	from <u>gban</u> chief, and <u>gò</u> ù shield (warrior)
Gbaŋ'ệná	from <u>gban</u> chief and $\underline{\grave{e}n}$ what + Q (3-83)
Bàas ù gwaa	from <u>bàa</u> man, <u>sùg</u> he gathers, <u>waa</u> child (name given to a Dii chief who keeps his people together well) (5-70)
Gbaŋkąąhòlę́	from <u>gban</u> chief, <u>kaa</u> pleases, and <u>hòlé</u> to see; 'beautiful chief'(4-43)
Kúńmbàà	from <u>kúń</u> he bends over, and <u>mbàà</u> he sits (name of the chief of Mbé) (3-99)
Máńwaané	from máń hates-NEG, waa child, and né NEG (3-96)
Bàabiig	from <u>bàa</u> sir, man, and <u>biig</u> snake (3-96)
Kulàyậạ Déń	Koulagna (from) Ngaouyanga

3.4 NOUNS

Our discussion of nouns will be divided into the following sections:

3.4.1 noun roots (n₁) a) possessable roots (n_{1a}) b) unpossessed roots (n_{1b}) c) possessed roots (n_{1c}) d) allomorphs before temporal-locative /lí/ (n_{1d})
3.4.2 verbal nouns (vn)
3.4.3 other nominalizations from verbs (n₂)
3.4.4 compound nouns (n_{cp})
3.4.5 kinship nouns (n_{kin}) a) unpossessed

b) possessed

Nouns generally fill head slots of noun phrases or axis slots of relator-axis constructions. The verbal noun fills the head slot of the verbal noun phrase as well.

3.4.1 <u>Noun roots (n_1) </u>. The majority of Dii nouns (n_{1a}) contain no affixes but are simply roots. Some examples of nouns possessable on the phrase level (i.e. capable of being possessed but not necessarily possessed) follow:

dàdàg	chin	lig	house
ɗàg	calabash	nag	hand

A small subclass of noun roots (n_{1b}) is never possessed (unpossessed) on the phrase level (see NP₂, 4.2.4):

bà'á	father	nà'á	mother
à'á	grandmother		

Another small subclass of n_1 roots (n_{1c}) which <u>must</u> be possessed on the phrase level (see NP₃, 4.2.5) is composed of:

bà' (míí)	(my) father	nà' (míí)	(my) mother
à' (míí)	(my) grandmother		

Still another subclass of noun roots (n_{1d}) has shorter allomorphs which occur before the temporal-locative /lí/ (3.9.1). Members of this subclass are:

yúlí	on the head (yúú)	nólę́	in the eye (n55)
fólę́	on the body (fóó)	ilcb	on the foot (doo)
velí	in the fire (vee)	silí	in the stomach (sii)

3.4.2 <u>Verbal nouns (vn)</u>. Verbal nouns (sometimes called infinitives) are 'words' and are characterized by 1) their derivation from the base forms of transitive, intransitive, stative/passive, reciprocal, descriptive, or repetitive verbs, and 2) the use of a single nominalizing morpheme /lí/ which has three allomorphs: $-\underline{li}$, $-\underline{ne}$, and $-\underline{i}$. The 'l' in the first form listed is treated as epenthetic after a vowel-final verb stem.

If the tone on the root is HH or LL on a long vowel or a shortvowel-plus-consonant, the tone is modified to HM and LM respectively before the allomorph -<u>né</u>. For example:

ním, nímní	wake up	líí, líiní	be straight
vúd, vúnní	go out.		

Some verbal nouns have a different tone on the stem of the vn than on the dictionary base form, for example \underline{ay} and \underline{ayne} in group 8.

Tagmemic formula: vn = +nuc:vns + nomr:/li/

Read: the verbal noun consists of a nucleus filled by a verbal noun stem (derived from a transitive, intransitive, stative/passive, reciprocal, descriptive, or repetitive verb base) plus a nominalizing element /lf/.

The three allomorphs of /lí/ in question are in complementary distribution describable mainly in terms of the final consonant of the verb stem, i.e., the same basis on which we set up the verb groups (3.8.2), being thus phonemically defined. With verb groups 1A and 1B, however, the distribution of the allomorphs is morphemically defined and the verbal nouns taking -<u>né</u> are cited as exceptions in the dictionary, since fewer verbs are involved. We have already discussed the morphophonemics of the final suffix vowel in this morpheme in section 1.7, see especially Table 1.7.

The only difference between verb groups 1A and 1B is the use of the suffix $-\underline{li}$ or $-\underline{ne}$. Although there seems to be no consistent way to predict all the occurrences of one suffix instead of the other, two partial correlations have been noted:

1) repetitive verbs (3.8.18) take $-\underline{ne}$. These verbs are indicated in the following list by: (repet).

2) Only the $-\underline{ne}$ form is used following double vowels (V'V, VgV); see also section 2.1.

The following are illustrations of the members of group 1B:àahe nursesbáahe goes-astray

bùu dề 'ệ gá 'a gbóo kè 'e kàə lèe làə ndógo s ùgu tồ 'o tú 'u v <u>ì</u> i wặặ y ì i yồo 'ná 'a 'wàa	he unties he cleans (he hits-with he hits (re- he takes-(s- he sweeps he rinses he sets (po- it hurts, gi he gathers he picks (f- he shows, he darkens he falls he breaks he stretche he steps-of he finishes	th-his-f pet) skin)-of osts)(rep ves-pai -togeth fruit) (r teaches s, black (cousco es-out (n (repet	f pet) n er (repet) epet) s (repet) ens ous)(repet) arm)	bèe dù'u gbàga hí'i kìgi kúgu líí nòo sàgə tìi tágə tù' u vbìi wá'a yóý zậạ 'wáa 'wá'a	he laughs-at he makes-balls-of (repet) he learns it is-straight he kills he cultivates (peanuts) he turns, changes he looks-closely-around he opens (door) he rolls (barrel) he counts (repet) he stretches he heals he is-finished
verb group	verb base	vn stem	suffix	vn	translation
1 1A 1B 2	gbź dàà yèe są̀'	gbó dàà yèe sà'	lí lí né í	gbólí dààlí yèené sà"ý	hitting cooking fanning (grain) cutting
	mbóg	mbóg	í	mbóggí	preparing
3	sə̀d	sòn	né	sànné	saving
4	pìb	pìm	ní	pìmní	heating (something) up
5	pàŋ̀	pà	né	pàné	carrying
6	ąn híń	ạn hín	né ní	ạnné hínní	burning mutual loving
7	nìm	nìm	ní	nìmní	waking (someone) up
8	ay	ay	né	àyné	entering in large quantity

Table 3.1: Verbal noun formation

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- -

Table 3.1 contains a list of the verb groups with reference to their base form and the stem changes before /lí/. Reciprocal forms fall in group 6, and stative/passive forms in group 8. Note the changes in final d, b, and η before the suffix.

Although -<u>né</u> occurs more frequently on Table 3.1, -<u>lí</u> is statistically more frequent in spoken Dii and is thus chosen as the title morpheme despite possible confusion with the temporal-locative /lí/.

Several of the final consonants of the verb bases are partially assimilated to the nasality of the suffix $-\underline{n\acute{e}}$: <u>d</u> becoming <u>n</u>, <u>b</u> becoming <u>m</u>, but <u>m</u> remaining <u>m</u>.

The verbal noun suffix /lí/ before the interrogative morpheme /a/ loses the vowel $-\underline{i}$ and becomes $-\underline{l}\underline{a}$, $-\underline{n}\underline{a}$, or $-\underline{a}$.

3.4.3 <u>Other nominalizations from verbs (n_2) </u>. Many nouns are formed on a verb stem by use of suffixes quite different from the /li/ of the verbal noun. There seem to be no synchronic rules for these formations, and these morpheme-final consonants are evidently survivals of former noun classes in this language family (Boyd 1989:205). The following distinctive characteristics are noted:

only transitive and intransitive verb bases are involved as stems,
 the stem changes, in comparison to the verb base, are not nearly as regular as with the verbal noun, but several trends may be seen at work:

- a) suffixation (with -<u>m</u>, -<u>n</u>, -<u>'</u>, -<u>d</u>, -<u>g</u>, or -<u>b</u>, and some verbs also show modification of their stem vowel);
- b) no consonantal or vowel change between the verb and the noun, but often with a tone change;
- c) suffixation of -g or -<u>n</u> with a loss of <u>n</u>, <u>n</u>, <u>'</u>, or <u>g</u> in the verb stem;
- d) shortening or lengthening of the verb base to form the noun.

There are irregular tone changes in many of the forms, but these irregularities have not been incorporated into the present description. Note the insertion of euphonic vowels with verb stems ending in -g, -, and $-\underline{n}$.

Only 88 n_2 nouns were found at the time when there were in 3,160 entries in the dictionary.

Tagmemic formula:

 $n_2 = +nuc:v_{tr}s/v_is + nomr:\underline{m/n/d''/g/b/\emptyset}$ shortening/lengthening stem Read: n_2 consists of a nucleus filled by a transitive or intransitive verb stem plus a nominalizing element <u>m</u>, <u>n</u>, <u>'</u>, <u>d</u>, <u>g</u>, <u>b</u>, or Ø, or the shortening or lengthening of the verb stem. Irregular tone differences have not yet been included in the above formula.

Examples:

a) with suffixation (with modification of the verb's vowel in some stems):

<u>with su</u> g à à kàg kà' noo pí wąą	ffix -m: he complains he encloses it is-cold he dies he sets-snare he breathes	gỳm/gỳỳm kàgàm (yậg) kà'ậm nom píím wỹm	complaint enclosure cold death snare breath
with su	ffix -n [.]	2	
kậậ wậậ	he strains (liquid) he plays	kààn wàn	strainer for liquids African bell
with su	ffix -':		
kàà	he strains (liquid)	ką́'	grains left after
sò	(foot) goes-to-sleep	sý'	straining beer (foot's) sleeping
with su	ffix -d:		
bà	he plants	bàad	planting season
h ùù	he sows	h ùu d	seed
kà'	it is-cold	ką́ 'ąd	calm, peace
lìì	he bears-fruit	líid	fruit
lúg	it is-long	lúgúd	length
sį́'	it ends	sį́'į́d	end
vbáń	he puts (one piece) across another	vbàgàd	cross, crossed pieces of wood
with su	ffix -g:		
fàà	he doubts	fàag	doubt
hạạ	she brings-forth	hạg	pregnancy
hì	he snores	hįg/hįįg	snoring
kỷỳ	it curves	kàəg	a curved thing
tùù	he forges	túg	forge
víį	it is-black	víį́g/víig	something unclean
'màà	he is-thin	'màag	thinness

<u>with suffix -b</u>:

bàà	he cultivates	bab	field
nàà	he dances	náb	dance

b) <u>no consonantal or vowel change</u> between verb and noun, often with a tone change:

bèè	he calls	bee	call
họọ	it makes-ill	họọ	illness, sick person
ìì	it is-gluey/slippery	íí	3 kinds of plant
	,	whose leaves are	e gluey when cooked
kìgi	he makes (balls of)	kígi	ball
mòò	he speaks	moo	word, palaver
nàŋ̀	he hits	naŋ	blacksmith
sỳỳ	he castrates	SQQ	eunuch
súd/sùd	it sprinkles	súd	sprinkling
wà̧ą	he makes-fall	wàà	loss of virginity
zàŋ̀	he braids	zaŋ	cord

c) suffixation of -g or -<u>n</u> with loss of -<u>n</u>, -<u>'</u>, -<u>g</u> or -<u>n</u>:

<u>final -n</u>	<u>replaces -ŋ:</u>	final -n replaces -n:				
dèŋ	he hits	dèn	drum			
kậń	he cries out	kậń	cry, wail			
zùŋ̀	he strikes	zù'n	anvil			
'màŋ̀	he takes-with-a-pliers	'màǹ	pliers			
final -g	replaces glottal:					
sà'	he smells	sąg	odor, smell			
<u>final -g</u>	replaces -n or - <u>n</u> :					
máń	he hates	mààg	enemy			
nàŋ̀	he grinds	nààg	grinding stone			
tòn	he reconciles	tòòg	reconciliation			
<u>final -g</u>	final -g replaces -d:					
hàd	he sweats	hààg	sweat			
nád	he dreams	nààg	dream			
tùd	he destroys (village)	tùùg	destruction (of a			
village)						

d) <u>shortening</u> or <u>lengthening</u> of the verb base to form the noun:

kậḿ	(chief) sits	kậm/kậạm	throne of chief
ndógo	it hurts	ndóg	open wound

	One irregular form is extreme	ely interesting:	
zígín	they are-numerous	zìgìzígí	the Pleiades

3.4.4 <u>Compound nouns (n_{cp}) </u>. Compound nouns are of two main types, nominal and verbal. Their external distribution is identical with that of n_1 and n_2 .

The <u>nominal</u> compound noun has the following characteristics: 1) Its nucleus contains one of the morphemes an n_1 , n_2 , \underline{i} 'the one who', or <u>ya</u> 'place'.

2) Following the nucleus is a detail slot containing one of several possible morphemes or constructions: noun phrase 1, place name, temporal root, cardinal numeral, $qual_1$ or $qual_2$ adjective, or a verbal noun clause. The formula for the nominal compound noun:

 $n_{cp} = +nuc:n_{1/2}/\underline{i}/\underline{ya} + det:NP_1/lo_{place}/te/card/qual_{1/2}/VNCl$

Examples:

Examples.	
ààm kin	peanut big (Bambara peanut)
bàa kậń	mister cry (child who cries a lot)
bàa lig	mister house (owner)
biig kaa	snake cushion (pythoncarried on the head like a cushion)
biig nii	snake elder (certain kind of large snake)
6àà nóó táəd	basket eye open (large-holed woven basket)
doo núug	leg curve (knee)
dàg yíg	calabash rainy-season (certain kind of calabash)
gan dágá	horn one (rhinoceros)
hád vbìn	earth Vina-river (yellow dirt of a specific color)
hện mam	thing water (animals living near water; water spirit)
í moo sà"é	one-who word cutting (judge)
í nii	one-who elder (elder)
í 'yélí	one-who guarding (clan chief, lord)
moo zóó dę"ę́	word heart making-clean/joyful (good news)
nàa dàg silí	woman calabash stomach-on (woman who ties
	stone-filled calabash rattles to her waist to make noise = bogeywoman)
nán sààm telí	person clothes washing (laundry worker)
ya hẹn hà"í	place thing sacrificing (altar)
ya mbààl í	place sitting (place to sit; thing to sit on)
yą' biig nii	intestine snake elder (certain kind of vine)
zág nan	panther couscous (glutton)

In several respects the <u>verbal</u> compound nouns resemble factative clauses, but they differ from them at several points, in addition to distributional differences.

1) The compound noun never has a pronoun subject (or is it always third person singular = $(\emptyset'?)$).

2) Only a limited number of verb types are used: intransitive, transitive, repetititve, ditransitive, and reciprocal.

3) Peripheral clause positions (except the locative) are rare.

These constructions are quite varied in structure. Abbreviations used are those found in chapter 5 while discussing clauses. The initial noun is often the subject of the verb, and the verb may be followed by an indirect object and/or a direct object, a locative phrase, the negative clause marker $\underline{s}\dot{a}$, etc. A formula outlining only those constructions that have been found follows:

 $\pm S:n_{1/2} + P_{tr/repet} + \underbrace{O:NP_{\underline{1}} \pm Lo:LoP_{\underline{l}\underline{i}}}_{Ideo} \pm CM_{neg}:\underline{s\underline{a}}$ $\underbrace{Ideo}_{\underline{P_{tr}}}$ $\underbrace{P_{\underline{i}/rep} + Lo:LoP_{\underline{l}\underline{i}}}_{P_{i}} + \underbrace{P_{d\underline{i}} + I:pr}_{P_{i}} + O:nprQ + CMQ$ $P_{tr} + O:pr$

Examples:	
ààm zàg hágá	peanut creep ground-on (certain kind of peanut)
gàỳ pàỳ	carry carry (spotted hyena)
gìŋ̀ nà'am	find-absent mother-your (hartebeest)
láń sòmmé	eat-together family-in (certain kind of yam)
lúg kón ệná	be-long do-me what-Q (fourth finger of hand)
mbàà họm nóó	sit see-you eye (little finger)
nàa gbà' wəə	woman treat-well husband (planet Jupiter)
nàa yúú gàỳ dòò sá	woman head carry wine not (certain kind of grass-
	hopper with a pointed head)
nán gàà Tayii sá	person know God not (pagan)
nóg sàg la"í	bird drill-hole tree-in (woodpecker)
tà' kpậg	snap kpą́g (spring-activated snare, trap)
waa t ù mbèè	child guard sheep (shepherd)
wàə nú'	fall-out teeth (certain kind of termite)
'wàa táa nagá	finish spear hand-in (certain kind of bird)

3.4.5 <u>Kinship nouns (n_{kin}) </u>. Many kinship nouns (generally names for relatives) have two forms, an unpossessed (absolute form) and a possessed form. Kinship nouns have the following characteristics: 1) When possessed, they occur only with poss_{kin} possessives (3.7.5). Many possessed forms are also shorter than their corresponding unpossessed forms.

2) They are compounds, the possessive being suffixed to the first element of the compound.

3) The first element may be called a kinship noun stsem, while the second element is a noun or qualifying adjective adding precision (detail) to the first element.

Tagmemic formula:

 $n_{kin} = +nuc:n_{kin}s + det:n/qual$

Read: A kinship noun consists of a nucleus filled by a kinship noun stem and a detail slot filled by a noun or qualifying adjective.

Examples (with the poss_{kin} in parentheses):

unpossess	<u>unpossessed n_{kin}</u>		<u>n</u> kin
à yée	grandfather	à(n) yée	(my) grandfather
à wşş	husband of a man's or a	à(n) wşş	(my) younger sister's
	woman's younger sister		husband
ag fąą	mother-in-law	à(n) fạạ	(my) mother-in-law
dag ba'ad	co-worker	dà(n) ba'a	d (my) co-worker
dag dòŋ	circumcision friend	dà(n) dòŋ	(my) circumcision fr.
dag gbòò	friend	dà(n) gbòà	o (my) friend
dag nìì	older sibling of same sex	dà(n) nìì (my)older brother/sister
dag są́ń	younger sibling of same sex	dà(n) sậń	(my) younger "
dag yée	a girl's older/younger	dà(n) yée	(my) older/younger
	brother		brother
dag kéé	a boy's older/younger sister	dà(n) kéé	(my) older/younger
			sister
pąg wąą	mother's brother	pậ(ń) wşş	(my) mother's brother
tog fąą	father's sister	tógó(n) fạạ	a(my) father's sister
yąg wşş	husband of a man's or a	yà(n) wşş	(my) older sister's
	woman's older sister		husband

3.5 NON-PERSONAL PRONOUNS

There are three kinds of non-personal pronouns (npr) in the Dii language:

3.5.1 interrogative (npr_q)

- 3.5.2 indefinite (npr_{indef})
- 3.5.3 indefinite relative (npr_{rel})

3.5.1 The interrogative pronouns (npr_q) are roots and seem to be seldom modified by an adjective. They occur in the head position in noun phrases. The root <u>née/nén</u> is also used as an adjective (3.7.11). They have allomorphs which occur only before the interrogative /a/ as below; the <u>n</u> is euphonically doubled:

(npr1)	nóo/nón	who	nón(ná)
	née	how, how many	nén(ná)
	è n	what	≩ n(á)

3.5.2 <u>Tóó</u> 'a certain one, some' is an indefinite root (npr_{indef}) which can occur as a pronoun (or as an adjective). It occurs in the head position in noun phrases. It may be repeated in consecutive clauses where the form <u>nónná</u> also occurs:

(npr2)	tóó tóó	the one the other, some others
	nónná nónná	the one the other

3.5.3 The indefinite relative pronoun $(npr_{rel}) \underline{i}$ is a root that may be translated 'the one who' or 'the one'. It can occur as first member of a compound noun (see 3.4.4), and in noun phrases (NP₁, 4.2.1) and \underline{i} phrases (\hat{IP}_{mod} , 4.4).

3.6 PERSONAL PRONOUNS

Most of the Dii personal pronouns (pr) will be presented in three large series, a \underline{mi} series, an \underline{an} series, and a \underline{bi} series. A slightly irregular set of hypothetical pronouns will be treated later. Our discussion will have the following headings:

- 3.6.1 general meanings
- 3.6.2 specific pronominal meanings and uses
- 3.6.3 <u>mí</u> series
- 3.6.4 \underline{an} series
- 3.6.5 <u>bi</u> series
- 3.6.6 hypothetical pronouns

3.6.1 <u>General meanings</u>. Dii direct and indirect object pronouns are the easiest to describe, having only PN (person-number) and L (logophoric) meanings on the clause level. These same meanings are also found in the head slot of pronoun phrases (PrP). Subject pronouns, however, are much more complicated, and fill the composite PN-ML-T position (person-number, mood-logophoricity, tense), and sometimes also add emphasis (E). In a certain sense, it can be said that Dii subject pronouns are 'conjugated' instead of verbs. A broad discussion of this topic is found in Nordlinger & Sadler 2004; Dii tense, aspect, mood markings on subject pronouns would be termed 'propositional TAM on dependent nominals'.

<u>Person</u> and <u>number</u> are familiar categories. Dii has three persons and singular versus plural, distinguishes a dual 'you-and-I', and has inclusive and exclusive first plural. The inclusive pronoun (1 pli) is used if the person spoken <u>to</u> is included in 'we'; the exclusive pronoun (1 ple) is used if the person spoken <u>to</u> is excluded from 'we'. Pere also has a three-way contrast dual/inclusive/exclusive (Raen 1981:119). A chart of these options for the least complicated <u>mí</u> subject pronoun set (<u>mí_{subj}</u>) is as follows. All Dii pronouns are divided up into sets of eight forms like this one and labelled.

(pr1)	PN	minimal f	forms	plural f	orms
	1	mí	ʻI'	vó	'we (exclusive)'
	1 + 2 d	ba	'we-2'	baví	'we (inclusive)'
	2	mó	'you s'	ví	'you pl'
	3	Ø (zero)	'he/she/it'	V u	'they'

<u>Mood</u> (see Comrie 1976) and <u>logophoricity</u> are indicated primarily by a choice among the three pronominal series, $\underline{m}i$, $\underline{a}n$, and $\underline{b}i$: The \underline{mi} series appears in the factative mood (perfective and imperfective aspects), and in the following subordinate clauses: indirect questions, comparison, manner, 'until', and cause clauses that are introduced by \underline{moo} 'because'.

The $\underline{\hat{a}}\underline{\hat{n}}$ series is used for subject pronouns in the imperative mood and as subjects in most of the subordinate clauses.

The <u>bi</u> series pronouns replace certain pronouns (subject or object) which refer back to the pronoun subject of a preceding dominating clause, and are thus logophoric (LOG). The uses of logophoric pronouns are complicated; only their forms and examples will be cited in this section. A full explanation of their uses is given in section 7.3.

The following chart lists the sets of pronouns on the left, the moods/aspects where they occur in the center, and the subordinate clauses where they occur on the right.

(pr2) <u>pronoun series</u> <u>mí</u> subjects $(\pm future/non-future)$ $(+LOG = \underline{bi}$ subjects)	independent clause <u>moods/aspects</u> factative	subordinate clauses indirect quotation comparison cause (<u>moo</u>) manner 'until'
<u>àň</u> subjects (No tense mark) (+LOG= <u>bi</u> subjects)	imperative	indirect order temporal-locative- conditional relative desiderative purpose (affirmative) concessive cause (<u>ka/bà</u>)
hyp subjects (±present/past) (±LOG)	hypothetical	hypothetical negative purpose
<u>mí</u> objects (+LOG= <u>bi</u> objects)	all moods/aspects, including verbal noun mood	all subordinate clauses

The hypothetical mood (perfective and imperfective aspects) calls for a separate set of subject pronouns hyp_{present} and hyp_{past}. The

hypothetical forms show they're diachronically related to the \underline{mi} series, but their indication of tense is 'present/past' instead of 'future/non-future' as elsewhere in the Dii system.

<u>Tense</u> (T) is generally timeless, but in the <u>mí</u> series 'future' is indicated by a pronominal suffix $-\underline{n}$ (high tone), non-future by a lower tone $-\underline{n}$ or $-\underline{n}$.

<u>Emphasis</u> (E) is usually indicated by lengthening a pronoun vowel, by modifying the tone on the pronoun, or by a suffix. See discussion of the specific forms below.

The following chart displays the person/number/logophoricity/ tense/emphasis marking options for Dii pronouns:

(pr3)	person	<u>number</u>	logophoricity	tense	<u>emphasis</u>
	first	singular	<u>mí/àn</u> : non-LOG	timeless	ordinary
	second	dual	<u>bi</u> : LOG	future	strong
	third	plural		non-future	
	inclusive				
	exclusive				

See Bohnhoff 1986 for a full treatment of Dii pronouns and possessives from a slightly different perspective than this work gives.

The some 264 Dii pronoun and possessive form options are divided into sets of eight pronouns and each set is given a title, (26 pronoun sets, 4 possessive sets, 3 contracted form sets). The $\underline{m}i_{subj}$, \underline{an}_{subj} , and \underline{bi}_{subj} titles refer to pronouns occurring in the PN-ML-T composite position; they're timeless in tense, 'ordinary' in emphasis.

The titles $\underline{m}_{i_{obj}}$ and $\underline{b}_{i_{obj}}$ refer to pronouns occurring in the indirect and direct object positions only. Tense is not indicatable.

The $\underline{m}i_{fut}$, $\underline{m}i_{nonfut}$, and $\underline{b}i_{fut}$ and $\underline{b}i_{nonfut}$ titles refer to pronouns which occur ony in the composite PN-ML-T position, with either future or non-future tense as options.

The $\underline{mi_{emph}}$, \underline{an}_{emph} , \underline{an}_{sbemph} , and $\underline{bi_{emph}}$ titles refer to pronouns used in the composite PN-ML-<u>TE</u> position, with 'strong' emphasis. Their tense is always timeless. One set of $\underline{mi_{emph}}$ and $\underline{bi_{emph}}$ pronouns can occur in non-subject positions, in which case only PN-L-E meanings are relevant.

The titles $\underline{mf}_{futemph}$ and $\underline{bf}_{futemph}$ refer to emphatic future pronouns, stronger in emphasis than \underline{mf}_{emph} and \underline{bf}_{emph} , but they can occur

respectively in any subject position wherever \underline{m}_{emph} and \underline{b}_{emph} forms appear.

3.6.2 <u>Specific person meanings and uses</u>. The distinction between and the uses of the 2 s and the 2 pl pronouns requires some comment. The 2 s is used between members of the same family, with children, and with friends and equals <u>after</u> greetings have been completed. It's also used in speaking to your inferiors, but may be used even to the village chief if the speaker is 'teaching the chief a lesson'!

The 2 pl is used in 'formal' situations, in speaking to the chief normally, to village elders, to people older than the speaker, to persons who know medicine, to the blacksmith, in almost all greetings, and in general (especially during greetings) to anyone you want to 'honor', e.g., a close friend. Frequently a person will 'honor' someone with the 2 pl who is <u>younger</u> than the speaker. The 2 pl is also used in speaking to an angry person in order to calm him/her down.

The use of the 2 s and 2 pl pronoun varies, however, between villages and dialects. At Mbé, e.g., a father may be addressed in the singular by his son, but this is not so in all villages even within the Western (mam be') dialect.

The 1 ple can replace the 1 s in speaking of yourself sometimes: 'we' (i.e., I) went hunting.

All forms of the 1 pli that contain '...' in tables 3.2, 3.3, and 3.3b (e.g.: <u>ba...ví</u>), are discontinuous morphemes. The whole verbal complex (i.e., the verb, its suffixes and any object pronouns), even a whole set of serial verbs, may occur between the two elements of these morphemes!

The 3 pl is a form of respect used when speaking about individuals you wish to 'honor', and can replace the 2 pl in direct address, e.g., in speaking to the chief: 'Are the chief (i.e., you!) going to town?'

The 3 pl and the dual are also impersonal forms, the dual being used especially often in proverbs with this meaning.

The 3 pl is not always used even when the referent is clearly plural, provided the context is clear. It might be argued, however, that the noun takes on a more generalized meaning when the 3 pl pronoun is thus omitted. See line 128 of the Rabbit and Cornucopia story in Bohnhoff 1968:130.

A pronoun may be plural if later in the clause the other referent will be mentioned in the IA (instrumental-acccompaniment) position: (pr 4) Súprèfé yaa vó hòlé kan kéé míí. (2-34)
 SP came us to-see and wife my
 (The souspréfet came to see 'us' (me!) and my wife.)

3.6.3 <u>Mí series</u>. The <u>mí</u> series is used in the factative mood (in both perfective and imperfective aspects) as well as in a few subordinate clauses as indicated in (pr2) above.

The absence of an overt pronoun form is indicated by \emptyset , which is as significant in Dii as the presence of another pronoun. If no subject pronoun 'occurs', it's automatically 3 s and is a 'zero pronoun'.

See 3.8.8 for when to use the suffixed (bound) forms, when the fuller (free) \underline{mi} and $\underline{m5}$ forms. The 3 s \underline{mi}_{obj} pronoun provides special difficulties; see the footnote on Table 3.3 below.

Table 3.2 cannot contain all the \underline{mi} forms; the remaining four sets spill over into Table 3.3: the non-future emphatic, and the object forms, and the possessives.

person,	unmarked	non- subject	normal	subject	pronoun	S	 final
number	<u>mí</u> _{subj}	<u>mí_{emph}</u>	<u>mí</u> emph	<u>mí_{nonfut}</u>	<u>mí_{fut}</u>	<u>mí_{futemph}</u>	<u>mí</u> emph
1 s 1+2 d 2 s 3 s 1 ple 1 pli 2 pl	-ń/mí ¹ -a/ba ¹ -ṁ/mɔ́ ^{1,2} Ø vɔ́ baví ³ ví	míí bàà móó wòò vóó bàà ví víí	míi baà móo wʉ vóo baàví víi	mín baň món Ø vón baňví vín	míń báń móń w ú ń ⁴ vóń báńví víń	míńno báńno móńno w ú ńno ⁵ vóńno báńnoví víńno	mí ba mó w u vó ba ví ví
3 pl	v u	vòò	v uù	v u n	v ú ń	v ú ńno	vʉ

Table 3.2: <u>mí</u> series pronouns

Notes on Table 3.2:

1. The contracted form is on the left of the slash; the uncontracted is on the right.

2. mó or mó

3. Discontinuous forms indicated by '...', where the verb, its pronominal object, even a set of serial verbs, are insertable between these elements.

4. wúń or síń or sí or áń

5. wúńno or síńno or áńno

Each of the forms in Table 3.2 will now be illustrated.

Examples of $\underline{m}i_{subj}$ forms as they occur in independent clauses follow. They are termed 'unmarked' because they occur if the subject carries no indication of emphasis, tense, or logophoricity.

(pr5)	<u>Mí</u> làà kaalí.	I go town-to (I go to town.) (5-215)
	<u>Mó</u> làà kaalí.	You go
	<u>Ø</u> làà kaalí.	He/she/it goes
	<u>Ba</u> làà <u>ví</u> kaalí.	We (incl.)
	<u>Vu</u> làà kaalí.	They

Examples of \underline{m}_{subj} forms as they occur in dependent clauses will be illustrated below in the subsection on contractions, see Table 3.3b.

Examples of \underline{mi}_{emph} pronouns used in non-subject slots are the following:

(pr6)	Mó sén <u>móó</u> né.	You want-not you F-I-NEG (5-217)
		(<u>You</u> don't want to.)
	Ø sén <u>wòò</u> né.	He/she wants-not him/her F-I-NEG
		(<u>He/She</u> doesn't)
	Ba sén ví <u>bàà ví</u> ní.	We (incl.) don't
	Vu sén <u>vòò</u> né.	They
	<u>Míí</u> mí mòò moo	Me I speak word (I'm speaking) (4-60)
	Í <u>míí</u> máa,	The-one me as for (As for me,) $(4-59)$
	Ya <u>vòò</u> 'wààpád	Place them all (All of them) (4-49)

Note the exceptional abbreviated form of non-subject \underline{m}_{emph} in the following:

(pr7)	<u>Bàà</u> ba sén ví ní.	We we want-not F-I-NEG. (4-60)
		(<u>We</u> don't want to.)

Examples of \underline{mi}_{emph} used in subject slots are the following:

(pr8)	<u>Móo</u> hỳ bà'á kaal í .	You see father town-in (5-216 & 217)
		(<u>You</u> saw father)
	<u>Wʉ</u> hỳ bà'á kaalí.	<u>He</u> saw
	<u>Baà</u> hỳ <u>ví</u> bà'á kaalí.	<u>We</u> (inclusive) saw
	<u>Vuù</u> hỳ bà'á kaalí.	<u>They</u> saw
	<u>Míi</u> mòò moo	<u>I</u> speak word (4-59)
	Ąmáa <u>míi</u> pàgą né.	But I bear-not F-I-NEG (3-96)
		(But <u>I</u> didn't father her.)

Examples of $\underline{m}i_{nonfut}$ used in subject slots follow. The <u>bà</u> is a temporal morpheme indicating 'indefinite past time' but is not a tense marker.

(pr9)	Bà <u>món</u> làà télá?	Past you go where (Where were you?) (5-218)
	Bà'á bà $\underline{Ø}$ làà télá?	Father past he go where
		(Where did father go?)
	Bà <u>baì</u> làà <u>ví</u> télá?	Past we go we where (Where did we all go?)
	Bà <u>vun</u> làà télá?	Past they go where (Where did they go?)

Examples of $\underline{m}i_{fut}$ used in subject slots are the following:

(pr10) <u>Móń</u> làà kaal í .	You-will go town-to (5-217)
<u>Wúń</u> làà kaalí.	He-will
<u>Báń</u> làà <u>ví</u> kaal í .	We-(incl.)-will
<u>Vúń</u> làà kaalí.	They-will

Examples of <u>mí_{futemph}</u> used in subject slots follow:

(pr11) <u>Móńno</u> làà kaalí.	<u>You</u> -will go town-to (5-217 & 218)
<u>Wúńn</u> làà kaalí.	<u>He</u> -will
<u>Báńnɔ</u> làà <u>ví</u> kaalí.	<u>We-(incl.)</u> -will
<u>Vúńno</u> làà kaalí.	<u>They</u> -will

Examples of \underline{mi}_{emph} used in 'final' slots (i.e. post-verbal, near the clause end) are the following. Because of the several conditioned allomorphs of the clause markers, all forms are listed here.

(pr12) Vu híj bi vì <u>mí</u> w.	They want they ask me (5-217) (They want to ask me.)
Vu híí bi vì <u>ba</u> yu.	us-2.
V u híí bi vì <u>mó</u> yọ.	you-singular.
Vʉ híí bi vì <u>wʉ</u> yʉ.	him/her.
Vʉ híí bi vì <u>vó</u> yʉ.	us (excl.).
Vu híí bi vì <u>ba ví</u> w.	us (incl.).
Vu híí bi vì <u>ví</u> w.	you-plural.
V u híí bi vì <u>vu</u> yu.	them.

The \underline{mi} forms continue in Table 3.3. The object forms are in the first column, then the non-future emphatic forms. The possessive forms and the kinship possessives are listed in the third and fourth columns; they are discussed in 3.7.3 and 3.7.5 respectively, but are listed here for comparison.

The forms in columns 5 to 7 are from the <u>bi</u> series and are listed here only for comparison. The <u>bi</u> object forms will be discussed below in 3.6.5, and the logophoric possessives in 3.7.4 and 3.7.5 respectively.

person, number	<u>mí_{obj}</u>	<u>mí</u> nonfutemph	non- kinship poss	kinship poss _{kin}	 <u>bi_{obj}</u>	non- kinship poss _{log}	kinship poss _{kinlog}
1 s 1+2 d 2 s 3 s 1 ple 1 pli 2 pl 3 pl	-n/mí ¹ ba -m/mó -wʉ ² vó ba ví ví ví ví	mínno bánno mónno bànno vónno bánno ³ ví vínno v ú nno	míí bàà móó wòò ⁴ vóó bàà ví víí vòò	-n bà -m -gà ⁵ vó bà ví ví ví ví v ¹	-n/mí ba bi bi v5 ba ví bi bi	míí bàà bìì bìì vóó bàà ví bìì/víí bìì/vôò	-n bà bì bì vó bà ví ví bì/vʉ
Table 3.3: <u>mí</u> series:object, non-future emphatic pronouns, possessives <u>bi</u> series:object pronouns and possessives							
 Notes on Table 3.3: 1. The contracted form is on the left of the slash; the uncontracted is on the right. 2<u>wu</u>: one of several allomorphs. The 3 s <u>mí_{obj}</u> pronoun provides special difficulties; its allomorphs occur in specific contexts as follows (see Table 3.8 for examples): 							
verb group 1, short vowel: $-g + vowel identical with verb vowel$							
verb group 1, long oral vowel: verb group 1, long nasal vowel: $-\underline{w}\underline{u}$ $-\underline{w}\underline{o}$ double a stem-final m, n, or η , $+\underline{o}$, or double other consonant $+\underline{u}$							
3. <u>bánno</u> : high tone occurs only following <u>bà</u> 4. <u>wòò</u> becomes - <u>òò</u> by contraction with the preceding morpheme, in which case, the w causes reduplication of the final consonant of the preceding morpheme: <u>lig wòò</u> becomes <u>liggòò</u> his house. 5. <u>-gà</u> : one of several allomorphs (see 3.7.5). The vowel is a duplicate							

of the vowel in the verb.

6. -y: this form contracts with the preceding vowel (see 3.7.5).

Examples of \underline{mi}_{obj} pronouns, as direct or indirect objects follow. The first two examples use contracted forms, the last two show the uncontracted forms used with the negative.

(pr13) Mí vá'a<u>m</u> doo ba'adì. I greet/thank-you foot work-F-I

	(I thank you for the work.) (5-216)
Mí vá" <u>u</u> doo ba'adì.	I thank-him/her $(vá"u = vá' + -wu)$
V u vá' <u>ba ví</u> doo ba'adì.	They thank us incl
Mí vá' <u>vʉ</u> doo ba'ad ì .	I thank them
Mó vá'an <u>mí</u> ní.	You greet-not me F-I-NEG
	(You don't greet me.)
Mí vá'an <u>mó</u> né.	(I don't greet you.)

Examples of the $\underline{mi}_{nonfutemph}$ subject pronouns:

(pr14) Mí ò bà mónno làà kaalí. I say that you go town-to (5-218&219) (I say that it was you who went to town.) Mó ò bà'á bànno làà kaalí. You say that father he goes... Bà'á ò bà vínno làà kaalí. Father says that you-plural go... Bà'á ò waa bà vúnno làà kaalí. Father says that the-children they...

Illustrations of the <u>bi</u> object forms are found below in 3.6.5, and the corresponding kinship and non-kinship <u>bi</u> possessives in 3.7.4 and 3.7.5b.

We may say that \underline{m}_{subj} and \underline{m}_{obj} pronouns are roots. The other \underline{m}_{i} pronouns have the following formulae:

 $\underline{m}\underline{i}_{fut} = + \text{nuc:free } \underline{m}\underline{i}_{obj} + \text{fut:-}\underline{n}$

Read: the \underline{m}_{fut} pronoun is composed of a nucleus filled by a free \underline{m}_{obj} pronoun (i.e., non-suffixed) followed by a future slot filled by -<u>ń</u>. NB: the \underline{m}_{fut} 3 s pronoun is an exception, where only the \underline{m}_{obj} form $\underline{w}\underline{u}$ serves as stem, and three other forms (<u>siń</u>, <u>si</u>, <u>áň</u>) appear alongside <u>wúń</u>. The 1 pli in subject position is a discontinuous morpheme.

The non-future pronouns have a similar structure but with mid or low tone on $-\underline{n}$, as per Table 3.2.

 $\underline{m}i_{emph} = +nuc: free \underline{m}i_{obj} + emph: V length$

Read: the \underline{m}_{iemph} pronoun is composed of a nucleus filled by a free \underline{m}_{iobj} pronoun, plus an emphatic component realized as vowel length. The 3 s pronoun is an exception to this formula.

There are tonal differences between the subject and the nonsubject forms of the emphatic \underline{mi} pronouns; these differences are not incorporated in the formula above. $\underline{m}\underline{i}_{futemph} = + nuc: \underline{m}\underline{i}_{fut} + emph: -\underline{n}\underline{o}$

Read: the future emphatic \underline{mi} subject pronoun is composed of a nucleus filled by a \underline{mi}_{fut} pronoun, followed by an emphatic slot filled by -<u>no</u>.

The $\underline{mi}_{nonfutemph}$ pronoun has tonal irregularities that forclude an easy formula here.

3.6.4 <u>The an series</u>. Pronouns of the an series are many fewer in number and occur only in the PN-ML(-T) position of imperative clauses and of most dependent clauses (see chart (pr2) in 3.6.1 and sections 7.1.2 and 7.2). With a total of only 4 sets, two appear in independent clauses, and the other two in subordinate clauses.

The contraction of the subordinate particle \underline{ka} with the pronoun is not a separate pronoun type, but is listed for reference since these forms are not predictable.

Another contraction of the subordinator <u>ka</u> occurs with the $\underline{\lambda}\underline{n}_{sbemph}$ forms, but the cases I've seen are limited to relative clauses: ka + $\underline{\lambda}\underline{n}$ > káńnɔ, and ka + $\underline{\lambda}\underline{m}$ mɔ > kámmɔ (5-76). An example follows:

(pr15) ...i míí <u>káńno</u> tú'ud nán vʉ hẹn yè,... (1 Cor. 9:27) the-one <u>I</u> sb-I-emph teach-to person pl thing dem (...<u>I</u>, I who have taught people,...)

A special pronoun (\underline{ii}_{subj}) occurring TWO levels down from its dominating pronoun subject antecedent is listed here with the contractions, but is explained only in section 3.6.5 with the other logophoric pronouns.

Subject pronouns can also be rendered emphatic by adding $\underline{\hat{a}ga}$ 'self' before the $\underline{\hat{a}n}_{emph}$ forms: $\underline{\hat{a}ga} m \underline{i} I$ myself.

The dependent/subordinate subject emphatic forms $(\underline{\hat{a}}\underline{\hat{n}}_{sbemph})$ occur only in indirect orders. There are few differences between the independent $\underline{\hat{a}}\underline{\hat{n}}_{emph}$ and the dependent type $\underline{\hat{a}}\underline{\hat{n}}_{sbemph}$ pronoun sets, and further research is needed concerning the relationship between what at this point appears to be two sets of forms.

		ir	ndependent		<u>ká</u> far	<u>ka</u> sb	<u>ka</u> sb
person,	unmarked		subject	subject	past +	+ <u>mí</u> _{subj}	+
number	<u>àǹ</u> subj	<u>àn</u> sbsubj	<u>àn</u> emph	<u>àn</u> sbemph	<u>àǹ</u> subj	or <u>àn</u> sbsubj	<u>ìi</u> subj
1 s	àn	àn	àǹnɔ∕a míí	3	káń	káń	káń
1 + 2 d	ba	àa	à baà	à baà	káa	kaa	kaa
2 s	àm ¹	à̀m	à móo	àmmo	kám	kám	kii
3 s	à	à	à w u	à w u	ká	ka ²	kii
1 ple	òo	òo	à vóo	à vóo	kóo	kóó	kóó
1 pli	ba…ví	àa…ví	à baà…ví	à baà…ví	káa…ví	kaa…ví	kaa…ví
2 pl	\mathbf{i}^1	ì	à víi	à víi	kíi	kíí	kii
3 pl	ùu	ùu	à v uù	à v uù	k úu	k uu	kii
Table 3.3b: $\underline{\hat{a}}\underline{\hat{n}}$ series pronouns, and contractions with $\underline{k}\underline{\hat{a}}$ and $\underline{k}\underline{a}$							
Notos on	Table 3.3	 2 h.					
							4 :
1. These pronouns are optional in the 2 s and 2 pl when the context is							
<u>clear</u> , so contrary to almost all other Dii pronouns, these 2 forms are not							
strictly obligatory.							
2. Three contractions occur between <u>bà</u> , <u>ka</u> and certain 3 s forms:							
bà w \acute{u} ń = bàn							
ka w ú ń = kan							
ka ìi = kii							

Examples of \underline{an}_{subj} pronouns follow. Again, if there is no subordination or emphasis, the pronoun can be termed 'unmarked'.

(pr16) <u>Àm</u> làà kaalí. or: _ làà ka	aalí. You-IMPV go town-to (5-223)
(Go t	o town!)
<u>À</u> làà kaalí. He-II	MPV (He must go to town!)
	xclIMPV (Must we go to town?)
<u>Ì</u> làà kaalí. or: _ làà kaal	í. You-pl-IMPV (Go to town!)
<u>Uu</u> làà kaalí. They	-IMPV (They must go to town!)
<u>À</u> z uu míílí. She-I	MPV come-down me-to (3-109)
	must come down to my (dispensary)!)
<u>Ì</u> tàà í yộgọ sá sậm. You-	pl-IMPV think like that IMPV-NEG at-
	Oon't think like that at all!) (3-113)
_ gbó waa víí vʉ sá. (You	-pl-IMPV) hit child your plural IMPV-
NEG	(Don't hit your children!) (3-60)

Examples of <u>àn</u>_{sbsubj} follow:

```
(pr17) <u>Àm</u> làà kaalí tée,...
```

If-you go town-to dem (5-223) (If you go to town,...)

<u>Aa</u> làà kaalí tée,	If-we-2
<u>Aa</u> làà <u>ví</u> kaalí tée,	If-we-incl
<u>Ưu</u> làà kaalí tée,	If-they

Examples of the independent $\underline{a} \underline{n}_{emph}$ follow.

(pr18) Agà <u>ànno</u> (à míi) làà. Self I-IMPV (me) go (5-223)	
(It's I that must go.)	
Agà <u>à wu</u> làà. It's he/she that must go.	
Agà <u>à baà</u> làà <u>ví</u> . It's us (incl.)	
Agà <u>à vuù</u> làà. It's they	

Examples of the dependent <u>àn</u>_{sbemph} follow.

(pr19) Gbanàà vu ò bà <u>ànno</u> dòg. (3-56b, 5-223 & 224) Chief they(=he) say that I-IMPV go-up (The chief says that it's me that must go up (to see him).) Gbanàà vu ò bà <u>àmmo</u> dòg. Chief they(=he) say that you-IMPV go-up (The chief says that it's you that...) Gbanàà vu ò bà <u>à baà</u> dòg <u>ví</u>. Chief they(=he) say that we-incl.-IMPV go-up (The chief says that it's us all...)
Gbanàà vu ò bà <u>à vuù</u> dòg. Chief they(=he) say that they-IMPV go-up (The chief says that it's they...)

The $\underline{\dot{a}}\underline{\dot{n}}_{subj}$ and the $\underline{\dot{a}}\underline{\dot{n}}_{sbsubj}$ pronoun sets are roots.

The two sets of $\underline{\grave{a}n}_{emph}$ and $\underline{\grave{a}n}_{sbemph}$ show many similarities but have too many irregularities to permit a tagmemic formula at the moment.

3.6.5 <u>Bi series</u>. The <u>bi</u> series of logophoric pronouns is used in 'dominated' clauses only and refers back to the co-referent subject pronoun of a previous dominating clause, e.g.: 'You (<u>m5</u>) say that tomorrow you-will (<u>bíń</u> instead of <u>m5</u>) carry the wood' (see 7.3). There is a corresponding possessive form (3.7.4 and Table 3.3).

Basically, for every pronoun of the \underline{mi} series, there is a corresponding form in the <u>bi</u> series, such that Table 3.2 and the beginning of Table 3.3 can be reproduced and <u>bi</u> forms found for every slot.

Table 3.2 is therefore here reproduced and modified as Table 3.4.

In terms of the three hierarchies proposed by Hyman and Comrie (1981:33) for logophoric usage (grammatical, person, number hierarchies), Dii logophoric forms occur both as subject and non-subject, and in both singular and plural, so their hierachies 1 and 3 are not testable by the data in Table 3.4.

Their person hierachy, however, explains why in column two the special <u>bi</u> logophoric forms occur in the third person but not in the first and second persons. The same is true for the last column of 'final <u>bi</u> emphatic' forms. In columns 5 and 6, the future and future emphatic forms also show the first person pronouns as most resistant to 'invasion' by <u>bi</u> forms, so Table 3.4 illustrates all three levels of Hyman and Comrie's 'person hierachy'.

The first four columns of Table 3.4b also point to the same conclusion, but the last column, the \underline{ii} pronoun series, also justifies the 'grammatical hierarchy' because \underline{ii} pronouns occur only as subjects, never as non-subjects.

	non-		normal subject pronouns				
person, number	unmarked <u>bi_{subj}</u>	subject <u>bi_{emph}</u>	bi _{emph}	<u>bi</u> nonfut	<u>bi</u> fut	<u>bi</u> futemph	final <u>bi_{emph}</u>
1 s	bi	míí	biì	bin	bíń	bíńno	mí
1+2 d	bi	bàà	biì	ba'n	báń	báńno	ba
2 s	bi	bìì	biì	bin	bíń	bíńno	bi/mɔ́
3 s	bi	bìì	biì	bin	bíń	bíńno	bi
1 ple	bi	vóó	biì	bin	vóń	vóńno	v5
1 pli	bi	bàà ví	biì	bin	báń…ví	báńnɔví	ba ví
2 pl	bi	bìì	biì	bin	bíń	bíńno	bi/ví
3 pl	bi	bìì	biì	bin	bíń	bíńno	bi
Table 3.4: Coreferential (logophoric) <u>bi</u> series pronouns							

Examples of \underline{bi}_{subj} pronouns follow; they're termed 'unmarked' because they're not marked for emphasis or tense.

(pr20) Mó híٍí <u>bi</u> làà kaalí.	You want you go town-to (5-219)
	(You want to go to town.)
V u h <u>íí bi</u> làà kaalí.	They want they go
Ba híí bi làà ví kaalí.	We want we go

Examples of non-subject <u>biemph</u> pronouns:

(pr21) Mí ồ mí sén míí ní. I say I want-NEG me F-I-NEG (5-220) (I say that <u>I</u> don't want to.)
Mố ồ bi sén <u>bìì</u> ní. You say that <u>you</u>...
Ba ồ ví bà sén ví <u>bàà ví</u> ní. We say that <u>we</u>...
Vu ồ bi sén <u>bìì</u> ní. They say <u>they</u>...

Examples of subject <u>biemph</u> pronouns:

(pr22) M5 \(\ovee\) b\(\ovee\) b\(\

Examples of subject <u>binonfut</u> pronouns:

(pr23) M5 ỳ bà <u>bin</u> làà kòddí.	You say that you go forest-to (5-221)
	(You say that you went to the forest.)
Bà'á Ø ỳ bà <u>bin</u> làà kòddí.	Father he says that he
Bà	We say we that we
V u ỳ bà <u>bin</u> làà kòddí.	They say that they

Examples of subject <u>bi_{fut} pronouns</u>:

(pr24) M5 ò bà <u>bíń</u> làà kòddí. Y	ou say that you-will go forest-to (5-221)
	(You say that you will go to the forest.)
Bà'á Ø ỳ bà <u>bíń</u> làà kòddí.	Father he says that he-will
Ba ò ví bà <u>báń</u> làà <u>ví</u> kòdd	í. We say that we-will
Vu ồ bà <u>bíń</u> làà kòddí.	They say that they-will

Examples of subject <u>bifutemph</u> pronouns:

(pr25) M5 \u03c6 b\u03c8 <u>b\u03c9(nn)</u> l\u03c8 k\u03c9dd\u03c4. You say that <u>you</u>-will go forest-to (5-221) (You say that <u>you</u> will go to the forest.) B\u03c8 \u03c4 \u03c8 \u03c6 b\u03c8 <u>b\u03c9(nn)</u> l\u03c8 k\u03c9dd\u03c4. Father he says that <u>he</u>-will... Bu \u03c6 v\u03c9 b\u03c8 <u>b\u03c9(nn)</u> l\u03c8 k\u03c9dd\u03c4. We say that <u>we</u>-will... Vu \u03c6 b\u03c8 <u>b\u03c9(nn)</u> l\u03c8 k\u03c9dd\u03c4. They say that <u>they</u>-will...

Examples of subject \underline{bi}_{emph} pronouns used in 'final' position (i.e., post-verbal, near the end of the clause) follow. Third person forms are all <u>bi</u>; second person forms are sometimes <u>bi</u> and sometimes <u>mí</u>; first person forms have no overt trace of <u>bi</u> usage. Because of this situation, all forms will be listed below.

(pr26) Mí ò bà vún híí bi vì míw. I say that they want they ask me-cm

(I say that it's <u>me</u> they want to ask	x something of.) (5-220 & 221)
Ba ò bà v ú ń híí bi vì <u>ba</u> yʉ.	We-2 say that it's <u>us-2</u>
Mó ò bà vún híí bi vì biw (or: mó yo	g). You say that it's <u>you</u>
Bà'á Ø ò bà v ú ń híí bi vì <u>bi</u> w.	Father he says that it's <u>he</u>
Vó ò bà vún híí bi vì vó yu. We-((excl.) say that it's <u>we</u> -(excl.)
Ba ò ví bà v ú ń híí bi vì <u>ba ví</u> w.	We-all say that it's <u>we-all</u>
Ví ò bà vúń híí bi vì <u>bi</u> w (or: <u>ví</u> w).	You-plural say that it's <u>you-pl</u>
Vu ò bà vúń híí bi vì <u>bi</u> w.	They say that it's they

Table 3.3 is here reproduced and modified as Table 3.4b to be able to exhibit the remaining <u>bi</u> pronoun forms. The logophoric possessives are also shown for comparison.

Examples of the \underline{bi}_{obj} pronouns follow. The first group is of direct objects, the second of indirect objects.

person, number	<u>bi_{obj}</u>	<u>bi</u> nonfutemph	non- kinship poss _{log}	kinship poss _{kinlog}	 unmarked <u>ìi</u> subj
1 s	-n/mí ¹	binno	míí	-n	àn
1+2 d	ba	binno	bàà	bà	àa
2 s	bi	binno	bìì	bì	li
3 s	bi	binno	bìì	bì	li
1 ple	ċν	binno/vónno	vóó	vó	òo
1 pli	ba ví	binno	bàà ví	bà ví	àaví
2 pl	bi/ví	binno	bìì/víí	ví	ìi
3 pl	bi	binno	bìì/vòò	bì/v ù	ìi

Table 3.4b: Logophoric bi series: object, non-future

emphatic pronouns, possessives, and <u>ii</u> pronouns

T 11 2 4

Notes on Table 3.4b:

1. The contracted form is on the left of the slash; the uncontracted is on the right.

(pr27) Mí híí bà'á à gb5-<u>n</u> sá. (5-219)
I want father he-IMPV hit-me IMPV-NEG

(I don't want father to hit me.)

M5 híí bà'á à gb5 <u>bi</u> sá. You want father he hit you...NEG
Nà'á Ø híí bà'á à gb5 <u>bi</u> sá.Mother she want father he hit her.NEG
Ba híí ví bà'á à gb5 <u>ba ví</u> sá.We-all want father he hit us-all..NEG
Vʉ híí bà'á à gb5 <u>bi</u> sá. They want father he hit them...NEG
Mí híí àm nìm mí ú. I want you wake-up me F-I (2-68b)

(pr28) Mí híí bà'á à pú- n bèè sá. (5-220)
I want father he-IMPV give-me goat...IMPV-NEG (I don't want father to give me a goat.)
Mó híí bà'á à pú bi bèè sá. You want father he give you...NEG Ba híí ví bà'á à pú ba ví bèè sá.We-all want father he give us-all...
Vu híí bà'á à pú bi bèè sá. They want father he give them...NEG

The logophoric possessives $poss_{log}$ and $poss_{kinlog}$ are discussed more fully in 3.7.4 and 3.7.5b, and examples are given there.

The <u>ii</u> pronoun subject forms are very special. They occur 1-only two levels of structure down from the preceding dominating coreferential subject pronoun,

2-only as subject of that second level clause, and

3-the special <u>ii</u> form occurs only in the second and third persons. If the co-referent pronoun occurs in object position on the second level, it simply takes the 'normal' <u>bi</u> logophoric form. These pronouns are more fully explained in section 7.3. We can however, illustrate the second level co-referent subject here with a sentence showing a second level initial clause inside the complex sentence. See section 7.3 for examples where the second level clause <u>follows</u> the main clause.

If we break this down structurally, we get the following diagram:

M5 gàà... DIRECT OBJECT You know...

 $\mathbf{1}$ complex sentence: initial + main clauses kà' bi họọ bìì bàn ú. illness your that-it-FUT healed-for you cm Z LOG LOG initial subordinate clause bà ìi làà dóbtà wòò-lí tée. that if-you go doctor him-to dem, LOG

The \underline{bi}_{subj} , final \underline{bi}_{emph} and \underline{bi}_{obj} pronouns are roots.

 $\underline{bi}_{fut} = +nuc: free \underline{bi}_{obj} + fut: -\underline{\acute{n}}$

Read: the future <u>bi</u> pronoun is composed of a nucleus manifested by the free (non-suffixed) <u>bi_{obj}</u> pronoun, which is followed by the future suffix -<u>n</u>. Some first person pronouns are based on <u>mí_{obj}</u> forms instead of <u>bi_{obj}</u> forms.

 $\underline{bi}_{nonfut} = +nuc:\underline{bi} + non-fut:-\underline{n}$

Read: the non-future <u>bi</u> pronoun is composed of a nucleus containing <u>bi</u> (except the dual: <u>ba</u>), plus a non-future suffix $-\underline{n}$.

 $\underline{bi}_{emph} = +nuc: free \underline{bi}_{obj} + emph: V length$

Read: the <u>bi</u> emphatic subject pronoun is identical with the \underline{mi}_{emph} pronoun except that the nucleus of this pronoun is filled by the free (non-suffixed) forms of the <u>bi_{obj}</u> pronoun. The 1 pli has no '...ví'.

non-subject <u>biemph</u>: no formula readily visible.

 $\underline{bi}_{futemph} = +nuc: \underline{bi}_{fut} + fut-emph:-\underline{n}_{2}$

Read: This pronoun is identical with the $\underline{mf_{futemph}}$ pronoun except that the nucleus contains a \underline{bi}_{fut} pronoun.

<u>binonfutemph</u>: all are <u>binno</u> except an option in the 1 ple.

3.6.6 <u>Hypothetical pronouns</u>. In hypothetical or contrary-to-fact clauses/sentences, the subject pronoun differs significantly from the \underline{mi} forms, but seems related diachronically. In addition, these forms are used in both subordinate and main clauses, even in independent clauses (i.e., without the presence of a subordinate clause).

Initially, I thought the hypothetical pronouns were identical with the \underline{mi} 'future' forms, but time showed the tense division to be different: the \underline{mi} forms have a future/non-future distinction, but the hypothetical forms contrast 'present' and 'past'. Since they treat an unreal world, a present/past dichotomy isn't the best terminology either.

Note that:

the particle <u>kà</u> is present in both subordinate and main clause,
 the two hyp subject pronoun forms are identical in the clauses of a

single sentence,

3) the subordinate-final demonstrative <u>tée</u> is NOT interchangeable with \underline{maa} which is common in other subordinate clauses, and

4) in the d, 3 s, and 1 pli, the 'present' and 'past' forms are each neutralized and therefore not distinctive!

In the emphatic forms that I've seen, the present/past distinction doesn't seem to be relevant.

Examples of the hypothetical 'present' follow.

(pr30) <u>Kà míń</u> nán nàà-ì tée, <u>kà míń</u> yộộ lig buulí nà'à. (5-224) Hyp I person rich-IMPF dem, hyp I build house be-much many (If I were rich, I'd build many houses.)

-----person. number <u>hyp</u>present <u>hyp</u>_{past} <u>hyp</u>emph kà míń kà mín kà míńno 1 s 1 + 2 dkà ban kà ban kà banno kà món kà móń 2 s kà móńno kànnɔ 3 s kà'n kà'n kà vón kà vóńno kà ban...ví kà banno...ví kà vớń 1 ple kà ban…ví 1 pli 2 pl kà víń kà vín kà víńno 3 pl kà vun kà vun kà vunno
 Table 3.4c:
 Hypothetical pronouns
 (pr31) Kà ban ví nán nàà-ì tée, kà ban yộộ ví lig person rich-IMPF dem, hyp we build we house Hyp we 6uulí nà'à. (5-224) be-much many (If we-incl were rich, we'd build many houses.) (pr32) Bà'á nàà- ì kà'n nán tée, kàn yòò lig Father hyp-he person rich-IMPF dem, hyp-he build house 6uulí nà'à. be-much many (If Papa were rich, he'd build many houses.) (pr33) <u>Kà vun</u> nán nàà- ì tée, <u>kà vun</u> yòò lig Hyp they person rich-IMPF dem, hyp they build house 6uulí nà'à. be-much many (If they were rich, they'd build many houses.) Examples of the hypothetical 'past':

- (pr34) <u>Kà mín</u> yaa vaŋná tée, <u>kà mín</u> dòg kaa- lí sú'ú. (5-224) Hyp I come fast dem, hyp I go-up village-to PERF (If I had come fast, I'd already have gone up to the village.)
- (pr35) <u>Kà ban</u> yaa <u>ví</u> vaŋná tée, <u>kà ban</u> dòg <u>ví</u> kaa- lí sú'ú. Hyp we come we fast dem, hyp we go-up we village-to PERF (If we all had come fast, we'd already all have gone up to the village.)
- (pr36) Bà'á <u>kàn</u> yaa vaŋná tée, <u>kàn</u> dòg kaa- lí sú'ú.
 Father hyp-he come fast dem, hyp-he go-up village-to PERF (If Papa had come fast, he'd already have gone up to the village.)
- (pr37) <u>Kà vun</u> yaa vaŋná tée, <u>kà vun</u> dòg kaa- lí sú'ú. hyp they come fast dem, hyp they go-up village-to PERF (If they had come fast, they'd already have gone up to the village.)

As if this weren't structure enough, if an overt expression of time is used in a supposedly past situation, then the 'present' forms of the pronouns come 'back':

(pr38) Ká bán <u>kà míń</u> yaa vaŋná tée, <u>kà míń</u> dòg kaa-lí sú'ú.(5-224) Yesterday hyp I come fast dem, hyp I go-up village-to PERF (Yesterday if I had come fast, I'd already have gone up to the village.)

An example of the emphatic hypothetical form hyp_{emph} follows. Notice in this case that there is only an independent clause in the sentence. See also the examples (hyp1) and (hyp2) in section 7.1.4.

(pr39) <u>Kà míňno</u> du- m yąg. (5-224) Hyp <u>I</u> bear-you mouth/witness (It should have been <u>I</u> that bore you witness).

3.7 ADJECTIVES

The several types of Dii adjectives are all roots except $qual_2$ and lim. They generally modify nouns in noun phrases, but may also be used as complements in descriptive and equative clauses. Only the indefinite, limiting and interrogative roots may occur as subject or object of a clause, in addition to their adjectival functions.

Dii adjectives will be treated roughly in their order of occurrence in the noun phrase:

- 3.7.1 qualifying $(qual_1)$
- 3.7.2 adjectivalizations (qual₂)
- 3.7.3 possessives (poss)
- 3.7.4 logophoric possessives (poss_{log})
- 3.7.5 kinship possessives (poss_{kin})
- 3.7.5b logophoric kinship possessives (poss_{kinlog})
- 3.7.6 focus (foc) and recall (rec)
- 3.7.7 indefinite (indef)
- 3.7.8 demonstratives (dem)
- 3.7.9 plural (pl)
- 3.7.10 limiters (lim)
- 3.7.11 interrogative (adj_q)

3.7.1 <u>Qualifying adjectives $(qual_1)$ </u>. This group of adjective roots contains such morphemes as:

gbỳỳ	big	6íd	bad
fàg	old	'màŋ̀	new

The total number of qual₁ in Dii is not large. I counted only 88 in the 2002 dictionary containing 5,299 entries.

The usage of qual₁ differs markedly from that of adjectives in English, where 'they are <u>afraid of ants</u>' indicates that 'ants' is a kind of direct object of the adjective 'afraid' (i.e., 'they fear ants'). In Dii, qual₁ only modify nouns (or subject pronouns in descriptive and equative clauses) and do not take objects of any sort. There is a qualifying 'slot' in the structure of the noun phrase in which these qualifying adjectives appear (see 4.2.1).

3.7.2 <u>Adjectivalizations $(qual_2)$ </u>. Qual₂ adjectives have the following characteristics:

1) they're derived from intransitive or transitive verb stems,

2) many of the same suffixes used for n_2 nouns appear here also: <u>m</u>, <u>d</u>, <u>g</u>, <u>b</u>, lengthening or doubling of the verb stem vowel, final -<u>n</u> replaces final -<u>n</u>, or no change.

A few of these adjectives are identical with the noun in form (3.4.3). There are irregular tone and/or stem changes in some forms that haven't been incorporated into the present description. Note the insertion of euphonic vowels with verb stems ending in -<u>'</u> and -<u>g</u>.

Only 55 qual₂ were noted in the 5,299 entries of the 2002 edition of the dictionary.

Tagmemic formula:

 $qual_2 = +nuc:v_is/v_{tr}s + adjr:\underline{m}/\underline{d}/\underline{g}/\underline{b}/\emptyset/vowel \ length \ or \ doubling$

Read: Qual₂ consists of a nucleus filled by an intransitive or transitive verb stem and an adjectivalizer filled by \underline{m} , \underline{d} , \underline{g} , \emptyset , or by vowel length. In one item, final \underline{n} replaces \underline{n} .

Examples:

a) with suffix -m:

kógó	he is-weak	kògom	weak		
pì	it is-hot	píím	hot		
yşş	he is-blind	yəm	blind		
b) <u>with suffi</u>	<u>x -d</u> :				
gb òò	he is-old	gbýod	old		
kà'	he is-cold/slow	ká'ad	cold/slow		
sí'	it ends	sí'íd	last		
zàà	it lives	záad	alive		
z ì g	it is-sweet	zígid	sweet		
c) with suffix -g:					
kỳỳ	it is-crooked	kàşg	crooked		
v <u>í</u> ị	it is-black/dark	víig/víig	dirty		
yý	it is-cooked	yóg	cooked		
'wó	it dries-out	'wóg	dried		

d) with <u>vowel</u> of verb stem <u>lengthened or doubled</u>:

6à gə yè'	he gets-(eye)-put-out he breaks he splits	báa góə yè'è	(eye) put out broken split		
e) with suffix -b:					
y uu	it is-flexible	y uu b	flexible		
f) final - <u>n</u> replaces final - <u>n</u> :					
bùỳ	it rots	bún	rotten		

g) with <u>no consonantal change</u> between verb and adjective:

d uu	it is-good	d uu	good
gìì	he ties	gíi	tied together
gòò	he wraps-up	góç	wrapped up
kìgi	he makes (balls of)	kígi	round
kin	it is-big	kin	big
kpàə	he breaks-in-pieces	kpəə	small
sú	it is-deep	sú	deep
tòò	it is-pleasing	tçç	delicious
yệệ	it is-reddish	yę́ę́	reddish
yòm	it is-bitter	yóm	bitter
'màà	he is-thin	'màà	thin

3.7.3 <u>Possessives (poss)</u>. The ordinary, basic set of possessives parallels closely the <u>mí_{emph}</u> set of pronouns (see Table 3.3). It's used everywhere except where replaced by a logophoric or kinship form (see next 3 subsections). Some examples follow.

- (poss1) Ø lig míí nu. (5-219) It house my F-I (It's my house.)
- (poss2) Ø lig móó nɔ. It house your F-I (It's your house.)
- (poss3) Ø gbá' fóó wòò. (4-148) He takes-care-of body his (He takes good care of himself.)

The relevant portion of Table 3.3 is here reproduced, with the necessary footnotes:

person, number	non- kinship poss	kinship poss _{kin}	non- kinship poss _{log}	kinship poss _{kinlog}
1 s 1+2 d	míí bàà	-n bà	míí bàà	-n bà
2 s	móó	-m _	bìì	bì
3 s	wòò ⁴	-gà ⁵	bìì	bì
1 + 1 ple	vóó	vó	vóó	vó
1+2 pli	bàà ví	bà ví	bàà ví	bà ví
2 pl	VÍÍ	VÍ	bìì/víí	ví
3 pl	vòò	vù/-y ⁶	bìì/vòò	bì/vʉ

portion of Table 3.3: <u>mí</u> series: possessives bi series: possessives

Notes from Table 3.3:

4. <u>wòò</u> becomes -<u>òò</u> by contraction with the preceding morpheme, in which case, the /w/ causes reduplication of the final consonant of the preceding morpheme: <u>lig wòò</u> becomes <u>liggòò</u> his house.

- - - - - - - - - -

5. $-\underline{ga}$: one of several allomorphs (see 3.7.5). The vowel is a duplicate of the vowel in the verb.

6. -y: this form contracts with the preceding vowel (see 3.7.5).

3.7.4 <u>Logophoric possessives ($poss_{log}$ </u>). The logophoric possessive set parallels closely the set of <u>biobj</u> pronouns (3.6.5 and Table 3.3). Like the <u>bi</u> pronoun set, this set is used wherever the possessive refers back to the subject pronoun of the preceding dominating clause (7.3). The forms are seen above in the portion extracted from Table 3.3.

An example (underlined):

(poss4) M5 gàà bà hẹn <u>bìì</u> nu. (5-222) You know sb-it thing LOG F-I (You know that it's yours.)

3.7.5 <u>Kinship possessives (poss_{kin})</u>. These possessives, underlined in the examples below, resemble the \underline{m}_{obj} pronouns except in the 3 s, 3 pl, and sometimes in 2 pl (see Table 3.3 and the portion of it reproduced in 3.7.3 above). In the 3 s there is either a lengthening of the vowel or g plus a reduplication of the preceding vowel.

Examples:

dà <u>n</u> gbòò	my friend (4-28,146,159)	dà <u>vś</u> gbòò	our (excl.) friend
dà <u>bà</u> gbòò	our (dual) friend	dà <u>bà ví</u> gbòò	our (incl.) friend
dà <u>m</u> gbòò	your (s) friend	dà <u>ví</u> gbòò	your (pl) friend
dà <u>gà</u> gbòò	his/her friend	d <u>èy</u> gbòò	their friend

But compare some 3 s exceptions:

dà <u>gà</u> dòŋ	his circumcision friend
dà <u>à</u> są́ń	his younger brother/her younger sister
tò <u>gò</u> fạạ	his father's sister

3.7.5b <u>Logophoric kinship possessives ($poss_{kinlog}$ </u>). These possessives, underlined in the examples below, resemble the logophoric possessive forms seen in 3.7.4. See also Table 3.3 and the portion of it reproduced in section 3.7.3 above.

dà <u>n</u> są́ń	my brother	dà <u>vó</u> sậń	our (excl.) brother
dà <u>bà</u> sậń	our (2) brother	dà <u>bà ví</u> sậń	our (incl.) brother
dà <u>bì</u> sậń	your (s) brother	dà <u>bì</u> /d <u>èy</u> są́ń	your (pl) brother
dà <u>bì</u> są́ń	his/her brother	dà <u>bì</u> sậń	their brother

An example:

(poss5) Mố ồ bà dà <u>bì</u> sáŋŋ- ì. You say sb-he brother LOG younger-F-I (You say he's your younger brother.)

3.7.6 <u>Focus (foc) and recall (rec) adjectives</u>. The adjective <u>máa</u> can have either or both focus and recall functions. It's used in the focus position of clauses as well as the recall position in noun phrases. In the focus position, it draws special attention to the noun it modifies.

We could translate the recall adjectives by 'already mentioned', referring the listener back to someone or something previously discussed.

Three adjectives, \underline{suu} , \underline{pee} , and \underline{tee} have only recall functions and occur only in noun phrases. The form \underline{suu} refers back to something in the immediate context 'just mentioned', while \underline{maa} , \underline{pee} , and \underline{tee} refer further back in time 'already mentioned', which may vary from 'a day ago' to 'years ago'.

A focus example:

(foc1) Kùù máa, Ø kó keb wààníì. (4-43)Quail foc, he does trick much (As for Quail, he's very tricky.)

A recall example:

(rec1) M5 y6' gam tèè sá'áa? (2-18) You swallow pill rec FACT-PERF-Q (Have you swallowed that pill already?)

There are shorter allomorphs of \underline{maa} and \underline{suu} which are used only before the clause marker: \underline{ma} no and \underline{su} no respectively.

3.7.7 <u>Indefinite adjective (indef)</u>. The indefinite root <u>tóó</u> is used as an adjective meaning 'some', 'a certain': <u>bàa tóó</u> 'a certain man'. See also 3.5.2.

3.7.8 <u>Demonstratives (dem)</u>. Demonstratives in Dii have locative or temporal nuances:

yè	this (very close)	tée/té	future time
zù	that (far)	máa/má	non-future time
yỳ	this, that (close)		
ýò	this (close)		
yỳ	this (close)		

The forms $\underline{t}\underline{\hat{\epsilon}}$ and $\underline{m}\underline{\hat{a}}$ occur before the clause marker and before <u>naa</u> at the end of some subordinate clauses.

3.7.9 <u>Plural adjective (pl)</u>. Nouns are pluralized by using an adjectival morpheme <u>vu</u> which appears near the end of noun phrases. But if the context of an utterance clearly shows an item to be plural, <u>vu</u> may be dropped.

Since the plural \underline{vu} and the subject 3 pl pronoun \underline{vu} are homophonous, the question immediately arises as to whether they are one and the same morpheme. They clearly have a single origin diachronically, but synchronically they occur in different positions. They can both occur in a single sentence, and if the subject noun phrase is a coordinated phrase, \underline{vu} may appear several times in a single sentence. In the following example, two \underline{vu} appear (underlined) in the subject NP, each modifying its noun, followed by the subject pronoun in the PN-ML-T (PM) position:

SPM PtrOTeBàbàam kéé vu kan waa vu, vu lá nanháá háá.(4-9E)Rabbit wife pl and child pl they eat couscous long-time long-time
(Rabbit's wife and children ate couscous a very long time.)

3.7.10 <u>Limiters (lim)</u>. The words <u>'wààpád</u> or <u>pád</u> 'all', and <u>waaná'</u> 'a little, a few, some', limit the meaning of the noun they modify:

- (lim1) nán 'wààpád pèè (4-157) man all rec (all those men)
- (lim2) hẹn yệ vu 'wààpád (3-115) thing dem pl all (all those things)
- (lim3) Víň kì hẹn waaná' yúú moo yè- lɨ. (N.T. intro) You-FUT hear thing some on word dem-on (You'll year something about this problem.)

In addition to modifying nouns in noun phrases, the limiter may also be subject or object of the verb on occasion:

(lim4) Vu kì 'wààpád. (3-55) They hear all (They understood all of it.)

The form <u>'wààpád</u> seems to be composed of <u>'wàa</u> 'he finishes' and <u>pád</u> 'all (Ful)'; <u>waaná'</u> seems to be <u>waa</u> 'little' and <u>ná'</u> 'like that'.

<u>Waaná'</u> also has a distributive form: <u>waaná'ná'</u> 'a little of each' (3-18).

3.7.11 <u>Interrogative adjective (adj_q) </u>. The interrogative roots <u>née</u> (<u>nén</u> before interrogative /a/) 'how many, how much', and <u>èn</u> 'which', are used as adjectives in the quantity position in noun phrases. Both roots are also used as pronouns (3.5.1).

Two examples:

- (Q1) É yè Ø dálà nénná? (1A44) The-one dem it 5-frs how-many-Q (How much is this one?)
- (Q2) M5 gà' èná? (4-9G)You horn which-Q (What kind of horn are you?)

3.8 VERBS

Two usually verbal categories are expressed in Dii by the subject pronoun: mood (factative, imperative, hypothetical), and tense (future, non-future). Another usually verbal category is in Dii realized by clause markers: aspect (perfective, imperfective), and one negative clause marker distinguishes the imperative mood from non-imperative moods.

In contrast to the above, the specific contributions of Dii verbs are the following:

1. They can be divided into 'transitivity' groupings depending on what subjects or objects they occur with. This gives us verbs that are transitive, intransitive, locative, perception, intentional, descriptive, inchoative, etc.

2. They can be grouped according to which suffixes, if any, that each verb can take: negative, ditransitive, dative, reciprocal, stative/passive, or accompaniment.

3. Another subgrouping of Dii verbs specifies a plurality of the actors or of the actions involved. Dii 'repetitive' verbs require either several actors, several objects or persons being acted upon, or the verbal process itself may simply be 'pluralized', i.e., repeated several times.

4. When suffixes are attached to a verb stem, Dii verbs may be divided into 8 groups according to their final phoneme: a consonant, a long vowel, or a short vowel.

Dii verbs will be described under the following headings:

- 3.8.1 order of suffixes
- 3.8.2 verb base, verb groups
- 3.8.3 negative
- 3.8.4 intransitive verbs
- 3.8.5 stative/passive verbs
- 3.8.6 reciprocal verbs and the accompaniment suffix
- 3.8.7 locative verb
- 3.8.8 direct object pronouns
- 3.8.9 transitive and desiderative verbs
- 3.8.10 ditransitive verbs
- 3.8.11 dative verbs
- 3.8.12 transitive and ditransitive saying verbs
- 3.8.13 perception verbs
- 3.8.14 intentional verbs
- 3.8.15 descriptive verbs

- 3.8.16 inchoative verb
- 3.8.17 auxiliary verbs
- 3.8.18 repetitive verbs
- 3.8.19 transitive/intransitive contrasts
- 3.8.20 borrowed verbs
- 3.8.21 exceptions
- 3.8.22 summary of verb formulas

3.8.1 <u>Order of suffixes</u>. Verbal suffixes in Dii express the following ideas: negative, stative/passive, reciprocal, accompaniment, ditransitive and dative. Table 3.5 shows the relative order of all Dii suffixes but does not show which suffixes may be attached to any particular verb. This chart will provide a useful overall perspective. If any two suffixes occur together, they occur in this order. No two items in a single column may occur simultaneously.

	1	2	3	
verb stem	stem lengthening	stative/passive reciprocal ditransitive dative accompaniment	negative	
Table 3.5: Order of verbal suffixes				

3.8.2 <u>Verb base, verb groups</u>. The verb base is that form of the verb which has none of the above suffixes attached. The simple factative imperfective clause is the best place to find it: I <u>see</u> the house; the sun <u>is-hot</u>, etc. If there is a direct object, it should be a noun, not a pronoun, to reveal the verb base. BEWARE: although the verbal noun ('infinitive') seen earlier in Table 3.1 is the citation form of Dii verbs, it's not the easiest form from which to derive all other verbal forms; it's therefore not used as the base form in the dictionary.

Given the form of any verb base, the form of any suffix it will take can be predicted according to certain fixed rules. Any form that is an exception to the rules is listed in the dictionary. Dii verbs are divided into eight groups according to their final consonant or vowel. Table 3.6 displays these groups and their characteristics.

3.8.3 <u>Negative</u>. It's only by agreement with the clause marker that verbs take the negative suffix. The negative morpheme is the nasal consonant $-\underline{n}$ wherever possible, a morphophonemic //N//, with partial

assimilation to the bilabial position. Thus stem-final $-\underline{b}$ becomes $-\underline{m}$ in the negative. Note also the absorption of negative $-\underline{n}$ following stem-final $-\underline{m}$ or $-\underline{n}$, which both remain unchanged in the negative.

Throughout the verb system, verb stems are lengthened before the negative suffix in groups 2 and 5, and in addition, $-\underline{n}$ becomes $-\underline{g}$ in group 5. In these groups a short vowel before the final consonant in the stem becomes a 'double' vowel by reduplicating the stem vowel following this final consonant, e.g.: $\underline{\delta g} > \underline{\delta g \sigma}$.

All HH or LL tones on verb stems are modified to HM and LM respectively before the negative suffix.

The negative will be assumed to conform to these rules elsewhere in this grammar except where specifically mentioned to the contrary.

verb group	charac- teristic	base form	negative	translation
1	short final vowel	gbó	gbón	he hits
	long final vowel	dəə̀	də̀ən	he cooks
2	-' -g	sỳ' mbóg	s ş' şn mbógon	he cuts-through he prepares
3	-d	sə̀d	sòn	he saves
4	-b	pìb	pìm	he heats-(something)-up
5	-ŋ	pàŋ̀	pàgạn	he carries
6	-n	àn hì'in	àn hì'in	he burns he separates
7	-m	nìm	nìm	he wakes-(someone)-up
8	-у	ay	ayn	(they) enter-in-large-numbers
Table 3.6: Verb groups, base forms, and the negative				

The verbs in Table 3.6 will be used in all the verb charts, so the group characteristics and translation columns will henceforth be omitted.

All negative forms with a long or double vowel on the verb stem drop the negative $-\underline{n}$ phonetically when the verb is immediately followed by the negative clause marker <u>né</u>: Mí gàan né > Mí gàa né 'I don't know.' Rhythm in the speech chain often shortens a doubled consonant to a single following long or double vowels.

3.8.4 Intransitive verbs (v_i) . Intransitive verbs have the following characteristics:

1) Their nucleus may contain either an intransitive or an intransitive repetitive (3.8.18) verb stem.

2) They have a possible negative suffix attached to the stem.

3) They occur in the head slot of the intransitive verb phrase.

4) The affirmative verb form serves as stem for dative verbs, the verbal noun, and may also serve as the stem for nominalizations (n_2) and adjectivalizations (qual₂). See 3.4.3 and 3.7.2.

5) One verb (<u>mbàà</u> 'sit') can take the 'accompaniment suffix' explained and illustrated in 3.8.6, but seems the only intransitive verb to do so; this suffix will not therefore be listed in the tagmemic formula below.

Dii verbs with several different meanings appear in this category: 1-'true' intransitive verbs (e.g., 'fall'),

2-stative verbs (e.g. 'be-clean'), and

3-motion verbs (e.g. 'come'). (Note that certain of the motion verbs are used in a special way in intentional clauses--see 3.8.14 below.)

Tagmemic formula:

 $v_i = +nuc:v_{i/repetis} \pm neg://N//$

Read: the intransitive verb is composed of a nucleus filled by an intransitive verb stem or an intransitive repetitive verb stem followed optionally by the negative suffix.

Examples:

dę'	he is-clean	hì'	he is-full
làà	he goes	lúú	he rises
noo	he dies	pε	he falls
pì	it is-hot	sí	he gets-down
vę́'	he returns	'yę́ḿ	he walks

3.8.5 <u>Stative/passive verbs (v_{stv})</u>. Stative/passive verbs have the following characteristics:

1) They generally have a stative/passive suffix (or 'extension') $-\underline{y}$ attached to a transitive verb stem; some stative/passive verbs change their tone (compared with the transitive) instead of or in addition to the suffix $-\underline{y}$.

2) They may have the negative suffix in addition.

3) They occur in the head slot of stative/passive verb phrases.

4) The affirmative form serves as stem for the verbal noun.

Some linguists (e.g., Grimes 1975:97) refer to this type of verb as 'nonagentive'.

The action of the stative/passive verb is kept within itself, and may be translated into English by the passive or the past participle. Table 3.7 shows a shorter stem (an allomorph of the transitive verb) for some transitive verbs in group 1 before the stative/passive suffix ($d\partial \partial$). Groups 2 and 5 lengthen their stems here in the same manner as before the negative suffix seen in Table 3.6.

The stative/passive verb is not often used, and in the negative it's rarer still. Group 8 seems to contain no transitive verbs, so there are no reciprocal or stative/passive forms for this group in Table 3.7. Negative forms for each group are illustrated in Table 3.7.

The similarity of meaning between the intransitive and the stative/passive requires closer examination. That they're distinct forms is easily shown by comparing the following:

<u>intransitive</u>	<u>transitive</u>	<u>stative/passive</u>	
pì	pìb	píb	be-hot, etc.
sí	sìd	síy	descend, etc.
súg	sùg	suguy	gather-together, etc.
yúg	yùg	yuguy	hide, etc.

Tagmemic formula:

 $v_{stv} = +nuc:v_{tr}s + stv: \pm -\underline{y} / \pm tone change \pm neg://N//$

Read: the stative/passive verb is composed of a nucleus filled by a transitive verb stem and a possible stative/passive suffix - \underline{y} and/or a tone change, followed optionally by the negative //N//.

Examples in addition to those in Table 3.7:

dè	he tears	dey	it is-torn
kó	he does	kóy	it is-done

mbóg he prepares

3.8.6 <u>Reciprocal verbs (v_{rcp}) and the accompaniment suffix</u>. Reciprocal verbs describe an action where two or more actors are doing something to or for each other, and have the following characteristics: 1) They have a reciprocal suffix (or 'extension') -<u>n</u> attached to a transitive, descriptive, or intransitive verb stem; this -<u>n</u> becomes -<u>m</u> in groups 4 and 7, drawn to the point of articulation of the verb stem and might be entitled morphophonemic //N₂//.

2) A second tone on the syllable is usually high, whether it falls on the second half of a double(d) vowel or on the final n/m of the reciprocal suffix; several verbs with a lexical low tone take high tones in the reciprocal.

3) In groups 2 and 5, they have the stem vowel doubled euphonically as was seen before the negative suffix in Table 3.6.

4) Only affirmative forms have been found so far, which serve as stems in the verbal noun.

5) They occur in the head slot of the reciprocal verb phrase.

verb group	base form	reciprocal	stative/passive	negative stative/passive
1	gbó dàà	gbóń dáán	gbóy dày	gbóyn dàyn
2	s ỳ' mbóg	s ý' ýn mbógón	sş'şy mbógoy	s à' ayn mbógoyn
3	sə̀d	sə́ń	səy/sə́d	sàyn
4	pìb	píń	píb	pím
5	pàŋ̀	págán	pągąy	pągąyn
6	àn hì'in	ậń hí'ín	àn hí'ín	àn hí'ín
7	nìm	ním	ním	ním
8	ay	??	??	??
Table 3.7: Reciprocal and stative/passive verbs				

Examples of reciprocal constructions:

- (rcp1) Vu mb5g5n hẹn lálf. (4-15) They prepare-for-each-other thing to-eat (They prepare food for each other.)
- (rcp2) Ì híín ya víí- lí. (John 13:35) You-pl-IMPV love-each-other place you-pl-at (Love each other!)

Tagmemic formula:

 $v_{rcp} = +nuc:v_{tr/desc}s + rcp://N//$

Read: the reciprocal verb consists of a nucleus filled by a transitive or (intransitive? or) descriptive verb stem, plus a reciprocal suffix //N//, realized as $-\underline{n}$ or $-\underline{m}$.

The 'accompaniment suffix' (or 'extension') describes a joint action/state where the subject of the verb is 'accompanied' in the action or state by someone <u>or something</u>. This morpheme was initially confused with the reciprocal suffix, but must be distinguished from it. It has the following characteristics:

1) Formally, it appears identical to the negative suffix seen in Table 3.6, but with an affirmative meaning (and of course it's not followed by a negative clause marker).

2) It's usually (not always) followed by an accompaniment (IA) phrase which designates who or what 'accompanies' the actor specified as subject of the verb--see 5.2 and the RAP_{kan} phrase in 4.10.1.

3) The accompaniment form can serve as stem in the verbal noun.

4) Almost all the stems that permit this suffix are transitive, but one may be intransitive or is the 'descriptive verb', both having the form <u>mbàà</u> 'he sits/is'; the descriptive verb is followed by predicate nouns or adjectives. An exact title for <u>mbàà</u> is problematic.

Examples of accompaniment constructions:

(acc1) PM P_i IA Lo W kéć doo dágá 'néň, mí mbàan kan- nɔ yò. (3-124) It remains foot one only, I sit-with with-it here (I've got only one foot left here.) $(acc2) PM P_{desc} C_1$ _____

> gbòò... (4-86B) Vu mbàan dag They are-with neighbor friend(They became good friends.)

PM P_{tr} O_1 CM (acc3)----- ---

> (V_u kàb vee) v_u ùun púgg-i. (4-35E) (They light fire) they dry-with meat-F-I (They light a fire and dry meat (i.e., with the fire).)

(acc4) in a subordinate purpose clause:

S sb PM P_{tr} O₁ IA sb _____ ____

Bàbàam Ø sò kóó...moo kéé bìì bà à gàgan waa wu-lí.(3-129) Rabbit he skins skin..for wife his that she carry-together child it-in (Rabbit skins out the hide...so his wife can carry her child in it (i.e., with the skin's 'participation').)

3.8.7 <u>Locative verb (v_{lo})</u>. The locative verb has the following characteristics:

1) It has only the form \underline{di} 'he is-there' in the affirmative and $\underline{p}\underline{\epsilon}$ 'he isnot-there' in the negative; the negative form is therefore a 'replacive' form.

2) It takes no suffixes, and is thus a 'root' according to the definition used in this grammar.

3) It occurs in the head slot of the locative verb phrase.

This verb and its characteristics are so special that the reader is referred to section 5.1.2, subsection f) for a fuller discussion and examples.

3.8.8 Direct object pronouns. Before turning to transitive verbs, it's useful to examine direct object pronouns in some detail. They occur with transitive, ditransitive, dative, stative/passive, objective complement, inchoative, and ditransitive introducer verbs.

These pronouns cause no orthographic difficulties except in the singular, since all plural object pronouns are written as separate words. All three persons of the singular \underline{m}_{obj} pronoun set are, however, written as suffixes if possible (3.6.3 and 3.6.5), and the first singular pronoun of the <u>biobi</u> set presents the same problem.

Table 3.8 shows the number of allomorphs of the verb stem in use before the direct object pronoun; this number varies according to the verb group. The first form listed for each verb group shows the result of

contraction with the 1 s and the 2 s direct object pronouns. The 1 s pronoun is shown on the chart, and is in parentheses. Again, longer verb stems occur before these suffixes in groups 2 and 5 (as before the negative suffix--3.8.3).

The second form listed for each verb group shows the 3 s object pronoun in parentheses. This second form is always the same as the verb base form, and is used before the 3 s and all plural direct object pronouns.

The longer free (non-suffixed) form of the pronoun is used if the verb stem ends in $-\underline{n}$ or $-\underline{m}$. Following the negative suffix also, the object pronoun occurs in its longer, free form.

<u>Contraction rule</u>: Any final $-\underline{d}$ or $-\underline{b}$ in the verb stem, when it occurs before a suffix $-\underline{n}$ or $-\underline{m}$, is lost (absorbed in the speech chain by the nasal suffix). The negative suffix is inserted between the verb stem and any eventual object pronoun; these pronouns then normally take their non-suffixed form seen in Table 3.3.

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Examples ('>' means 'is realized as'):
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s a d + -n (1 s) > s a np b + -m (2 s) > p m

3.8.9 <u>Transitive and desiderative verbs (v_{tr} , v_{desid})</u>. Transitive verbs have the following characteristics:

1) Their nucleus may contain either a transitive or a transitive repetititve (3.8.18) verb stem.

2) They may take the negative suffix, and some can take the accompaniment suffix (but not both simultaneously: 3.8.6).
3) Before a direct object pronoun, some transitive verb stems have allomorphs as shown in Table 3.8 and as discussed in 3.8.8.
4) The affirmative verb base form serves as stem for verbal nouns (vn) and nominalizations (n₂); see 3.4.2 and 3.4.3, and may serve as stem for

stative/passive, reciprocal, or ditransitive verbs.

5) They occur in head slots in transitive verb phrases.

Some 'transitive' verbs have causative meaning: <u>dod</u> 'he makesenter'. There's no causative verb suffix as such in Dii.

Desiderative verbs (v_{desid}) may be regarded as a subclass of the transitives, in that they often appear in transitive predicates. The two

verbs involved, however, $\underline{h}\underline{i}\underline{i}$ and $\underline{s}\underline{\epsilon}$, both meaning 'he wants', are the only two that can fill the desiderative predicate slot in desiderative clauses.

Tagmemic formula:

 $v_{tr} = +nuc:v_{tr/repettr}s \pm \frac{neg://N//}{acc://N//}$

Read: the transitive verb consists of a nucleus filled by a transitive or a transitive repetitive verb stem followed optionally by the negative suffix or by the accompaniment suffix.

Examples (underlined):

- (tr1) Hen tóó Ø mà' waa míí sú'ú. (4-47B) Thing other it catch child my F-P (Something has caught (killed) my son.)
- (tr2) Vu <u>'yé</u> bà'á hộg- ó bá' vo' ndaddú. (4-35U) They keep father bush-in day -ty four (They keep father in the bush for forty days.)
- (desid1) Bà'á Ø <u>híí</u> bi làà kaa- lí. (5-219) Father he wants LOG go town-to (Father wants to go to town.)

3.8.10 <u>Ditransitive verbs (v_{di} </u>). Ditransitive verbs have the following characteristics:

They have a transitive verb stem which is followed by a ditransitive suffix (or 'extension') -<u>d</u> (with lengthened stem forms in group 2).
 The ditransitive suffix maybe followed by the negative suffix, which in turn may be followed by an indirect object pronoun.

3) The indirect object pronoun in the singular is <u>suffixed if possible</u>.
4) Several ditransitive verbs take a high tone on their stem instead of the tone from the lexical base; these are exceptions and are listed in the dictionary as such.

5) They occur in the head slots of ditransitive verb phrases.

The morphemes occurring with ditransitive verbs, then, appear in the following order:

(di1) verb stem $-\underline{d}$ (di) //N// (neg) indirect object pronoun

The <u>first form</u> cited under each group in Table 3.8 in the indirect object pronoun column is the result of contraction with the 1 s pronoun (in parentheses on the chart). The 2 s indirect object pronoun is attached in the same manner.

The <u>second form</u> cited in each group in the same column is used with the 3 s <u>and all plural</u> indirect object pronouns, and shows the 3 s form suffixed in parentheses. All plural pronouns are written as separate words, while the 3 s is suffixed.

n pronoun	pronoun	negative + 3 s indir obj pronoun		
gbɔ́(n) gbɔ́(gɔ)	gbód(dʉ)	gbón(no)		
		dəən(ɔ)		
sà'à(u)		sð, sú, só, só, só, só, só, só, só, só, só, só		
		mbógon(o)		
sà(n) sàd(dʉ)	sə́(n) sə́d(dʉ)	sə́n(nɔ)		
pì(n) pìb(b u)	pí(n) píb(bʉ)	pím(mɔ)		
pągą(n) pą̀ŋ̀(ŋɔ)	pą(n) pąn(nɔ)	pạn(nɔ)		
àn (mí) àn(na)	ậń (mí) áń(na)	ận(nɔ)		
	hì'in (mí) hì'in(ɔ)	şii(ii) hi'in(o)		
nìm (mí) nìm(mɔ)	ním (mí) ním(mɔ)	ním(mɔ)		
??	??	??		
Table 3.8: Direct and indirect object pronouns and the negative				
	n pronoun gb5(n) gb5(gɔ) dəə(n) dəə(wʉ) sàj'q(n) sàj'('q) g mb5gɔ(n) mb5g(gʉ) sà(n) sàd(dʉ) pì(n) pìb(bʉ) paga(n) pàŋ(ŋɔ) àn (mí) àn(nɔ) hì'in (mí) hì'in(ɔ) nìm (mí) nìm(mɔ) ??	n pronoun pronoun gb5(n) $gb5(g_2)$ $gb5d(du)$ dəa(n) daa(u) $s^{3}(2)(n)$ $s^{3}(2)(2)$ $s^{3}(2)(u)$ mb5g2(n) mb5g(gu) $mb5g2d(u)s^{3}(n) s^{3}(n)s^{3}(du) s^{3}(n)s^{3}(du) s^{3}(du)p^{1}(n) p^{1}(n)p^{1}(n) p^{1}(n)p^{1}(n)p^{1}(n) p^{1}(n)p^{1}(n)p^{1}(n) p^{1}(n)p^{1}$		

<u>Contraction rule</u>: the rule in 3.8.8 is repeated here: Any final $-\underline{d}$ or $-\underline{b}$ in the verb stem, when it occurs before $-\underline{n}$ or $-\underline{m}$, is lost (absorbed in the speech chain by the nasal suffix). The negative suffix is inserted between the verb stem and any eventual object pronoun.

So the ditransitive suffix $-\underline{d}$ is absorbed by any following $-\underline{n}$ or $-\underline{m}$. The longer (free) pronoun form is used when an $-\underline{n}$ or $-\underline{m}$ precedes the pronoun in the verb stem:

Examples ('>' means 'is realized as'):

Another contraction involving the ditransitive suffix $-\underline{d}$: it is 'lost' (absorbed) by an <u>preceding</u> b, d, n, m or η in the verb stem; this involves groups 3-7. Group 5 is irregular, final η becoming n, and an irregular shortened verb stem (like <u>pa</u>) occurring before the 1 s and 2 s indirect object pronouns.

Examples:

$$\begin{split} \text{pib} &+ -\text{d} (\text{di}) > \text{pib} &+ -\text{m} (2 \text{ s}) > \text{pim} \\ \text{pib} &+ -\text{d} (\text{di}) > \text{pib} + -\text{m} (\text{neg}) > \text{pim} &+ -\text{m} (2 \text{ s}) > \text{pim} \text{ m5} \\ \hat{\text{qn}} &+ -\text{d} (\text{di}) > \hat{\text{qn}} &+ -\text{n} (1 \text{ s}) > \hat{\text{qn}} \text{ mf} \\ \hat{\text{qn}} &+ -\text{d} (\text{di}) > \hat{\text{qn}} &+ -\text{n} (\text{neg}) > \hat{\text{qn}} &+ -\text{n} (1 \text{ s}) > \hat{\text{qn}} \text{ mf} \end{split}$$

Hyphens from one column into the next in Table 3.8 indicate the same form occurs in both columns.

Tagmemic formula:

 $v_{di} = +nuc:v_{tr}s + di:-\underline{d} \pm neg://N//$

Read: the ditransitive verb consists of a nucleus filled by a transitive verb stem and a ditransitive suffix $-\underline{d}$ which is optionally followed by a negative suffix.

Examples:

- (di2) Vu vàad bà'á sààm 'màn. (4-35U) They sew-for father clothes new.
- (di3) Mí dę- m nagg-ì! I clap-for-you hand-F-I (I thank you!)
- (di4) Mí ndagad vu la'. (4-13) I plant-for them picket(s).
- (di5) M5 lí- n yégg-You ruin-me voice/reputation-F-I (You've ruined my reputation!)

3.8.11 <u>Dative verbs (v_{dat} </u>). Dative verbs have the following characteristics:

1) Their stems are intransitive or descriptive verb stems.

2) They take the suffix (or 'extension') -<u>d</u>, which is homophonous with the ditransitive suffix, but:

3) An inanimate (grammatical) subject is required, whereas the 'indirect object' is animate, and is the semantic 'subject' of the clause; see section 5.1.2, subsection i) for a fuller description of the uses of this verb type.
4) Some dative verbs manifest a different tone from their corresponding intransitive counterpart.

5) They occur more rarely than ditransitive verbs in spoken Dii.

6) They occur in the head slots of dative verb phrases.

7) Rules for contractions are the same as already seen in the previous subsection for ditransitives.

Tagmemic formula:

 $v_{dat} = +nuc:v_{i/desc}s + dat:-\underline{d} \pm neg://N//$

Read: the dative verb consists of a nucleus filled by an intransitive or descriptive verb stem followed by the dative suffix $-\underline{d}$, which may be followed by the negative suffix.

Examples:

d uu d	it is-good-for-(someone)	kééd	it lacks-for-(someone)
mbàad	it sits/is-for-(someone)	néed	it is-difficult-for
tiid	it becomes-for-(someone)	tççd	it is-pleasing-to

(dat1) Zóó Ø dę'ęd nà'á. (4-35M) Heart it is-clean-for mother (Mother is happy.) (dat2) Sààm Ø mbàa- n lig- í. (4-16) Clothes it sits-for-me house-in (I have clothes at home.)

3.8.12 <u>Transitive and ditransitive saying verbs (v_{say} tr, v_{say} di)</u>. These verbs bear similarities to and overlap somewhat the ordinary transitive and ditransitive verb categories, however:

They're verbs of saying that introduce direct or indirect quotes.
 They occur in the head slots of transitive and ditransitive saying verb phrases respectively (i.e., in the introducer clauses).

3) In the negative, the verb in the quoted clause is made negative <u>formally</u> by agreement with the negative of the dominating clause, but retains an affirmative meaning!

```
v_{say}tr = +nuc:v_{say}trs \pm neg://N//
```

Read: the transitive saying verb consists of a nucleus filled by a transitive saying verb stem, followed optionally by a negative suffix.

 $v_{say}di = +nuc:v_{say}dis + di:-\underline{d} \pm neg://N//$

Read: Ditransitive saying verbs consist of a nucleus filled by a ditransitive saying verb stem, plus a ditransitive suffix -d, and an optional negative suffix.

Examples of transitive saying verbs:

híí he answers tàà he thinks vá' he greets

(say_{tr}1) Vʉ §: "Vố nồo púg..." (3-54I) They say we kill animal (They said: 'We've killed an animal.')

Examples of ditransitive saying verbs; note the negative clause marker is outside the quoted clause.

híid he answers-to qd he says-to

(say_{di}1) Mí on mó: "Àm yaan míí-lí" ní. (4-15) I say-to-NEG you you-IMPV come-NEG me-to F-I-NEG (I didn't say to you: 'Come to my house.')

3.8.13 <u>Perception verbs (v_{perc} </u>). Perception verbs have the following characteristics:

1) Verbs of perception can also function as transitive verbs in transitive clauses, but:

2) Their usage in this context is restricted to affirmative polarity, and:

3) There are only 3 perception verbs: find, see, discover.

4) They occur in the head slot of perception verb phrases.

Perception verbs are roots, so have no tagmemic formula.

Examples:

hò he sees màà he finds/discovers nùn he finds

(perc1) Ø nùỳ Kpoo Ø noo sú'ú. (4-9N) He finds Baboon he dies F-P (He finds Baboon is already dead.)

3.8.14 <u>Intentional verbs (v_{int} </u>). Intentional verbs have the following characteristics:

1) They consist of a small number of motion verbs, all of which function elsewhere as full intransitive verbs, however their use in complex clauses is unique and justifies this separate category.

2) The motion of the verb leads to a goal expressed in the verbal noun complement clause, e.g.: he goes <u>to chase them</u>.

3) They may take the negative suffix.

4) They occur in the head slot of intentional verb phrases.

Tagmemic formula:

 $v_{int} = + nuc: v_{int}s \pm neg: //N//$

Read: intentional verbs are composed of a nucleus filled by a motion verb stem with or without the negative suffix.

Examples:

dòg	he goes-up	làà	he goes
yaa	he comes	z ùù	he goes-down

(int1) Mí làà vʉ nɛné- è. (3-141) I go them to-chase-F-I (I'm going (in order) to chase them.)

3.8.15 <u>Descriptive verbs (v_{desc})</u>.
1) Descriptive verbs are two in number: <u>mbàà</u> 'he sits/is' and <u>tii</u> 'he changes, becomes', which function elsewhere as intransitive verbs.
2) They fill the head slot in descriptive verb phrases.

3) They usually occur in the affirmative, but can take the negative or the 'accompaniment' suffixes.

4) The affirmative form serves as stem for the verbal noun, and for reciprocal or dative verbs.

Tagmemic formula:

 $v_{desc} = +nuc:v_{desc}s \pm \frac{neg://N//}{acc://N//}$

Read: the descriptive verb consists of a nucleus filled by a descriptive verb stem followed optionally by the negative or the accompaniment suffix.

See 3.8.6 for an example of the descriptive verb with the accompaniment suffix. Other examples follow:

- (desc1) Hààb tèè Ø tii gà' nan. (4-9D) yam rec it becomes horn couscous (The yam changed into a horn of food.)
- (desc2) Gà' tóó vu tiin gà' nan né. (4-14) Horn other they turn-NEG horn couscous F-I-NEG (Other horns don't turn into horns of food.)

3.8.16 <u>Inchoative verb (v_{inch}) </u>. Some of the inchoative verbs are valid transitive verbs elsewhere, but the following verbs when used with a verbal noun clause as complement, have the following characteristics: 1) There are only seven:

1) There are only seven:

di 'he is-in-the-process-of/is ...-ing/is-about-to...',

<u>bé'</u> or <u>vbíń</u> or <u>dəŋ</u> 'he begins',

<u>sì</u>' 'he finishes',

káń 'he begins-without-hesitation',

màà 'he helps'.

2) They are followed by a verbal noun clause in a complement position.
3) They can take the ditransitive suffix (or 'extension') -<u>d</u> when they

precede the indirect object of the verbal noun in the complement clause. 4) They occur only in the affirmative.

5) They occur in the head slot of inchoative verb phrases.

6) They're subject to the same contractions before pronoun objects as the transitive and ditransitive verbs (3.8.8 and 3.8.10), despite the fact that these objects are 'logically' the objects of the verbal noun in the complement position.

Tagmemic formula:

 $v_{inch} = +nuc:v_{inch}s \pm di:-d$

Read: the inchoative verb consists of a nucleus filled by an inchoative verb stem followed optionally by the ditransitive suffix $-\underline{d}$.

Examples:

(inch1) Ø bàà dɨ dòò zɔlí. (3-143) He habitual is-in-process-of wine to-drink (He is drinking wine.)

(inch2) Mí dɨd ví moo tóó ỳlệ- ỳ. (3-94) I am-in-process-of-to you word other to-say-F-I (I'm telling you something.)

3.8.17 <u>Auxiliary verbs (v_{aux}) </u>. Some auxiliary verbs have the same (or similar) forms as certain transitive or intransitive verb bases, but: 1) they must be separated out as a group, since no auxiliary verb ever takes any suffix whatever, and 2) they occur only in pre-verb and post-verb positions in verb phrases when functioning as auxiliaries. See 4.7 for a fuller discussion of auxiliary verbs in the phrase context.

There are two classes of auxiliary verbs, those which merely lend movement or position to the main verb of the verb phrase, and those that change the aspect of the main verb.

Those <u>lending movement or position</u> to the main verb are the following:

dàà	pass-by	dòg	go-up
là	go	làan	take-away
lúú	leave/rise	súg	gather-together
ya	come	yà	arrive
yaan	bring	z ùù	go-down

<u>Lúú</u> occurs only preceding the main verb, while <u>làan</u> and <u>yaan</u> occur only following it; the others in this list can occur in either pre-verb or post-verb position.

Some of those that <u>change the aspect of the main verb</u> and <u>precede</u> the main verb:

bàà duration of the action, habitualdəŋ beginning of the action or doing something first before another action

dùù	repetition of the action, or indicates that another action
	will follow next: 'and then'
fàà	repetition of the action
mbóg	repetition of the action

Two auxiliary verbs of this latter type always <u>follow</u> the main verb:

wàd	termination of the	action
'wàa	termination of the	action

3.8.18 <u>Repetitive verbs (v_{repet})</u>. Repetitive verbs are known rather widely in West African languages. Mba (1996/97) refers to them as having a 'pluralizer' affix in gbomálá', one of the Grassfields Bamiléké languages. Boyd (1989:206) notes that an iterative form of the 'verb process' is 'widespread' in the Adamawa-Ubangi group. Elders (2000:183-94) describes 'extensions pluractionnelles' in Mundang, a French adaptation of Newman's term 'pluractional' in speaking of this phenomenon in Chadic languages (Newman 1990). Others working with Chadic languages refer to 'plural verbs' (see Cope 1993:73-4).

These verbs in Dii might be treated as a separate verb type, but they seem to be only a subcategory of transitive and intransitive verbs, occurring wherever these larger categories occur. I therefore list them above in those respective subsections, and here only draw attention to their very interesting common characteristics: 1) Although their stems seem to be limited in number (transitive or intransitive), they do seem to be productive synchronically. 2) Repetition of the action of the verb is shown either by a lengthened or reduplicated vowel, or by a tone change, or by both; it's not clear which option is used with which verb, which would seem to indicate that this

process has been in existence for a long time in the language.

3) The object (or the subject) may be expressed in the plural.

It's not always possible to neatly separate these forms into subcategories. First some illustrations of the repetition of the verbal action:

gbò	he leaves (someone)	gbóo	he leavesseveral times
pa	he announces	pà'a	he announces several
			times

The following illustrate a mixture of actions repeated with a plurality of objects being manipulated:

6á'	he asks for	6á'a	he asks several times or for several things
6à'	he crushes	6à'a	he crushes several
mbóg	he prepares	mbógo	he prepares several times or things
ndag	he transplants	ndaga	he transplants several
sà	he lights-a-fire	sàa	he lights several or in several places
'wò	he breaks	'wóo	he breaks several

The following is a case where the subject of the verb must be plural:

ɗáá	he climbs-up	ɗáa	(they) climb-up
lúú	he leaves	lúu	(they) leave

On the other hand, sometimes a change of tone alone indicates the repetitive:

dù	he cuts-down	d ú	he cuts-down several
nờŋ	he bites	nóń	he bites several times
wòò	he pulls	wóó	he pulls several times or things

3.8.19 <u>Transitive/intransitive contrasts</u>. Certain transitive/ intransitive contrasts involve differences in tone. Generally (but not always) the higher tone corresponds with the intransitive, the lower tone with the transitive:

transitive:

gád	he becomes-quiet	gàd	he quiets
hi'i	they separate	hì'i	he separates (things)
lúú	he rises	lùu	he raises (something)
nam	he moves	nàm	he moves (something)
níḿ	he awakes	nìm	he wakes-(someone)-up
noo	he dies	nòo	he kills
sád	he is-saved	sàd	he saves
súg	(they) come-together	sùg	he gathers together
túḿ	it falls-down	tùm	he destroys
vę́'	he goes-back	vę̀'	he gives-back
víį	it is-black	vìį	it blackens
vúd	he goes-out	vùd	he puts-out, takes-out
vbád	it falls-from-position	vbàd	he makes-it-fall
yúg	he hides	yùg	he hides (something)
zàà	he is-healed	zà̧a	he heals

intransitive:

'wáa	it is-finished	'wàa	he finishes
'wód	it dries up	'wòd	it makes-dry/thirsty
'yậ́m	it gets-wet	'yàm	he makes wet

Some other intransitive/transitive contrasts, however, are marked by suffixes (sometimes with an accompanying tone change):

dó	he enters	bćb	he inserts
gà	it boils	gàb	he heats-up-very-hot
pè	(wind) blows	pèd	he blows-on
pì	it is-hot	pìb	he heats-up (something)
sí	he goes-down	sìd	he lowers
ti	he is-lost	tìd	he loses
tú	it is-destroyed	tùd	he destroys-completely

3.8.20 <u>Borrowed verbs</u>. Fulani verbs are borrowed into Dii and <u>retained as verbs</u>, but the only suffix they may take seems to be the verbal noun suffix /lf. Nominalizations (n₂) may also be formed from Fulani verbs, but all these adaptations are in flux as Fulani gains influence in the Dii area.

Examples:

bíńní or bíń	'writing' from <u>bíńda</u> 'he writes'
díní	'religion' from <u>díń</u> 'he prays-as-a-muslim'
záńné	'reading' from <u>záńgà</u> 'he reads'

French verbs are accepted into Dii only in their infinitive form and are used <u>as verbal nouns</u>, seeming to occur consistently as objects of the verb $\underline{k5}$ 'he does':

(bor1) Ba k5 ví voté- i. We-incl-IMPV do we vote-IMPV (Let's vote!)

3.8.21 <u>Exceptions</u>. Some Dii speakers have irregularities involving members of verb group 1. Only the irregular forms are cited in Table 3.9, the other forms of the same verbs being inferred from the charts in the preceding sections on verbs. Listed at the right are references to my note books and to texts in the Dii New Testament where some exceptions are found.

verb base	translation	direct object pronoun	indirect object pronoun	
àà dùù	he digs he follows	dù(m) 2 s dù(gu) 3 s	àà 3 s	3-122 Mk. 2:14, dict.
màà	he helps	ma(gu) = 5 s ma(m) = 2 s		dict.
pú	he gives	·····(···) - 5	pú(gu) 3 s	Mk. 4:25, dict.
sà	he pricks		sà(ga) 3 s	Rev. 12:14
vì	he asks		vì(gi) 3 s	Mat. 9:14
yà	it arrives		yà(gạ) 3 s	Lk. 4:2
yèè	they elect	$y \hat{\epsilon}(n) = 1 s$		3-35
		yè(ge) 3 s		3-35
Table 3	3.9: Verbal exc	eptions		

The internal phonological structure of some verbs is seen to be somewhat irregular: After a short nasalized vowel, if no other consonant closes the syllable, a glottal stop will almost always close it: <u>kà</u>' he'scold, <u>sà</u>' he cuts, etc. Only eleven verbal exceptions have been found to this practice:

<u>hà</u>	he breaks-off (leaf)	<u>hę</u>	he sets (a post)
<u>hì</u>	he snores	<u>hò</u>	he sees
ò	he says	<u>sò</u>	(foot) is-asleep
<u>yą́</u>	he hides-in-order-to-do-evil-to	<u>yà</u>	he attains
<u>yè</u>	this	<u>yó</u>	he melts (metal)
<u>yò</u>	there (near by)		

3.8.22 <u>Summary of verbal formulas</u>. A summary of the tagmemic formulas for Dii verbs is found in Table 3.10; note that v_{lo} , v_{perc} , and v_{aux} are roots and have no formulas themselves.

verb	nucleus	stative/passive reciprocal ditransitive dative accompaniment	neg
v _i	+ v _{i/repeti} s		±//N//
V _{tr}	+ v _{tr/repettr} s	± acc://N//	±//N//
V _{rcp}	$+ v_{tr/desc}s$	+ rcp://N ₂ //	±//N//
V _{di}	$+ v_{tr}s$	+ di:- <u>d</u>	±//N//
V _{dat}	$+ v_{i/desc}s$	+ dat:- <u>d</u>	±//N//
v _{stv}	$+ v_{tr}s$	+ stv:-y/tone chg	±//N//
Vinch	$+ v_{inch}s$	± di:- <u>d</u>	
Vint	$+ v_{int}s$		±//N//
V _{desc}	+ v _{desc} s	± acc://N//	±//N//
v _{say} tr	+ v _{say} trs		±//N//
v _{say} di	+ v _{say} dis	+ di:- <u>d</u>	±//N//
Table 3.10: Summary of verbal formulas			

3.9 TEMPORAL-LOCATIVES

Discussion of temporal-locatives (telo) will have four divisions:

- 3.9.1 common telo roots and temporal-locative $/l_{\rm f}/$
- 3.9.2 temporal roots (te)
- 3.9.3 locative roots (lo)
- 3.9.4 place names (lo_{place})

Telo roots and words fill axis and relator slots in locative and temporal phrases. Occasionally certain temporals may be used as fillers in subject tagmemes of clauses.

3.9.1 <u>Common telo roots and telo /lí/</u>. Several telo roots are used with both temporal and locative meanings. The most widely used is the morpheme /lí/, which deserves special mention and must be treated separately from other telo morphemes.

Telo /lí/ has several allomorphs. After vowels, the form -lí usually occurs (the l is epenthetic), and after consonants the form - \underline{i} . When suffixed to a closed syllable containing a short vowel V, it causes the doubling of the syllable-final C. The options are therefore: CVlí, CVVlí, CVCCí, and CVVCí. Double vowels V'V and VgV follow the same pattern as long vowels VV. The height of the suffix vowel assimilates partially to the height of the preceding vowel; see Table 1.7 and the associated text.

Examples:

kíilí in the compound mènné in the afternoon

Following certain morphemes, however, telo /li/may be realized as a duplicate of the preceding vowel. Since in each of these cases the initially final consonant is a 'g', the suffix along with the Vg forms a 'double' vowel VgV:

hág	ground	hágá	on the ground
hýg	bush	hýgý	in the bush
nag	hand	nagá	in the hand
yąg	mouth	yągą́	in the mouth

In two instances, telo /li/ is realized as nothing, possibly from the influence of a dialect other than <u>mam be</u>':

bəgəm	shoulder/on the shoulder
yúkaa	foreign country/in a foreign country

In still other cases, this suffix /li/may be preceded by a shortened form of the noun (n_{1d}) involved. See 3.4.1 for more examples.

nóó	eye	nólę́	in the eye
vee	fire	velí	in the fire

Telo /lí/, like the verbal noun suffix /lí/, when it occurs immediately before the interrogative marker /a/, loses the vowel i which is supplanted by the interrogative /a/, giving -l \underline{i} or - \underline{i} .

When reference is made to 'telo roots' in this grammar, only such as the following common telo morphemes (and not telo /li/) are meant:

bá'	near, close
dìgà	as of, since
hậậ(ậậ)	until/a long time/far away (may be an ideophone, at
	least in its origin)
pig/pigim/pągąm	behind, after
tíí	ahead of, before
tíý	before, in, in front of
wʉ(lí)	there, at that time

The distinction I make here between 'telo /lí/' and 'telo roots' is very useful in discussing locative and temporal phrases, since telo /lí/ occurs in both LoP_{lf} , TeP_{lf} , LoP_{telo} , and TeP_{telo} but 'telo roots' occur only in LoP_{telo} and TeP_{telo} phrases (4.8.1, 4.8.2, 4.9.1, and 4.9.2).

3.9.2 <u>Temporal roots (te)</u>. A sample of roots used only to indicate time follows:

ká/gá	far past time
bà	past time
ká búu	day before yesterday
bán/ká bán	yesterday
6èè	today
yógó	tomorrow
búu	day after (tomorrow)
àlàd	Sunday (Ful)
àltìnì	Monday (Ful)
à'ạ yè	now
bá'	day
fáá(áá)	a long time (may be an ideophone in origin)
máa/má	present, past time
mèn	afternoon, evening

sèỳ/zàg	time
téé/té	future time
túḿ	forever, always (Ful) (may be an ideophone in origin)
zàa	a bit later
zą́gą	day (sun)

The word $\underline{y5g5}$ 'tomorrow' contracts with the interrogative to form $\underline{y5g5}$.

The words 'tomorrow, today, day after, day (sun), day, afternoon', plus the names of the days of the week, and the names of months, may occur as subjects in clauses. The names of the days of the week and the months are usually borrowed from French or Fulfulde.

3.9.3 Locative roots (lo). Several morphemes have only locative meanings (often with a demonstrative nuance). In addition, some subcategories of locative roots aren't completely understood. The following 4 subgroups seem to be separable, however, although a few morphemes occur in all the contexts about to be described. Note that some telo roots listed above also appear in the following lists, since they have both locative and temporal meanings.

Group 1: these occur 'independently,' e.g. in the sentence: $Mi h \partial g \phi \phi d i...$ 'I see him he is...'

1 / 1	
bá'	near
dàn	beyond
góó/góń	outside
hágá	down, below
kàpigim	behind (the village)
ná'	(over?) there
pậń	there (above)
pè (nɔ)	down there
pì (nu)	up there
pigim/pągąm	behind
tíí/tíý	inside
yúúba/yúba	above, up, upright
zógón	(down) there

Group 2: The same basic sentence (cited in the paragraph above) may be followed by a Locative Phrase (LoP_{lí}, see 4.9.1) which contains the telo morpheme /lí/ discussed above in 3.9.1. The locative and/or demonstrative roots below occur in this context. For example: <u>Mí hògo</u> $\underline{\emptyset} \, di \, ka' a df$, etc.

duuli (= di + wuli) he is-there ka'ad(i) alongside

ka"(í)	alongside	kɔɔg(í)	behind
téé/té(lá)	where?	yè(lí)	here (close)
yỳ(lý)	there (fairly close)	zù(lí)	far away

Group 3: The locative roots below occur in the sample sentence: <u>Mí hò nóggaa Ø di ... liggí</u> 'I see bird-small he is ... house-in', and the locative root <u>precedes</u> the noun in the locative phrase (see LoP_{telo} in 4.9.2):

dáý	near	ka'	alongside
kìì	behind	pig	behind
sàam	in the middle of	tíí/tíý	in
yąg	very near	yúú	on

Group 4: In the same sentence as for group 3, the following locative roots may occur <u>following</u> the noun in the locative phrase (LoP_{telo}, 4.9.2): <u>... di lig...</u>:

pè (nɔ)	near to	pì (nu)	far from
pigim/pągąm	behind	sàạmé	in the middle of
tíí/tíŋ́	in	yúba	above

3.9.4 <u>Place names (lo_{place} </u>). Place names, like proper names, manifest a vast array of internal structures: noun 1, compound nouns, qualifying adjectives, verb phrases, verb plus object, and verb plus adverb -- all are used as place names.

They fill only axis slots of locative phrases, ordinarily. No tagmemic formula will be given at this time.

Examples:

Noun 1: wààg (Fr. Wack) 'rib' Adjective: mbàà (Fr. Mbé) 'robust' Compound noun: ság zèè (Fr. Sakje) ság 'corral' + zèè 'buffalo' guu hęęg (Fr. Gorhèk) guu 'mountain' + hęęg 'bamboo'

Verb phrase:

vùd yệ' (Fr. Vourgné) vùd 'he puts-out' + yệ' 'he dries'

Verb plus object:

- ta gbùỳ (Fr. Taboum) ta 'he ties' + gbuŋ 'a certain bush'
- dù gộŋ (Fr Dogong) dù 'he cuts' + gộŋ 'shield'

Verb plus adverb:

dàà nà'à (Fr. Déna) dàà 'she cooks' + nà'à 'very well'

3.10 ADVERBS

Our discussion of adverbs (adv) will be divided into three sections:

- 3.10.1 adverb roots
- 3.10.2 -<u>ná</u> adverbs
- 3.10.3 complex adverbs

3.10.1 <u>Adverb roots (adv)</u>. Adverb roots occur in the manner position in clauses (5.2). Four adverb roots (<u>wòò</u>, <u>bìd</u>, <u>kàd</u>, <u>sám</u>) have an emphatic meaning and occur in emphatic clauses (7.5). The form <u>bà'à</u> occurs in qualifying phrases (4.6), and <u>nà'à</u> occurs in verbal noun phrases (4.3).

Examples:

bà'à	very
6ìd	not at all
dáń	only
kád	differently
kàd	(not) at all
méń	only
náá/ná'	like that
nà'à	very
pę́ń	first
sậḿ	(not) at all (Ful)/ emphasis
wààníì	much (Ful)
wòò	emphasis

3.10.2 <u>-ná adverbs ($adv_{ná}$ </u>). Adverbs formed by -<u>ná</u> have the following characteristics:

- 1) They contain the suffix -<u>ná</u>.
- 2) They have a noun, a qualifying adjective, or an ideophone stem.
- 3) The occur in the manner position in clauses (5.2).

Tagmemic formula:

 $adv_{n\acute{a}} = +nuc:n/qual/ideo + advr:-\underline{n\acute{a}}$

Read: the -<u>ná</u> adverb is composed of a nucleus filled by a noun, qualifying adjective, or an ideophone followed by an adverbializer -<u>ná</u>.

Examples:

1	/	•	
K	18	31	

round

kíginá

circularly

kòòg	force	kòògná	forcibly
lee	free	leená	freely, of no value
líw	robbery	líwná	by stealing
sìm°	silent	simná	silently
yę́ń	seed	yę́ńná	truthfully
'màŋ̀	new	'màŋná	newly

Three other forms don't seem to have a corresponding noun or adjective:

hậná fast vaŋná fast zạạná much

3.10.3 <u>Complex adverbs</u>. Several adverbial expressions have a more complex structure but have become frozen as idioms. In the following glosses, 'FI' stands for FACT-IMPF.

dam pél í	without equal (neighbor is-F-I-NEG) (4-81)
d uu n dóń né /don dóń né	much (is-good-NEG only F-I-NEG) (3-96)
f yògo, f yògo	like this, like that (3-110&115&117)
kée né	no exceptions (lacks F-I-NEG), e.g.:
kéen (nag) né	no exceptions (lacks-NEG (hand) F-I-NEG)
làà leená mbàà ná' pɛ là vɛlí	(3-127) much (goes freely) much (sits like-that) (4-35M) much (falls go fire-in) (4-81)

3.11 IDEOPHONES

Ideophones, due to their distinctive characteristics, are best studied separately from non-ideophone lexical items. Many persons have attempted to define ideophones in specific African languages or have surveyed the existing literature (Bohnhoff 1982, Courtenay 1976, Doke 1935:118, Elders 2000:205-26, Houis 1967:XIII, Moore 1968:2, Newman 1968, Noss 1973, 1984 and 1985a & b, Samarin 1965, 1970:160, 1971b, 1974:162, Welmers 1973:446-77, Wescott 1977).

The oldest definition of ideophones is evidently that of Doke 1935. He said an ideophone is: 'a word, often onomatopoeic, which describes a predicate, qualificative or adverb in respect to manner, colour, sound, smell, action, state or intensity.'

A more recent definition, reflecting study of ideophones worldwide, is the following by Samarin 1974:162. Ideophones are: 'words with attributive functions (generally adjectival or adverbial) from a class of words with open membership characterized by phonological or syntactic anomalies, or both.'

It seems most useful to treat Dii ideophones as a separate morpheme class, an open class, not a closed class. In contrast to other Dii morpheme classes, the class of ideophones does have some distinctive phonological shapes, and some distinctive semantic characteristics. It should be emphasized that the "characteristics" to be described are applicable to the class of ideophones, not to each and every ideophone.

Ideophones as a class of items occur in ideophone phrases (4.11) and in numeral phrase 2 (4.12.4). They're often difficult to translate into English, and the immediate context determines their meaning to a high degree.

Section 1.8 has already dealt in detail with the phonological characteristics that are distinctive for Dii ideophones. This section will, in addition to the definition for ideophones given above, deal with the semantic characteristics which seem distinctive.

Dii ideophones seem to fall into the following semantic domains: 1) onomatopoeia; 2) vivid description of colors, manner, movements, qualities, physical or mental states; 3) temporal or locative descriptions; and 4) (general) intensification of an idea. The symbol ° is suffixed to a phoneme that may be lengthened indefinitely. Illustrations follow:

Imitation of sounds (or absence of sound):

gug	sound of a kick with the foot,
gbùù	sound of knocking someone down,
kpɔw/kpùù°/kpúỳ/'wàà	gunshot,
ŋgə̀ə̀r	sound of snoring,
sà r	sound of blowing one's nose,
sę́ŋlę́ŋlę́ŋ/sìm̀°/wódódó	completely silent,
vệệd	sound of (sheep) drinking water,
wóý/'wée°/'wé/wóóe	cry of pain,

Color:béý/kpàaŵ/mgbàỳ/ndąąd/yèỳ/yèỳgèŋred,dídíg/dígín°/díŋ°/kỳlóg/kpòod/mgbàg/vìmblack, dark,ig'igdark red,kççd/kéńkéń/kèŵ/táń/tóówhite, clear,kíláńvery clear (clean water),mbíŵreddish new leaf color,zązą'whitish (water),

Movement (or lack of it), manner:

alam	throwing oneself around (drunk),
buvbud/kpę̀kpę̀ę̀kpę̀ŋ̀/ziziizid	fast,
6ú' 6ú'	turtle walking,
kóń	directly, without stopping,
kpìkpìg	without stopping, with persistence,
są́ą́są́ą́	very carefully, slowly,
sàẁ	squirting, pouring,
sím	fast, suddenly,
sàỳ	(sleeping) soundly,
tàd	stationary, without moving,
wəg wəg	(running) tiredly,
'yęŋ'yęŋ	openly, without hiding,

Physical states, qualities:

bógógó	protuding (eyes),
hậm	passing (odor),
kííd/'má'	exactly alike, equal, completely level,
kpíkpííkpíŋ/kpíkpíŋ	very dull (knife),
kpən	exactly in the middle,
kpákpáəlá/kpáəlá	cold (water),
mgbìgìlíglíg/mgbəgám	sweet,
mgbág	inflated (stomach of a sick person),
nząąd	gluey (nasal mucus, gravy),
ŋgáń	very hard (stone),
pùń	empty (road),
ság/tậý	very full (container, house, yard),

sà`r tu'tu'/ugud	very bright (sun), very good (wine),
wàwàỳ/wàwààwàỳ	new,
zúgúlú	very poor,
Mental states:	
6á'/ dìll/ hígigi	astonished,
6 ù lúý	sudden understanding,
dìì	astonished, undecided,
fàẁ/vɛw/vèẁ	angry,
mgbèw	without understanding,
mgbàà/mgb ùù /wòò/'wàà	enormous, causing terror (buffalo)
şgşd	painful (idea),
pùdpùd	with joy, warmly,

Temporal, locative descriptions:

very early morning,
far away,
wait a long time,
very close, near,
(time) passes fast,
everywhere,

Intensification of numeral or limiter descriptions:					
káńtáń/'mógód	(eats it) all/completely up,				
kpàà/kpòò	all together, without exception,				
mòò°	a lot of (dust on one's body).				
sàỳ/vọ'vọ'	numerous,				
zùr	in quantity, a lot,				
(dágá) kpágkpág/'néń	only (one).				

In addition to the above listing by semantic domain, many ideophones in the Dii language could also be grouped according to which of the five senses are involved (Alexandre 1966):

sight -	protuding, inflated, squirting, all colors, movement (or lack of
	it), etc.,
hearing -	cry of pain, sound of a kick, other onomatopoeia, or the
	absence of sound,
taste -	sweet, good (wine), etc.,
touch -	dull, hard, gluey, cold, etc.,
smell -	passing (odor).

This latter manner of classifying ideophones, since it crosscuts the semantic domains listed above, would require totally reworking the

classification, and would necessitate also adding several non-sensorial categories, as Alexandre does.

Samarin (1965:119-20) draws attention to a correlation in many African languages between certain meanings and certain phonemes ('sound symbolism' is his term). Since both the Dii language and Gbeya belong to the Adamawa-Eastern subfamily of Niger-Congo, it's interesting to note a Dii phenomenon very similar to what Samarin reports for Gbeya.

In my sample the following ideas are strongly associated with high tone:

small, thin,
 empty, shining,
 high,
 tight,
 complete.

Low tone, however, seems to be frequently associated with: 1) abnormal (inflated, swollen, paralyzed, stiff...), 2) fear (scary, big, deep, oily, frightful, terrifying...), 3) early.

Many of the meanings associated with low tone, therefore, have pejorative nuances.

Only 702 ideophones are in my current corpus, a relatively small number of all Dii ideophones.

3.12 NUMERALS

Dii unit numerals (num_{uni}) generally occur in numeral phrases (4.12) or quantity slots in noun phrases (4.2.1), but they can also serve as subject or object in a clause instead of a noun phrase. Unit numerals are cardinal (card) numerals, as are several of the numeral phrases (see 4.12).

Dii numerals will be discussed under the following headings:

- 3.12.1 1-9 (num_{uni})
- 3.12.2 distributive
- 3.12.3 before interrogative /a/
- 3.12.4 before the hesitation morpheme
- 3.12.5 fractions (frac)

3.12.1 <u>1-9 (num_{uni})</u>. Unit numerals are all roots and are listed in Table 3.11. The forms listed are used in non-final position in utterances. Several of the unit numerals have allomorphs used before pauses, as when one is counting: one, two, three, etc., or at the ends of utterances. These 'pausal allomorphs' double the last consonant except after a long vowel: <u>dággá, iddú, taanó, ndadú, nóńnó</u>.

There's evidently some relationship between 7 and 6, with 7 meaning something like 'six odd'; 8 means something like '4 beside 4'; and 9 is said to mean 'lacking 1 finger (on 10)'. This latter is doubtless related to expressions of the type <u>kéé idú kan vo' tạạnó</u> 'it lacks 2 of 30' = 28. (3-13)

3.12.2 <u>Distributive numerals</u>. If several objects are each modifiable by a certain number (as 'five each'), Dii uses reduplication. Several of the unit numerals have specific changes which take place through this reduplication; others are merely repeated twice without pause. See Table 3.11.

These distributive forms occur in the distributive numeral phrase (4.12.6), but are treated here first in order to include them in Table 3.11.

3.12.3 <u>Before interrogative /a/</u>. Certain of the unit numerals lose their final vowel through contraction with the interrogative /a/ when it follows immediately after the numeral. Others don't. See Table 3.11, which cites the shortest possible form of the interrogative. Context may require a lengthening of the final vowel.

3.12.4 <u>Before the hesitation morpheme</u>. The same unit numerals which contract their final vowel with the interrogative /a/ also contract it with the exclamative morpheme $\underline{\acute{e}e}$ (5.1.2).

3.12.5 <u>Fractions (frac)</u>. Few fractions are used in Dii. <u>Ka'</u> is used in the sense of 'half, part'. The form <u>réétà</u>, borrowed from Fulfulde, is used in the same sense.

3.13 EXPLETIVES

All expletives (exp) are roots, some used as responses, others as exclamations. Expletives occur in expletive and plea sentence positions and in response sentences.

3.13.1 <u>Responses</u>. The following expletives are used in responses. The list is not exhaustive.

<u>àá, èé, èé, ènó, ènóo, òó, all mean 'what?' (what did you say?)</u>

àa, ee, èe, èè, èe, èèe, mm, oò, òo, all mean 'yes'.

áá'à, 'mm'm, 'm'm, 'nn'n, all mean 'no'.

tòw 'so, OK' (borrowed from Fulfulde).

3.13.2 <u>Exclamations</u>. No attempt is made here to be complete, only to present some examples with their general meanings.

- surprise: bàá, hà', hmm, ká', òó', wí (wí wí...), wúú° àsée (Pidgin), láá (Ful)
- irritation: á, àá', á', à', á', bàa, háý, hè', ká', m, òó', ó', èó', 'm káy (Ful), kayya' (Ful)
- emphasis: èè, èèhée, woo, yii, lée (Ful)
- praise: yow (Ful), yówwà (Ful)

sadness: áaà

- to attract (or increase?) someone's attention: yoò, héỳ (Ful), ndá (Ful), úsệné (Ful)
- express sympathy: á'á'á, á"aahàà, á"aahàà, é"eehèè, é"mhmm, ó'ó'ó, ó"oohòò, á"aahàà, á", á"mm'mm, 'mmmm, 'n ahàn

greetings at the door: tèè, tí"oo, tíì

3.14 RELATORS

Many temporal-locative roots also have a relating function, but only those relators (rel) will be discussed here that have no other function than relating elements of speech.

The following co-ordinating relators (roots) relate any two or more constructions of equal rank, as nouns to nouns, phrases to phrases, etc.:

kan...kan... and (used before each of several elements in a row)

ámí also, too (occurs following the last item in a row)

mà, kó, tée then...

kàd... and then...

amáa but (Ful) (used between two contrasted constructions)

kóó...kóó... or (Ful) (used before each of 2 or more constructions; or contrasts a construction with the preceding context)

The following relator (a root) is used only in numeral phrases, 4.12):

zùù and

Several subordinating relators are roots:

bà that (in indirect quotations and indirect orders)

dìgà, dìkà from, since (Ful) (in temporal Sb clauses)

kóó...sì' even if (in concessive Sb clauses)

kố í...wogo, móo, baà as (in comparison Sb clauses)

moo in order to, because (in result and cause Sb clauses)

tò, tòò, tòw if (Ful) (in conditional Sb clauses)

All other relators will be discussed as subordinating phrases in 4.13.

3.15 MISCELLANEOUS PARTICLES

The following Dii miscellaneous particles (roots) are difficult to classify under one of the preceding titles.

The hypothetical or contrary-to-fact particle \underline{ka} occurs in both hypothetical clauses (7.1.4) and subordinate hypothetical clauses (7.2.5), but is untranslatable in English.

The interrogative morpheme /a/ ocurs in all questions following the clause marker position. In this chapter the exact forms it may have cannot be discussed in detail, since the clause markers must be explained first. A fuller explanation is therefore found in 7.4.

An exclamative morpheme $\underline{\acute{e}e}$ is described more fully in section 5.1.1. Its exact relation to the clause marker is as yet undetermined, but at present they are being treated together.

The exclamative morpheme $\underline{\dot{a}}$ falls into the same ambiguity of relationship to the clause marker as the exclamative morpheme. See also 5.1.1.

A morpheme \underline{a} is used paragraph-initially in tales to show a change of speaker in a conversation; it appears before the new speaker's name or title, which then is followed by the direct quote without the introducer verb.

Several morphemes are clause-final emphatic particles: <u>bàa</u>, <u>bòy</u>, <u>bò</u>, <u>pì</u>, <u>pù</u>, <u>síló</u>, <u>sínná</u>, <u>súmmà</u>.

<u>Láá</u> occurs at the end of subordinate clauses in interrogative sentences; its meaning is unknown (see the dictionary for an example).

The following are used to help signal the end of subordinate clauses in affirmative sentences: <u>na</u>, <u>naa</u>, <u>niì</u>.

Two forms mean 'see then!...': hò sí..., hò síi...

Three emphatic particles $\underline{11}$, $\underline{16}$, and $\underline{166}$ occur at the end of certain sentences (see the dictionary for an example).

An interrogative particle \underline{yey} occurs at the end of some sentences, and a particle \underline{yoo} has an appelative function, used to draw the attention of someone being called. Its vowel may be considerably lengthened if the person called is at a distance and doesn't hear immediately.

CHAPTER 4

PHRASES

4.0 INTRODUCTION

A Dii phrase is a grammatical construction which is potentially longer than a word but shorter than a clause. A phrase usually fills a position (slot) on the clause level and is typically composed of words and roots. A phrase may however contain another phrase (see 4.2.1, for example) or a clause (especially a relative clause or a verbal noun clause). While a phrase <u>may</u> consist of only one word, it must potentially contain more than one element.

Dii phrases are of two types: 1) <u>single-centered</u>, with a head or key position (slot) potentially modified or qualified by at least one other element (root, word, phrase, or clause); 2) <u>double-centered</u>, with two or more head positions usually joined by a relator (conjunction); or 3) <u>relator-axis</u>, where the key position of the phrase (the axis) is related to the clause by means of a relator (preposition or postposition).

Single-centered phrases may be illustrated by a 'Noun Phrase 1':

(intro1) dəg gbòò tóó (3-134) clay-pot large a-certain (a certain large clay pot)

A coordinate noun phrase (NP_{co}) is an example of a double-centered phrase:

(intro2) kpàà wòò kan kəd wòò (4-9C) bow his and quiver his (his bow and quiver)

Relator-axis phrases are typified by the following location phrase (LoP_{telo}) :

(intro3) dəg tíý (3-136) clay-pot in (in the clay pot)

It will be seen that many phrase formulas below are incomplete and must still be expanded on the basis of further data.

In the formulas given to show the structure of phrases, either a diagonal bar '/' or a long horizontal bar — may mean 'or'.

The symbols for words and roots are in <u>small</u> case letters only (n, v, num), but phrases and larger constructions are always represented by symbols using <u>capital</u> letters (NP, VP, NumP).

4.1 PROPER NAME PHRASES (PNP)

The PNP is a single-centered phrase with a head position filled by a proper name (first and/or last names) optionally followed by the plural morpheme (of respect) as modifier. Sometimes a modern title may be prefixed to the proper name, as àlázì in (pnp2).

The PNP fills the head slot of a coordinate noun phrase (4.2.10), or the vocative position in sentences (8.7).

Tagmemic formula:

 $PNP = +H:pn \pm Mod:pl$

Read as explained above.

An example:

(pnp1)	Kadia Matío vu (3-86)	Kadia Matthew pl
(pnp2)	Alázì Bòbbò vu (4-106)	Alhadji Bobbo pl

4.2 NOUN PHRASES (NP)

Noun phrases differ from all other phrases in the following ways: 1) their head position typically contains a noun or a nominalized verb construction (verbal noun clause);

2) the head element is modified potentially by a large number of modifiers: qualifiers, possessives, relative clauses, numerals, topicalizers, locatives, demonstratives, plural marker, limiters, etc.;3) the positions where noun phrases may occur are generalizable as follows:

a) in clauses: subject, indirect object, O_1 and O_2 direct object, and complement 3;

b) in phrases: axis, or head (in NP_{co}); and

c) in sentences, all noun phrases except NP_{ya} occur in the vocative position.

Most nouns in spoken Dii are accompanied by a very small number of modifiers, despite the large number of potential modifiers. Most noun phrases contain only one modifier; three seems to be the most that occur with ease. Rarely are four or more seen.

Noun phrases will be discussed in the following order:

- 4.2.1 NP₁
- 4.2.2 NP_f
- 4.2.3 NP_{va}
- 4.2.4 unpossessed (NP₂)
- 4.2.5 possessed (NP₃)
- 4.2.6 genitive (NP_{gen})
- 4.2.7 animate genitive (NP_{genan})
- 4.2.8 kinship (NP_{kin})
- 4.2.9 absolute kinship (NP_{kinab})
- 4.2.10 coordinate (NP_{co})

4.2.1 <u>Noun phrases 1 (NP₁)</u>. Noun phrase 1 is a single-centered phrase and has the following characteristics:

1) Three types of noun occur in the head position: n_{1a} , n_2 , or n_{cp} , as well as the verbal noun clause, the fP_{mod} , the interrogative nonpersonal proposed and the indefinite nonpersonal proposed.

pronoun, and the indefinite nonpersonal pronoun.

2) The list of potential modifiers is quite long. All are optional:

qual₁, qual₂ qualifying adjectives 1 and 2

QualP qualify	ing adjective phrase
---------------	----------------------

- indef indefinite adjective
- num/NumP numeral or numeral phrase
- poss possessive
- Sb Rel subordinate relative clause

dem	demonstrative
rec	recall adjective
VNP	verbal noun phrase
VN Cl	verbal noun clause
pl	plural marker
lim	limiter
LoP _{lí}	locative phrase of type <u>lí</u>
LoP _{telo}	locative phrase 'telo'
top	topicalizer
adjQ	interrogative adjective
<u>àgà</u>	'self/even'

The relative <u>order of occurrence</u> of these modifiers in NP₁ poses something of a problem since they are so numerous, and since only three or less modifiers are normal in any given NP. The head noun (or nonpersonal pronoun) is initial, followed by any modifying morpheme. The more common modifiers are listed below, the relative order of each is USUALLY as follows:

(np1) noun qual adjQ poss indef num Sb Rel rec dem pl lim

The above list is just a framework, and is much simplified.

Non-emphatic or non-limiting numerals occur before the Sb Rel, but a numeral may also serve as a limiter following the plural marker.

The recall morphemes normally find their place before or following the plural marker, but if their scope includes a limiter, they then follow the limiter.

The recall morpheme also functions as a type of demonstrative, referring often to the item it immediately follows, in addition to referring back to the head of the phrase. (The recall morpheme may also serve as the demonstrative used in closing the Sb Rel, in which case it functions inside the Sb Rel and not inside the NP being described here.)

The expanded list in (np2) shows the slots where morphemes have been found, relative to each other.

a) Four elements here are shown in all caps to indicate that the title is a position where varying items occur, items which are then listed in the column just below the title:

HEAD = head noun/non-personal pronoun

QUAL = qualifying adjective

DEF = definiteness

LIM = limiting morpheme or construction.

b) More difficult to place are locative expressions, which are attested both before and after the normal numeral position. I temporarily place them in the same slot as Sb Rel, awaiting further co-occurrence data, although I've seen some cases where LoP occurs before the Sb Rel. c) The '____' below indicates 'either/or'.

d) The scope of application of a given modifier, especially numbers, demonstratives, recall morphemes, and limiters, is not displayable in the chart (np2).

(np2)	HEAD	QUAL adjQ	poss DEF	num Sb Rel	rec dem pl	recLIM rec
-------	------	-----------	----------	------------	------------	------------

n _{1a}	qual	1	indef	LoPlí	lim
n_2	qual ₂		ÍP _{mod}	àgà?	num
n _{cp}	QualP		top		QualP
NP _{kin}			àgà?		VNP
VN Cl					<u>àgà</u> ?
nnr.					

 $npr_{indef/Q/rel}$

The full tagmemic formula is:

 $NP_{1} = + \underbrace{H:n_{1a/2/cp/}NP_{kin}}_{VN \ Cl} \pm Mod_{1}:qual_{1/2}$

 \pm Quant:adjQ \pm Poss:poss \pm Mod₂:indef/ $\hat{f}P_{mod}$ /top

±Quant:num/NumP ±Mod₃:Sb Rel/LoP_{lf}

±Dem:rec ±Dem:dem ±Mod₄:pl ±Dem:rec

±Lim:lim/num/VNP/QualP ±Dem:rec

Read as explained above, with the slot titles added: Head, Modifier, Quantifier, Possessive, Demonstrative, Limiter.

Examples of lexical items in several categories:

(np3) head noun/pronoun:

 $\frac{\text{waa} \text{`child'}(n_{1a})}{\underline{hoo} \text{`sick person'}(n_2)}$ $\frac{\text{doo búg}}{\underline{doo búg} \text{`thigh'}(n_{cp})}$ $\frac{\text{dàn sán}}{\underline{tom}} \text{`my younger brother'} (NP_{kin})$ $\frac{\text{tóm} k \hat{a} \hat{a} n \hat{e}}{\underline{tom}} \text{`path sweeping (weeping/cleaning of paths)'} (VN Cl)$ $\frac{\text{tóó...tóó...}}{\underline{tom}} \text{`the one...the other...'} (npr_{indef}), \underline{i} \text{ `the one who'} (npr_{rel})$ $\underline{nóo} \text{ `who'} (npr_Q)$

- (np4) qual₁: <u>'màn</u> 'new', <u>dìì</u> 'dark/black/purple', <u>waa</u> 'small'
- (np5) qual₂: <u>zígid</u> 'sweet', <u>píím</u> 'hot', <u>góa</u> 'broken'
- (np6) adjQ: $\underline{n\epsilon n(n \acute{a})}$ 'how many', $\underline{en(\acute{a})}$ 'which/what'
- (np7) indef: tóó 'a-certain/a-certain-one/a/other/another'
- (np8) IP_{mod} : $\underline{i \ too}$ 'the other one', $\underline{i \ mii}$ 'the-one my (mine)', $\underline{i \ viili}$ 'the-one you-at (the one at your house)', $\underline{i \ ye}$ 'the-one this (this one)'
- (np9) top: máa 'as for.../that we know about'
- (np10) rec: <u>sím</u> 'just-mentioned', <u>pèè</u> 'that-we-know-about'
- (np11) dem: <u>vè</u> 'this (near)', <u>vè</u> 'that (over there)', <u>zù</u> 'that (far off)'
- (np12) lim: <u>'wààpád</u> 'all', <u>waaná'</u> 'some', <u>'wàà dóń pád</u> 'completely all'
- (np13) other limiting constructions: <u>buulí nà'à</u> 'very much' (VNP), <u>gbộộ bà'à</u> 'very big' (QualP)

Examples of the co-occurrence of constituents of NP_1 follow. When a position is filled by more than one Dii word, hyphens ------ are used to show how far the position extends.

- (np14) n₁ qual₂ indef hen zígid tóó (3-108) thing sweet a-certain (something sweet)
- (np15) n₁ qual₁ poss rec
 wàà sèè wòò pèè (4-5)
 nest old his rec (that old nest of his already mentioned)
- (np16) n₁ dem pl lim hẹn yệ vụ 'wààpád (3-115) thing dem pl all (all these things)
- (np17) n_1 indef pl lim----nán tóó vu buulí nà'à (3-108) person other pl be-many very (lots of other people)
- (np18) n₂ Sb Rel-----moo ká bán kíí pa yè... (3-54I) word past yesterday sb-you announce dem

(the word that you announced yesterday...)

- (np19) n₁ top dem waa máa yè (3-97) child top dem (this child that we know about)
- (np20) n₁ rec dem pl wakę́ę súu yę̀ vu (3-91&92) woman rec dem pl (those women we know about)
- (np21) n_1 poss top Sb Rel-----waa víí máa kíí hạạ vu (3-59) child your top sb-you give-birth them (the children that you've given birth to)
- (np22) n₁ poss Sb Rel-----waa míí kám hộ vu ndaddú pèè (4-157) child my sb-you see pl four rec
 (my four children that you see [and know]) or:
 n₁ poss num Sb Rel-----waa míí ndaddú kám hộ vu pèè child my four sb-you see pl rec
- (np23) n₁ poss num LoP_{lf}----- rec waa míí ndaddú Ngáwndíí- lí pèè (4-157) child my four Ngaoundéré-in rec (my four [known] children in Ngaoundéré)
- (np24) n₁ pl lim rec nán vʉ 'wààpád pèè (4-157) person pl all rec (all those [known] people)
- (np25) n_1 poss fP_{mod} ------ num LoP_{1i} ------ rec waa míí i tóó idú Ngáwndíí- lí pèè (4-157) child my the-one other two Ngaoundéré-in rec (my other two [known] children in Ngaoundéré)
- (np26) n₁ İP_{mod}------ LoP_{lí}-- rec
 hààb í tóó nag- á pèè (4-9D)
 wild-yam the-one other hand-in rec
 (the other wild yam that we talked about in [his] hand)
- (np27) n_1 $\hat{H}P_{mod}$ ------ dem nag \hat{t} tóó yè (3-122) hand the-one other dem (this other hand)

(np28) n_1 $ext{i}P_{mod}$ ------ rec LoP_{telo}-----báa $ext{i}$ tóó pèè tí $ext{j}$ wòò-l $ext{i}$ (3-135) adulterer the-one other rec inside it- in (the other adulterer inside of it [a huge clay pot])

(np30) npr_{rel} poss dem i víí yè (3-144) the-one-who you dem (as for you...)

The uses of $\underline{\hat{a}g}\underline{\hat{a}}$ are almost impossible to integrate into the fuller NP₁ structure because $\underline{\hat{a}g}\underline{\hat{a}}$ as an emphatic is used in several different ways. So far it seems there are several positions for $\underline{\hat{a}g}\underline{\hat{a}}$ among the other modifiers, some seemingly adverbial, others adjectival. Wherever it will eventually appear in the final analysis, I've listed it above in three positions, each with a question mark!

The following are examples of $\underline{\hat{a}g\hat{a}}$ when it seems to function in the DEF position, having reflexive meaning:

(np31)	n _{cp}			n _{cp}			
	í	kéé	àgà (3-135)	or:	í	wşş	àgà (3-135)
	the-one	wife	self (husband))	the-one	husband	l self (wife)

(np32) n_{cp}----bàa bo' àgà man potato self (the potato man himself/even)

But <u>àgà</u> can often be found following a numeral in NP₁, in which case it means 'even'. The second example here is even stronger than the first, and because of <u>kóó</u>, takes on a concessive nuance.

(np33)	\mathbf{n}_1	indef	num		
	nán	tóó	dágá	àgà (Psa.	37:36)
	persor	n other	one	even (not	one person)

(np34) n₁ indef num nán tóó kóó dágá àgà (Psa. 105:37) person other even one even (not even one person)

Even the limiter may be modified by <u>àgà</u>:

(np35) n₁ qual indef lim
 hęn waa tóó waaná' àgà (Psa 103:16)
 thing small other little-bit even (not even a wee little thing)

Most interesting is a use of <u>àgà</u> where it <u>precedes</u> the nominal head position. Here is an example in clausal subject position:

(np36) n_{cp}------ qual poss
 àgà pag nàà dáń vòò vúńno... (Psa 37:15) self knife riches own their they-FUT...
 (their very own sword will (enter their heart))

4.2.2 <u>Í noun phrases (NP_í)</u>. Initial analyses showed this noun phrase to be almost like NP₁ except that the í noun phrase had the IP_{mod} follow the noun head without the possibility of an intervening modifier, for example:

(np37) n_1 fP_{mod} ------ dem nag \hat{i} tóó yè (3-122) hand the-one other dem (this other hand)

Counter examples have since been found where other modifiers do occur between fP_{mod} and the head, so this noun phrase has therefore been integrated into NP₁ without further problem.

4.2.3 <u>Ya noun phrases (NP_{ya})</u>. This type of single-centered noun phrase is distinguished by:

1) <u>ya</u> 'place' which fills the head position, and

2) its occurrence where other noun phrases occur in clauses and phrases (see 4.2), but not in the vocative position of sentences. It does, however, occur in the locative position in clauses.

3) All modifiers so far examined are identical to those of noun phrase 1, except that when possessed, <u>ya</u> seems to take only the 'kinship' possessive form; see (np40).

Tagmemic formula:

 $NP_{ya} = +H:\underline{ya} \pm optional elements as in NP_1$

Read: NP_{ya} consists of a head slot filled by <u>ya</u> with or without the optional elements found in NP_1 .

- (np38) ya indef ya tóó (3-138) place a-certain/another (someplace/ another place)
- (np39) ya Sb Rel----- ya mbìgì míí yè ka pε (3-139)
 place hammer my dem sb-it falls (where my hammer fell)
- (np40) ya poss num rel ya vòò idú ám (4-47E) place their two also (both of them)
- (np41) ya poss_{kin} ya- ga (3-54T) place-its (its place)

4.2.4 <u>Unpossessed noun phrases (NP₂)</u>. This single-centered noun phrase is characterized by:

1) its head position filled only by members of noun subclass 1b (3.4.1);

2) never being modified by a possessive;

3) its apparant restraint concerning the number of modifiers it may have-only the plural marker has been noted so far; and

4) its occurrence in vocative positions in sentences, as well as in the other positions occupied by noun phrases--see 4.2.

Tagmemic formula:

 $NP_2 = +H:n_{1b}$ -Poss:poss $\pm Mod:pl$

Read: Noun phrase 2 consists of a head slot filled by a noun 1b, which is never followed by a possessive slot but may be followed by the plural marker in the modifier slot.

An example:

(np42) n_{1b} pl nà'á vʉ (3-128) mother plural(-of-respect) (Mother)

4.2.5 <u>Possessed noun phrases (NP₃)</u>. This noun phrase is singlecentered and characterized by:

its head position filled only by members of noun subclass 1c (3.4.1);
 always containing a possessive (poss);

3) its apparent restraint concerning the number of modifiers it may have-only the plural marker has been noted so far; and 4) its occurrence in the vocative position in sentences, as well as in the other positions occupied by noun phrases (4.2).

Tagmemic formula:

 $NP_3 = +H:n_{1c} + Poss:poss \pm Mod:pl$

Read: Noun phrase 3 consists of a head slot filled by a noun 1c, an obligatory possessive slot filled by a possessive and an optional modifier slot filled by the plural marker.

An example:

(np43) n_{1c} poss pl bà' víí vʉ (4-9H) father your plural(-of-respect) (your father)

4.2.6 <u>Genitive noun phrases (NP_{gen})</u>. The Dii genitive noun phrase (often called 'associative' by linguists) expresses possession by a person (or an animal actor in tales). It has the following characteristics: 1) There are two head positions, one for the object or person possessed (possd), the other for the possessor (possr). This noun phrase is thus double-centered.

2) The possr head may either precede or follow the possd head, which gives the two formulas below.

3) The second head position is followed by the possr possessive which relates possessor and possessed. The possr must evidently be a person, but the possd head may be filled by any noun or by a verbal noun clause. 4) When the possr head precedes, it seems the 2nd (possd) head has the potential of being a full NP₁ with other modifiers, of which the indef, pl, and lim have been observed. See examples below.

Tagmemic formula when the possd head comes first:

$$NP_{gen} = + Hpossd: \frac{VN Cl}{n_{1a/2}/vn/\underline{\acute{t}}} (+ Hpossr:\underline{pn} + Poss:poss) \\ \frac{NP_1}{\underline{n_{1a/2}/vn/\underline{\acute{t}}}} \\ \frac{\underline{n_{1a/1b}}}{NP_{kin}/NP_{genan}}$$

Read: The genitive noun phrase consists of a possessed head filled by a n_{1a} or n_2 , a verbal noun or a verbal noun clause, which is followed by a possessor head filled by a proper name, a noun phrase 1, n_{1a} , n_{1b} , NP_{kin} , or NP_{genan} , which in turn is followed by possr possessive slot filled by a possessive. Tagmemic formula when the possr head comes first:

 $NP_{gen} = + H_{possr:\underline{pn}} + H_{possd:\underline{NP_{kin}/n_{1a/1b}}} + P_{oss:poss})$ $\underline{NP_{1/3}}_{\underline{n_{1a}}} NP_{kin}$

Read: the possr head is filled by a proper name, an NP 1 or 3, an n_{1a} , or an NP_{kin} and is followed by a possd head which is filled by an NP₁, an NP_{kin} or an n_{1a} or n_{1b} which is then followed by the possr possessive.

Examples when the possd head precedes the possr head:

(np44)	possd	possr	poss
	lig	gbanàà	vòò (4-9F)
	house	chief	their (pl-of-respect) (the chief's house)

- (np45) possd(VN Cl) possr poss hen sóné Mbùù wòò (4-9B) thing to-gnaw Hyena his (Hyena's thing to gnaw on (=that he's gnawing on))
- (np46) possd possr poss í kpəəgád wòò (4-40C) the-one turtle his (Turtle's)
- (np47) possd possr----- poss yéé wýý- m- òò (2-4) name husband-your-his (your husband's name)
- (np48) possd possr----- poss kíi dà- m tóó wòò (3-116) compound neighbor-your other his (your neighbor's compound)

This type of NP_{gen} can have two coordinated possessor heads, as in the following example, not diagrammed above in the tagmemic formula:

(np49) possd possr poss rel possr
zóó Baadì vòò kan Nààná (4-35I)
heart B. their and N. (Baadì's and Nààná's hearts)

Examples when the possr head precedes the possd head:

- (np50) possr possd poss waa idú wòò yéé wòò (2-52) child two his name his (the name of his second child)
- (np51) possr possd poss Bàabiig nà'á vòò (3-96) Bàabiig mother their(pl-of-respect) (Bàabiig's mother)
- (np52) possr possd + poss(NP_{kin}) pl waa yè pàà wəə vu (3-54S) child this uncle-his husband pl(-of-respect) (this child's uncles)
- (np53) possr possd poss pl lim waa òg wòò vʉ 'wààpád (3-54S) child in-law his pl all (all the child's in-laws)

4.2.7 <u>Animate genitive noun phrases (NP_{genan})</u>. This doublecentered noun phrase (also termed 'associative') is identified by: 1) Its two head positions, each filled by a noun referring to a person (or an animal actor in tales).

2) The possessor noun precedes, the possessed follows,

3) generally <u>without</u> a possessive to indicate the relationship between them.

4) An as yet undetermined number of modifiers may follow the heads: numeral, recall, plural marker, limiter.

Tagmemic formula:

 $NP_{genan} = +Hpossr:n_{1a}/pn/NP_1 + Hpossd:n_{1a}/NP_{kinab}/NP_1$

±<u>Mod:pl</u> ±Lim:lim <u>Dem:rec</u> Quant:num

Read: the animate genitive noun phrase consists of a possr head filled by a noun 1a, a proper name, or an NP₁, followed by a possd head filled by a noun 1a, an absolute kinship noun phrase, or an NP₁ which may be followed by one of the following tagmemes: a modifier slot filled by the plural marker, which may then be followed by a limiter slot filled by a limiter, a demonstrative slot filled by a recall morpheme, or a quantifier slot filled by a numeral.

- (np54) possr possd pl Bàbàam waa vu (4-9H) Rabbit child pl (Rabbit's children)
- (np55) possr possd num Bàbàam waa dágá (4-9H) Rabbit child one (one of Rabbit's children)
- (np56) possr possd Bàabiig nà'á (3-96) Bàabiig mother (Bàabiig's mother)
- (np57) possr possd rec Kəə waa pèè (4-47C)Lion child rec (Lion's child already referred to)
- (np58) possr possd pl lim gban kéé vu 'wààpád (4-9L) chief wife pl all (all the chief's wives)

4.2.8 Kinship noun phrases (NP_{kin}). The kinship noun phrase is a single-centered phrase and has the following characteristics: 1) It contains a head position filled by the possessed form of a kinship noun (3.4.5).

2) A kinship possessive (3.7.5) must occur, whose position is between the two elements of the n_{kin} . Note that in some cases, the possessive forces a tone change on the first element of the noun, instead of occurring as a separate morpheme. The plural marker or a demonstrative may terminate the phrase.

3) The possessor may be more fully specified by including a noun referring to this person before the initial head of this NP (see second example below).

A few kinship nouns that aren't compound nouns (wəə, nà'á, kéé) also may be described in this format, in which case the possessive follows the head and there is no second head; see the last two examples below.

 $NP_{kin} = + \frac{H:\underline{n_{kin}possd}}{W_{QQ}/na'a/k\xi\xi} + Poss:poss_{kin} + H \pm \frac{Dem:dem}{M_{QQ}}$

Read: The kinship noun phrase consists of an obligatory head slot filled by a possessed kinship noun (or by one of three single-headed exceptions), which is followed by a

possessive slot filled by a kinship possessive. The detail slot of the kinship noun follows the possessive as second head. In addition, one of the following may then occur: a demonstrative or a plural marker.

Examples:

(np59)	possd+possr possd pl à- n faa vu (3-122) mother-my in-law plural(-of-respect) (my Mother-in-law)
(np60)	possr possd+possr possd Bàbàam àà faa (3-118) Rabbit mother-his in-law (Rabbit's Mother-in-law)
(np61)	possr possd+possr wakęś waa pèè wą̀ą̀ (4-47L) woman young rec husband-her (the young woman's husband)
(np62)	possd + possr possdpldà-ndòŋvʉ (3-142)neighbor-my circumcision pl(-of-respect)(my circumcision friend)
(np63)	possd + possr wáá- m husband-your (your husband)
(np64)	possd + possr nà'a- m mother-your (your mother with insulting meaning see the dictionary)
noun pl 1) The kinship	4.2.9 <u>Absolute kinship noun phrases (NP_{kinab})</u> . Absolute kinship hrases are characterized as follows: head position is filled by the absolute (unpossessed) form of the noun (3.4.5). se single-centered phrases never contain therefore the kinship

possessive (3.7.5) that NP_{kin} has. They may contain the plural marker, however.

Tagmemic formula:

 $NP_{kinab} = +H:n_{kinab} \pm Mod:pl$

Read: The absolute kinship noun phrase consists of a head slot filled by the absolute form of the kinship noun, whose

two elements are never separated since no possessive slot occurs. The head slot may be followed by a modifier slot filled by the plural marker.

An example:

(np65) dag sáń vu brother young pl (younger brothers)

4.2.10 <u>Coordinate noun phrases (NP_{co})</u>. Coordinate noun phrases are double- (or multiple-) centered phrases which have the following characteristics:

1) two or three head positions,

2) joined by relators, the most frequently used of which is \underline{kan} 'and', which occurs between each head position of the phrase.

If the relator <u>wààtò</u> 'or (Ful)' or <u>tóó tée</u> 'or' occurs, only two head positions have so far been observed. The relator $\frac{\dot{a}\dot{m}}{\dot{m}}$ 'also' may close the phrase, in which case only two heads have been observed.

The elements that have been found to occur in the respective positions of this phrase are as follows:

(np66) first head relator second head third head relator NP_1 NP_1 kan NP_1 kan NP₂ wààtò NP₂ ÍP_{mod} tóó tée **PNP** NP_{genan} PNP **NP**_{kin}

Tagmemic formula:

$$NP_{co} = +H:NP_{1}/NP_{2}/\hat{f}P_{mod}/NP_{genan}/PNP/NP_{kin}$$

$$+(+Rel:\underline{kan} +H:NP_{1/2}/PNP) \pm (+Rel:\underline{kan} +H:NP_{1})$$

$$\underline{Rel:\hat{am}}$$

$$(+Rel:\underline{waato}/\underline{toot} \ tee \ +H:NP_{1/2})$$

Read as explained above.

Examples:

 $\begin{array}{cccc} (np67) & n_1 & rel & n_1 \\ & d \hat{a} g & kan t on (3-120) \\ & calabash and hoe \end{array}$

- (np68) n₁ rel NP₁------ rel NP₁-----néý kan wu' zęę kan wu' 'wóg (3-126) bone and meat fresh and meat dried
- (np69) NP₁------ rel NP₁-----siidè tèmere gúndem kan dálà wànbó' (3-112) money hundred seven and 5-frs ten (750 francs)
- (np70) Np_{kin}----- rel NP₁----- rel dà- n gbòò vu kan súúprèfée vu ám (2-29) neighbor-my friend pl and Subprefect pl also (my good friends and the Subprefect also)
- (np71) PNP----- rel pn Fáńtà vu kan Múúsà (4-35Y) Fanta pl and Moussa (Fanta and Moussa)
- (np72) n₁ rel---- n₁ sààm tóó tée siidè (3-54S) clothes or money

4.3 VERBAL NOUN PHRASES (VNP)

Verbal noun phrases are single-centered phrases and have the following characteristics:

They contain a head position filled by an intransitive verbal noun.
 The adverb <u>nà'à</u> 'very' is the usual modifier.

3) They may modify the verb in a manner slot, or they may modify a noun in a noun phrase.

Tagmemic formula:

 $VNP = +H:vn_i + Mod:\underline{na'a}$

Read as explained above.

Examples:

(vnp1) (dòò) buulí nà'à (3-141) wine be-much very (a lot of wine)

(vnp2) (Ø sé' [váń- ŋòò]) duulí nà'à (3-143) he roofs granary-his be-good very (he roofs [his granary] very well)

4.4 INDEFINITE RELATIVE PHRASES (ÍP)

The indefinite relative pronoun $(npr_{rel}) \underline{i}$ 'the one who' or 'the one' plays a distinctive rôle in this modifier \underline{i} phrase $(\underline{i}P_{mod})$. The morpheme \underline{i} has both relative and non-relative meanings which are difficult to separate.

This single-centered phrase has the following features: 1) its head position is filled by the indefinite relative pronoun \underline{i} ; 2) it usually has only one modifier: qual, poss, LoP_{lí}, indef, Sb Rel, TeP_{ká}, or dem, but may also be modified by the recall adjective; 3) it occurs in noun phrases in the 'definiteness' slot and also in the axis of temporal phrases (TeP).

Tagmemic formula:

±Mod:rec

Read as explained above.

- (íp1) í tóó (3-133) the-one other (the other one)
- (fp2) f míí (4-47M) the-one my (mine, my)
- (fp3) f víí- lí (3-87) the-one you-at (the one at your house)
- (íp4) í yè (3-135) the-one dem (this one)
- (íp5) í bà gəy pε zùù mam tíň pèè (4-9D)
 the-one sb-it broken fall go-down water in rec
 (the one that broke and fell into the water)
- (íp6) í ká tíý pèè (Luke 11:26) the-one time-past before rec (the one before/the previous)

4.5 PRONOUN PHRASES (PrP)

Pronouns seem to be infrequently modified in Dii, but evidence of a pronoun phrase (PrP) of some type is found. The following examples indicate something of the range of possibilities. Pronoun phrases occur in object and complement positions in clauses.

- (prp1) pr lim ví 'wààpád (3-89) you all
- (prp2) (v) pr Sb Rel------(h\overline)m k\u00e1\u00e5 im v\u00e7\u00e3 k\u00e3 im y\u00e3gg (4-48D) (see)you sb-you are-thin like that (...you who are so thin)
- (prp3) pr num mí dágá (4-48D) me one (only me)
- (prp4) pr num dem mí dágá yè (4-40F) me one here (only me here)

4.6 QUALIFIER PHRASES (QualP)

The adverb <u>bà'à</u> 'very' may modify a qualifying adjective. The QualP modifies the head noun in NP_1 .

(qualp1) gbộộ bà'à (4-5) big very (very big)

Tagmemic formula:

 $QualP = +H:qual + Mod: \underline{ba'a}$

Read as explained above.

4.7 VERB PHRASES (VP)

Verb phrases will be discussed under the following headings:

- 4.7.1 general similarities
- 4.7.2 verb phrases accepting both Pre-v and Post-v auxiliary positions (i, tr, rcp, di, dat, stv, int, say_{di}, perc, vn)
- 4.7.3 verb phrases accepting only Pre-v auxiliary positions (desc, lo, desid, inch, say_{tr})
- 4.7.4 durative aspect

4.7.1 <u>General similarities</u>. The vast similarities between the various verb phrases permit a discussion of them in general terms first. However, it should be emphasized that despite their similarities, each VP is distinct, having its own distinctive main verb, and its own distribution in a different predicate.

Verb phrases are rather easily associated with the clause types where they occur, since both the phrase and the clause usually bear the same name. Intransitive verb phrases occur in the predicate position of intransitive clauses, transitive verb phrases in transitive clauses, etc. (But note that VP_{say} tr occurs in the transitive introducer clause, and VP_{say} di occurs in the ditransitive introducer clause.)

Verb phrases are single-centered phrases, and the head position is the only position that <u>must</u> be filled in any verb phrase.

Auxiliary verbs often accompany the main verb, lending motion, direction, or position to it, or changing its aspect. Some auxiliary verbs occur only preceding the main verb, others only following it, but many can occur either before or after the main verb. These positions may be called Pre-v and Post-v positions. When more than one auxiliary verb occurs, position 1 is closest to the main verb, position 2 furthest away from it:

(vp1) Pre-v₂ Pre-v₁ main verb Post-v₁ Post-v₂

In general it may be said that auxiliary verbs of motion or direction may either precede or follow the main verb, while aspectual auxiliary verbs are limited to either the Pre-v or the Post-v position, each auxiliary having its own specification. A list of these auxiliary verbs with their positions and meanings is found in 3.8.17.

One limitation should be noted. If an aspectual auxiliary verb occurs in Pre-v position, it's not often that auxiliary verbs of movement occur in Pre-v position with it, although one may follow the main verb in such a case. An example of the more frequent construction follows; note also that the pronoun object of the verb stays 'with the verb' and the Post-v position follows the pronoun (here in parentheses):

(vp2) Pre-v v_{di} O₃ Post-v dùù pạn (bi) ya (4-9K) follow carry-to (them) come ((He) brought them [food] again.)

An example of the more rare construction, with both modal and movement auxiliaries in Pre-v positions is the following:

(vp3) Pre-v Pre-v v_i dùù là yaa (4-9M) follow go come ((He) came again.)

It's also possible to have nominal direct and indirect objects come between the verb and the Post-v auxiliary, especially when this latter is of the modal type. An example follows, with others among the examples below.

(vp4)	v _{tr}	O_1	Post-v	Post-v
	gàỳ	(sààm	vʉ) dàà	làan (4-35B)
	carry	v (clothes	s pl) pass	go-away ((He) carried away the clothes.)

4.7.2 <u>Verb phrases accepting both Pre-v and Post-v auxiliary</u> positions (i, tr, rcp, di, dat, stv, int, say_{di}, perc, vn). The following verb phrases may contain Pre-v and/or Post-v positions: intransitive, transitive, reciprocal, ditransitive, dative, stative/passive, intentional, ditransitive of 'saying', perception, and verbal noun.

Some examples:

(vp5) Pre-v Pre-v v_i dàà là vúd (4-48H) pass go come-out ((He) goes out)

(vp7) Pre-v v_i Post-v dàà đấá dòg (4-9H) pass climb-up go-up ((He) climbed up.)

- (vp8) v_{tr} O₁ Post-v lá (nan) 'wàa (4-35D) eat (couscous) finish ((He) finished eating the couscous.)
- (vp10) v_{tr} O₁ Post-v ba' (Diinà) zùù (3-38) send (Diinà) go-down ((He) sent Diinà down...)
- (vp11) v_i Post-v Post-v dấá dòg- gà (4-5) climb-up go-up- go ((He) climbed up.)
- (vp12) Pre-v O₁ vn dàà (hẹn) sòòlí (3-139) pass (thing) to-look-for (to look for a thing)
- (vp13) vn Post-v ba"í zùù (3-95) to-send go-down (to send down)

The <u>composite</u> tagmemic formula for these verb phrases is as follows:

 $VP = \pm Pre-v_2:aux \pm Pre-v_1:aux$

+ $H:v_{i/tr/rcp/di/dat/stv/int/say}di/perc/vn$

 \pm Post-v₁:aux \pm Post-v₂:aux

Read as above, with the head slot of VP_i containing v_i , etc.

4.7.3 <u>Verb phrases accepting only Pre-v auxiliary positions (desc,</u> <u>lo, desid, inch, say_{tr}</u>). The following verb phrases may contain only Pre-v positions: descriptive, locative, desiderative, inchoative, and transitive of 'saying'. Some examples will probably be found permitting some of these verb phrases to be shifted to section 4.7.2.

Only one Pre-v position has been found in these verb phrases.

Some examples:

(vp14) Pre-v v_{lo} ya di (3-141) come is-there ((They) are there.)

(vp15) Pre-v v_{perc} là nùỳ (4-9D) go find ((He) finds.)

The <u>composite</u> tagmemic formula here is:

 $VP = \pm Pre-v:aux + H:v_{desc/lo/desid/inch/say}tr$

Read as explained above.

4.7.4 <u>Durative aspect</u>. One manner of expressing the duration of a verb's motion is with the auxiliary <u>bàà</u> (3.8.17). Another is to repeat the main verb two or more times. In the negative, the clause marker is also repeated.

- (vp16) 'yém 'yém (3-120) walk walk walk ((He) walks a long time.)
- (vp17) lá lá (4-9H) eat eat ((He) eats a long time.)
- (vp18) zùỳ zùỳ (1B42) pound pound ((She) pounded a long time.)
- (vp19) hòn né hòn né (3-4) see-NEG F-I-NEG see-NEG F-I-NEG ((He) doesn't see (it) for a long time.)

4.8 TEMPORAL PHRASES (TeP)

Temporal phrases have two characteristics in common: 1) their head (or axis) positions are filled by temporals, and 2) they occur in temporal positions in clauses; in addition, some types also occur in certain other positions, as specified below.

The following types of phrases will be discussed:

- 4.8.1 /lí/ temporal phrases (TeP_{lí})
- 4.8.2 temporal-locative root phrases (TeP_{telo})
- 4.8.3 temporal máa phrases (TePmáa)
- 4.8.4 temporal <u>ká</u> phrases (TeP_{ká})
- 4.8.5 general temporal phrases (TeP_{gen})
- 4.8.6 coordinate temporal phrases (TeP_{co})

4.8.1 <u>/lí/ temporal phrases (TeP_{lí})</u>. The /lí/ phrase has a central or axis position and a relator position (postposition). Its distinctive characteristics are as follows:

1) It contains only one temporal relator: the suffix /li/ 'in/on/at', which is obligatory. Note this suffix is also used in locative constructions, not just temporal. No 'common telo root' (3.9.1) is used as a relator in this construction.

2) Its axis contains either a temporal root (3.9.2) as minimal expression, or a general temporal phrase (TeP_{gen}) for the expanded construction.

3) In factative clauses it occurs in the Te₂ position, but in subordinate TeLoC clauses it occurs in Te₁ position. It may also modify a noun in a noun phrase, or occur in the temporal <u>máa</u> phrase.

Tagmemic formula:

 $TeP_{lf} = +Ax:TeP_{gen} + Rel:/lf/$

Read as explained above.

- (tep1) te rel zágą-lý (4-9H) day- in (during the day...)
- (tep2) TeP_{gen}------ rel yąg mèn- né (4-9H) mouth afternoon-in (in the afternoon)

(tep3) TeP_{gen}---- rel zậgą àlàd- df (2-38) day Sunday-in (on Sunday)

(tep4) TeP_{li}----- rel sèỳ tóó- lí (4-9D) time other-in (at one time...)

(tep5) TeP_{gen}----- rel sèỳ yàgà sálf- lí (4-9D) time hill building-up- in (at the time of building up hills/rows [in the field]...)

4.8.2 <u>Temporal-locative root phrases (TeP_{telo})</u>. The following are characteristics of this relator-axis phrase type:

1) It contains one 'common telo root' (3.9.1) as relator (either as preposition or as postposition), and <u>may</u> also contain the temporal-locative relator suffix /lf/.

2) Its axis position contains a noun phrase 1, a temporal root or phrase (TeP_{gen}), or an emphatic $\underline{m}i$ pronoun.

3) It occurs as axis in the temporal <u>máa</u> phrase, or in the Te_2 position in clauses.

Tagmemic formula:

$$TeP_{telo} = + Rel:telo + Ax:NP_1/TeP_{gen}/\underline{mi}_{emph} \pm Rel:/li/$$

Read as explained above.

(tep6)	telo TeP _{gen}		
	hậá zága 6>> (4-48J)		
	until day today (right up to this day)		

- (tep7) telo n₁ rel dìgà náásậý-ŋé (3-117) since youth- in (since my youth...)
- (tep8) telo NP₁---(with Sb Rel)-----hậá sèỳ à màà- wọ tée,... (4-40H) until time it is-enough-for-him dem,... (until it's enough for him)
- (tep9) telo TeP_{gen}-----háá ve' wànbó' zùù idú (3-54S) until year ten and two (for 12 years...)

(tep10) telo TeP_{gen}----túm (3-117) -- all 3 words borrowd from Fulfulde! háá túm until always always (forever) (tep11) telo TeP_{gen}--- rel dìgà sèỳ wòò-lí (4-40E) since time it- at (since that time...) (tep12) telo mí_{emph} pig wòò (4-47H) or contracted to: piggòò (4-2) after it (after that...) (tep13) telo <u>míemph</u> rel pig wòò- lí (3-135) after itin (after that...) (tep14) te telo rel zágą sàam- é (4-9H) day middle-in (at noon...)

4.8.3 <u>Temporal máa phrases (TeP_{máa})</u>. Temporal <u>máa</u> phrases are relator-axis in type and their distinctive characteristics are as follows: 1) an axis containing a temporal root (as minimal form) or in expanded form, one of the following phrases: TeP_{lí}, TeP_{gen}, or TeP_{telo}, 2) a relator (postposition) <u>máa</u> (or <u>má naa</u> or <u>má niì</u>) 'time past', or <u>tée</u> 'time future'; this relator may also have focus or topicalizer functions. 3) This phrase type occurs only in Te₁ position in clauses.

An outstanding question is in what way the form $\underline{máa}$ as used here is related to the topicalizer $\underline{máa}$, especially since the Te₁ position occurs clause-initially. Boyd (pers. comm.) thinks all of these uses of $\underline{máa}$ are as topicalizers. If so, then is <u>tée</u> also a topicalizer? Another question: is the sense of 'time' in these forms neutralized when or if these morphemes are used as topicalizers?

Tagmemic formula:

 $TeP_{m\acute{a}a} = +Ax:TeP_{l\acute{t}/telo/gen} + Rel:\underline{m\acute{a}a}/\underline{t\acute{e}e}$

Read as explained above.

(tep15) te rel máa (4-48C) yógó tomorrow time-past (the day after...) (tep16) te rel yógó tée (3-54I) tomorrow time-FUT (the next day.../tomorrow...) (tep17) TeP_{li}----- rel sèy tóó- lí máa (4-9D) time other-in time-past (once upon a time...) (tep18) TeP_{lf}----- rel yąg kà'ąm- é máa (4-47L) mouth morning-in time-past (in the morning...) (tep19) TeP_{gen}- rel à'a yè máa/má niì/má naa (4-44) now dem time-past (now.../at that time...) (tep20) TeP_{gen}------ rel yąg kà 'am-é àlà rbà-lí zamdì ka 'andaddú kana réétà tée yógó tomorrow mouth morning-in Wed.-on hour 8 and a-half time-FUT (tomorrow morning at 8:30...) (1B35b) (tep21) TeP_{gen}--- rel ve' tóó máa (4-47K) year other time-past (in another year...) (tep22) TeP_{telo}----- rel tíń waaná' máa (4-47D) after little time-past (a little while later.../soon afterwards...) (tep23) te rel tée (4-40I) zàa a-little-while time-FUT (a little later...) (tep24) TeP_{telo}-rel máa (3-134) sèy tín time before time-past (later...) (tep25) TeP_{gen}---- rel bá' tạạnó tée (3-54I) day three time-FUT (3 days later...)

(tep26) TeP_{lí}----- rel

yógó yąg kà'am- é máa (4-9G) tomorrow mouth morning-in time-past (the following morning...)

4.8.4 <u>Temporal ká phrases (TeP_{ká})</u>. Temporal <u>ká</u> phrases are single-centered, and have the following characteristics:

1) the optional head position is filled only by ká 'time past',

2) the modifiers of $\underline{k}\underline{a}$ are also optional and are quite limited in number, including $\underline{b}\underline{a}\underline{n}$ 'yesterday', $\underline{b}\underline{u}\underline{u}$ 'the next day', $\underline{v}\underline{e}\underline{e}$ 'next year', and $\underline{t}\underline{n}$ 'before'. Although both head and modifier are optional, one of them must occur.

3) Further modifiers found have been the indefinite $\underline{tóó}$, the recall <u>pèè</u>, and the expressions $\underline{à} \cdot \underline{a} \cdot \underline{y} \cdot \underline{b}$ 'now' and $\underline{s a b b} \cdot \underline{d a b b}$ 'stay one'; see the examples below.

4) This phrase occurs in the Te_1 position in clauses, and in the modifier position of f phrases.

Tagmemic formula:

 $\text{TeP}_{k\acute{a}} = +(\pm \text{H}:\underline{k\acute{a}} \pm \text{Mod}:\underline{b\acute{a}n}/\underline{b\acute{u}u}/\underline{v\grave{e}\grave{e}}/\underline{t\acute{n}})$

± Mod:indef/rec/ <u>à'a yè/səə dágá</u>

Read as explained above.

- (tep27) bán (1B44) yesterday (yesterday)
- (tep28) ká bán (4-1) time-past yesterday (yesterday)
- (tep29) ká bán à à yè (4-30) time-past yesterday now (exactly yesterday...)
- (tep30) ká bán tóó (4-14) time-past yesterday other (a certain day in the past...)
- (tep31) ká búu (4-14) time-past day-before (the day before yesterday...)
- (tep32) ká bán səə dágá (4-15) time-past yesterday stay one (the day before yesterday...)

- (tep33) ká vèè (2 Cor 8:10) time-past year-before (last year)
- (tep34) (f) ká tíň (pèè) (Luke 11:26) (the-one) time-past before (rec) (the previous (one we all know about))

4.8.5 <u>General temporal phrases (TeP_{gen})</u>. General temporal phrases are single-centered and
1) bear many similarities to NP₁ except that:
2) the head position is filled by a temporal element, which may be a temporal root or a compound expression, and
3) the general temporal phrase occurs in Te₁ and Te₂ positions in clauses as well as in subject position; it also occurs as axis in TeP_{lf} and TeP_{máa}.

Several modifiers have been noted, each generally occurring alone, so that little order can be seen in their respective positions within the phrase: poss indef IP_{mod} num npr_q Sb Rel dem te lim IdeoP

Doubtless the following expression should be added to this group, but it has an irrregular structure:

 $\begin{array}{ccccc} (tep35) & te & te? & v_{lo} & cm \\ & zàg & zàa & pé- & li (3-54B) \\ & time a-little & is-NEG-F-I-NEG (a short time later...) \end{array}$

Tagmemic formula:

 $TeP_{gen} = +H:te \pm \frac{Mod:indef/te/Sb Rel/IdeoP/npr_{g}}{Mod:\hat{I}P_{mod}/foc \pm Dem:dem}$ $\frac{Poss:poss}{Quant:num}$ Lim:lim

Read as explained above, with the addition of the slot titles: Limiter, Modifier, Quantifier, Possessive, and Demonstrative. Only IP_{mod} (or foc) and the demonstrative occur together in the current data, which reveals their order of occurrence, but not that of the other elements.

Examples:

(tep36) te lim zágą 'wààpád (4-9H) day all (every day)

- (tep37) te te zágą 6>> (4-48J) day today (today)
- (tep38) te lim----bá' buulí nà'à (4-47K) day be-many very (many days)
- (tep39) te----yąg kà'ạm (4-9I) mouth morning (morning)
- (tep40) te Sb Rel----- sèỳ Bàbàam ka fíí ya hóg- í (4-9N) time Rabbit sb-he returns come bush-in (the time when Rabbit returned from the bush)
- (tep41) te num bá' tạạn5 (3-54I) day three (three days)
- (tep42) te foc dem sęę máa yę̀ (3-54U) moon then dem (in that month...)
- (tep43) te lim sèỳ waaná' (1A35b) time little (a little time)
- (tep44) te $ext{fP}_{mod}$ ------ dem zágą $ilde{t}$ tóó yè (3-137) day the-one other dem (this other day...)
- (tep45) te npr_q àlàd nén(ná) (1A31) Sunday/week how-many (how many weeks...)

4.8.6 <u>Coordinate temporal phrases (TeP_{co})</u>. Coordinate temporal phrases are 1) double-centered,

- 2) contain two head positions, each filled by a temporal or TeP_{gen} or
- probably also by $TeP_{k\acute{a}}$ (data here is incomplete),
- 3) joined by kan 'and', or tóó tée 'or'.
- 4) This phrase occurs in the Te_2 position in clauses.

Examples:

- (tep46) te----- rel te lim yąg ką̀'ąm kan vìd 'wààpád (3-107) mouth morning and night all (every morning and night)
- (tep47) TeP_{gen}--- rel----- TeP_{gen}-----sęę idú tóó tée sęę tąąnś (3-54T) moon two or moon three (2 or 3 months)

4.9 LOCATIVE PHRASES (LoP)

Locative phrases

contain a locative in their head or axis position; and
 they may occur in the locative position in clauses; whenever a locative phrase may occur elsewhere as well, this will be noted under that phrase type below.

The following types will be discussed:

- 4.9.1 /lí/ locative phrases (LoP_{lí})
- 4.9.2 temporal-locative root phrases (LoP_{telo})

4.9.3 double-centered locative phrases (LoP_{dble})

4.9.1 <u>/lí/ locative phrases (LoP_{lí})</u>. The distinctive characteristics of this relator-axis phrase are as follows:

1) Its single relator position contains only the obligatory locative relator suffux: $/l_{\rm f}$ 'in/on/at', not a 'common telo root' (3.9.1).

2) Its obligatory axis position contains any one of several items: NP_1 ,

 NP_{ya} , NP_{gen} , lo_{place} , a locative, a <u>mí</u>_{emph} pronoun, or one of several

locative demonstrative roots: \underline{wu} 'there', $\underline{y}\hat{\underline{z}}$ 'here', $\underline{y}\hat{\underline{y}}$ 'there', etc.

3) Limiters and the locative \underline{p} from the noun phrase have been found to <u>follow</u> the suffix /lf/; see the last three examples below.

4) Besides occurring in the locative position in clauses, it may occur as a modifier in NP₁ and iP_{mod} .

Tagmemic formula:

$$\begin{split} LoP_{l\acute{t}} = + Ax: NP_{1/ya/gen}/lo_{place}/lo/\underline{m\acute{t}_{emph}}/dem & + Rel:/l\acute{t}/\\ \pm Mod: lim/\underline{p}\grave{t} \end{split}$$

Read as explained above.

Examples:

- (lop1) NP₁----- rel kớə wòò-lí (4-9G) sack his- in (in his sack)
- (lop2) NP₁------ rel lig i wòò-li (3-137) house the-one his- at (to his own house)
- (lop3) NP₁------ rel dəg gbòò tóó- lí (3-134) big-pot big a-certain-in (in a certain big pot)

(lop4)	NP ₁ rel
	bəd yə̃"í- lí (4-48J)
	mud to-dig-in (in digging in the mud)

(lop5) NP₁------ rel nóo wòò- lí (lá?) (3-35) who him/her-at (Q) (at whose house?)

- (lop6) NP_{ya}----- rel ya tóó- lí (3-138) place a-certain-in (in a certain place)
- (lop7) Np_{gen}----- rel hạg Mbùù wòò-lí (4-47I) stomach Hyena his- in (in Hyena's stomach)
- (lop8) NP_{gen}------ rel lig náá gíb waa pèè vòò- lí (4-47E) house young girl small rec their-in (in the young girls' house)
- (lop9) lo_{place} rel mbàð- lí (3-110) Mbé- in (in Mbé)
- (lop10) \underline{mi}_{emph} rel vòò- lí (3-96) them- at (at their house)
- (lop11) dem rel wu- lí (3-123) dem- at (there)
- (lop12) dem rel yè- lí (4-6) here-at (here)
- (lop13) NP_{ya}------ rel lim ya vòò- lí 'wààpád (3-54S) place their-among all (among them all)
- (lop14) NP_{ya}------ rel lim-----ya tóó vʉ- lɨ dììlí nà'à (3-56) place other pl- at be-far very (at other places, far away)

(lop15) NP₁ rel lo dəə- lí pì (4-40G) hole-in back-there (way back there in the hole)

4.9.2 <u>Temporal-locative root phrases (LoP_{telo})</u>. This relator-axis phrase type has the following characteristics:

1) A locative or a 'common telo root' (3.9.1) is used as relator, with or without the temporal-locative suffix /lí/ as additional relator. The common telo root may precede or follow either the axis position or the other relator position containing /lí/. Some common telo roots evidently have occurrence restrictions and appear only in one or in two of these positions.

2) Its obligatory axis position contains an NP₁, an emphatic \underline{mi} pronoun, or a locative place name.

3) As in LoP_{lf} above, a few modifiers may follow the final relator, for ex. a limiter or the dem <u>yè</u> or <u>yè</u>. See the last three examples below.

4) In addition to its occurrence in the locative position in clauses, it occurs as a modifier in NP₁ or $\text{\acute{H}P}_{mod}$.

Tagmemic formula:

$$LoP_{telo} = + Rel:lo/telo + Ax:NP_1/lo_{place} \underline{mi_{emph}} \pm Rel:/li/$$

 \pm Mod:lim/dem

Read as explained above.

Examples:

- (lop16) lo NP₁ rel yąg dəə- lí (4-40G) mouth hole-at (at the edge of the hole)
- (lop17) telo NP₁------ rel tíň huu gbộộ tóó- lí (4-47K) inside forest big a-certain-in (inside a certain big forest)
- (lop18) lo_{place} lo Sasaa pậń (3-89) Sasaa up-there ([the village of] Sasaa up there)
- (lop19) telo \underline{m}_{emph} rel tíý wòò- lí (3-135) in it- in (in it)

- (lop20) lo NP₁ lim dáý zìỳ waaná' (4-40E) near river little-bit (near the river a little bit)
- (lop21) NP₁ telo vá \hat{n} tí \hat{n} (4-9N) granary in (in the granary)
- (lop22) NP₁ telo rel bab sàam- é (3-120) field middle-in (in the middle of the field)
- (lop23) <u>mí_{emph} rel telo</u> wòò- lí tíý (4-9E) it- in inside (inside it)
- (lop24) NP₁ telo lo huu tíή yè(lá?) (3-54K) forest inside here(Q) (inside the forest here?)
- (lop25) NP₁------ rel lim yàgà vu-lí 'wààpád (3-54Q) field-row pl-along all (along all the planting rows)
- (lop26) NP₁ telo lim-----hýg tíň dììlí nà'à (3-54S) bush in be-far very (far away in the bush)

4.9.3 <u>Double-centered locative phrases (LoP_{dble}</u>). This phrase type has the following distinctive characteristics:

1) It has two head positions: LoP_{lf} may occur in either position, and LoP_{telo} may occur in the second head position.

2) The relator suffix /li/ is evidently obligatory in <u>each</u> of the two head positions, even when one of them contains LoP_{telo} where /li/ is usually only optional.

3) Certain of the items occurring in the two axes are evidently restricted with respect to each other. One such restriction treats $\underline{m}\underline{i}_{emph}$ plus /l \underline{i} / plus a noun plus /l \underline{i} / as a variant of a corresponding LoP_{l \underline{i}}: NP₁ (with poss) plus /l \underline{i} /. For example, the following two examples have almost identical meaning:

(lop27) <u>mí_{emph}</u> rel n rel wòò- lí lig- í (3-140) him/his-in house-in (in his house) (lop28) NP₁----- rel

lig wòò- lí (3-137) [can also be contracted to liggòòlí] house his- in (in his house)

Tagmemic formula:

 $LoP_{dble} = +H:LoP_{lf} + H:LoP_{lf/telo} (with + Rel:/lf/)$

Read as explained above.

Examples:

(lop29) LoP_{lí}-- LoP_{lí}--wòò-lí ka'ad-í (3-122) him-to side- to (to his side)

- (lop30) LoP_{lí}----- LoP_{lí}--à- n fạạ vòò- lí bab- bí (4-9P) mother-my in-law their-in field-in (in my mother-in-law's field)
- (lop31) LoP_{lí}---- LoP_{lí}--hág- á yè- lí (4-4) ground-on dem-on (here on the ground)
- (lop32) LoP_{lf} LoP_{lf} -víí- lí yè- lf (3-144) you-at dem-at (at your house here)
- (lop33) LoP_{lí}----- LoP_{telo}--bą' wòò-lí la' yúba (3-54M) egg her-on tree up (on her eggs up in the tree)
- (lop34) LoP_{lí}----- LoP_{telo}-----dəg- gí tíý wòò-lí (3-135) big-pot-in inside it-in (inside the big clay pot)

4.10 OTHER RELATOR-AXIS PHRASES (RAP)

Three types of relator-axis phrases will be discussed:

4.10.1 relator-axis kan phrases (RAPkan)

4.10.2 relator-axis <u>yúú</u> phrases (RAP_{yúú})

4.10.3 relator-axis simile phrases (RAP_{sim})

4.10.1 <u>Relator-axis kan phrases (RAP_{kan})</u>. This type of phrase is single-centered and has the following characteristics:

1) It's introduced by <u>kan</u> 'with, by, and', which is followed by 2) an axis filled by one of a large variety of nominal and pronominal elements. The following have been found to occur here: NP₁, NP₂, NP_{kin}, NP_{gen}, NP_{genan}, VN Cl, and the free (i.e., non-suffixed) <u>mí_{obj}</u> pronouns (or the <u>bi_{obj}</u> forms when the referential condition REF COND is met, see 7.3).

3) The additional relator $\underline{\acute{am}}$ 'also' may follow the axis.

4) This type of phrase occurs in the instrumental-accompaniment position in clauses.

Tagmemic formula:

 $RAP_{kan} = + Rel: \underline{kan} + Ax: NP_{1/2/kin/gen/genan}/VN Cl/free \underline{mi_{obj}} \pm Rel: \underline{\acute{a}m}$

Read as explained above.

Examples:

(rap1) rel NP₁-----kan vbśś ś wòò (3-128) with stick the-one his (with his stick)

(rap2) rel NP₂ rel kan nà'á ám (4-47C) with mother too

- (rap3) rel NP_{kin}----kan dàg- à síg fạạ (3-90) with neighbor-her co wife
- (rap4) rel NP_{gen}-----kan yég Abdù wòò (3-36) in name Abdù his (in Abdu's name)

- (rap5) rel NP_{genan}----- rel kan Kəə waa pèè ám (4-47C) with Lion child rec too (with the Lion child too)
- (rap6) rel VN Cl----kan zóó dę"é (3-54J) with heart to-clean (with joy)
- (rap7) rel VN Cl-----kan yaalí vóó-lí sàam- é (3-54A) with to-come us- to among-to (with coming among us)
- (rap8) rel free <u>mí_{obj}</u> kan mí (3-144) with me

4.10.2 <u>Relator-axis yúú phrases (RAP_{yúú})</u>. These phrases are composed of three elements:

1) an initial relator <u>yúú</u> 'on, concerning, because of',

2) an axis filled by a NP₁ or a \underline{mi}_{emph} pronoun (and possibly by several other noun phrases--our list is not exhaustive), and

3) a final relator, the temporal-locative suffix $/l_{i}/.$

4) These phrases occur in the 'locative' position in clauses, which is a rather formal designation for a slot with a semantic range including 'concerning', as seen by the examples below.

Tagmemic formula:

 $RAP_{y\acute{u}\acute{u}} = +Rel: \underline{y\acute{u}\acute{u}} + Ax: NP_1/\underline{m\acute{l}_{emph}} + Rel:/l\acute{t}$

Read as explained above.

Examples:

(rap9) rel NP₁----- rel yúú bą' wòò-lí (3-54M) on egg her- on (on her eggs)

- (rap10) rel NP₁ rel yúú hǫǫ- l¢ (3-112) concerning sickness-on (concerning sickness...)
- (rap11) rel <u>mí</u>_{emph} rel yúú wòò- lf (3-112) concerning him/it- on (concerning him/it...)

(rap12)	rel	NP ₁				rel	
	yúú	hęn	6íd	kólí	vòò	v u -lí (Mat. 1:21)
	concerning	thing	bad	doing	their	pl-on ((concerning their sins)

4.10.3 <u>Relator-axis simile phrases (RAP_{sim})</u>. Similes are expressed by two different types of phrase. Both occur in the simile (Sim) position in clauses.

The most frequently used of the two types has three parts: 1a) It's usually introduced by the relator $\underline{k5 \ i}$ 'like, as'. Whether this and the final relator together form a discontinuous morpheme is probably true synchronically. At any rate, this structure is unusually complex. 1b) The initial $\underline{k5}$ is probably verbal in origin since it takes the negative suffix -<u>n</u> by agreement in a negative context, but the meaning is not negative; see the second example below.

1c) Occasionally we find \underline{i} used alone; see the fourth example below. 2) Its axis may contain: NP₁, NP_{gen}, certain locative or temporal phrases LoP/TeP, or a <u>mí_{emph}</u> pronoun, and possibly other noun phrases. 3) A final relator <u>wogo</u> 'like' closes the construction.

Tagmemic formula:

 $RAP_{sim} = Rel: \underline{k5 \ \underline{i}}/\underline{\underline{i}} + Ax: NP_{1/gen}/LoP/TeP/\underline{mi}_{emph} + Rel: \underline{w3g3}$

Read as explained above.

Example:

- (rap13) rel NP₁----- rel kś ś ńań yşm vʉ wɔgɔ (3-54D&E) as person blind pl as (like blind persons)
- (VP_{desc}) rel NP₁------ rel (rap14) Vu dùù mbàan kón í zaga vu wogo né. They follow are-NEG like-NEG uncircumcized pl like F-I-NEG (They are no longer like uncircumcized [boys].)
- (rap15) kố í be'- 'í wogo (Lord's prayer) as sky-in as (as in heaven)
- (rap16) í gà' nàà wogo (Rev. 4:1) as horn rich as (like a trumpet)

The other construction used in similes places the relator(s) before the axis. Either of two relators can be used: \underline{moo} or \underline{baa} , or the

combined <u>baà móo</u>. <u>Baà</u> seems to require a clause marker to close its structure.

Examples:

- (rap17) rel NP₁-----móo nóś dii yè (3-88) like eye mouse dem (like the eyes of a mouse)
- (rap18) rel n₁ cm baà la"- i (dictionary in the <u>kś i...wəgə</u> entry) like tree-F-I (like a tree)
- (rap19) rel rel TeP_{ká}------ cm baà móo ká vèè pèè nɔ (4-86G) as as time-past year rec F-I (like last year)

4.11 IDEOPHONE PHRASES (IdeoP)

All ideophone phrases are double- (or multiple-)centered phrases. They have the following characteristics:

1) They occur in ideophone positions in clauses, object 4 positions in transitive introducer clauses, and possibly in Te_2 positions in clauses. 2) They contain one or more head positions without being joined by a relator. The ideophone is simply reduplicated, sometimes only two or three times, sometimes an indefinite number of times.

Three examples from a clause ideophone position:

(ideo1) bád bád bád bád (4-9B)	imitation of a hyena chewing on bones
(ideo2) sáá sáá sáá (3121&122)	softly, very carefully
(ideo3) wù r, wù r, wù r wù r (3-92)	imitation of grinding grains

An animal's cry may fill the object 4 position of a transitive introducer clause:

(ideo4) iiyà iiyà (3-146) imitation of a lion roaring

It may be that the roots <u>háá</u> 'a long time (Ful)', <u>fáá</u> 'a long time', and <u>túm</u> 'forever (Ful)' are ideophones filling Te₂ positions in clauses:

(ideo5) háá háá háá háá (3-141) a very long time

Tagmemic formula:

 $IdeoP = +H:ideo \pm H^n:redup$

Read as explained above. H^n stands for an indefinite number of heads reduplicating the initial head.

4.12 NUMERAL PHRASES (NumP)

The following types of Dii numeral phrases are isolable:

- 4.12.1 10-99 decade numeral phrase (NumP_{dec})
- 4.12.2 100-999 centenary numeral phrase (NumP_{cent})
- 4.12.3 1000-9999 millenial numeral phrase (NumP_{mil})
- 4.12.4 numeral phrase 2 (NumP₂)
- 4.12.5 ordinal numeral phrase (NumP_{ord})
- 4.12.6 distributive numeral phrase (NumP_{dist})
- 4.12.7 coordinate numeral phrase (NumP_{co})

Decade, centenary, and millenial numeral phrases are all cardinal (card) numerals.

Numeral phrases generally modify nouns in noun phrases (but cardinal numerals may also occur in the subject and direct object clause positions). Any cardinal numeral may occur in ordinal, distributive, or coordinate numeral phrases.

4.12.1 <u>10-99</u>: decade numeral phrases (NumP_{dec}). These numeral phrases are potentially double-centered and have the following characteristics:

1) The numerals 10 and 20 are found in Table 3.11.

2) The -ty numerals 30 to 90 are formed by adding the numbers 3 to 9 to vo' '-ty'.

3) Any of these numerals may then be followed by a unit (1-9), linked to the rest of the numeral by \underline{zuu} 'and'; this latter morpheme seems to be the verb 'descend', like in adding an object to a pile of objects being counted-- or going down to start counting on the toes when there aren't enough fingers.

See Bohnhoff and Kadia 1990, chapters 6 and 8 for more examples.

Tagmemic formula:

 $NumP_{dec} = +H:10/20/(vo' + Mod:3-9)$

 \pm (+Rel:<u>zùù</u> +H:num_{uni})

Read: decade numerals are composed of a head slot filled by 10, 20, or a morpheme <u>vo'</u> modified by one of the unit numerals 3-9. The first head slot may be followed by the linking word $\underline{z\hat{u}\hat{u}}$ which is then followed by another head slot filled by any unit numeral. Examples:

(nump1) wànbó' z ùù tạạnó (3-109)	Ten and three (13)
(nump2) vo' ka'andad ú z ùù gúndem	-ty eight and seven (87)

4.12.2 <u>100-999: centenary numeral phrases (NumP_{cent})</u>. These phrases are potentially double-centered and have the following characteristics:
1) They're all formed on the base word <u>tèmere</u> '100', a word borrowed from Fulfulde, with the units 1-9 added for the hundreds.
2) Any numeral between the even hundred figures is obtained by adding a unit numeral (1-9) or a decade numeral phrase (as defined aboove), but always linked to the preceding portion of the phrase by kan 'and'.

See Bohnhoff and Kadia 1990, chapter 11 for more examples.

Tagmemic formula:

 $NumP_{cent} = +H:100 \pm Mod:num_{uni}$

 \pm (+Rel:<u>kan</u> +H:num_{uni}/NumP_{dec}) Read as explained above.

Examples:

(nump3) tèmere gúú (1B27b)	hundred six (600)
(nump4) tèmere kan dágá	hundred and one (101)
(nump5) tèmere gúú kan tạạnś	hundred six and three (603)

(nump6) tèmere gúndem kan vo' tạạnó zùù dágá hundred seven and -ty three and one (731)

4.12.3 <u>1000-9999</u>: millenial numeral phrases (NumP_{mil}). These phrases have the following characteristics:

1) They contain the base morpheme <u>ùzineere</u> 'thousand (Ful)'.

2) The numeral 1000 may then be followed by either a unit numeral, a decade numeral phrase, or a centenary numeral phrase.

3) Any of the figures in even thousands may then be followed by a link \underline{kan} 'and' which is followed by either a unit numeral, a decade numeral phrase, or a centenary numeral phrase.

Tagmemic formula:

 $NumP_{mil} = +H:1000 \pm Mod:num_{uni}/NumP_{dec/cent}$

 \pm (+Rel:<u>kan</u> +H:num_{uni}/NumP_{dec/cent})

Read as explained above.

Examples:

(nump7) ùzineere tąąnó	thousand three (3,000)
(nump8) ùzineere vo' gúú	thousand -ty six (60,000)

(nump9)

ùzinεεre tèmere tạạnś kan tèmere idú kan vo' ndadú zùù gúndem thousand hundred three and hundred two and -ty four and seven (300,247)

4.12.4 <u>Numeral phrase 2 (NumP₂)</u>. Numeral phrase 2 consists of
1) the numeral <u>dágá</u> 'one' plus
2) one or two ideophones as modifier(s): <u>'néń</u> and <u>kpógkpóg</u>, each meaning 'only'.

Tagmemic formula:

 $NumP_2 = +H: dágá + Mod: 'néń \pm Mod: kpógkpóg$

Read as explained above.

(nump10) ...dágá 'néý kpógkpóg, tóó Ø pé- lí (3-25) ...one only only other it is-NEG-F-I-NEG (... absolutely only one (pencil), there are no others!)

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4.12.5 <u>Ordinal numeral phrases (NumP<sub>ord</sub></u>). These phrases are composed of:
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1) any cardinal numeral (unit, decade, centenary, or millenial numeral phrase) followed by

2) what appears to be the third singular possessive <u>woo</u> as modifier.

Tagmemic formula:

 $NumP_{ord} = +H:card + Mod:wood$

Read as explained above.

Example:

(nump11) tạạnó wòò (3-54J)

three his (third)

(nump12) wàhôó' zùù idú wòò (Rev. 21:20) ten and two his (twelfth)

4.12.6 <u>Distributive numerals (NumP_{dist}</u>). Any cardinal numeral may be rendered distributive, usually by using the distributive forms of unit numerals (see Table 3.11). Their characteristics are as follows: 1) Their head position contains any cardinal numeral.

2) The whole numeral is considered distributive but only the final unit numeral is reduplicated.

3) They fill only Quantifier slots in noun phrases.

Examples:

(nump13)	tèmere kan vo' gúú gúú	hundred and -ty six six (160 each)			
(nump14)	vo' gúndɛm z ùù tạtạạnɔ́	-ty seven and three-three (73 each)			
(nump15)	dálà dádágá (see dictio 5-francs one-one (five fran	onary) [<u>dálà dágá dágá</u> is also found] ncs each)			
(nump16)	dálà i'id ú (1A44)	5-francs two-two (10 francs each)			
Exc	Exceptions: gbeg '20', temere '100 (Ful)', and uzineere '1000				

(Ful)' may be rendered distributive through repetition of the full morpheme (e.g., <u>gbèg gbèg</u>), but it's also possible to render 100 and 1000 distributive by adding a reduplicated <u>dágá</u> following them.

4.12.7 <u>Coordinate numeral phrases (NumP_{co})</u>. One type of coordinate numeral phrase is antithetical: 'two or three'. In Dii this is expressed by juxtaposing the two unit numerals involved, or by inserting <u>tóó tée</u> 'or' between them:

(nump17) idú tạạnś [or: <u>idú tóó tée tạạnś</u> (3-54S)] two three (two or three)

When a numeral phrase is involved, only the final relator and the final head position are juxtaposed:

(nump18) wànbó' zùù tạạnó zùù ndadú (3-109) ten and three and four (13 or 14)

4.13 SUBORDINATING PHRASES (SbP)

The main types of Dii subordinating phrase are the following:

- 4.13.1 temporal-locative-conditional (SbP_{teloc})
- 4.13.2 relative (SbP_{rel})
- 4.13.3 manner (SbP_{man})
- 4.13.4 simile (SbP_{sim})
- 4.13.5 hypothetical (SbP_{hyp})
- 4.13.6 concessive (SbP_{con})
- 4.13.7 cause (SbP_{cau})

Most of the subordinating phrases in Dii are discontinuous. There may be an 'initial' position containing an element that introduces the clause, a head position immediately preceding the PN-ML subject pronoun position, and a 'terminal' element that is close to the end of the clause (two clause types may have two 'terminal' positions). There may actually be as many as five different elements that signal subordination, spread out from the beginning to the end of the clause, and the subject pronoun is either from the \underline{mi} , the \underline{an} , or the hypothetical series, predictable for each subordinate type.

The 'terminal' elements are a type of demonstrative 'binder' noted by Kay Williamson (in Bendor-Samuel 1989:34) as a widely spread characteristic of Niger-Congo languages for closing noun phrases or relative clauses. In Dii, 'binders' of this sort are found in several types of subordinate clause, but not in noun phrases, and are not limited to morphemes with strictly demonstrative meaning. Other frequent 'binders' in these phrases are recall morphemes or <u>ná'</u> 'like that', of which 'demonstrative' is only one element of their meanings. See below for each phrase.

4.13.1 <u>Temporal-locative-conditional subordinating phrases</u>
(SbP_{teloc}). This phrase has the following characteristics:
1) It may be introduced by

a temporal root, e.g. <u>sèỳ</u> 'time (Ful)', <u>pig</u> 'after'...,
a locative root, e.g. <u>ya</u> 'place', or
a conditional root <u>tò/tòw</u> 'if (Ful)'; note two of these elements have been borrowed from Fulfulde.

2a) The head position itself is optional, but two subordinating elements may occur: <u>ká</u> and/or <u>ka</u> (in that order).
2b) <u>Ká</u> 'far past' is in principle NOT a subordinator but seems to assume

subordinating functions here; when $\underline{k}\underline{a}$ occurs alone, it sometimes contracts with the subject pronoun as in the far right columns in Table 3.3b, repeated below as Table 4.1.

2c) When the subordinator \underline{ka} occurs, it may contract with the following subject pronoun as in Table 4.1 below.

3) Either a demonstrative (especially <u>máa</u> or <u>tée</u>), a recall morpheme, or the adverb <u>ná</u>' 'like that' or 'so' may occur in the phrase's 'terminal' position. The phrase is thus composed of three optional elements, but one of them <u>must</u> occur; as indicated by the signs: $+(\pm ... \pm ...)$. 4) The demonstrative just above may be followed by <u>na</u>, <u>naa</u>, <u>no</u>, or <u>niì</u>, any of which seem to increase focus on the subordinate clause involved; in which case <u>tée</u> becomes <u>té</u>, and <u>máa</u> becomes <u>má</u> before the focus item: <u>té na</u>, etc.

5) The SbP_{teloc} occurs only in TeLoC subordinate clauses (7.2.1).

6) The subject pronoun occurring in Sb TeLoC clauses is of the \underline{an} series; see the columns labelled \underline{an}_{sbsubj} and \underline{an}_{sbemph} in Table 4.1 just below.

person, number	unmarked <u>à̀ǹ_{subj}</u>		ndependent subject <u>à̀ǹ_{emph}</u>	subject <u>à̀ǹ</u> sbemph	<u>ká</u> far past + <u>à̀ǹ_{subj}</u>	<u>ka</u> sb + <u>mí_{subj}</u> or <u>àǹ_{sbsubj}</u>	<u>ka</u> sb + <u>ìi</u> subj
1 s 1+2 d 2 s 3 s 1+1 ple 1+2 pli 2 pl 3 pl	àn ba àm¹ à òo ba…ví ì¹ ùu	àn àa àm à òo àaví ì ùu	ànno/a míí à baà à móo à w u à vóo à baàví à víi à v uù	àjìnɔ à baà àjìmɔ à wʉ à vóo à baàví à víi à v uù	káń káa káḿ ká kóo káaví kíi kíi	káń kaa káṁ ka ² kóó kaaví kíí k uu	káń kaa kii kii kóó kaaví kii kii
 Table 4.1: <u>àn</u> series pronouns, and contractions with <u>ká</u> and <u>ka</u> Notes on Table 4.1: 1. These pronouns are optional in the 2 s and 2 pl <u>when the context is</u> <u>clear</u>, so contrary to almost all other Dii pronouns, these 2 forms are not strictly obligatory. 2. Three contractions occur between <u>bà</u>, <u>ka</u> and the 3 s future forms: bà wúń = bàn ka wúń = kan 							

ka ìi = kii

Tagmemic formula:

 $SbP_{teloc} = +(\pm Init:te/lo/tow ... \pm H:(\pm ka \pm ka) ... \pm Ter:dem/rec/na')$

Read as explained above.

Examples (overt subject pronoun forms are in parentheses):

- (sbp1) sèỳ... ka... tée (4-9G) time sb-he dem (when (he)...)
- (sbp2) pig... k(uu)... máa (2-64b) after sb-they dem (after (they)...)
- (sbp3) (à)... té naa (3-111) he dem foc (when (he)...)
- (sbp4) ya... ka... pèè (4-5&6) place sb-he rec (where (he)...)
- (sbp5) tòw ká (àn)... tée (Luke 19:8) if far-past I... dem (if (I) have...)

4.13.2 <u>Relative subordinating phrases (SbP_{rel})</u>. This phrase has the following characteristics:

1a) The head position can be filled by one or two of the following three subordinators, or by none:

<u>ká</u> 'far past' which may be followed by <u>bà</u>,

<u>ká</u> 'far past' may be followed by <u>ka</u>, although

ka usually occurs alone;

<u>bà</u> may precede <u>ka</u>, and

rarely <u>bà</u> may occur alone.

It should be noted that $\underline{k}\underline{a}$ is usually NOT a subordinator, since it occurs also in main clauses, but in several subordinate clauses it does seem to assume some subordinating functions.

1b) When $\underline{k}\dot{a}$ 'far past' immediately precedes the subject pronoun, it almost always takes a $\underline{m}\dot{i}$ series form; when this pronoun is not elided with $\underline{k}\dot{a}$ (e.g.: $\underline{k}\dot{a}$ vu...), it seems the speaker puts more emphasis on the pronoun, but it may elide: $\underline{k}\dot{u}u$..., which seems to indicate no particular emphasis on the subject pronoun.

1c) In the combinations $\underline{k}\dot{a} + \underline{k}\dot{a}$, or $\underline{k}\dot{a}$ alone immediately preceding the subject pronoun, the $\underline{a}\dot{n}$ series form may elide with $\underline{k}\dot{a}$, e.g.: $\underline{k}\dot{a} \underline{k}\underline{u}\underline{u}$...

1d) When \underline{ba} immediately precedes the subject pronoun, it usually takes a future or non-future \underline{mi} form.

1e) Résumé for which subordinator occurs with which subject pronoun:

<u>ká</u> + <u>mí</u>

<u>ka</u> + <u>àn</u>

 $\underline{ba} + \underline{mi}_{fut}$ or \underline{mi}_{nonfut}

Contractions in the first two cases are as in Table 4.1 above.

2) If none of the 3 subordinators above occurs, the subject pronoun is from the <u>an</u> series (although a couple cases of the <u> mi_{nonfut} </u> pronoun have been fund to occur without a subordinator...).

3) The optional 'terminal' position of the phrase contains a demonstrative, a recall morpheme, or <u>ná'</u> 'like that'.

4) The demonstrative just above may be followed by <u>na</u>, <u>naa</u>, <u>no</u>, or <u>niì</u>, which seems to increase focus on the subordinate clause involved; in which case <u>tée</u> becomes <u>té</u>, and <u>máa</u> becomes <u>má</u> before the focus item: <u>té na</u>, etc.

5) This phrase occurs in relative subordinate clauses (Sb Rel), see 7.2.2.

Tagmemic formula:

 $\text{SbP}_{\text{rel}} = \pm \text{H:}(\underline{k\dot{a}} \pm \underline{b\dot{a}}/\underline{ka}, \text{ or } \underline{b\dot{a}} + \underline{ka}, \text{ or } \underline{b\dot{a}})... \pm \text{Ter:dem/rec/}\underline{n\dot{a}'}$

Read as explained above, also with co-occurrence limitations concerning which pronoun occurs with which subordinator.

Examples (with overt subject pronoun forms in parentheses):

- (sbp6) ká (mí)... pèè (Mark 6:16) far-past I rec (which (I)...)
- (sbp7) ká k(uu)... máa (Luke 23:53) far-past sb-they dem (which (they)...)
- (sbp8) bà k(óó)... (3-55) sb sb-we-excl (that (we)...)
- (sbp9) k(íí) ... yè (3-54I) sb-you dem (which (you)...)
- (sbp10) ka... ná' (3-134) sb-he like-that (which (he)...)
- (sbp11) bà... pèè (3-135) sb-he rec (who ...)
- (sbp12) (vuň)... pèè (3-121) they rec (that (they)...)
- (sbp13) (à)... máa (4-9N) he dem (who...)

4.13.3 <u>Manner subordinating phrases (SbP_{man})</u>. This phrase has the following characteristics:

1) Its initial position contains a manner morpheme or expression (<u>k5 née/k5 née péń/née/dəŋ née</u> 'do how/ do how first/how/ begin how'); since

<u>k5</u> means 'do', and <u>dən</u> means 'begin', this construction might also in some cases be analysed as consisting of two clauses, the first consisting of '...do how...' or '...begin how...', and the second exhibiting characteristics 2 and 4 in this list.

2) Its head position may be filled by the subordinator <u>ka</u>, in which case the PM is usually contracted with <u>ka</u> as in Table 3.3b, column 6; the subject pronoun is from the <u>mí</u> series.

3) It occurs only in the subordinate manner clause (Sb Man), see 7.2.9. 4) The sentence (not the Sb Man clause itself) often ends in what appears to be the interrogative morpheme /a/, but the meaning of the sentence is not interrogative. I assign this to a projected 'terminal' position despite its distance in speech from the manner morpheme or expression that seems to trigger it.

Tagmemic formula:

 $SbP_{man} = +Init:man \dots \pm H:\underline{ka} \dots \pm Ter:Q$

Read as explained above.

Due to the complex nature of the possible subordinating signals, see section 7.2.9 for sentences illustrating manner subordinate clauses.

4.13.4 <u>Simile subordinating phrases (SbP_{sim})</u>. This phrase, translated as 'like' or 'as', occurs in subordinate comparison clauses (Sb Comp, see 7.2.10), and is illustrated by two similar constructions which have the following characteristics:

Construction 1:

1) Its initial position usually contains <u>k5 í</u>.

2a) Its head position usually contains the subordinator ka;

2b) however, sometimes <u>bà</u> is found instead of <u>ka</u>, especially when the verb in the subordinate clause is a verb of saying (\dot{Q} , <u>mòò</u>, etc.); but <u>bà</u> itself may be suppressed if the subordinate subject pronoun is from the <u>mí</u>nonfut set;

2c) if $\underline{k}\underline{a}$ 'far past' occurs before the subject pronoun, it seems to have some subordinating character as well, since $\underline{k}\underline{a}$ does not often occur in addition to $\underline{k}\underline{a}$;

2d) more rarely yet, a fourth possibility is found: <u>bà ka</u> see Mark 15:8.
2e) This set of subordinators parallels in several ways those structures described above for relative subordinating phrases.

3) Its terminal position contains wogo.

4) A demonstrative or the recall morpheme may precede <u>wogo</u>, forming a second 'terminal' position.

5) The subject pronoun series depends on which subordinator occurs immediately preceding the pronoun:

<u>ká</u> or <u>bà</u>: <u>mí</u> series

<u>ka</u>: <u>àn</u> series

6) Before the interrogative morpheme /a/, wogo is replaced by <u>nénná</u> 'how', or may become woga(a) by contaction.

Construction 2:

1) If the verb in the main clause is \underline{mbaa} 'sit/be', then the initial subordinate position may contain \underline{baa} 'like'.

2) The subject pronoun seems to be of the $\underline{mi_{nonfut}}$ set in the absence of the subordinator <u>bà</u>, but it is any <u>mí</u> pronoun if <u>bà</u> is present.

3) A demonstrative may precede wogo -- see zù in Rev. 13:3.

4) The terminal position has either wogo or nothing.

Tagmemic formulas:

 $\begin{aligned} & \text{SbP}_{\text{sim}} \text{ type } 1 = \\ & + \text{Init:} \underline{k} \le \underline{i} \dots + \text{H:} \underline{k} \le \underline{k} / \underline{k} \ge \underline{k} / \underline{k} \ge \underline{k} \\ & \text{or type } 2: + \text{Init:} \underline{b} \ge \underline{k} \dots \pm \text{H:} \underline{b} \ge \underline{k} \\ & \text{ter:dem} \pm \text{Ter:dem} \pm \text{Ter:} \\ & \text{wead as explained above.} \end{aligned}$

Examples of construction 1 (overt subject pronouns are put in parentheses):

- (sbp14) k5 f ká (vʉ)... máa wɔgɔ (Mat. 26:24) like far past they dem like (like (they)...)
- (sbp15) kố ť ka... wogo (2-64b) like sb-he like (like (he)...)
- (sbp16) k5 f k(uu)... wogo (Mat. 17:12) like sb-they like (like (they)...)
- (sbp17) kố ť bà... pèè wogo (Mat. 21:30) ike sb-he rec like (like (he)...)
- (sbp18) k5 f (vun)... pèè wogo (Mat. 28:15) like they rec like (like (they)...)

Examples of construction 2 (overt subject pronouns are again in parentheses):

(sbp19) baà (vùn)... (Mat. 28:4) like they (like (they)...) (sbp20) baà (vùn)... zù wogo (Rev. 13:3) like they dem like (like (they)...)

4.13.5 <u>Hypothetical subordinating phrases (SbP_{hyp}</u>). This phrase has the following characteristics:

1) An optional initial conditional root \underline{to} or \underline{tow} 'if', borrowed from Fulfulde.

2) An optional <u>ká</u> 'far past' may occur before the hypothetical marker, but it's unclear whether this <u>ká</u> has any subordinating function like it seems to have in the subordinating phrases described above.

3) An obligatory hypothetical marker <u>kà</u> in the head position (note this marker also occurs in the main clause, so it's not a subordinator as such).
4) A final obligatory demonstrative <u>tée</u> in terminal position.

5) This phrase occurs in hypothetical subordinate clauses (see 7.2.5).

Tagmemic formula:

 $SbP_{hyp} = \pm Init:\underline{to}/\underline{tow} \dots + H: \pm \underline{ka} + \underline{ka} \dots + Ter:\underline{tee}$

Read as explained above.

Example:

(sbp21) tòw kà... tée (2-77h) if hyp dem (if...)

- (sbp22) kàn... tée (3-130) hyp-he dem (if (he)...)
- (sbp23) ká kà (vón)... tée (Mat. 23:30) far-past hyp we-excl dem (if (we)...)

4.13.6 <u>Concessive subordinating phrases (SbP_{con})</u>. This phrase type has the following characteristics:

1) Its optional initial position is filled by: <u>kóó</u> 'even if'.

2) It may have the subordinator <u>ka</u> in head position, and this may be preceded by <u>ká</u> 'far past', which may or may not also have a subordinating function.

3) The pronoun subject is from the $\underline{\lambda}\underline{n}$ series.

4) Its terminal position is filled by: $\underline{si'}$ 'even if', which may be preceded by a demonstrative in a second 'terminal' position.

5) It occurs in subordinate concessive clauses in sentences (see 7.2.7).

Tagmemic formula:

 $SbP_{con} = \pm Init: \underline{k} \acute{o} \ldots \pm H: \pm \underline{k} \acute{a} \pm \underline{k} a \ldots \pm Ter: dem + Ter: \underline{s} \acute{l}$

Read as explained above.

Examples:

(sbp24) ka... yè sì (4-9N) sb-he dem even (even if (he)...)

(sbp25) kóó... sì (3-139) even even (even if...)

4.13.7 <u>Cause subordinating phrases (SbP_{cau}</u>). This type of phrase has two forms, both occurring in sentence-initial and sentence-final position. See also 7.2.8. 'Type 1' is virtually identical with the temporal-locative-conditional, but lacks an 'initial' position.

'Type 2' has the following characteristics:

Its initial position is filled by <u>moo</u> 'because' or <u>moo wood no</u> 'for it cm'
 'because'.

2) The head position may be filled by either $\underline{k}\underline{a}$ 'far past' or the subordinator $\underline{k}\underline{a}$.

3) The pronoun subject is taken from the \underline{mi} series.

4) There may be two terminal positions, the first filled by a demonstrative or a recall morpheme, the second filled by <u>péń</u> 'first' or the insistent form of the $/\frac{4}{4}$ clause marker.

Tagmemic formula:

Type 1 = \pm H:<u>ká</u> \pm <u>ka</u> \pm Ter:dem/rec/<u>ná'</u> Type 2 = \pm Init:<u>moo/moo wòò nɔ</u> ... \pm H:<u>ká/ka</u> ... \pm Ter:dem/rec \pm Ter:<u>péń</u>/insistent /ú/

Read as explained above.

Example:

- (sbp26) moo ... k(íí) ... yệ (3-54A) because sb-you dem (because (you)...)
- (sbp27) moo ka... (3-116) because sb-he (because (he)...)
- (sbp28) moo wòò no... ka... (4-9H) for it F-I? sb-he (because (he)...)

(sbp29) moo... ká... má (nɔ) (4-40E) because far-past-he dem (F-I) (because (he)...)

The following is a résumé of SbP signals:

name of SbP init. position Head (Pr) ter. position +($\pm te/lo/t$ ow) teloc $\pm \underline{k} \underline{a} \pm \underline{k} \underline{a}$ (<u>àn</u>) $\pm dem/rec/na'$) +ká (mí) $\pm \underline{k} \underline{a} \dots + \underline{b} \underline{a} \quad (\underline{m} \underline{i}_{fut/nonfut})$ relative ± dem/rec/ná' (àn) ±<u>bà</u> +<u>k</u>a (<u>à</u>n) +bà $(\underline{mi}_{fut/nonfut})$ (none) (<u>à</u>n) $+ man^{1}$ ±ka ±Q manner (mí) +ká/bà (mí) ±<u>bà</u> +<u>ka</u> $\pm dem/rec + w_{2}g_{2}$ type 1 simile +<u>k5 í</u> (<u>à</u>n) (<u>mí</u>fut/nonfut) (none) (none) (<u>mínonfut</u>) type 2 simile ± dem +baà ± wogo _ ±bà (mí) hypothetical $\pm t\dot{o}/t\dot{o}\dot{w}$ $\pm \underline{k} \underline{k} + \underline{k} \underline{k}$ (hyp) + <u>tée</u> concessive ±kóó (<u>àn</u>) $\pm \text{dem} + \underline{s}i'$ type 1 cause: ±<u>ká</u> ±<u>ka</u> ± dem/rec/<u>ná'</u> (<u>àn</u>) type 2 cause:

 $\pm \underline{\text{moo}}/\underline{\text{moo}} \times \underline{\text{woo}} + \underline{\text{ko}}/\underline{\text{ka}}$ (mí) $\pm \underline{\text{dem}}/\underline{\text{rec}} \pm \underline{\text{pén}}/\underline{\text{insistent}} / \underline{\hat{u}}/\underline{\hat{u}}$

 1 man = <u>kś née pę́ń/née/kś née/d</u>əŋ née

CHAPTER 5

FACTATIVE CLAUSES, IMPERFECTIVE AND PERFECTIVE

5.0 DII CLAUSE DEFINITIONS AND DISTINCTIONS

This introductory section treats the following topics:

- 5.0.0 clause structure parameters
- 5.0.1 definition of a clause
- 5.0.2 optional and obligatory positions
- 5.0.3 nuclear and peripheral positions
- 5.0.4 position and filler
- 5.0.5 clarification of position boundaries

5.0.0 <u>Clause structure parameters</u>. The following parameters are here used to describe Dii clause structures and their combinations: 1--transitivity.

- 2--mood/aspect,
- 3--independence, and (often also)

4--a set of semantic roles such as agent, patient, etc.

1. <u>Transitivity</u>. This term is applied to the cohesive set of relationships that hold between a given set of verbs and the kinds of subjects, objects, and/or other complements that may occur with them (see Pike and Pike 1980:35-42). Looking at clauses from this perspective, the following terms are some of those relevant in describing Dii structures. The full set of transitivity options is presented in section 5.1.2, with Dii examples.

(1)	intransitive:	I talk.
	transitive:	I see the boy.
	ditransitive:	I told the girl a story.
	locative:	I am-in the house.
	reciprocal:	They beat-each-other.
	descriptive:	The flour sits/is dry.

2. <u>Mood/aspect</u>. There are six moods and aspects in Dii (see Comrie 1976, Grimes 1975:232-7): moods: factative, imperative, hypothetical, verbal noun

aspects: perfective, imperfective.

Not all the moods/aspects occur together, but each will be explained in the chapter or subdivision which deals with it. The following sentences can nevertheless serve as a temporary illustration of the phenomena.

(2)	factative-imperfective:	I go to the market.
	factative-perfective:	I have gone to the market.
	imperative(-imperfective):	Go to the market! (or: I must go)
	hypothetical-imperfective:	If I went to the market,
	hypothetical-perfective:	I might have gone to the market.
	verbal noun (infinitive):	to go to the market.

The term 'factative' is from Welmers (1973:346-7), as is 'hypothetical' (1973:361ff). Welmers prefers 'hortative' for what I call 'imperative' (1973:367-9). The terms 'perfective' and 'imperfective' are from Comrie 1976 and are widely used in the literature. The factatives (perfective and imperfective) are more fully defined and illustrated in chapter 5, the other moods/aspects in chapter 7.

3. <u>Independence</u>. This parameter is used to describe whether the clause may stand alone as a sentence, or whether it's in a subordinate, coordinate, or serial relationship to another clause or other clauses. Section 3.6.1 makes it clear that the subject pronoun found in a given Dii clause depends to a high degree on the independence (or dependence) of the clause in relation to other clauses in the context. Several types of sentence exhibit intricate inter-clausal relationships that will be treated in chapter 8. In addition to the just mentioned possibilities, here is an overview of the independence and interdependence factors as they intersect with transitivity and mood/aspect:

(3a) independent clauses

factative (imperfective, perfective): chapter 5 imperative, hypothetical: see (2) and chapter 7

(3b) dependent/subordinate clauses (chapter 7)

verbal noun	to go to town,
temporal-locative-conditional	when/where/if he goes to town,
indirect quotation	that I went to town,
indirect order	that he must go to town,
purpose	in order to go to town,
cause	because he went to town.
(see chapter 7 for the full list of	subordinate clauses)

(3c) serial-verb clauses (chapter 6)

I go take broom bring come put in kitchen.

4. <u>Roles</u>. The types of roles associated with grammatical subjects, objects, and other complements has been much investigated in

languages (see Pike and Pike 1980:12,15,35,42,48-57, Grimes 1975:112-38, Longacre 1996:153-66). It has now become standard practice to refer to such roles as the following: Agent, Experiencer, Patient, Range, Measure, Instrument, Locative, Source, Goal, etc.

The grammatical subject might be the agent, the experiencer, the patient, or.... I won't be using these roles as thoroughly or as consistently as many writers do, but they're useful and will appear from time to time in the discussions of clauses in chapters 5 through 7.

5.0.1 <u>Definition of a clause</u>. A clause in the Dii language is a unit of the grammatical hierarchy ranking above phrase units and below serial clauses and sentence units. Dii clauses are of two types, verbal and nonverbal, so the verb is not seen as the essential core for clauses. The real core for the Dii clause is the subject pronoun, which occurs in all clauses, verbal and non-verbal; any subject noun occurs in addition to (not in place of) the subject pronoun.

<u>Verbal</u> clauses contain:

- 1. a person-number (PN) position,
- 2. a mood-logophoricity (ML) position,
- 3. a tense (T) position,
- 4. one and only one predicate position, and
- 5. a clause marker in certain cases.

NB: This is not meant to deny embedding or nesting of clauses and/or sentences into the clause level. Also, 'predicate' in my terminology refers only to the verb or verb phrase, and doesn't therefore include objects, temporal or location constructions, etc.

The first three positions just mentioned are fused into what is called the PN-ML-T composite position, where the subject 'pronoun' (3.6.1) occurs. There's always an overt pronoun in the PN-ML-T composite position except in the following two cases. 1) In the third singular of non-emphatic factative (perfective or imperfective) clauses, a zero morpheme 'occurs.' A zero morpheme in this work is a <u>significant lack of a form where we would expect one</u>. See the 3 s zero morpheme in 3.6.3. The zero is signaled by 'Ø' in the Dii texts.

2) In the second person singular and plural in imperative clauses, the subject pronoun is optional in that it may be omitted if the meaning is clear in context.

The predicate position always contains a verb or verb phrase except in the transitive introducer clause where occasionally \hat{Q} 'he says' is implicit before a direct or indirect quotation.

The following positions are obligatory in certain clause types, but they're not essential to the clause definition: indirect object (I), direct objects ($O_{1,2,3,4,5}$), complements ($C_{1,2,3,4}$), complement-as-goal (CG), or locative (Lo).

The sole non-verbal clause is labelled equative and contains the usual PN-ML-T composite position (as above), followed obligatorily by a complement position (filled by a noun phrase, demonstrative, or a cardinal numeral).

Most clauses, verbal or non-verbal, contain a clause marker position to be discussed in detail in 5.1.1. Certain forms (perfective, negative) have obligatory cm forms. Imperfective affirmative clauses, however, don't have obligatory clause markers, and this will require a long explanation.

From the point of view of distribution, clauses generally occur in positions on the serial clause or the sentence levels.

5.0.2 <u>Optional and obligatory positions</u>. Certain positions (slots) in each clause type must occur, while others are optional. Two lists could, therefore, be provided for each clause type, one of only the obligatory positions, another of the largest possible number of positions that may occur in each clause type.

While 'optional' and 'obligatory' are useful distinctions, a still more useful distinction is that between nuclear and peripheral positions. Obligatory positions will be shown with a + before them, optional positions with a \pm .

5.0.3 <u>Nuclear and peripheral positions</u>. In general, certain positions are seen to be 'more important' or 'essential' than others in a clause type. Obviously those that are obligatory are of this category, but some positions are optional while simultaneously being 'diagnostic' of a particular clause type. For example, the object 1 position in the Dii transitive clause is optional, but it's certainly 'essential' to speak of a direct object in transitive clauses.

These 'more important' or 'essential' positions are termed <u>nuclear</u> (and together constitute the <u>nucleus</u> of that type), and the 'less important' and 'non-essential' positions are called <u>peripheral</u>.

5.0.4. <u>Position and filler</u>. It's essential to speak of the <u>position</u> (i.e. the function and position, or slot) of a unit in a clause in relation to the <u>filler</u> or element which occurs in that position. A transitive predicate

position is said to contain a transitive verb phrase. This relationship may be symbolized by inserting a colon between the position and filler symbols, for example: $+P_{tr}$:VP_{tr}.

Thus the symbol $\pm O_1$:NP/pr would refer to an optional Object 1 position which contains either a noun phrase or a personal pronoun.

5.0.5 <u>Clarification of position boundaries</u>. Position boundaries are clarified in examples by a solid line over the Dii words occurring in each distinct position. Where suffixes could cause difficulty, a hyphen separates the elements involved in order to facilitate the use of these solid lines. These hyphens, however, aren't written in Dii literature meant for popular audiences.

5.1 NUCLEI OF INDEPENDENT FACTATIVE IMPERFECTIVE CLAUSES

The nuclei of the independent factative imperfective clauses will be discussed under the following headings:

- 5.1.0 definitions of factative, perfective, imperfective
- 5.1.1 clause markers
- 5.1.2 discussions of the nuclei of specific factative imperfective clauses
- 5.1.3 summary table of the nuclei of factative imperfective clauses

5.1.0. <u>Definitions of factative, perfective, imperfective</u>. The term 'factative' is defined by W. Welmers (1973:346-7); it 'expresses the most obvious fact about the verb in question, which... is that the action is observed or took place, [or]... that the situation obtains at present.' Factatives in Dii usually refer to an action or a state as such, are atemporal (i.e., unless a suffix on the subject pronoun forces a future or non-future meaning), aren't imperative or hypothetical, etc. They refer thus to 'the act as act' or to 'the state as state.' Factative will be abbreviated <u>FACT</u> in this work.

'Imperfective' (IMPF) contrasts with 'perfective' (PERF), and both are defined in detail by Comrie (1976). In the Dii language, 'perfective' indicates the view of an act or state as a <u>single whole</u>, and as <u>complete</u> (even <u>completed</u>), since a future action put in the perfective asserts that the speaker is fully sure of that action's future realization. Thus, <u>yógó míń lúú sú'ú</u> 'tomorrow I-will leave FACT-PERF' means: 'I've decided to leave tomorrow.'

'Imperfective' in the Dii language looks at some internal aspect of a situation's structure; it's atemporal unless a suffix on the subject pronoun forces a future or non-future meaning; it's neutral in terms of an act or a state's completedness; auxiliary verbs are used to show that an act or state is habitual, that it continues through time (durative), that it's in a state of process (progressive), that it's being repeated (iterative), etc. The main thrust of the imperfective in the Dii language is its aspectual 'neutrality,' the 'uncompletedness' of the act or state being described.

5.1.1 <u>Clause markers</u>. Dii clause markers are so important that this introductory section is devoted to them before discussing the individual clauses themselves. Welmers (1973:343-415) refers to these clause markers as 'construction markers.' The clause marker (CM) position, when it occurs:

- 1. signals polarity (affirmative, negative);
- 2. helps to signal the mood (factative, imperative, hypothetical, verbal noun) and aspect (perfective, imperfective) of the clause;

- 3. helps to signal the end of the clause;
- 4. helps to signal that a discourse (a speech, a long quotation, a story) is not finished when certain affirmative forms are suppressed in independent clauses; the affirmative forms are also absent in many subordinate clauses (see the introductory paragraphs in 7.2); and
- 5. can signal hesitation and exclamation or strong affirmation, and sometimes focus.

For factative imperfective clauses, there are two relevant cm morphemes: $/\frac{4}{}$ 'affirmative' and $/\frac{ne}{}$ 'negative.' The form $/\frac{ne}{}$ is obligatory and occurs in each negative clause. The $/\frac{4}{}$ morpheme is not obligatory, and most of the rest of the section 5.1.1 will be devoted to a description of the many complications the analyst encounters.

The cm is usually the last morpheme in a clause, but certain emphatic morphemes may follow it in the negative, for example:

ЪΓ Te (5) PM P_i CM Emph ---- -----------------6èè kàd. (4-110) Mí nən né sleep-NEG today F-I-NEG at-all Ι (I didn't sleep at all last night.)

The symbol \neg c attached to the predicate and CM positions above indicates there is negative agreement or 'concord' between the verb and the cm. The cm is the main negative signal, and the suffix on the verb 'agrees' with the cm; when a verb of non-Dii origin is used (i.e., <u>bíńda</u> 'he writes') the negative suffix on the verb is not present, and the cm is the only signal for negativity in that clause.

In anticipation of a detailed discussion of clause elements in Table 5.2 and section 5.2, a cursory listing of certain clause positions will give the reader a foundation upon which to build the rest of the structure. The following order of elements is strongly respected in the 'neutral' verbal clause. By 'neutral' I mean to exclude a) those sentences where one element has been put in focus (and therefore doesn't occur in its normal position in the sentence); and b) those sentences where one element is strongly stressed or receives strong affirmation.

(6) $\pm Te \pm S + PM + P \pm I \pm O \pm Lo \pm IA \pm Man \pm Sim CM$

Te	temporal	S	nominal subject
Р	verbal predicate	I, O	indirect, direct objects
Lo	locative	IA	instrument, accompaniment
Man	manner	Sim	similitude (comparison)

PM person-number-mood-tense (= pronoun subject)

Only one non-verbal clause exists, and only in the affirmative; the neutral order of elements for this clause is as follows. In the negative this clause requires a verb in an unusual position, as indicated here.

(7) $\pm Te \pm S + PM + C \dots \pm P_{neg} CM$

C complement

 P_{neg} the verb in the negative

<u>Contextually conditioned variants of the cm forms</u>: each of the morphemes / $\frac{4}{4}$ and /né/ is realized by more than one allomorph (see the definition in 3.1). In neutral clauses, the precise allomorph to be used in a given sentence varies according to the grammatical category of the word immediately preceding the cm. Table 5.1 gives the relevant context morphemes and the clause marker allomorph(s) used following each. There are nine different conditioned variants for / $\frac{4}{4}$ in neutral clauses, as listed in column 1, and only 2 for /né/ in column 2. The cm used with affirmative and negative locative verbs is special, using the same form in both contexts, as listed at the bottom of the table.

It isn't possible to illustrate all the possibilities, but the following examples are given in the order of the contextual forms as listed in Table 5.1.

- (8) PM P_{tr} CM
 --- Mí híí ú. (3-126)
 I want F-I (I want to, or: I agree.)
- (10) PM P_{desid} O₃ CM
 Ø sén lààlí bab- bí né. (3-89) She likes-NEG going field-to F-I-NEG (She doesn't like going to the field (to work).)

(11) PM P_{tr} O₁ CM -- ------- --Ø kó kebb- i. (3-134) She does trick-F-I (She's inventive.) $PM P_{tr} O_1 IA$ S CM (12)_____ -- -----------Nà'á Ø káń nag kan à'á wu. (4-70A) Mother she holds hand with grandmother F-I (Mother holds grandmother's hand.) (13)S PM P_{tr} O_1 IA CM -- ---- ---------Ø káń nag kan Ìnà wu. (4-70A) Nà'á Mother she holds hand with Ina F-I (Mother holds Ina's hand.) (14) $PM P_{tr} O_1 CM$ --- --- ----Mí hò waa vu yu. I see child pl F-I (I see the children.) PM P_{desid} O₃ (15)Vu híí bi vì wu yu. (4-174) They want they-LOG ask him F-I (It's him they want to ask a question of.) PM P_{desid} O₃ (16)------híí bi vì mí-w. (4-174) Vʉ They want they-LOG ask me-F-I (It's I they want to ask a question of.) S PM P_{sav}tr (17) O_4 ---------- -- --Bà'á_i \emptyset ò bà vún_i híí bi_i vì bi_i- w. (4-178) Papa he says that they want they-LOG ask him-LOG-F-I (Papa says that it's him himself they want to ask a question of.) PM P_{desid} (18) O_3 ------híí bi vì mó yọ. (4-174) Vʉ They want they-LOG ask you F-I

(It's you they want to ask a question of.)

(19) PM C_2 CM ------- ----Ø waa zóó míí nu. (3-24) He child heart my F-I (He's the child I love.) (20)PM P_{tr} O_1 ---------Mí lùù dágá dágá. (3-18) I remove one (I remove one (from) each (pile).) S PM P_{tr} O₁ Man (21)----- ---------Zóó Ø nàm mí wààníì. (3-86) Heart it shakes me much (I'm very troubled.) PM (22)Lo P_{tr} -----____ -----Móń bùù wu-lí. (4-4) zùù You-FUT descend sit-on (eggs) there (You'll go down sit on (your eggs) there.) (23) S PM P_{tr} O₁ Ideo ----- --------Bàbàam Ø úú gà' təəd. (4-9G) Rabbit he blows horn toot. S PM $P_{tr} O_1$ (24)lim ----- --- --- ----Tayii waa vu hò- go 'wààpád. (3-54J) God child they see-him all (All the gods see him.) (25)S PM P_{lo} CM ----- -- -----Bà'á Ø dilí. Papa he is-there-F-I (Papa is here.) (26)S PM P_{lo} CM ---- --- -----Moo Ø pέ- lí. (3-12c) Word it is-NEG- F-I-NEG (There's no reason for a quarrel.)

immediately <u>preceding word:</u> verb personal pronouns <u>mí_{obj}, bi_{obj}, mí_{emp}</u>	FACT-IMPF /ʉ́/ ʉ́	allomorph of <u>/né/</u> FACT-IMPF-NEG
noun qualifying adjectives 1, 2 verbal noun (infinitive)	-ì	né
final emphatic proper name kinship term	wʉ/-ʉ	
plural marker <u>vu</u> final emphatic personal pronouns:	у u	
<u>wu, ba, vó, vu</u>	yu	
<u>mí, ví, ba ví,</u> logophoric <u>bi</u> mó	-W	
<u>m5</u>	УQ	
indefinite adjective possessive (<u>mí</u> series) logophoric possessive (<u>bi</u> series) demonstrative focus morpheme recall morpheme <u>àgà</u> '-self'; <u>bàà</u> 'today';	no	
cardinal numeral ordinal numeral adverb, - <u>ná</u> adverb temporal, locative, telo suffix -lí limiter (<u>'wààpád</u> 'all,' <u>waaná'</u> 'a litr <u>kố íwɔgɔ</u> 'as'; <u>ám</u> 'also' ideophone	(none) tle')	
<u>di</u> 'he is-there' <u>pé</u> 'he isn't-there/isn't'	-lí	
Table 5.1: Contexts and allomorph imperfective clauses	s of clause markers	s in factative
NB: in specific contexts, the follow ú may be realized as: -ú, - ú , ú, - ì may be realized as: -ì, -ì, -è,	ú, -ý, -ý, ý, ý;	

né may be realized as: ní, né; no may be realized as: nu, no.

<u>Assimilations automatic in context</u>: the height of the cm vowel tends to agree with the height of the immediately preceding vowel (see Table 1.7 and the listing at the bottom of Table 5.1).

When the allomorph $-\underline{i}$ is suffixed to a morpheme ending in a consonant, that consonant is doubled if it in turn is preceded by a short vowel: $\underline{k\epsilon b} + \underline{i} \rightarrow \underline{k\epsilon bb} \underline{i}$ (ex. 11).

When the allomorph $\underline{\acute{u}}$ is suffixed to a morpheme ending in a consonant, that consonant is doubled if it in turn is preceded by a short vowel: $\underline{h}_{\underline{i}}' + \underline{\acute{u}} \rightarrow \underline{h}_{\underline{i}}''$, in this case also with assimilation to the nasalization of \hat{i} . Following a morpheme which ends in a vowel, $\underline{\acute{u}}$ is realized by $\underline{\acute{u}}, \underline{\acute{u}}, \underline{\acute{v}}, \phi$, with an unwritten initial glottal stop, and is therefore a separate word in popular literature: $\underline{h}_{\underline{i}}' + \underline{\acute{u}} \rightarrow \underline{h}_{\underline{i}}' \psi$ (ex. 8).

The <u>wu</u> form following final proper names and kinship terms occurs if the name ends in a vowel: $\underline{\dot{a}'\dot{a}} + \underline{wu} \rightarrow \dot{a}'\dot{a} wu$ (ex. 12). If the proper name ends in a consonant, however, the final consonant is doubled and the vowel used is <u>u</u>: <u>Abél</u> + <u>wu</u> \rightarrow Abéllu.

<u>To suffix or not to suffix the cm</u>: clearly the actual form the cm takes in a given context depends on several characteristics of the immediately preceding morpheme. Such a high degree of assimilation to preceding elements in the speech chain might cause the analyst to attempt to write all cm's as suffixes. Phonologically this is a tempting solution, and in certain cases, the cm is suffixed to the preceding morpheme in the accepted Dii orthography, as is seen in the numerous examples cited above.

Grammatically, however, the cm functions in a separate position on the clause level, and this fact can best be stressed by writing the cm as a separate orthographic unit in the clause, i.e., as a separate 'word.' Especially when the cm begins with a consonant, this solution has been adopted.

<u>Exclamations and the cm</u>: exclamations utilize a clause-final exclamative morpheme <u>a</u>, which replaces any final vowel which would have occurred otherwise. An example follows (the ordinary locative ending would be $\underline{y} \ge \underline{y} \ge \underline{$

(27) PM P_{di} I O₁ Lo CM
Vu sà- n ààm kin yè- l- a! (3-119) They dig-me peanut Bambara here-F-I-EXCL (They've dug all my Bambara peanuts up!)

Another exclamative morpheme $-\underline{ii}$, when it closes a clause, also occurs instead of ('replaces') any other final clause vowel. It's used in both affirmative and negative clauses. As with the cm allomorph $-\underline{i}$ 'affirmative,' and \underline{ne} 'negative,' the height of the hesitation morpheme vowel varies according to that of the preceding vowel (see Table 1.7). Examples follow (the ordinary endings would be <u>taanó</u> and <u>pélí</u>):

- (28) f yògo pé- líi! (2-31b)
 Like that is-NEG- F-I-NEG-EXCL (It's like that, isn't it!?)
- (29) Bá' wànbó' zùù tạạn- ée! (2-2)
 Day ten and three-F-I-EXCL ((Was it) 13 days (that I worked)!?)

<u>When to use the cm (and when not!)</u>: it's easiest to describe the negative /né/, because it's obligatory. On the other hand, the analyst is faced with a highly complex set of uses for the affirmative /ú/. If the analyst expects to find a cm after every clause-final verb, noun, possessive,... then suddenly in many cases no affirmative form occurs! Both the presence and the absence of /ú/ have meanings.

First, it's clear that dialogues differ greatly from monologues in $/\frac{4}{4}$ use. It's possible for a whole tale or story to contain not a single case of $/\frac{4}{4}$ (as, for ex., the tale examined in chapter 9) but in conversations, the $/\frac{4}{4}$ forms are frequent. To return to the beginning of section 5.1.1, we can restate the first part of item 4: <u>the lack of $/\frac{4}{4}$ forms helps to signal the ongoing cohesion of a continuous text</u> (a speech, a long quotation, or a story).

For the same reason, most sentence-initial subordinate clauses don't end in an $/\frac{4}{}$ morpheme (see the introductory paragraphs of 7.2).

In the body of the folktale cited in section 9.2, no $/\frac{4}{4}$ forms are found. When I examined a larger sample of texts (the 10 tales listed in Table 9.1), I counted a total of 1,084 clauses, of which 821 could potentially be marked by a clause marker. Of those actually marked by a factative imperfective cm, 64 were negative /né/, and 86 were / $\frac{4}{4}$. However, 70 (81%) of those 86 uses of $/\frac{4}{4}$ were in direct or indirect quotations, which reflects the monologue-dialogue differences just mentioned above. The remaining 16 uses of $/\frac{4}{4}$ will now be examined.

In summary fashion, a continuous text is not expected to display many (any?) affirmative /4/ cm's. When they do occur, however, they seem to do so in the following types of clauses:

a) in direct and indirect quotations (i.e. dialogue);

b) at the end of titles (and subtitles)--see e.g., the title of the tale in section 9.2;

c) at the end of equative clauses--see section 5.1.2, subsection c) and the following example:

(30) PM C CM
Ba ví zig wòò vu yu. (Catechism, no. 66) We incl tribe his pl F-I (We're (members of) his tribe);

d) in cases where the clause is of a 'strong' or 'insistant' nature (imperative, indirect order, subordinate concessive, sentence-final subordinate purpose clause, etc.), or where the sentence-final element is a demonstrative (as in relative or temporal clauses).

<u>A few occurrences of $/\frac{4}{4}$ seem to be linked to only one element</u> <u>WITHIN a clause, not to the clause as a whole</u>. In these cases, the marker places focus and stress on that element. For example:

a) in the introductory expression: <u>moo wood no</u> 'that's why...';

b) as seen above in b), titles and subtitles in <u>written</u> form receive a cm, even though they're not whole clauses; without doubt their occurrence with titles is also linked to focus;

c) these focus forms may co-occur with a normal cm at the end of the clause, for example:

(31)	PM P _{di}	Ι	0		Sb Ca	use	CM-FOC	CM
	Ø kón He does-NEG		3	• 5			míí vʉ yʉ my pl /ʉ/	né. /né/

(He doesn't do this for me because of my good deeds!) (Catechism no. 56a)

	_					C	
(32)	PM P _{tr}	Ο	Man C	M-FOC	Man	CM	
	Ø yìm	vu	yìmné-	è	dágá	né,	ąmáa
	He creates-N	EG them of	creating-/	/ú/	only	F-I-NEG	but
	(He doesn't d	only create	e them, b	ut) (Ca	techis	m, no.62))
(33)	S P	PM P	Ι	CM-FO	C li	miter	
	Dòòká yè 🖇	ð qd	ba ví-	W	'w	aàpád.	
	Law dem	it speaks-	-to us inc	1 /ú/	al	-	

(This rule applies to us all.) (Catechism, no. 36b)

These last 3 illustrations of $/\frac{4}{4}$, whether as modifiers of the whole clause or of only one clause element, show forms of the cm as they are conditioned by the contexts cited in Table 5.1.

Illustration of the focus function of the cm in dialogues is clear in questions. If a question has the form: '<u>What</u> do you see?' (a normal dialogue question), then the answer contains the normal factative imperfective cm allomorphs as indicated in Table 5.1.

But if the question asked (or understood) is specific enough to <u>include</u> the object, and if that object is repeated literally in the answer (and not replaced by a pronoun), then <u>strong</u> focus may be signaled by a form \underline{i} or \underline{o} (instead of $-\underline{i}$, \underline{yu} , <u>no</u>, or one of the other forms in Table 5.1). In addition to strong focus, here there is insistent affirmation that can be translated in English by 'indeed.' See (34a-b) and (35a), as contrasted to the example in (35b).

(34a)	· ·	M5 h ò ligga? Mí hò liggú!	You see (the) house? (5-125) (Yes,) I (do) see (the) house!
(34b)		Míń zò mamma? Móń zò mammó!	Will-I drink water? (Yes,) you-will (indeed) drink water!
(35a)	-	Mó hò waa vʉ áa? Mí hò waa vʉ ʉ́.	You see the children? (5-125) (Yes,) I (do) see the children!
(35b)	-	Mó h ỳ waa vʉ áa? Mí hỳ vʉ yʉ.	You see the children? (5-125) (Yes,) I see them. (normal cm form)

The same insistent affirmation is seen in the following sentence, in which the initial clause is topicalized:

(36)I-TOP S PM P_{di} I O CM ----- -----____ ___ kó hẹn... máa, Tayii wúń kód vu zóó yéé ó. Nán kuu Person sb-they do thing...TOP, God he-FUT do-to them heart red /ú/ (The persons who do (certain) things, God will (indeed) be angry with them.) (Catechism no. 12b)

The 'strong'-natured clauses cited above under d) i.e., imperatives, indirect orders, sentence-final purpose clauses, and clauses with a sentence-final demonstrative, all seem to exhibit the $\underline{\acute{u}}/\underline{\acute{o}}$ -only clause marker strategy that's being described here. This very strong affirmation is sometimes also seen in sentence-initial conditional clauses, for example:

 $(37) \quad PM \quad P_{tr} \qquad O \quad CM \ sb$

Aa híí Tayii ú tée,... If-we love God /ú/ dem (If we (really do) love God,...) (Catechism, no. 14) 5.1.2 <u>Discussions of the nuclei of specific factative imperfective</u> <u>clauses</u>. All clause types have at least two characteristics unique to themselves which contrast them with all other types. These characteristics will be given below in the discussion of each clause type.

The <u>subject pronoun</u> of each factative imperfective clause may be either a \underline{m}_{subj} , a \underline{m}_{fut} , or a \underline{m}_{nonfut} pronoun (3.6.3), and it occurs in the PN-ML-T (person number mood logophoricity tense) position, here generally abbreviated simply PM. In the discussion of the individual clause types below, no further mention will be made of these subject pronouns.

The existence of an optional <u>CM position</u> in each clause type will also be assumed unless specifically mentioned to the contrary.

The <u>subject pronoun</u> is given a separate position PN-ML-T (or PN-ML-TE) in contrast to the noun phrase subject (S) for the following reasons. (The E in the formula PN-ML-T(E) stands for emphasis.)

1) Certain non-nominal morphemes may occur between the noun phrase and the pronoun: <u>ká</u> 'time far past,' <u>ka</u> and <u>bà</u> (subordinators used in several types of subordinate clause), <u>áḿ</u> 'also,' and <u>kà</u> 'hypothetical.'

2) The subject pronoun can accept certain tense suffixes which the plural morpheme in the noun phrase cannot (e.g., \underline{vtn} 'they-FUT'). See the remark by Welmers on subject pronouns and construction markers (1973:380-1).

3) It's possible to have the plural \underline{vu} contiguous to a pronoun subject \underline{vu} , both therefore in a single clause, as in the following example:

(38) Nán í tóó vu kan gbanàà vu, kan dòŋ nàà Man the-one other pl and chief pl and circumcizer chief
vu, vu vé' 'wàa ya lig- í pád. (3-54T) pl they return finish come house-to all (The other people, the chief, and the chief circumcizers, all return home.)

In the above example, there is a pause (potentially, at least), between the two \underline{vu} 's.

The above arguments are sufficient to establish a separate PN-ML-T(E) position in contrast to the noun phrase subject (S) position. But contrast must still be established between the PN-ML-T(E) position and the verb, since the subject pronoun might be a prefix always attached to the verb structure in the clause, as in Fulfulde (Stennes 1967, section 171).

There are two arguments that require the postulating of a PN-ML-T(E) position separate from the verb predicate position (P): 1) As many as two auxiliary verbs may come between the subject pronoun and the verb it's linked with. 2) Even if there is no verb in a given clause (see 5.0.1), there still must be a pronoun subject, as in the following example. Therefore the subject pronoun is not uniquely attached to the verb of the clause.

(39) Vúń nónó. They-FUT 5. (There'll be five of them.)

I would like to argue, from the above evidence, that <u>it's the</u> <u>pronoun subject that is the true nucleus of the Dii clause, not the verb</u>. This is especially clear in the non-verbal clause just mentioned, and is upheld also by the fact that it's the subject pronoun that receives tense suffixes and certain aspectual modifications in the clause. Such a subject pronoun is much more central to the clause than what Grimes calls the 'reprise' of an NP subject (1975:342).

Factative imperfective clauses will be treated in the following order, according to the specific type of transitivity found in each. The simpler forms structurally are treated before the more complex. A résumé of the nuclear structures will be presented in Table 5.2.

SIMPLE CLAUSES--no verbal suffixes in the affirmative

- a) intransitive
- b) descriptive
- c) transitive
- d) object complement
- e) equative
- f) locative

SIMPLE CLAUSES--requiring verbal suffixes in the affirmative

- g) reciprocal
- h) ditransitive
- i) dative = 'psychological'
- j) stative/passive

COMPLEX CLAUSES:

k) desiderative

- 1) inchoative
- m) intentional
- n) introducer (transitive)
- o) introducer (ditransitive)
- p) perception

a) INTRANSITIVE:

The predicate of the intransitive clause contains an intransitive verb phrase, and is followed by no post-predicate nuclear position other than the optional CM position.

Tagmemic formula for the intransitive clause nucleus:

+ PM: $\underline{mi}_{subj/fut/nonfut}$ + P_i:VP_i ± CM:cm

Read: The intransitive factative imperfective clause nucleus consists of a \underline{mi} pronoun (subject, future, or non-future) in the obligatory PN-ML-T slot, an intransitive verb phrase in the obligatory predicate slot, and an optional clause marker tagmeme.

Examples:

- (a1) PM P_i Te Ideo
 Mí tá'ád yąg kà'ạm hím. (3-54N)
 I rise mouth morning early
 (I get up very early in the morning.)
- (a2) PM P_i Lo CM Vu mbàan yigid- í ní. (3-93) They sit-NEG shade-in F-I-NEG (They don't sit in the shade.)
- (a3) Te PM Pi Lo
 Ká bán m5 d5 kíi dà- m tóó wòò-lí. (3-116) Past yesterday you enter concession friend-your one his-in (Yesterday you entered the concession of a friend.)

The accompaniment suffix may occur on only one intransitive verb, so I note this exception and give the following example:

b) DESCRIPTIVE:

(a4)

Descriptive clauses have only a noun or qualifying adjective occurring in their obligatory complement (C_1) position. Their predicate position contains a descriptive verb.

Tagmemic formula for the descriptive clause nucleus:

+ PM: $\underline{mi}_{subj/fut/nonfut}$ + P_{desc}: v_{desc} + C₁:n/qual ± CM:cm

Read as explained above, adding the usual factative imperfective PM and CM tagmemes.

Examples:

(b1)	S PM P_{desc} C_1
	Hààb tèè Ø tii gà' nan. (4-9D) Yam rec it changes horn dough (The yam has changed into a horn of food.)
(b2)	S PM P _{desc} C ₁
	Zum Ø mbàà háadná. (4-35C) Flour it sits/is damp (The flour is damp.)
(b3)	S PM P_{desc} C ₁ CM
	Gà' tóó vʉ tiin gà' nan né. (4-14) Horn other they turn-NEG horn couscous F-I-NEG (Other horns don't turn into horns of food.)
	The accompaniment suffix may occur with the descriptive verb:
(b4)	PM P _{desc} C ₁
	$V_{\rm H}$ mbion dog gbib (4.96D)

Vu mbàan dag gbòò... (4-86B) They are-with neighbor friend (They became good friends.)

c) TRANSITIVE:

The transitive and reciprocal clause types contain an optional direct object position while not permitting an indirect object position. The transitive type, however, may have a pronoun (\underline{mi}_{obj}) in the object (O_1) position, but the reciprocal object (O_2) cannot. In addition, the transitive may have a cardinal numeral as object, while the reciprocal cannot. Either may have a noun phrase as object.

The predicate position of the transitive factative imperfective clause is filled by a transitive verb phrase. The post-verbal auxiliary in the verb phrase often <u>follows</u> the (pronoun) object, resulting in a discontinuous phrase (the two elements of the discontinuous phrase are here joined by the symbol ______):

(c1) $PM P_{tr} O_1 P$ -- ---- $\emptyset... màà vʉ là... (3-126)$ He...finds them goes... (He... finds them...)

When the object is a pronoun, the auxiliary verb generally follows it, as above. A noun object, however, follows the post-verbal auxiliary verb:

(c2) PM P_{tr} O_1 -- --- \emptyset sòò dàà hẹn. (4-9H) He searches passes thing (He searches around for the thing.)

(c3)
$$PM P_{tr}$$
 O_1 CM
 Mi ta'an púg né. (1B32b)
I shoot-NEG animal F-I-NEG (I didn't shoot an animal.)

An example of a verbal noun clause (7.1.3) filling the object position:

(c5) PM P_{tr} O₁ CM Ø gàan nan yúúlí né. (4-35C) She knows-NEG couscous turning F-I-NEG (She doesn't know how to make couscous.)

The accompaniment suffix may occur on a transitive verb root:

(c6) PM P_{tr} O₂ CM (Vu kàb vee) vu ùun púgg-ì. (4-35E) (They light fire) they dry-with meat-F-I (They light a fire and dry meat (i.e., with the fire).)

Tagmemic formula for the transitive clause nucleus:

+ PM: $\underline{mi}_{subj/fut/nonfut}$ + P_{tr}:VP_{tr} ± O₁:NP/card/ \underline{mi}_{obj} /lim ± CM:cm

Read as explained above, adding the usual factative imperfective PM and CM tagmemes.

d) OBJECT COMPLEMENT:

The object complement clause differs from all other factative clauses in that it requires two direct objects (O₂) containing noun phrases or \underline{mi}_{obj} pronouns referring to the same person or object. The only verbs occurring in the object complement predicate (P_{oc}) are 'elect,' 'call,' etc.

Tagmemic formula for the object complement clause nucleus:

+ PM: $\underline{mi}_{subj/fut/nonfut}$ + P_{oc}:call + O₂:NP/ \underline{mi}_{obj} + O₂:NP/ \underline{mi}_{obj} ± CM:cm

Read as explained above, adding the usual factative imperfective PM and CM tagmemes.

An example:

 $(d1) \quad PM P_{oc} \quad O_2 \qquad O_2 \quad CM$

---- ---- ------ ------ ---

Vu yèè Bòbózì gbanàà-ì. (They elect Bobozi chief.)

e) EQUATIVE:

The equative clause has no predicate in the affirmative but contains an obligatory complement (C₂) position filled by a noun phrase, a demonstrative, or a cardinal numeral (root or phrase). In the negative, the verb <u>pé</u> 'is-NEG' occurs just before the clause marker, whose form following <u>pé</u> is -<u>lí</u> (see Table 5.1). A similar structure exists for Gbaya (Noss 1981:69-70), Pere (Raen 1981:161), and Mundang (Elders 2000:282-6).

It's very important to realize that the equative clause is not simply a 'descriptive clause with the verb <u>mbàà</u> understood but suppressed.' Clause (e3) below is equative and needs the verb 'be' only in the English translation. The corresponding sentence with <u>mbàà</u> added is found in (e4), but its meaning is radically different, as shown in the translation.

Tagmemic formula for the equative clause nucleus:

+ PM: $\underline{m}\underline{i}_{subj/fut/nonfut}$ + C₂: $\underline{NP/dem} \pm P_{eq}$: $\underline{p}\underline{\epsilon} \pm CM$:cm card Read as explained above, adding the usual factative imperfective PM and CM tagmemes.

Examples:

- (e1) PM C_2 CM M_1 gà' lòò- \hat{t} . (4-9K)
 - I horn stick-F-I (I'm a horn of sticks.)

f) LOCATIVE:

Locative clauses must contain a locative verb phrase followed by either a locative phrase or by a Complement 3 position containing a cardinal numeral (root or phrase), and/or a unique allomorph -<u>lí</u> of the clause marker /ú/. When the temporal-locative expression <u>wulí</u> 'there' occurs immediately following <u>di</u>, a contraction occurs: <u>duulí</u> 'is-there.'

The negative form of this verb is $\underline{p}\underline{\acute{e}}$ 'isn't-there', occurring just before the clause marker position, whose form is $-\underline{l}\underline{\acute{i}}$, identical to that accompanying the affirmative verb $\underline{d}\underline{i}$.

This type of locative verb is common across sub-Saharan Africa (Welmers 1973, chapter 11; Pike 1970:4-15; Noye 1974:72-5; Tsende 1993:54; Noss 1981:71-2; Wilson 1995), where they are cited for Igbo, Yoruba, Shona, Swahili, Fulfulde, Gbaya, Cameroonian Pidgin English, Krio, Mandinka, Dagbani, and Temne; this list is of course not exhaustive. Mundang has only an affirmative form (Elders 2000:292-4). The form of the negative is often a different root than for the affirmative, as is also the case for Dii.

Tagmemic formula for the locative clause nucleus:

+ PM: $\underline{mi}_{subj/fut/nonfut} \pm P_{lo}:VP_{lo(aff)} \pm Lo:LoP \pm C_3:card \dagger P_{lo}:VP_{lo(neg)} \pm CM:cm$

Read: The locative clause nucleus consists of the usual obligatory PM tagmeme, a locative verb phrase in the obligatory locative predicate slot (which follows the PM tagmeme in the affirmative but precedes the CM tagmeme in the negative), and may have one of the following: a locative slot containing a locative phrase or a complement 3 slot filled by a cardinal numeral; the usual factative imperfective CM tagmeme closes the construction.

Examples:

(f2)S PM P_{lo} Lo ---- ---------____ Gà' Ø di váńní. (4-9N) Horn it is-there granary-in. (f3)S PM Plo C_3 _____ ---Sìg wayée Ø di taanó. (4-36) Luck man it is-there three

(The good luck number for men is three.)

g) RECIPROCAL:

The transitive and reciprocal clauses share several characteristics as already outlined above in c). In addition to those points mentioned above, the predicate position of the reciprocal clause is filled by a reciprocal verb phrase which has a verbal suffix that the transitive verb phrase doesn't have.

Tagmemic formula for the reciprocal clause nucleus:

+ PM: $\underline{mi}_{subj/fut/nonfut}$ + P_{rcp}:VP_{rcp} \pm O₂:NP \pm CM:cm

Read as explained above, adding the usual factative imperfective PM and CM tagmemes.

Examples:

- (g2) PM P_{rcp} ---- Vʉ vá'án. (4-40B) They greet-each-other.

(g3) PM P_{rcp} O_2 Vu mb5g5n hen lálí. (4-15) They fix-for-each-other thing eating (They fix food for each other).

h) DITRANSITIVE:

The ditransitive clause type contains an obligatory ditransitive verb phrase as predicate followed by an obligatory indirect object which is followed optionally by a direct object (O₁). If the indirect object is a pronoun ($\underline{m}i_{obj}$), it's attached to the main verb and thus precedes the postverbal auxiliary, as was seen above with the transitive clause. The indirect object may also be a noun phrase. A noun phrase, a cardinal numeral, a limiter, or a $\underline{m}i_{obj}$ pronoun may occur as direct object.

Tagmemic formula for the ditransitive clause nucleus:

$$+ PM: \underline{mi_{subj/fut/nonfut}} + P_{di}: VP_{di} + I: \underline{NP} \pm O_1: \underline{card/lim} \pm CM: cm$$

Read as explained above, adding the usual PM and CM tagmemes.

Examples:

(h1) S PM P_{di} I O₁ CM --- --- --À- n fạạ vu pú- n gò'òy máa yè no. (3-125) Mother-my in-law they give-me horse foc dem F-I (My Mother-in-law gave me this horse here.) (h2) PM P_{di} Ι O_1 Lo -----------_____ du dòn wu-lí. (4-47E) Vʉ -bćb They circumcize-him circumcision there (They circumcized him there.) Ι (h3) S PM O_1 CM P_{di} --- ------____ ----- ---____ à'á gànn-è. (4-35S) Bà'á Ø là hòd Father he goes consults-for grandmother seer- F-I (Father goes and consults the seer for grandmother.) $I O_1 CM$ PM P_{di} (h4) ---- ---- ----____ ____ mó fóó né. (4-1) Míń vùn I-FUT expose-NEG you body F-I-NEG (I won't embarrass you!)

i) DATIVE:

The dative clause is very close in form to the ditransitive, but its predicate contains a dative verb phrase, and there is no direct object following the indirect object.

The noun subject is usually inanimate, while the indirect object is usually animate, and the verb very often (but not always) could be termed 'psychological,' i.e., describing an emotional state or attitude (cf. Clements 1975:162). This type of verb in Mundang is labelled 'objet d'expérience' by Elders (2000:322-3).

Tagmemic formula for the dative clause nucleus:

+ PM: $\underline{mi}_{subj/fut/nonfut}$ + P_{dat}:VP_{dat} + I:NP/ \underline{mi}_{obj} ± CM:cm

Read as explained above, with a dative VP in the dative predicate, an indirect object like the ditransitive, and the usual PM and CM tagmemes.

Examples:

(i1) PM P_{dat} I Man --- -----Ø tood vó mbàà ná'. (3-55) It pleases us sits like-that (It pleases us very much.) (i2) S PM P_{dat} I ----- -- ----- --Hód Ø mbààd- u... (4-21) Grass it sits-for-him (Grass is (in) his (eye).) I CM (i3) S PM P_{dat} --------- ------- --gèen m5 né. (3-140) Kəm siń Meat it-FUT lack-for-NEG you F-I-NEG (You'll never lack meat.)

j) STATIVE/PASSIVE:

This clause type closely resembles the intransitive, but its predicate contains a stative/passive verb. Occasionally it's also possible to have an indirect object following this type of predicate, in addition to the normal optional CM position. The term 'stative/passive' here is used to mean that the action of the predicate is self-contained. For example, it can be said in Dii: <u>Bab</u> <u>báyyú</u>, '(the) field cultivates-itself.' This corresponds quite closely to the passive meaning of the French reflexive personal pronoun: le champ se cultive. It's not possible to refer to the real agent performing the action in the predicate, which therefore brings a 'stative' or what can be called a 'non-agentive' meaning (cf. Grimes 1975:97, 332-3, 353). Welmers (1973:341) uses the term 'stative' to refer to this type of verb in Niger-Congo languages.

Tagmemic formula for the stative/passive clause nucleus:

+ PM: $\underline{mi}_{subj/fut/nonfut}$ + P_{stv}:VP_{stv} ± I:NP/ \underline{mi}_{obj} ± CM:cm

Read the same as for the intransitive nucleus except for the stative/passive verb phrase in the stative/passive predicate, and the possibility of an indirect object (noun or pronoun).

Examples:

- (j1) S PM P_{stv} CM Zè' Ø ma'ay- ú. (4-35L) Fish it is-caught-F-I
- (j2) S PM P_{stv} I Lo
 Néý Ø vbáy- yʉ vəg- í. (4-68) Bone it is-stuck-for-him throat-in (The bone is stuck in his throat.)
- (j3) PM P_{stv} Emph Lo CM
 Vu nə'əyn vòò tíń tayii Ba'ál wòò-lí né. (Rom. 11:4) They bow-NEG they before god Baal him-to F-I-NEG (They didn't bow down before the god Baal.)
- (j4) S PM P_{stv} CM
 Hààb Ø gəy né. (4-9I)
 Wild-yam it breaks-NEG F-I-NEG
 (The wild yam didn't break.) Note the -<u>n</u> normally with the verb is absorbed by the following <u>n</u> here in the flow of speech.

COMPLEX CLAUSES

At this point a question in analysis and levels of structure is raised, since many linguists automatically assign multi-clausal structures to the 'sentence level.' Longacre, for example, (1964:131, 1980:156) would evidently prefer assigning all the complex clauses in this subsection to the sentence level.

Pike (1970:9-11) refers to structures such as my 'simple clauses' a to j above as 'independent' clauses, and terms such structures as my 'complex clauses' below as 'dependent basic clause types.' Pike and Pike (1980:354-6) also allow direct and indirect quotations and other clausal non-quotation 'undergoers' of the main verb to be treated as terms within clauses, while still referring to 'the total--quotation plus setting--... as a unitary clause root' for example (p. 355).

I have a special reason for (at least temporarily) retaining these complex clause types in the clause level, since a CM slot in these clause types is tied to the main clause verb <u>despite</u> the presence of an intervening direct or indirect quotation (or other object clause or complement). This is true at least when the embedded clause is rather short, so I think the basic argument for retaining these complex clauses in their current position is valid.

However, when the direct quotation becomes longer, any CM position occurring at the end of the (set of) constructions will refer to its own local clause, not to the Introducer clause. It's not yet clear, however, where the break comes in the Dii language between 'short enough' and 'too long' in the clauses embedded in these complex clause structures.

Among these complex clauses, the perception clause is the only one seemingly without a CM position. This will be discussed further below.

k) **DESIDERATIVE**:

Desiderative clauses contain either a subordinate desiderative clause, a verbal noun clause, or an imperative clause or sentence, one of which must fill the obligatory object (O_3) position. The predicate position contains a desiderative verb (3.8.9).

Tagmemic formula for the desiderative clause nucleus:

+ PM: $\underline{mi}_{subj/fut/nonfut}$ + P_{desid}: v_{desid} + O₃: $\underline{VN Cl/Sb Desid} \pm CM$:cm Impv Cl/Sent

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Read as explained above, adding the usual PM and CM tagmemes.

Examples: PM P_{desid} (k1) O_3 Mí híí ì dùù o- n tóó. (3-54I) I want you-IMPV follow tell-me other (I want you to repeat that.) (k2) PM P_{desid} O_3 _____ ---- -----Mí híí àm yaa mó là mbàà míí-lí. (3-142) I want you-IMPV come you go sit me- at (I want you to come remain at my house.) (k3) $PM P_{desid} O_3$ CM --- ---- --------Mí híí sààm telí- i. (4-35B) I want clothes to-wash-F-I (I want to wash clothes). ¬ C P_{desid} O₃ CM (k4) PM ____ _____ ---Mí dùù sén- no hòlé né (4-47L) Ι follow want-NEG him seeing F-I-NEG (I don't want to see him ever again.)

1) INCHOATIVE:

Inchoative clauses contain an obligatory complement (C_4) position containing a verbal noun clause. The predicate contains an inchoative verb phrase, and occurs only in the affirmative. Dii inchoative clauses express either a progressive or an incipient action: 'he's drinking' or 'he's about to drink.' In the example below, however, the auxiliary verb <u>bàà</u> makes only the former sense possible.

Tagmemic formula for the inchoative clause nucleus:

+ PM: $\underline{mi}_{subj/fut/nonfut}$ + P_{inch}:VP_{inch} + C₄:VN Cl ± CM:cm

Read as explained above, adding the usual PM and CM tagmemes.

Examples:

(11)PM Pinch C_4 -----__ _____ bàà di dòò zòlí. (3-143) Ø He continues is-in-process-of wine to-drink (He's drinking wine.) (12)PM Pinch C_4 rel Míń digi nòoné ám. (4-47E) I-FUT am-in-process-of-him killing also (I'll also kill him.) (13)S PM Pinch C_4 ---- --m tóó vu di hạg Mbùù wòò kààlé. (4-47I) Dà-Neighbor-your other they are-in-process-of stomach Hyena his squeezing (Some of your neighbors are squeezing Hyena's stomach (to get some honey out).) C4 C. CM (14)Te₁ PM P_{inch} -----Sèỳ 'wààpád Ø bàà diddu púg ma"é- è. (3-141) he habitual is-in-process-for-him animal catching-F-I Time all

(He [Lion] was habitually catching animals for him [a man].)

m) INTENTIONAL:

The intentional clause type has a unique obligatory complementas-goal (CG) position containing a verbal noun clause. The 'goal' shows the purpose or intention behind the motion expressed by the intentional predicate (which contains an intentional verb phrase).

Tagmemic formula for the intentional clause nucleus:

+ PM: $\underline{mi}_{subj/fut/nonfut}$ + P_{int}:VP_{int} + CG:VN Cl ± CM:cm

Read as explained above, adding the usual PM and CM tagmemes.

Examples:

(m1) PM P_{int} CG CM Mí làà vʉ nɛné- è. (3-141) I go them to-chase-F-I (I go (in order) to chase them.) (m2) PM P_{int} CG
Ø dòg waa kəşəlé. (2-73)
She goes-up child giving-birth (She goes up to give birth (at the hospital).)
(m3) PM P_{int} CG CM

Mí làan ba'ad kólí né. (4-14) I go-NEG work doing F-I-NEG (I'm not going to work.)

n, o) INTRODUCER (TRANSITIVE AND DITRANSITIVE):

Transitive introducer clauses have an <u>optional</u> predicate containing a transitive 'verb of saying' phrase. This is followed by a direct quotation, an indirect quotation, or an indirect order as direct object (O_4). In this clause and the ditransitive introducer clause type, optional manner, locative, simile or instrumental-accompaniment positions <u>precede</u> the quotation or speech.

The ditransitive introducer clause has an obligatory indirect object identical with that of the ditransitive and dative clauses, followed by a direct object (O_4) position identical with that in the transitive introducer clause. Its obligatory predicate contains a ditransitive 'verb of saying' phrase.

Tagmemic formula for the transitive introducer clause nucleus:

+ PM: $\underline{mi}_{subj/fut/nonfut} \pm P_{say}tr: VP_{say}tr + O_4: \underline{Dir/Ind Quo} + CM:cm$ Ind Ord

Read as explained above, adding the usual PM and CM tagmemes.

Tagmemic formula for the ditransitive introducer clause nucleus:

+ PM:
$$\underline{mi_{subj/fut/nonfut}}$$
 + P_{say}di:VP_{say}di + I:NP/ $\underline{mi_{obj}}$ + O₄: $\underline{Dir/Ind Quo}$ + CM:cm
Ind Ord

Read identically with the transitive introducer type except that the predicate is obligatory and contains a ditransitive verb of saying phrase, and that there is an obligatory indirect object slot filled by a noun phrase or a $\underline{m}i_{obj}$ pronoun.

Examples:

- (n2) PM P_{say}tr O₄
 Vu tàà bà bin dùù nùỳ nan tóó. (4-9J) They think that they-nonfut-LOG follow find dough other (They thought they would get more food.)
- (o1) S PM P_{say}di I O₄
 Gà' Ø od- du «Mí gà' nann- è.» (4-9E) Horn it says-to-him, 'I horn dough-F-I' (The horn said to him, 'I'm a horn of food.')
- (o2) PM P_{say}di I O₄ CM Mí on m5: «Àm yaan míí-lí» ní. (4-15) I say-NEG-to you: 'You-IMPV come-NEG me-to' F-I-NEG (I didn't say to you: 'Come to my house.')

An interesting feature tying the direct quotation to the introducer clause above is the automatic negative agreement of the verb <u>yaa</u> in the embedded clause despite the imperative construction and despite the affirmative meaning retained by the embedded verb!

(03)	PM P _{say} di I	Lo IA	O_4	
	I say-to them	village-in and wi	ếể ủu lúú là fe they-IMPV leave age that they should l	go IMPV
(04)	PM P _{say} di I	O ₄		
	He says-to Lio	e mbìgì wòò bà n hammer his tha nat his (i.e. Lion's)))

p) PERCEPTION:

The perception clause type contains an obligatory predicate filled by a perception verb phrase followed by an obligatory object (O_5) position containing a factative (imperfective or perfective) clause. The clause marker position occurs <u>only</u> in the subordinate object clause, not in the independent introducer clause. In addition, the perception predicate is always affirmative, never negative.

Tagmemic formula for the perception clause nucleus:

+ PM: $\underline{mi}_{subj/fut/nonfut}$ + P_{perc}: VP_{perc} + O₅:Fact (Perf,Impf) Cl

Read as explained above, adding the usual PM tagmeme.

An example of the perception clause:

(p1) PM P_{perc} O₅
Ø nùỳ Kpoo Ø noo sú'ú. (4-9N) He finds Baboon he dies F-P (He found Baboon dead already.)

(p2) PM P_{perc} O₅
 Mí hộ bà'á Ø bíńda hẹnn- è.
 I see father he writes something-F-I (I see father is writing something.)

SIMPLE CLAUSES--no verbal suffixes in the affirmative

Intr	$= +PM + P_i$	$\pm CM$
Desc	$= + PM + P_{desc} + C_1:n/qual$	$\pm CM$
Tr	= + PM + P _{tr} \pm O ₁ :NP/card/lim/ $\underline{m}\underline{i}_{obj}$	$\pm CM$
Obj Comp	$= +PM + P_{oc} + O_1: \frac{NP/card}{lim/\underline{m}\hat{1}_{obj}} + O_1: \frac{NP/card}{lim/\underline{m}\hat{1}_{obj}}$	±CM
Eq	= + PM + C ₂ :NP/dem/card $\pm P_{eq}$	±CM
Loc	= + PM $\pm P_{lo(aff)} \pm (\pm Lo:LoP \pm C_3:card)$ $\dagger P_{lo(nd)}$	$eg) \pm CM$

SIMPLE CLAUSES--requiring verbal suffixes in the affirmative

Rcp	= + PM	$+P_{rcp} \pm O_2:NP$	$\pm CM$	
Ditr	= +PM	+ P_{di} + I:NP/ \underline{mi}_{obj} ± O ₁ :NP/card/lim/ \underline{mi}_{ob}	$_{\rm oj}\pm {\rm CM}$	
Dat	= +PM	$+P_{dat}$ $+I:NP/\underline{mi}_{obj}$	±CM	
Stv	= +PM	$+P_{stv} \pm I:NP/\underline{mi}_{obj}$	$\pm CM$	
COMPLEX	CLAUSES			
Desid	= + PM	+ P _{desid} + O ₃ : <u>VN Cl/Sb Desid</u> Impv Cl/Impv Sent	±CM	
Inch	= +PM	$+P_{inch}$ +C ₄ :VN Cl	±CM	
Int	= +PM	$+P_{int}$ +CG:VN Cl	±CM	
Intro _{tr}	= +PM	$\pm P_{say}tr + O_4$:Dir Quo/Ind Quo/Ind Ord	±CM	
Intro _{di}	= + PM	$+ P_{say}di + I:NP/\underline{mi}_{obj} + O_4:\underline{Dir/Ind Quo}$ Ind Ord	±CM	
Perc	= +PM	+P _{perc} +O ₅ :Fact (Perf/Impf) Cl		
Table 5.2: Nuclear positions in independent factative imperfective clauses				

The following is a sample 'quickie' listing of factative imperfective clauses illustrating the contents of Table 5.2:

SIMPLE CLAUSES--no suffixes in the affirmative:

a)	Intr	Waa vʉ lúú ú.	The children leave.
,		Mí tá'ád yạg kà'ạm hím. I	get up very early in the morning.
b)	Desc	Hààb tèè Ø tii gà' nan.	
í		The yam	has changed into a horn of food.
		Zum Ø mbàà háadná.	The flour is damp.
c)	Tr	Mí kó hẹn lálí.	I'm giving a banquet.
d)	Obj Comp	Vu yèè Bòbózì gbanààì.	They elect Bobozi chief.
e)	Eq (aff)	Mí gà' lòòì.	I'm a horn of sticks.
,	(neg)	Míi pélí.	It's not me!
f)	Loc(aff)	Gà' Ø di váŋŋí.	The horn is in the granary.
,	(neg)	Gà' tóó Ø váŋŋí pélí.	There's no horn in the granary.
SII	ΜΡΙΕ ΓΙ Δ	USESrequiring suffixes in	n the affirmative:
	Rcp	Vóń líń ą́m.	We'll destroy each other also.
-	Ditr	Vu kód bà'á ba'adì.	We work for Papa.
п)	Ditti	Vụ pún gò'òy máa yệ nɔ.	They gave me this horse here.
i)	Dat	Yéé vụ toọd vó mbàà ná'.	Songs please us very much.
j)	Stv	Zè' Ø ma'ayú.	The fish is caught.
J	511		The fish is caught.
CC	OMPLEX C	LAUSES:	
k)	Desid	Mí híٍí ì dùù ọn tóó.	I want you to repeat that.
		Mí híí bi làà kaalí.	I want to go to town.
		Mí híí yéé tóó vu mbóggíi.	I want to create more songs.
1)	Inch	Bà'á Ø di dòò zòlí.	Papa is drinking wine.
		Vʉ kậń ba'ad kólĤ.	They just simply began working.
m)	Int	Mí làà vu nenéè.	I'll go chase them.
n)	Intro _{tr}	Vu ò: «Vó nòo púg»	
		They	v say: 'We've killed an animal'
		Bà'á Ø ỳ yógó bà bíń làà ka	aalí.
		Papa says	s that tomorrow he'll go to town.
		Bà'á Ø ò bà ùu nàà nábbì.	-
			Papa says that they should danse.
0)	Intro _{di}	Gà' Ø oddu: «Mí gà' nann	è.»
		The horn s	said to him: 'I'm a horn of food.'
		Vu od bà'á mbìgì wòò bà v	v u yè no.
		They told	l Papa that his hammer was here.
		Vu çd nán vu ùu nàà nábbì	. They told the people to danse.
p)	Perc	Vu nùỳ Kpoo Ø nɔɔ sú'ú.	They found the baboon had died.
		Mí hộ bà 'á Ø bínda hẹnnè.	I see Papa writing.

5.1.3 <u>Summary table of the nuclei of factative imperfective</u> <u>clauses</u>. The following simplifications have been incorporated into Table 5.2 to avoid using space for redundant information:

- 1. + PM stands everywhere for the composite: + PN-ML-T: $\underline{m}i_{subj/fut/nonfut}$
- 2. \pm CM stands everywhere for: \pm CM:cm
- 3. $+P_{tr}$ (or whatever transitivity subscript) stands for the fuller:
 - $+P_{tr}:VP_{tr}$, since the subscript is identical for both P and VP.
- 4. Clause titles on the left side of the table are all abbreviated.

5.2 PERIPHERAL POSITIONS

The following peripheral positions are to be added to the consideration of factative imperfective clauses. (Several other possible peripheral positions have not yet been fully documented and so aren't yet included here, e.g. the 'cause' and the 'topicalization' positions.)

Temporal 1	(Te_1)	Subject	(S)			
Temporal 2	(Te_2)	Locative	(Lo)			
Manner	(Man)	Simile	(Sim)			
Ideophone	(Ideo)	Instrume	ntal-Accompaniment (IA)			
All of these	peripheral positi	ons are opt	ional, and are marked with a \pm .			
For $\pm emph$	For ' \pm emph', see section 5.1.1, example (5) and discussion there.					

Factative imperfective clauses may be divided into three categories:

- 1) those which may contain pre-PM and post-P (post-predicate) peripheral positions,
- 2) those which may contain pre-PM peripheral positions, but only a limited number of post-P peripheral positions,
- 3) those which may contain only pre-PM peripheral positions.

Following is the list of clauses belonging to each category:

- (a) Category A (pre-PM, post-P): intransitive descriptive locative transitive reciprocal ditransitive dative stative/passive
- (b) Category B (pre-PM, limited post-P): introducer_{tr} introducer_{di}
- (c) Category C (pre-PM only): equative desiderative inchoative intentional perception

Each of the above categories will now be discussed in detail.

<u>Category A</u>: The following is a compilation of the positions in these clauses (the Te_1 and Te_2 positions are marked especially to show that only one may occur in any given clause, not both):

(a)
$$\pm Te_1 \pm S + PM + P I O/C$$
 $\dagger Te_2 \pm Lo \pm IA \pm Man \pm Ideo \pm Sim$
 $\downarrow - - - - - \uparrow$
 $\pm CM \pm emph$

The ideophone position may occur before or after the simile position.

<u>Category B</u>: As already noted in 5.1.2 under the discussion of the introducer clauses, Man, IA, Sim, and Lo positions are found to <u>precede</u> the object 4 position, i.e. precede the direct or indirect quotation, or the indirect order. A composite chart of occurring positions is thus as follows:

(b) $\pm Te_1 \pm S + PM P I \pm Lo/Man/IA/Sim + O + CM \pm emph$

<u>Category C</u>: When no post-predicate peripheral positions are possible, the composite chart is as follows:

(c) $\pm Te_1 \pm S + PM P + CG/C/O \pm CM \pm emph$

In category C, the post-predicate peripheral positions occur within the verbal noun clause (in the C or O positions), not in the independent introducer clause.

Table 5.3 shows all the peripheral positions and the phrases which have been found to occur in each.

Some examples of factative imperfective clauses containing peripheral positions follow, all from category A.

Te ₁	S	Te ₂	Lo	IA	Man	Ideo	Sim
	PNP any NP ÍP _{mod} ÍP _{aga} TeP _{gen} card te		LoP _{lí} LoP _{telo} LoP _{dble} RAP _{yúú} NP _{ya}	RAP _{kan}	$\begin{array}{c} RAP_{kan}\\ adv\\ adv_{n\acute{a}} \end{array}$	IdeoP	RAP _{sim}
Table 5.3: Phrases and roots occurring in peripheral positions in factative imperfective clauses							

S PM P_{tr} O₁ IA Ideo (a1) ----- ----- -----Bàbàam Ø vàà kíd kan yúú kpag. (3-123) Rabbit he hits tar with head kpag. Te₁ PM P_{di} I O_2 (a2) ----- ----- -----À'a yè máa mó mà'a-n doo. (3-123&4) Time dem foc you grab- me foot (Now you've grabbed my foot!) (a3) $PM P_{tr} O_1 Man$ Ideo ^ _____ -- ---Ø kè dug í yògo wəg wəg wəg wəg wəg.(3-146&4-1) He runs race like that w.w.w.w.w. (He runs tiredly.) чС (a4) PM P_{tr} O_1 Sim CM -- -----Ø mòon moo kón í nánán wɔgɔ né. (3-51) He speaks-NEG word like-NEG the-one man like F-I-NEG (He doesn't speak like a man.) $PM P_{tr} Te_2 O_1 CM-Q$ (a5) --- --- ----Ví kó bàà èn- á?(4-40A)You do today what- Q (What did you do today?) (a6) PM P_{di} I Lo --------- ------____ Míń púgu nag- á. (3-110) I-FUT give-to- him hand-in (I'll give (it) to him in (his) hand.) PM P_{tr} Р O_1 Lo IA (a7) _____ ---____ ---Vu gbò vu là hóg tíń-gòò-lí kan nán tùlí vòò vu.(3-54T) They leave them go bush in-it- in with man guard their pl (They leave them in the bush with their guardians.)

5.3 ENCODING IDEAS IN STRUCTURES

At point after point in this work I've tried to explain the ideas encoded in the structures of the Dii language. This has usually been done by positive, descriptive techniques rather than by negative comparisons with other languages. It may be useful at this point to back off and get an overview of how certain ideas are structuralized in Dii compared to other languages. In this section I'll assume that the reader is already familiar with the contents of chapters 3 and 5, so technical terms won't be redefined here.

Some major ideas will now be tied to the nuclear clause positions in Dii that encode them:

subject pronoun: 1) person

- 2) number
 3) tense (atemporal, future, non-future)
 4) mood FACT, IMPV
 5) mood HYP (present, past)
 6) (in)dependence of the clause
 7) emphasis
- 8) logophoricity

verb (or lack of one!):

- 1) polarity (affirmative, negative)
- transitivity (i.e. reciprocity, presence/absence of an indirect or direct object or other complement, repetitivity, stativity/passivity, etc.)

object or complement (noun or pronoun):

- 1) person
- 2) number
- 3) emphasis
- 4) logophoricity
- clause marker: 1) mood/aspect FACT, IMPV, PERF, IMPF 2) polarity (affirmative, negative) 3) question-answer context
 - 4) clause ending (spoken punctuation)
 - 5) position within larger context

The ideas above are like threads woven here and there through various sections of the preceding chapters; they're drawn together in the above list to show succinctly at what point(s) each is encoded in Dii nuclear clause positions.

Only one of the four nuclear clause positions listed above has a comparable function in Indo-European structures: the object (or complement) position. The other three nuclear positions in the clause must be redefined in major ways when compared to Indo-European structures. The following contrasts should be noted.

1. Many grammarians and linguists today assume that <u>mood/aspect is usually signaled by the verb</u>. In Dii, however, mood/aspect is almost entirely signaled by the subject pronoun and the clause marker. The subject pronoun indicates not only the person and number of the subject, but tense (atemporality, future, non-future), mood (factative, imperative, hypothetical), and the dependence or independence of the whole clause.

2. It's also often assumed that <u>the central element around which a</u> <u>clause is formed is the verb</u>. In Dii it's the subject pronoun, and many clauses are verbless. The verb, when present, signals polarity (affirmative, negative); and in conjunction with the various types of objects and complements, it signals the different types of transitivity.

3. <u>Subject noun phrases</u> are often treated as highly important to the description of clauses; in Dii they're relegated to the role of an optional expansion of the subject pronoun, and again it's subject pronouns that are syntactically prominent.

4. The <u>passive</u> voice is hardly used at all in Dii, and is not a separate voice; it's treated as one of the subcategories of transitivity, and is linked tightly to stativity.

5. <u>The clause marker</u> is unknown in Indo-European languages, but bears a heavy syntactic and discourse load in Dii. It's the main signal of polarity (affirmative, negative) in the clause, helps to signal mood/aspect, signals certain contextual question-answer relationships, helps to signal the continuous cohesion of an ongoing story, and often serves as a sort of 'spoken punctuation' in its clause.

If the reader wishes to examine any of these threads more in detail, the following list of section references will be useful. To be more complete, some references here are to portions later in this work, not just to preceding sections.

clause ending--3.15, 5.1.1, 7.4 clause marker--3.15, 5.1.1, 5.4, 7.1.2, 7.2, 7.4 emphasis--3.6.1, 3.15, 7.5 (in)dependence of the clause--3.6.1, 4.13, 5.0, 7.2, 8.1, 8.4 logophoricity--3.6.1, 3.7.5b, 7.3 mood/aspect--3.6.1, 5.0, 5.0.1., 7.0 negativity--3.8.1., 3.8.3, 5.1.1 number--3.6.1, 3.8.8, 3.8.10, 8.1 person--3.6.1, 3.8.8, 3.8.10, 8.1 question-answer context--5.1.1 subject pronoun--3.6.1, 5.1.2, 5.4, 7.1.2, 7.1.4, 7.2, 7.3, 8.1, 8.4 tense--3.6.1 transitivity--3.8, 5.0.0, 5.0.1 within a continous text--5.1.1

5.4 FACTATIVE PERFECTIVE CLAUSES

The entire set of factative imperfective clauses as laid out in sections 5.1 and 5.2 may be used as a basic set from which whole new sets of clauses may be rather easily and efficiently described by means of a few rules. The 'other half' of the factatives (i.e. the perfectives) is very easily described via reference to the imperfective set.

The following transitivity categories from factative imperfective (left column) have been attested in the factative perfective (right column). An 'x' means the clause is attested in unelicited text, while a 'z' means it was in elicited material.

FACT IMPF FACT PERF

Intransitive	Х
Descriptive	Х
Transitive	Х
Object Comp	Z
Equative	Х
Locative	Х
Reciprocal	Х
Ditransitive	Х
Dative	Х
Stative/passive	Х
Desiderative	Х
Inchoative	Х
Intentional	Х
Introducer _{tr}	Х
Introducer _{di}	Ζ
Perception	Х

The following are the characteristics of the factative perfective mood/aspect:

1) its perfective clause marker;

2) the distinctive order in which certain allomorphs of this clause marker occur;

3) its obligatory clause marker which is also always retained in subordinate clauses derived from it, in contrast to the cm of the factative imperfective forms (5.1.2 and 7.2).

The meaning of this mood/aspect is the completedness of an action or state. Often this action took place in the recent past, but completedness here must not be confused with tense (atemporal, or future vs. non-future), which is expressable in the PN-ML-T composite position. See section 5.1.0 for a full definition of perfective in contrast to imperfective.

Since it's the viewpoint of the Dii speaker that determines what is 'completed,' even a future event may be spoken of by using the perfective. Thus: 'Tomorrow I'll leave on the bus already,' where the perfective clause marker is, as often, translated 'already' by informants (or 'déjà' in French).

There are two factative perfective clause markers: $/s\dot{u}'\dot{u}/$ 'affirmative' and $/s\dot{i}...n\dot{e}/$ 'negative.' These forms are chosen as 'titles' for these morphemes because they're the most frequent allomorphs attested in unelicited text for each of the two morphemes in question.

The morpheme $/s\dot{u}'\dot{u}/$ has several allomorphs: $\underline{s\dot{u}'\dot{u}}, \underline{s\dot{i}}, and \underline{s\dot{i}...\pm/\dot{u}'}$. In several hundred pages from my data notebooks and published Dii texts, $\underline{s\dot{u}'\dot{u}}$ was found 401 times, $\underline{s\dot{i}}$ alone 121 times, and $\underline{s\dot{i}.../\dot{u}'}$ only 55 times. Only a little can be said at present about when or why one of these allomorphs is chosen in any given context rather than another. Compared to the rather tight contextual rules tied to the imperfective affirmative clause markers, a speaker seems to have much more freedom to choose which perfective forms to use in any given context. The three tendencies formulated below seem, however, to be valid generalizations.

1) The allomorph \underline{st} (alone) is almost never used at the end of the clause in the CM position; it usually appears clause medially and is thus followed by one or more other clause components.

2) The form $\underline{sti't}$ (or its interrogative variant $\underline{sti'a}$) appears only clause-finally, and although virtually any clause component may be found immediately before it, there's a clear preference for $\underline{sti't}$ to appear: a) just after a verb (\pm negative or pronominal suffixes), or b) just after a noun phrase (i.e., an I or O).

In the hundreds of pages from my data notebooks and texts just referred to above, I counted 416 cases of $\underline{s\dot{u}'\dot{u}}$ ($\underline{s\dot{a}'\dot{a}a}$), of which 363 (87.2%) were used following a verb or object noun phrase.

3) In the same data notebooks and texts, the form $\underline{si.../\acute{u}}$ (or its interrogative variants) appears 63 times, of which 29 instances (46%) occurred with an intervening noun object phrase. Many other morphemes may appear between the two parts of this discontinuous form, but locative expressions are the most frequent. When $\underline{si.../\acute{u}}$ is used, the / \acute{u} / portion shows allomorphs in context like the factative imperfective clause marker / \acute{u} / as summarized in Table 5.1. The '...' here means: 'there

must be some intervening morpheme between these elements for this allomorph to be used.'

A full listing of the number of $\underline{s\acute{u}'\acute{u}}$ and $\underline{s\acute{1}.../\acute{u}}$ forms collated with their contexts follows. The left column lists the constructions immediately preceding $\underline{s\acute{u}'\acute{u}}$ or intervening in $\underline{s\acute{1}.../\acute{u}}$, and the second and third columns cite the number of instances found.

	<u>sť'ú (sá'áa)</u>	<u>sí/ú/ (-áa)</u>
verb \pm NEG \pm pr	292	0
noun object (I, O)	71	29
locative (Lo)	16	15
\pm O, inchoative \pm Lo	10	4
emphatic pronoun	0	7
change speaker in cited dialogue	7	0
instrument accompaniment (IA)	6	1
temporal (Te)	5	2
CM FACT-IMPF affirmative	4	0
similitude (Sim)	0	3
manner (Man)	3	1
limiter	2	1
	416	63

Two more forms (\underline{ma} , \underline{may}) are used especially in exclamations. These forms were only found 20 times in the hundreds of pages of notebooks and text referred to in the preceding paragraphs.

The negative perfective clause marker morpheme /s \hat{i} ...n \hat{e} / has the following frequently used allomorphs: $\underline{s}\hat{i}$...n \hat{e} , $\underline{n}\hat{a}$...n \hat{e} , $\underline{n}\hat{a}$...n \hat{e} , and $\underline{n}\hat{e}$...n \hat{e} . The meaning of these forms is as follows: $\underline{s}\hat{i}$...n \hat{e} may mean either 'not yet' or 'not...any longer,' but the other three can only mean 'not yet.' The form $\underline{n}\hat{e}$...n \hat{e} is from the eastern dialect mam n \hat{a} ' \hat{a} , but is now often heard in the Mbé area.

The remaining 2 forms $\underline{la...ne}$ and $\underline{na...ne}$ occur in complementary distribution, $\underline{na...ne}$ occurring only when immediately preceded by an -<u>n</u> or -<u>m</u>, and $\underline{la...ne}$ occurring elsewhere. The examples (fp5) and (fp7) below show that even when the normal negative suffix -<u>n</u> on the verb is absorbed by the first consonant of the cm, the <u>na...ne</u> variant is used, the -<u>n</u> having conditioned its appearance 'before being absorbed' in the rapidity of the speech act. The form <u>la...ne</u> is seen in (fp25) below.

The '...' used in the negative forms means: 'an intervening morpheme <u>may</u> occur here,' but if there's no intervening morpheme, then the two parts of the form occur one after the other: <u>sí né</u>, etc. Note the

differences of meaning for the '...' symbol in the descriptions of the affirmative and negative constructions here!

Examples of factative perfective (fp) clauses follow. An ______ is used to help the reader identify cases where the elements of this clause marker are discontinuous. The reader is also alerted that the symbol ______ c signals concord between the negative clause marker and the automatic negative suffix on the verb.

INTRANSITIVE: (fp1) S PM P_i CM ____ ---- ---------Vìd Ø sà' sú'ú. (4-6) Night it darkens F-P (It's already night.) (fp2) PM P_i CM ---- ---------Mí lúú mà (or mày)! I leave F-P (I (have decided to) leave!) (fp3) PM P_i CM Emph Lo ---- ----- -------Mí lúú sí míí vò! I leave F-P me here (I (have decided to) leave!) (fp4) S PM Pi CM Emph -------- -----Wamndè Ø dàà fíí ya sí wòò. (4-40G) Donkey he passes returns come F-P emphasis (Donkey returns, he does!) (fp5) PM P_i CM PME CM --- ---- --- ----Mí lúu ná míí ní. I leave F-P me F-P-NEG (I haven't left yet.) ηС Г CM (fp6) S PM P_i Relator ____ -------------...sud Ø zùun sí né ám. (4-89X) ...saliva it goes-down-NEG F-P NEG also (...his saliva doesn't go down, either(=he's afraid).)

(fp7) S PM P_i CM ----- ---- ----------Vìd Ø sà'a ndé né. Night it darkens-NEG F-P NEG (It isn't night yet.) **DESCRIPTIVE:** S PM P_{desc} C CM (fp8) ----------Hààb tèè Ø tii gà' sú'ú. (4-9I) Yam that it becomes horn F-P (That yam became a horn.) TRANSITIVE: Γ___ (fp9) PM P_{tr} CM O_1 CM ---- ---- --- ---Mó vùd sí fóó ó. (3-122) You show F-P body F-P (You've 'exposed' = embarrassed yourself.) (fp10) PM P_{tr} CM ___ --------(Ø gbàga púg máa,) Ø mà' sí. (4-48E) (He stalks animal dem,) he catches F-P (He stalks an animal, catches it.) (fp11) PM P_{tr} CM PME O Relator ---- ---- ----- -----Mí híí sí míí siidè ám. (3-46) I want F-P I money too (Me, I want money too!) (fp12) PM P_{tr} O₁ CM Te₂ CM --- ---- --- -- ---Mí màà- wọ sí bàà ú. (3-127) I find- him F-P today F-P (I found him today.) O CM Г (fp13) PM P_{tr} ------- ---wu' ndé né. (2-27) Ø pìn She removes-NEG sauce F-P NEG

(She hasn't removed the sauce (from the fire) yet.) -γ C (fp14)PM P_{tr} ĊM O_1 CM -- ----sí lig wòò né. (3-54A) Mí hòn see-NEG F-P house his F-P-NEG Ι (I haven't seen his house yet.) γС O_1 (fp15) S PM CM P_{tr} ---Nán tóó Ø dùù mbanno sí né. (2-44b) Man other he again overcomes-NEG him F-P NEG (No man could overcome him.) S PM P_{tr} O CM (fp16) ---- ------- ----Hen nii nàà...Ø ta' dug mà! (4-89AA) Monster ... it takes race F-P (The monster flees!) **OBJECT COMPLEMENT:** (fp17) PM P_{oc} O_1 CM O₁ Lo ---____ -----_____ 'yé Bàbàam gbanàà kaa vòòlí Vʉ sú'ú. (5-35) They make rabbit chief village their-in F-P (They made Rabbit chief in their village.) EQUATIVE: С (fp18) Te PM CM CM À'ạ yè vó sí dub fìgg-ì. (3-103) Now here we F-P yam old- F-P (We're now old (i.e. planting) yams.) Г Т (fp19) PM CM C P_{eq} CM ----- ---------Ø sí hààb pé- lí. (5-35) It F-P yam is-NEG-F-P-NEG (It isn't a yam any more [it has become a horn].)

LOCATIVE: (fp20) PM P_{lo} CM Lo IA --- ------ ---Ø di sí bó' kan kaa wakéé...(3-54F) He is-there F-P near and village woman... (He's now near the woman's village...) ___ (fp21) S PM CM P_{lo} CM ---- --- -----Moo tóó Ø sí pé- lí. (3-57) Word other it F-P is-NEG-F-P-NEG (There's no longer a cause for a problem.) **RECIPROCAL**: <u>г</u> _ $(fp22) Te_1 PM P_{rcp}$ CM CM O_2 À'á yè máa ba kóń sí dag gbòò ú. (3-140) Time this foc we-2 do-together F-P neighbor friend F-P (We're now good friends.) _____ Γ----CM PME CM (fp23) PM P_{rcp} --- ----____ Báń dùù hí'ín sí bàà né. (4-86R) We-2-FUT again separate F-P we-2 F-P-NEG (We'll never be separated ever again.) DITRANSITIVE: (fp24) PM P_{di} I CM --- ----------Mó ya pú kéé-m sú'ú. (3-116) You come give wife-your F-P (You gave (it) to your wife.) ----T----(fp25) PM P_{di} I CM O_1 CM --- --- ------- ----___ Mí bèn mó lá la' né. (5-32) I take-NEG you F-P wood F-P-NEG (I haven't cut you wood yet.) OR: Mí bèn mó la' lá né. (5-32)

DATIVE: (fp26) S PM P_{dat} I CM ____ -- --- ---Sém Ø kó- go sí. (4-7) Shame it does-him F-P (He was ashamed.) (fp27) S PM P_{dat} I CM ----- --- ----____ Dúú Ø kó- go sú'ú. (4-2)Fear it does-him F-P (He was afraid.) STATIVE/PASSIVE: (fp28) S PM P_{stv} CM ---- ----_____ Nốố Ø bày sú'ú. (4-11) Eye it is-put-out F-P (The eye is put out (blind).) DESIDERATIVE (+ interrogative): Г CM-O (fp29) PM P_{desid} O CM ---- ---Mó híí òo nòo bi sí yè- láa? (3-54J) You want we-IMPV kill you F-P here-F-P-Q? (Do you want us to kill you here?) INCHOATIVE: (fp30) PM P_{inch} C₄ CM-Q _____ ---- ----_____ Ví di lúúlí sá'áa? (3-54A) You are-in-process-of leaving F-P-Q (Are you leaving already?)

Another seemingly exceptional characteristic of the perfective is that from time to time an 'excess' of perfective signals may be found in a single clause. These might be edited out if a native speaker were preparing a speech, but it's certain that they can occasionally be heard as people speak. Two examples follow.

PERCEPTION:

(fp31) Te PM $P_{tr} CM$ O CM

À'ạ yè máa mó nùỳ sí bết còo dò- mm-ulí máa sú'ú.(3-54J)Now here foc you find F-P grave we bury-you-there dem F-P (Now you've found the grave where we'll bury you.) INTRANSITIVE: (fp32) S PM P_i CM Hẹn míí Ø líd 'wàa sí mà! (5-32) Thing my it ruined finish F-P F-P-EXCL (My thing is completely ruined!)

Another two allomorphs are rare $(\underline{s\dot{u}'\dot{u}} n\dot{e}, and \underline{n\dot{e}} \underline{s\dot{u}'\dot{u}})$, but have been attested a few times in the data I've collected. They seem to occur only in sentence-initial subordinate clauses, where I've found them in subordinate temporal (Sb TeLoC), and hypothetical (Sb Hyp) clauses. An example follows:

(fp33) PM P_{tr} CM Те Sb ____ ___ ----____ _____ À'n hòn né sú'ú péń tée, míń yaa dilí. (5-32) If-I see-NEG NEG F-P first dem, I-FUT come am-there-F-I (If I don't see it, I'll come.)

Factative perfective clauses aren't transformable into the verbal noun mood, but can be transformed into hypothetical clauses. Factative perfective clauses may be transformed into any of five subordinate clause types: temporal-locative-conditional (Sb TeLoC), relative (Sb Rel), desiderative (Sb Desid), indirect quotation (Ind Quo), or hypothetical (Sb Hyp). They may also be made emphatic and/or interrogative. They may have variants which serve as serial component clauses. See chapters 6 and 7 for further details on constructions mentioned in this paragraph.

The distinctive order mentioned above at the beginning of 5.4 for these clause markers concerns the allomorphs whose first component is <u>sí</u>, <u>lá</u>, <u>ná</u> or <u>ndé</u>, for unlike other Dii clause markers, this first component seldom occurs at the end of its clause. In previous sections we've seen a verbal clause structure whose essentials can be summarized as follows, using abbreviations found in section 5.2:

(1) $\pm Te \pm S + PM + P \pm I \pm O \pm Lo \pm IA \pm Man \pm Sim CM$

With an indirect object, Dii speakers prefer to place the first element <u>following</u> a pronoun (Ipr) but <u>preceding</u> a noun (In); the XX's in the following two lines show these placement preferences:

(2a) $\pm Te \pm S + PM + P$ Ipr XX $\pm O \pm Lo \pm IA \pm Man \pm Sim$ CM $\pm Te \pm S + PM + P$ XX In $\pm O \pm Lo \pm IA \pm Man \pm Sim$ CM If there is no indirect object, then speakers prefer using the first element of the cm following a pronoun O (Opr), since the pronouns are attached tightly to the verbal complex. If, however, the O is a noun (On), the first cm element is usually placed <u>before</u> the noun, but it may also be used following the On. In unelicited text I've found almost no cases of this latter 'unpreferred' order, despite the insistance of my informants that it's a fully acceptable usage.

(2b)
$$\pm \text{Te} \pm \text{S} + \text{PM} + \text{P}$$
 Opr $\underline{XX} \pm \text{Lo} \dots \text{CM}$
 $\pm \text{Te} \pm \text{S} + \text{PM} + \text{P} \underline{XX}$ On $\pm \text{Lo} \dots \text{CM}$

Of course it's not difficult to combine (2a) and (2b) if we use "/" to put options side by side.

(3)
$$\pm \text{Te} \pm \text{S} + \text{PM} + \text{P} \text{ Ipr/Opr} \underline{XX} \pm \text{Lo} \dots \text{CM}$$

 $\pm \text{Te} \pm \text{S} + \text{PM} + \text{P} \underline{XX} \text{ In/On} \pm \text{Lo} \dots \text{CM}$

The equative clause is non-verbal in the affirmative, so must be described separately. The first perfective cm element appears between the PM and C positions.

(4a)
$$\pm \text{Te} \pm \text{S} + \text{PM} \quad \underline{XX} + \text{C} \dots \text{CM}$$

Both the equative and locative have special verbs in the negative which occur just before the CM clause-finally.

(4b) $\pm \text{Te} \pm \text{S} + \text{PM} \quad \underline{XX} + \text{C} \dots + \text{P:}\underline{p\hat{\epsilon}} + \text{CM:}-\underline{l\hat{1}}$

It's possible to combine the affirmative and negative structures in a single (oversimplified) description:

(5) $\pm \text{Te} \pm \text{S} + \text{PM} \quad \underline{XX} + \text{C} \dots \pm \text{P:}\underline{p\hat{\epsilon}} - \text{CM}$

The following chart combines what has been explained so far about the various allomorphs of the clause markers found in factative clauses, both perfective and imperfective. The CM titles are between bars / / and the allomorphs are in parentheses.

aspect	negative	affirmative
	· · · · · · · · · · · · · · · · · · ·	'
perfective		$ /s\acute{\mathfrak{u}}'\acute{\mathfrak{u}} / (= \underline{s\acute{\mathfrak{u}}'\acute{\mathfrak{u}}}, \underline{s\acute{\mathfrak{l}}}, \underline{s\acute{\mathfrak{l}}\acute{\mathfrak{u}}}) $
	<u>láné</u> ,	
		+ exclamative $(= \underline{m} \hat{a}, \underline{m} \hat{a} \hat{y})$
	<u>sú'ú né</u> ,	(<u></u> , <u></u>)
	<u>né sú'ú</u>)	
		·
 		<u>lí</u>
imperfective	/né/	/ú/
	<u>né</u>	$\begin{vmatrix} (= \underline{\acute{u}}, -\underline{\acute{l}}, \underline{wu}, \underline{yu}, \\ -\underline{w}, \underline{yq}, \underline{nj}, none \end{vmatrix}$
 	- <u></u>	<u>í</u>
	aspect	perfective/síné/ (= síné, láné, náné, ndéné, sú'ú né, ndéné, sú'ú né, né sú'ú)imperfective/né/ né

For a more complete version of the above chart, see Table 7.2.

CHAPTER 6

SERIAL CLAUSES

6.0 SERIAL CLAUSE DEFINITION

Serial clauses (or clause clusters) rank above regular clauses and below sentences. They're composed of non-serial clauses, but like nonserial clauses, they typically fill positions on the sentence level; see Pike 1970:33-51.

Serial clauses will be described in terms of <u>initial</u> (Init), <u>medial</u> (Med), and <u>terminal</u> (Ter) positions, each of which contains a <u>serial-component</u> clause. One or more of the serial-component clauses contains elements (positions) which are 'shared' with the other serial-component clauses, but each of the component clauses must have its own predicate. Any element that is 'shared' by the other component clauses, including the subject pronoun position, generally occurs only once in a serial clause. See the end of section 6.2 for several examples of serial clauses. One is presented here which has an initial, a medial, and a terminal component, each containing a transitive verb.

(1)	PM	P_{tr}	$O_1 P_{tr}$	P_{tr}	Lo
				gbò z ùù	 w u -lí (3-136)
	1 1v1-		O ₁		·L0
	-	•	- ·	v leave go-do and leave it t	

This type of serial clause is called 'unmarked' by Williamson (in Bendor-Samuel 1989:30), who comments: 'the first verb (in SVO languages)... is fully marked for aspect/tense/polarity, while the others occur as bare stems.' The Dii mood/aspect markings only occur on the subject pronoun; this pronoun is then the 'fully marked' element and is 'shared' by all the verbs in the serial construction.

6.1 SERIAL-COMPONENT VARIANT RESTRICTIONS

The serial-component clauses will be treated as variants of independent clauses which are modified by the fact that they occur in a serial clause. We can thus speak of a transitive factative imperfective clause and of its 'serial-component variant,' for example.

We must now specify which positions are not used (and when) in serial-component clauses, and give a set of rules relating a given independent clause to its serial-component variants.

While most of our attention in this chapter is focused on factative imperfective clauses and their serial-component variants, it should be noted that the factative perfective and imperative moods/aspects also occur (but more rarely) in serial clauses. When they do occur, they follow the same rules that will be outlined in 6.2. Examples are given at the end of section 6.2.

Before discussing which clauses appear in which positions of a serial clause, we must isolate the beginning and the end of each clause. At this point the structure of the Dii clause, especially the subject pronoun and clause marker positions, pose some difficulty for the analyst.

First, the clause marker has no overt form in certain affirmative factative imperfective clauses, whereas its presence would help locate the end of the clause. In addition, when the subject pronoun is in the third singular, it's a zero morpheme, which means that the absence of any other subject pronoun is to be interpreted as 'third singular!' Locating the subject pronoun (person number mood logophoricity tense = PN-ML-T) form is essential for determining where the clause begins. (When the boundaries of a clause are unclear, they may be located more easily by asking a Dii informant to switch the subject to the third person plural, where there is always an overt subject pronoun form.)

Table 6.1 outlines the occurrence limitations of factative imperfective clauses entering into the serial relationship. Some have no corresponding serial-component variants in one or more of the three serial clause positions. Where I found a given serial-component clause in unelicited text, I've marked it on the chart with an <u>x</u>. Many holes on the chart were filled by clauses elicited from informants. These elicited occurrences are marked by a <u>z</u>. A blank space indicates I haven't yet verified that that clause type has a serial-component variant in that position. Insufficient data on the dative clause type cause it to be omitted from Table 6.1 at this time.

clause type	initial	medial	terminal
Intransitive	х	Х	Х
Descriptive	Ζ	Z	Z
Equative			
Locative			Х
Transitive	Х	Х	Х
Reciprocal	Z	Z	Z
Object complement			
Ditransitive	Х		Х
(Dative)			
Stative/passive			
Desiderative			Z
Inchoative	Ζ	Ζ	Z
Intentional	Х	Ζ	Z
Introducer _{tr}			Z
Introducer _{di}			Х
Perception			Ζ
Table 6.1 Occurrence factative in			serial-component variants of ses

6.2 RULES FOR SERIAL-COMPONENT VARIANT CLAUSES

The following set of rules are posited for relating factative imperfective clauses and their serial-component variants. The following positions are most frequent and are presented in a single line to show more concisely the structure of the typical imperfective Dii clause:

Te ₁ S	F	PN-ML-T	Р	Ι	0	Te_2	Lo	IA	Man	Sim	CM
Te PN-ML I Lo Man CM	-T	tempora pronoun indirect locative manner clause n	sub obje	ect		S P O IA Sim	ver nor ins	ninal	redicate object ent acco		ment

1. Te₁, S and PN-ML-T positions may occur only in the initial serial component, being always absent in (but shared with) the following component clause(s).

2. In the position(s) following the initial predicate and preceding the terminal predicate, only certain (nuclear) positions may occur: I, O_1 , O_2 , O_3 , CG, C_2 , and C_3 . Several object positions are distinguishable, and also more than one 'complement' position (C). See chapter 5, especially Table 5.2, for fuller details on where each position occurs.

3. An object position occurring in one clause is not repeated in any of the following component clauses as long as the object is understood to apply for each verb. (A few examples show a noun object is replaced by a pronoun in the following component clause).

4. Lo, IA, Man, Sim, and CM positions may occur only in the terminal component clause, but may (or may not, according to the case) be shared with the preceding predicates.

5. A negative clause marker (and therefore predicate) may occur only if the terminal predicate is negative, in which case one or more of the preceding predicates may also be negative, but an affirmative predicate may not occur between two negative predicates.

The following examples will illustrate the above rules. Broken lines show the sphere of influence of positions 'shared' by more than one component clause. (2) Rules 1, 4: (Initial and terminal: intransitive) PM P_i P_i Te_1 S Lo -_____ kà 'am-é máa nán 'wà apád vu súg yaa sà a-lí. Yágá vag Te₁-----(4-9G) S-----PM-----------Lo Tomorrow mouth morning-in foc man all they gather come village-

square-in

(Tomorrow morning everyone must gather in the village square.)

(She (plural of respect) went to fix me food ('couscous') in the village.)

They leave pot carry leave go-down there (They carry the pot and leave it there.)

(5) Rules 1, 2, 3, 4: (Initial: transitive, terminal: ditransitive)

PM	P _{tr}	O_1	I	P _{di}	Ι	P	Man
ùu PM	y ú ú		•	1 5		•	vaŋná. (3-126)
1 141		~					
							Man

...they-IMPV work dough come carry-to us-2 come fast (...that she (plural of respect) should fix the food and bring it to us fast.) (6) Rule 5: (Initial and terminal: transitive)

Γ----- \mathbf{P}_{tr} PM P_{tr} CM E -------____ _____ hòn né sám. (4-9M) Mí sòò PM------I search see-NEG F-I-NEG at-all (I've looked but haven't found it at all.) NB: the symbol ______ c indicates there is negative agreement between the clause marker and the verb.

Examples of the imperative (<u>IMPV</u>) and factative perfective (<u>PERF</u>) moods/aspects in serial clauses follow.

- (7) PM P_{tr} O₁ P_{tr} CM
 --- -- -- -- -- Àm fắá sààm vu là tè ú. (2-6b)
 You-IMPV gather garment pl go wash IMPV
 (Gather up the clothes and go wash them!)
- (8) PM P_{tr} O_1 P_{tr} CM $\dot{A}\hat{m}$ là bè zè' dè \hat{u} . (2-12b) You-IMPV go take fish dress-out IMPV (Go dress out the fish!)
- Pi Pi (10)PM P_{tr} O_1 CM Lo Ideo _____ -- ------ ----- ------_____ 6àà nóó tớad pèè dii mbàan Ø gàn sí nag-í kənnn. He carries basket eye wide rec stands sits-together F-P hand-in kənnn (4-7) (He holds his large-holed basket and stands there with it in his

hand without putting it down.)

6.3 RELATIVE FREQUENCY OF FACTATIVE IMPERFECTIVE CLAUSES IN SERIAL CONSTRUCTIONS

This analysis wouldn't be complete without some indication of the relative frequency of the clauses under discussion. Table 6.2 is based on the clause file made for my M.A. thesis (Bohnhoff 1968), modified to distinguish also the objective complement and dative constructions.

The first column in Table 6.2 includes negative forms and all independent factative imperfective clauses. Those factative clauses that serve as serial-component variant clauses are tabulated separately in the second column. This chart serves to alert the reader to the importance of serial-component variants in the total picture of clause frequency.

clause type	independent	serial	
erause type	macpendent	Serrar	
Intransitive	97	197	
Descriptive	3	0	
Equative	5	0	
Locative	6	19	
Transitive	144	231	
Reciprocal	1	3	
Object complement	0	0	
Ditransitive	17	21	
Dative	21	2	
Stative/passive	4	9	
Desiderative	13	0	
Inchoative	14	1	
Intentional	7	3	
Introducer _{tr}	31	7	
Introducer _{di}	93	14	
Perception	13	0	
Table 6.2: Frequency	y of independent	factative imper	fective clauses and
serial-cor	nponents in sever	n folktales	

CHAPTER 7

DERIVED CLAUSES

7.0 INTRODUCTION

The whole set of factative imperfective clauses may be regarded as in some sense basic or central to the Dii clause system. This permits the anlayst with a minimum of repetitiveness to describe most of the remaining Dii clauses as 'derived' from the factative imperfective. By applying certain rules to the whole series of factative imperfective clauses in Table 5.2, we arrive in theory at another whole series of perfective clauses, as in 5.4, or of imperative clauses, or of subordinate clauses of several different types. Some of the limitations of this general rule will be discussed in 7.1.1.

In this chapter will be described the characteristics, with examples, for each <u>set</u> of derived clauses, always keeping the factative imperfective mood/aspect as the point of departure unless explicitly stated to the contrary. Only when a position in a derived set of clauses differs from its factative imperfective counterpart will it be mentioned here. All unmentioned positions will be assumed to be identical with those found in the factative imperfective mood/aspect, whether nuclear or peripheral.

Each of the moods about to be described is emically contrasted with the other moods, differing both in meaning and in form; each set of subordinate clauses contrasts with all other sets of subordinate clauses and with each mood; and the variations need for emphatic and interrogative constructions are described last.

The main lines of derivation may be diagrammed as in Figure 7.1. --Factative imperfective (FACT-IMPF) clauses may be transformed into a)-any mood/aspect (FACT-PERF, VN, IMPV, HYP),

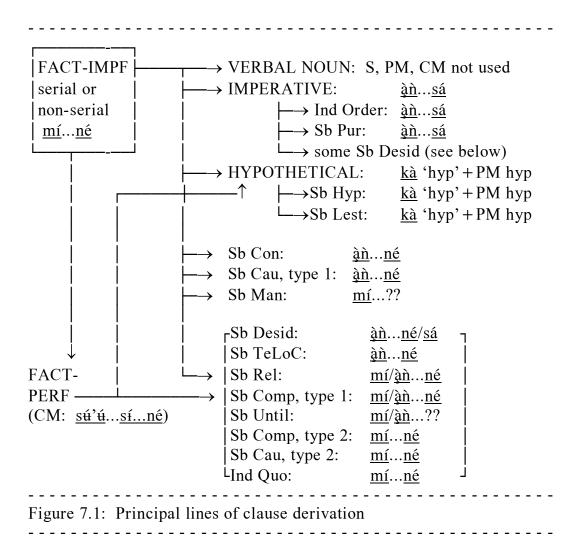
- b)-several of the subordinate clause types (Sb TeLoC, Sb Rel, Sb Desid, Ind Quo, Sb ???, Sb Con, Sb Comp...).
- --Factative perfective clauses may be transformed into a)-hypothetical mood,
- b)-several of the subordinate clause types (Sb TeLoC, Sb Rel, Sb Desid, Ind Quo, Sb ????, Sb Con, Sb Comp...).

--Imperative clauses may be transformed into Ind Ord and Sb Pur clauses.

--Hypothetical clauses may be transformed into Sb Hyp clauses.

--Serial clauses may occur wherever an ordinary factative clause occurs.

--Interrogation and emphasis are not mutualy exclusive but may occur simultaneously in the same clause, but are not diagrammed in the figure but explained at the end of the chapter.



This chapter treats the following major topics:

- 7.1 modal derived clauses (IMPV, VN, HYP)
- 7.2 subordinate derived clauses (Sb TeLoC, Sb Rel, Sb Desid, Ind Quo, Ind Ord, Sb Hyp, Sb Pur, Sb Con, Sb Cau, Sb Man, Sb Comp)
- 7.3 reference variants (logophoricity)
- 7.4 interrogative derived clauses
- 7.5 emphatic derived clauses
- 7.6 topicalization

7.1 MODAL DERIVED CLAUSES (IMPV, VN, HYP)

These derived moods/aspects will be discussed as follows:

- 7.1.1 Occurrence limitations
- 7.1.2 Imperative (IMPV)
- 7.1.3 Verbal nouns (VN)
- 7.1.4 Hypothetical (HYP)
- 7.1.5 Summary of mood/aspect signals in PM and CM

7.1.1 Occurrence limitations. Since certain of the factative imperfective clauses have no corresponding derived forms in some other moods/aspects, I'll now designate which of them do have derived forms and in which moods/aspects they have been found. Table 7.1 has an \underline{x} wherever a given FACT-IMPF clause has a corresponding derived form, and a 0 where no derived clause has yet been found. A \underline{z} indicates the the derived clause concerned was an elicited form and has not yet been fund in unelicited text. This completes the table given early in section 5.4.

FACT-IMPF	FACT-PERF	IMPV	VN	НҮР
SIMPLE CLAUSES				
Intransitive	Х	Х	Х	Х
Descriptive	Х	0	Ζ	0
Transitive	Х	Х	Х	Х
Object Complement	Ζ	?	?	?
Equative	Х	Х	0	0
Locative	Х	0	0	0
Reciprocal	Х	0	Ζ	0
Ditransitive	Х	Х	X	0
Dative	Х	Ζ	Z	Х
stative/passive	Х	Х	Ζ	0
COMPLEX CLAUSES				
Desiderative	Х	Z	0	0
Inchoative	Х	0	0	0
Intentional	Х	Z	Ζ	0
Introducer (transitive)	Х	0	0	0
Introducer (ditransitive	e) z	Х	Ζ	0
Perception	Х	0	0	0

7.1.2 <u>Imperative mood (IMPV)</u>. The imperative mood is characterized by

1) its PN-ML composite position, which always contains an \underline{an} series pronoun, with no tense (T) position,

2) the optional occurrence of the second person singular and plural pronouns in the PN-ML composite position when the context makes the meaning clear, and

3) its imperative clause marker, which is distinctive in the negative: $\underline{s}\dot{a}$ in all contexts; in the affirmative, the imperative clause marker is identical with the factative imperfective /ú/ (Table 5.1).

Imperative clauses may be transformed into emphatic and/or interrogative clauses and they may have variants which serve as serial component clauses (6.1 and 6.2).

The PN-ML composite position involves <u>all three</u> persons, and when not in the second person, is translatable by 'let me...', 'let him...', or by 'I must...', etc. The second person is the equivalent of the English imperative.

Some examples:

INTRANSITIVE: You-IMPV enter descend IMPV (Enter!) TRANSITIVE: (impv2) PM P_{tr} CM O_1 ----- -------Ì fèè moo wòò sá! (3-127) You-IMPV receive word his IMPV-NEG (Don't believe his word!) DITRANSITIVE: (impv3) PM P_{di} I Lo -----À kéé nag- á. (3-110) pú He-IMPV give-to wife hand-in (He must hand his wife (the money).)

DITRANSITIVE INTRODUCER:

(impv4) PM	P _{say} di	Ι			O_4	
Ì	çd-	d u :	«…líw	ka	'yέ	yągg- a?»
You-IMP	/ say-to	o-him:	'robbe	r sb-h	e possesses	s mouth-Q'
(Tell him,	'doe	s a rob	ber have	a righ	t to speak?	') (3-128)
TRANSITIVE (SE	RIES):					

(impv5) PM	$\mathbf{P}_{\mathbf{tr}}$	O_1	P_{tr}	Lo	
Ì	là pè'	gbág	'yέ b	àa yè	yúba. (3-135)
You-IMP	V go help-li	ft clay-pot	t put m	an this	up
(Help lift	this pot up o	on the mai	n's head	1.)	

7.1.3 <u>Verbal noun mood (VN)</u>. The verbal noun clause is characterized by:

1) no Te₁, S, PN-ML-T, or CM positions;

2) a verbal noun always fills the predicate position;

3) no negative form;

4) indirect and direct object positions are retained and precede the predicate instead of following it, as they do in factative clauses, and the dative suffix is attached to the verb which precedes the indirect object position, i.e., to the verb of the main clause;

5) verbal noun clauses occur only:

a) in the C₄ slot of the inchoative clause,

b) in the O_3 slot of the desiderative clause,

c) in the CG slot of the intentional clause,

d) in some slots ordinarily filled by nouns, like

--detail slots in compound nouns (3.4.4 and 3.5.3), or

--head slots in noun phrases (4.2), or

--in axis slots in several relator-axis phrases (4.9 and 4.10).

The verbal noun mood is not, therefore, an independent mood, as are the other moods, nor does it very much resemble any of the subordinate clauses. It can easily be labelled a 'nominal mood'.

Several examples of the intentional and inchoative clauses containing verbal noun clauses may be found in 5.1.3.

Further examples:

```
TRANSITIVE VN in INTENTIONAL:

(vn1) PM P<sub>int</sub> CG:VN<sub>tr</sub> CM

Vu làà púg tà"í- i. (4-35E)

They go animal shooting-F-I (They went hunting.)
```

DITRANSITIVE VN in INCHOATIVE:

(vn2) PM P_{inch} C₄:VN_{di} CM Mí did ví moo tóó ỳlệ- ẹ. (3-94) I am-in-process-of you word other saying-F-I (I'm telling you something.)

7.1.4 <u>Hypothetical mood (HYP)</u>. The hypothetical mood is used mainly in the initial and primary positions of hypothetical condition sentences (8.2). The primary position of this sentence may be filled without an accompanying subordinate clause. This sentence type characterized by:

1) the particle $\underline{k}a$ 'hypothetical' which immediately precedes the PN-ML-T composite position in both primary <u>and</u> initial clauses in hypothetical sentences;

2) only hyp_{present} and hyp_{past} subject pronouns may fill the PN-ML-T composite position;

3) the clause marker is the same as in the perfective and imperfective clauses except that \underline{sa} can be used in the negative when the hypothetical clause is independent, especially when expressing displeasure concerning a past event as in (hyp1) below; the hypothetical has thus two possibilities in the negative;

4) a demonstrative may occur near the end of the clause;

5) the hypothetical clause may be transformed into a TeLoC derived subordinate clause (not shown in Figure 7.1).

Displeasure concerning a past event is illustrated by the following sentence (from Mark 9:39), which illustrates an imperative idea:

(hyp1)	Нур	PM	P _{tr}	O_1	CM
	Kà	víń	há"-	ŧ	sá!
	Нур	you-hyppresent	forbid	-him	IMPV-NEG
	(You	ı shouldn't ha	ve fort	oidde	n him!)

Independent hypothetical clauses without an imperative idea also occur, taking the normal factative negative clause marker:

(hyp2)	Нур	PM	P _{tr}	O_1	CM
	Kà	mín	kìn	d úú	né! (2-77h)
	Нур	I-hyp _{past}	t feel-NEC	fear	HYP-NEG
	(I we	ouldn't l	nave been	afrai	d.)

7.1.5 <u>Summary of mood/aspect signals in PM and CM</u>. We're now able to draw together all the moods and aspects into a single chart, expanding what was presented at the very end of chapter 5:

mood	aspect	negative CM	affirmative CM		
factative $(PM = mi \text{ series})$	perfective	with locative P: <u>sílí</u>			
and hypothetical kà (PM=hyp series)		/síné/ (= <u>síné,</u> <u>láné,</u> <u>náné,</u> <u>ndéné,</u> <u>sú'ú né,</u> <u>né sú'ú)</u>	$ \frac{/s\hat{u}\hat{u}}{(=\underline{s\hat{u}\hat{u}}, \underline{s\hat{i}}, \underline{s\hat{i}}, \underline{s\hat{i}}, \underline{\hat{u}})} \\ \frac{1}{(=\underline{s\hat{u}\hat{u}}, \underline{s\hat{i}}, \underline{s\hat{i}}, \underline{\hat{u}})} \\ + \text{ exclamative} \\ (=\underline{m\hat{a}}, \underline{m\hat{a}y})$		
	imperfective	with locative	P: - <u>lí</u>		
		/né/ <u>né</u>	$\begin{vmatrix} /\underline{\hat{u}} \\ (= \underline{\hat{u}}, -\underline{\hat{i}}, \underline{w}\underline{u}, \underline{y}\underline{u}, \\ -\underline{w}, \underline{y}\underline{0}, \underline{n}\underline{0}, \text{ none} \end{vmatrix}$		
imperative (PM= <u>àn</u> series)	(imperfective)	<u>sá</u>	 'unmarked' form 		
Table 7.2: Summar	y of mood/aspec	t signals in PM an	d CM		

7.2 SUBORDINATE DERIVED CLAUSES (Sb TeLoC, Sb Rel, Sb Desid, Ind Quo, Ind Ord, Sb Hyp, Sb Pur, Sb Con, Sb Cau, Sb Man, Sb Comp, Sb Until, Sb Lest)

Subordinate clauses are distinguished from independent clauses by the subordinating phrases or words/roots (or the lack of them) which may introduce and/or close the clause. Their positions of occurrence on the sentence, clause or phrase level also serve to contrast them with other clause types. The thirteen most frequent sets of derived clauses will be treated here.

- 7.2.0 occurrence restrictions
- 7.2.1 temporal-locative-conditional (Sb TeLoC)
- 7.2.2 relative (Sb Rel)
- 7.2.3 desiderative (Sb Desid)
- 7.2.4 indirect quotation and indirect order (Ind Quo, Ind Ord)
- 7.2.5 hypothetical (Sb Hyp)
- 7.2.6 purpose (Sb Pur)
- 7.2.7 concessive (Sb Con)
- 7.2.8 cause (Sb Cau)
- 7.2.9 manner (Sb Man)
- 7.2.10 comparison (Sb Comp)
- 7.2.11 'until' (Sb Until)
- 7.2.12 negative purpose 'lest' (Sb Lest)

All obligatory clause markers from other moods are retained in derived subordinate clauses, but the FACT-IMPF affirmative clause marker $/\frac{4}{4}$ needs special treatment here since it does not occur under certain conditions in certain subordinate clauses. It has been labelled 'unmarked' in Table 7.2 and must be analyzed and described as it occurs and if it occurs in a given subordinate clause.

The initial morpheme of the subordinate phrase occurs between the Subject and the PN-ML-(T) positions, which means that the Temporal 1 and Subject positions precede it.

The characteristics of the clauses listed below are not all distinctive, but at least two listed for each set of clauses will be contrastive.

Throughout this chapter, the symbol ______ or _____ or will join elements of a discontinuous structure, and concord or agreement between discontinuous elements of a single structure will be indicated by: ______ c.

7.2.0 Occurrence restrictions. In principle, all FACT-IMPF and FACT-PERF clause types have counterparts in most types of subordinate clauses, with the exceptions outlined in Figure 7.1 and the accompanying discussion. The following tables show (with 'x') which potentialities are exemplified by examples in my clause file archives; see 7.2.8 for an explanation of 'y'. Other than those exceptions already mentioned, items lacking in the table below are probably due to accidents of the data and further research would show examples of most of the missing items.

									US		ΤΥ		
FACT-IMPF	tlc	rel	des	iq	io	hyp	pur	con	cau	man	cmp	unt	les
SIMPLE CLAUS	SES												
Intransitive	Х	Х	Х	Х	х		Х	х	ху	Х	Х	х	х
Descriptive		Х							2				
Transitive	Х	Х	Х	х	Х	Х	Х	х	Х	Х	Х	Х	Х
Object Compl.													
Equative	Х	Х		Х		Х		х			Х		
Locative	Х	Х		Х		Х		Х			Х		
Reciprocal			Х	Х									
Ditransitive	Х	Х	Х	Х	Х		Х	х	У	Х	Х		
Dative	Х	Х		Х								Х	Х
stative/passive	Х												Х
COMPLEX CLA	AUSE	ES											
Desiderative	Х	Х		Х									
Inchoative	Х	Х	Х	Х				Х	ху		Х		
Intentional	Х			Х									
Introducer _{tr}	Х	Х						Х	ху				
Introducer _{di}			Х					Х	У				
Perception	Х												
Table 7.3 Occurrences of FACT-IMPF clauses in derived clause types													

NB: 1) ONLY the 'ordinary' uses of the CM are shown here, keeping the 'strong' uses mentioned at the end of 5.1.1 separate at this time; 2) series clause variants of IMPF clauses are included in the count in table 7.3.

tlc	= TeLoC	temporal-locative-conditional
des	= Desid	desiderative
iq	= Ind Quo	indirect quote
io	= Ind Ord	indirect order
hyp		hypothetical
pur		purpose

con	concessive
cau	cause
man	manner
cmp	comparison
unt	until
les	lest

In the following chart, '-' indicates a systematic absence of the possibility listed.

										TYPES
FACT-PERF	tlc	rel	des	1q	10	hyp	pur	con	cau man	cmp unt les
SIMPLE CLAUS	SEC									
Intransitive	X			х	_		_	_	v V	
Descriptive	Λ			Λ	_		_	_	ху	
Transitive	х	х	х	х	_	х	_	_		
Object Compl.	Λ	Λ	Λ	Λ	_	Λ	_	_		
Equative					_		_	_		
Locative					_		-	_		
Reciprocal			х		-		-	-		
Ditransitive	х	х			-		-	-		
Dative	Х				-		-	-		
stative/passive					-		-	-		
COMPLEX CLA	USE	ES								
Desiderative	Х				_		-	_		
Inchoative	Х				-		-	-		
Intentional					-		-	-		
Introducer _{tr}					-		-	-		
Introducer _{di}					-		-	-		
Perception					-		-	-		
Table 7.4 Occur	renc	es o	f FA	CT	-PEF	RF cla	ause	s in	derived c	lause types

7.2.1 <u>Temporal-locative-conditional (Sb TeLoC)</u>. The characteristics of the Sb TeLoC clause are: 1) its subordinating phrase (4.13.1): $+(\pm \text{Init:te/lo/tow}... \pm \text{H:}(\pm \underline{ka} \pm \underline{ka}) \dots \pm \text{Ter:dem/rec/na'})$ 2) the <u>an</u> series pronoun which fills its PN-ML composite position;

3) the FACT-IMPF affirmative 'unmarked' / $\frac{4}{4}$ CM (see Table 7.2) is usually suppressed in Sb TeLoC clauses; see 5.1.1 and the remarks just before and concerning the illustrations (30) through (37); this CM often fails to occur as if the Sb TeLoC were a main clause along the time line in narration and other continuous text;

4) in the negative the CM is <u>né;</u>

5) it occurs in the initial and terminal slots in 'complex' sentences.

Note that a subordinate-final 'binder' demonstrative is common in West African langauges to help show exactly where the subordinate clause boundary is located (Bendor-Samuel 1989:34).

Either FACT-IMPF or FACT-PERF clauses may be transformed into Sb TeLoC derived clauses.

Some imperfective examples:

(tlc1) S Sb-PM P_i Sb Sb -----------____ Sèy vìd ka sà' máa,... (4-5) Time night sb-it darkens dem (When night has fallen,...) (tlc2) _____ Sb-PM P_{stv} Lo Sb ---_____ ----- ---ka' dágá tée,... (3-121) Ka nə'əy Sb-he bends-down side one dem (If he bends down to one side,...) (tlc3) _r Sb Sb-PM P_{tr} O_1 Lo Sb ----____ ____ -------------Sèỳ ka màà púg bý' máa,... (3-138) Time sb-he finds animal close dem (When he finds the animal is close,...) $O_1 CM$ (tlc4) Sb-PM P_{tr} Sb --- ---------------mí ní tée,... (4-40F) Kám hòn Sb-you see-NEG me F-I-NEG dem (If you don't see me,...) (tlc5) Sb S PM P_{di} Ι O_1 -----_____ ____ ---____ Tòw wźźà púm siidè... (3-111) m If husband-your he gives-you money...

Perception clauses: when the FACT-IMPF is transformed into Sb TeLoC clauses, a double <u>ka</u> is found to occur, the first in its usual slot in the subordinating teloc phrase, the second preceding the PN-ML-T position <u>in the object 5 clause</u>:

(tlc6)	Sb	S	Sb-PM	P			O ₅		Sb
	Sèỳ N Time H	/Ibùù yena	 ka	kì hears	Panthe	r sb-he	ý says	like that	 máa,
(tlc7)	Sb Sb	-PM	P _{inch}			C ₄		⊐ Sb	
	Time		di in-proc washinį		•	am wa		máa, (dem	4-9D)
	A perfe	ctive	clause	examp	le (tran	sitive)	:		
(tlc8)		S	5	Sb-PM	P _{tr}	СМ	Sb	_	
	0	or-his	gbòò s friend iend hao	sb-he	forget	s F-P	-	(3-140	5)

7.2.2 <u>Relative (Sb Rel)</u>. Speakers can choose among a rather complicated set of options in this clause. The characteristics of the (restrictive) relative subordinate clause are as follows:

1) its subordinating phrase (4.13.2):

 \pm H:(<u>ká</u> \pm <u>bà</u>/<u>ka</u>, or <u>bà</u> + <u>ka</u>, or <u>bà</u>)... \pm Ter:dem/rec/<u>ná'</u>,

(but since all elements of this phrase are optional, some clauses don't contain any!);

2) the subject pronoun filling the PN-ML(-T) composite position varies according to which subordinator(s) are chosen by the speaker:

--with ká alone, the mí series is used;

--with <u>ká...bà</u>, or <u>bà</u> alone, the <u>mí_{fut/nonfut}</u> sets are used;

--with ká ka or bà ka, the àn series is used;

--with no subordinator, the <u>àn</u> series is used;

3a) the negative agreement of the subordinate verb with the verb of the preceding primary clause when this latter verb is negative (although the subordinate verb's meaning remains affirmative).

3b) The normal negative CM inside the clause without outside agreement is $\underline{n\acute{e}}$; see the last examples below.

4) The FACT-IMPF 'unmarked' $/\frac{4}{4}$ CM (see Table 7.2) is usually suppressed in Sb Rel clauses. See 5.1.1 and the remarks just before and concerning the illustrations (30) through (37). This CM fails to occur exactly as if the Sb Rel were a main clause along the time line in narration and other continuous text.

5) It typically occurs as a modifier in noun phrases.

Factative imperfective and perfective clauses may be transformed into relative subordinate clauses. Note that a subordinate-final 'binder' demonstrative is common in West African langauges to help show exactly where the subordinate clause boundary is located (Bendor-Samuel 1989:34), even if in this case it's optional! Often in Sb Rel, the final demonstrative is a recall morpheme (<u>pèè, tèè, súu</u>).

<u>Relativizable positions</u>: Noun phrases may be relativized on if they are subject (S), direct object (O), indirect object (I), possessed or possessor noun, or object of a pre-/postposition (OP). In addition, any of these noun phrases may be fronted into topicalized position (TOP), and their fronting seems not to alter their relativizability; i.e., any noun phrase fronted/topicalized brings its Sb Rel modifier along with it.

The following abbreviations and symbols will be used throughout this subsection:

--Slashes / before and after a Sb Rel in an example will be used to help identify it.

--Subscripts i and j are used to signal coreferentiality.

--The function of the noun phrase relativized <u>on</u> is placed in single parentheses (...).

--The function symbol of the noun phrase position relativized <u>into</u> is placed in double parentheses ((...)).

-F-I = FACT-IMPF.

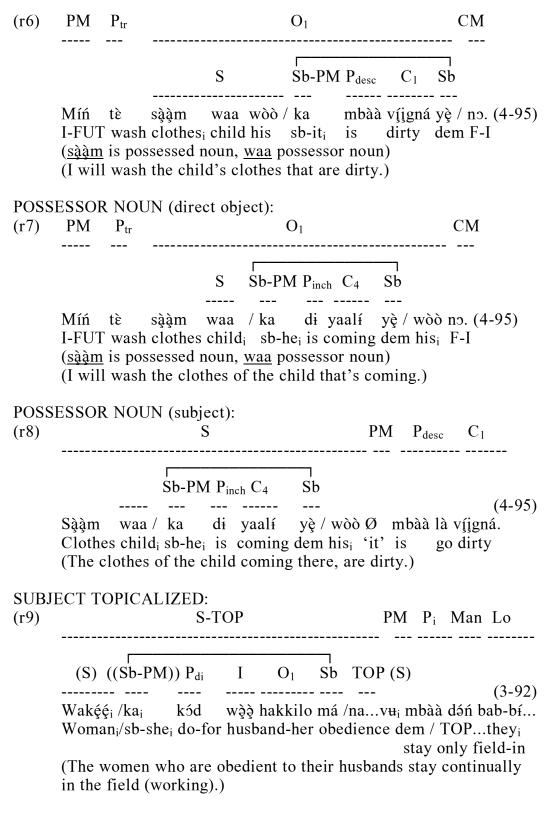
--F-P = FACT-PERF.

In this subsection, I draw the reader's attention to the functions in single parentheses:

SUBJECT:
(r1)SPM P_i CM(S)Sb-PM P_{tr} (($O_1 = \emptyset$))Sb(S)Sb-PM P_{tr} (($O_1 = \emptyset$))SbSààmi / kámfèèyè, / vuiduuné. (4-35N)Clothesi sb-you buydem theyi are-good F-I-NEG(The clothes you bought are not good.)

DIRECT OBJECT: $(r2) PM P_{tr} O_1$ (O_1) $((Sb-PM)) P_{lo}$ Lo ----- --- ---hęn_i víig / ka_i di tíń-gòò-lí. / Mí vùd I remove thing_i dirty sb-it_i is-there in- it- in (I remove the dirt that is in it (a pocket).) **INDIRECT OBJECT:** (r3) S PM P_{di} 1 .------(I) $((Sb-PM)) P_{di}$ I O_1 Sb ----- -------- ---- $nán_i / bà_i$ qd- du_i moo pèè /: «... » Kadia_i Ø híid K_i. he answered-to man_i sb-he_i say-to-him_i word rec (Kadia answered the man who had told him that: '...') **OBJECT OF A PRE-/POSTPOSITION:** PM P_i Lo (r4) _____ (OP) S \dot{Sb} -PM P_i ((OP= \emptyset)) \dot{Sb} rel Vulà yàya/ mbìgìbàpepèè- / lí. (3-140)They go arrive place hammer sb-itfellrec- at (They arrived at the place where the hammer had fallen.) POSSESSED NOUN (also topicalized): S-TOP (S) $PM P_i CM$ (r5) ______ (S) $\overrightarrow{Sb-PM}$ P_{tr} (($O_1 = \emptyset$)) Lo \overrightarrow{Sb} TOP (4-4) $Ba'_i / kám d \partial g$ - gà bùù la' yúba yệ / niì, ya wòò Ø duu né. Egg_i sb-you go-up-go sit-on tree in dem dem, place its it is-good F-I-NEG (The egg(s) which you are sitting on up in the tree, their place is not good [i.e., they could fall in a storm].)

POSSESSED NOUN (direct object):



OBJECT TOPICALIZED:

(r10)O₁-TOP Sb S PM P_i CM Sb ----_____ ___ TOP Sb-PM $P_{tr}((O_1))$ (O_1) _____ _ ---- ----Waa_i víí máa / kíí hạa vu_i/, sèỳ gọm à yaa sú'ú tée. Child_i your TOP sb-you bear them time famine it comes F-P dem $PM P_{tr}$ (O₁) Lo Q -- --------------ví vé vu té- lá? (3-59) you keep them_i where-Q (The children which you have given birth to--where will you keep them when a famine comes?)

In view of Keenan's hierarchy (1972:440) of relativizable positions, we find all positions are relativizable in Dii except the last one: subject / direct object / indirect object / object of true preposition / possessor noun phrase / objects of comparative particles.

The last possibility has no counterpart in Dii syntax, which has no comparative particle but uses a series of two verbs in comparisons thus: Kadia is-tall surpasses Ina.

<u>Positions relativized into</u>: Here we meet essentially the same list as in the preceding subsection: subject, direct and indirect object, object of a pre-/postposition, and possessed or possessor noun.

The sentences in the above subsection contain several examples of subject and direct object noun phrases in doubled parentheses ((...)). The following are examples of indirect objects and objects of pre-/postpositions.

INDII (r11) CM			ECT:			(O_1				
			(0)	Sb-PM	P _{di}	((I))		O ₁		Sb	pl
	They	call	person	bà _i sb-he the peor	calls	them _i	word	thing	eating	-	•

OBJECT OF POSTPOSITION:

(r12)	PM P _{tr} CM	O ₁	СМ
		(O) Sb-PM P_{tr} O ₁ ((OP)))-Lo Sb
	You find F-P (You've four	béég _i ùu dò- m- m u_i - grave _i they bury-you-there ad already the grave where the ill be buried].)	i-in dem F-P
OBJE (r13)		OSITION TOPICALIZED:	
	OP-10	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Cause Sb TOP
	Street sweep	yè / káń dậáma ví mo ing _i dem sb-I bother you be ning the sweeping of the stree	$\begin{array}{ccc} - & & (3-113) \\ o & w \delta \delta_i t \epsilon / naa, \\ cause-of it_i & dem TOP \end{array}$
POSS (r14)	ESSOR NOU	N (subject), also TOPICALIZ S	ED: PM P _{desc} C ₁
	Waa / ka Child _i sb-he (<u>sààm</u> is poss (The clothes [NB: the ((x	M P _{inch} C ₄ Sb di yaalí yę̀ /, sààm w ci is coming dem, clothes _j h sessed noun, <u>waa</u> possessor no of the child that's coming are)) above the line of Dii text ir un normally occurs.]	 òò Ø mbàà là víigná. nis_i it_j 'is' go dirty oun) c dirty.)
POSS (r15)	ESSED NOU	N (direct object), also TOPIC.	$PM \qquad P_{tr} ((O_1)) CM$
	S	Sb-PM P _{desc} C ₁ Sb	
	Clothes _i chil (<u>sààm</u> is poss	wòò / ka mbàà víigná yệ /, d _j his _j sb-it _i is dirty dem, sessed noun, <u>waa</u> possessor no ill wash his clothes that are di	, he _j -FUT wash-it _i F-I bun) (4-95)

An example of negative grammatical agreement inside the subordinate relative clause (the \underline{c} after the bar indicates concord or agreement):

An example of the F-P clause (also with negative agreement):

(r17) PM P_{tr} O₁ CM Ø gàan hẹn tóó à kón sɨ né. (4-7) He knows-NEG thing other he does-NEG F-P NEG (He doesn't know what to do.)

Two examples of the negative inside the Sb Rel without external influence follows; the first in F-I, the second F-P.

(...sèỳ) mam ka làa ná né máa-(lệ). (3-54U)(...time) rain sb-it go F-P NEG dem-(in) [in this example, the normal verb suffix -<u>n</u> is suppressed before <u>n</u> in the speech chain following a long vowel]

7.2.3 <u>Desiderative (Sb Desid)</u>. The characteristics of the subordinate desiderative clause are:
1) its lack of a subordinator normally, although some people do use <u>bà</u> here as in (d3) below;

2) the \underline{an} pronoun filling the PN-ML composite position, although in many cases the subject pronoun of the Sb Desid is from the <u>bi</u> series due

to coreference with the preceding dominating subject pronoun--a fact that on the surface disguises the underlying \underline{an} pronoun that 'belongs' here; 3) most people use /né/ in the negative imperfective, see (d2) below; but some shade the meaning over into an Indirect Order by using the negative \underline{sa} (d3);

4) negative agreement between the subordinate verb and the verb in the primary clause (d4) (cf. Sb Rel); and

5) the FACT-IMPF 'unmarked' / $\frac{4}{4}$ / CM (see Table 7.2) is usually suppressed in Sb Desid clauses. See 5.1.1 and the remarks just before and concerning the illustrations (30) through (37). This CM fails to occur exactly as if the Sb Desid were a main clause along the time line in narration and other continuous text.

6) It occurs in the Object 6 slot of the desiderative clause.

Both FACT-IMPF (d2, d4) and FACT-PERF (d5) clauses may be transformed into Sb Desid clauses. The Sb Desid in (k1) in 5.1.3 becomes (d1) here:

- (d1) PM P_{di} I O_1ì dùù q- n tóó. (3-54I)you-IMPV follow tell-me other ((I want) you to repeat that.)
- (d2)PM Pi IA CM bi yậặn kan zig tóó vụ né. (4-39) (Vu híí) (They want) they-LOG mix with tribe other pl F-I-NEG (They don't want) to mix with other tribes.) [Here the normal verbal negative agreement -n is absorbed in the speech chain by the final n of the verb after a long vowel.] $S \quad Sb \ PM \qquad P_{tr} \ O_1 \qquad CM$ (d3)----- --- ------ -----

(M5 híí) tendè bà à nòỳ bi sá. (3-114) (You want) worm sb it-IMPV bite you-LOG IMPV-NEG ((You don't want) the worm to infect you.)

(d4) PM P_{desid} O₃ CM M5 híjn òo nòon bi móó-lệ lig- í ní. (3-54J) You want-NEG we kill-NEG you-LOG your-at house-at F-I-NEG (You don't want us to kill you at your house.) (...kíí híí) àa fàn ví moo yệ sử ứ pến (tée,...)(3-144) (sb-you want) we discuss we problem dem F-P first (dem) ((...if you want) that we discuss this problem first,...)

2) fill the Object 4 slot in introducer clauses.

(d5)

They are differentiated, however, as follows: 3a) indirect quotations have a \underline{mi} series pronoun filling the PN-ML-T composite position (with tense, transformed from factatives), while 3b) indirect orders have an \underline{an} series pronoun in the PN-ML slot (without tense), and can be considered transformations from imperatives; 4a) indirect quotations may contain only factative (IMPF or PERF) clause markers, and since they reflect direct quotations, they have a higher incidence of the 'unmarked' /ʉ/ CM's as shown in Bohnhoff and Boyd 2003; while

4b) indirect orders are linked to imperatives, so in the negative we find <u>sá</u>, but note the affirmative IMPV CM / $\frac{4}{4}$ / is the same as the IMPF (see Table 7.2);

5) if $\underline{k}\underline{a}$ 'far past' occurs, it appears immediately following the noun subject (and just before <u>bà</u> in those cases where <u>bà</u> is also present); when several indirect quotes are strung together in a single object position, <u>ká</u> seems to occur only with the first of the series (see Acts 22:19 and 2 Peter 3:5-6), while <u>bà</u> may be repeated at the beginning of each clause in the series; see also next paragraph.

When a <u>sentence</u> introduced by a temporal-locative-conditional or hypothetical subordinate clause is transformed into an indirect quotation or order, <u>both</u> the initial subordinate clause and the primary clause take the subordinator <u>bà</u>. See example (io3) below.

Examples of indirect quotations:

(iq1) Te₁ S Sb-PM P_i Lo
 ...zágà-lé máa Kpoo bà yaa yè-lí. (4-9H)
 ...day- in dem Baboon sb-he comes here
 (...that during the day Baboon came here.)

(iq2) S Sb-PM P_{lo} Lo _____ di Vùdyè'-'é. (3-89) ...dòò bà ...beer sb-it is-in Vùdyè'- in (...that there's beer (for sale) in Vùdyè'.) (iq3) Ι S Р O_1 Sb-PM P_{di} ___ ------...Bàbàam bà dùù pan bi ya nan tóó. (4-9K) ...Rabbit sb-he follows carries them-LOG comes couscous other (...that Rabbit brings them more food.) A transitive with ká: (iq4)Sb/Te? Sb PM P_{tr} O_1 Man ___ ----_____ ...ká bà mín kó ba'ad Yésù wòò néélé nà'à. (Phil. 1:30) ... far-past sb I-nonfut do work Jesus his strong very (...that I used to work very hard for Jesus.) Examples of indirect orders: (io1)Sb PM P_{tr} O_1 ---- ----------ра ...bà ùu moo... (4-9K) ...sb they-IMPV announce word (...that they should announce...) (io2) PM Ι P_{di} O_1 -------------túd bi ...à'n bab... (3-125) ...I-IMPV guard-for her-LOG field (...that I should guard her field.) An example of a sentence quoted in indirect order form which requies two bà's: (io3) Init:Sb TeLoC-F-P Prim:Ind Ord-F-I Di

(103) Init:Sb TeLoC-F-P Prim:Ind Ord-F-I Di
 ...tòw bà à hò ya mbìgì bìì sú'ú péń tée, bà à tú'ud bi ú.
 ...if sb he sees place hammer his-LOG F-P first dem, sb he-IMPV show-to him-LOG IMPV (3-139)
 (...that if he_i sees the location of his_j hammer, he_i should show him_j.)

7.2.5 <u>Hypothetical (Sb Hyp)</u>. The subordinate hypothetical clause is similar to the hypothetical clause in a 'primary' sentence position (7.1.4) and has the following characteristics:

1) its subordinating phrase (4.13.5):

 \pm Init:<u>tò/tòw</u> ... + H: \pm <u>ká</u> + <u>kà</u> ... + Ter:<u>tée</u>;

note the hypothetical morpheme \underline{ka} and the subordinate-final 'binder' demonstrative $\underline{t\acute{e}}$ that is common in West African langauges to help show exactly where the subordinate clause boundary is located (Bendor-Samuel 1989:34);

2) only hyp_{present} and hyp_{past} subject pronouns occur in the PN-ML-T composite position;

3) its occurrence only in the initial position of hypothetical condition sentences (8.2).

Both FACT-IMPF and FACT-PERF clauses may be transformed into subordinate hypothetical clauses, with all the implications that has for clause marker occurrences. Example (h1) is IMPF affirmative, (h2) IMPF negative, and (h3) PERF negative.

Some examples:

(h1)

(11)	Sb	PM	C ₂	СМ	Sb
					tée, (2-77h)
			_{ent} man riche ich man,)	s-IMF	'F dem
(h2)	Г				

Sb-PM P_{tr} O_1 CMSbKànkónkɛbnétée,... (3-130)Hyp-hedo-NEG trick IMPF-NEG dem(If he had not been tricky,...)

A transitive example occurring in an indirect quotation follows:

(h3)Sb PM P_{tr} O_1 CM Man Sb ---____ ____ ____ kón sú'ú péń tée,... (3-130) ...kà bin keb né ...hyp he_{past}-LOG does-NEG trick NEG PERF first dem (...if he hadn't been tricky,...)

7.2.6 <u>Purpose (Sb Pur)</u>. The subordinate purpose clause has the following characteristics:

1) it may be introduced by the subordinator \underline{moo} 'in order that/that'; a second subordinator \underline{ba} does also occur, but rarely, just before the subordinate subject pronoun;

2) it occurs in the 'terminal' position of 'complex sentences' (Table 8.1);
3a) the subordinate subject pronoun is from the <u>àn</u> series if it refers back to the direct (or indirect) object in the preceding 'primary' clause; see also Table 8.1;

3b) if the subordinate subject pronoun introduces a new participant, the pronoun will also be from the \underline{an} series;

3c) but if the subject pronoun would refer back to the preceding 'primary' clause's subject pronoun, it may be suppressed and the verb will then take its verbal noun form ['subject raising'];

3d) however, when a <u>bi</u> pronoun replaces the <u> $\dot{a}\dot{n}$ </u> series subject pronoun (see section 7.3), there is no need to transform the verb into a verbal noun;

4) in the negative, the clause marker is $\underline{s}\underline{a}$, and in the affirmative the 'unmarkead' / $\underline{4}$ / form occurs, which leads us to derive this subordinate form from the imperative mood;

5) a whole sentence (a Piv Sent in this case) instead of just a clause may occur in this subordinate structure, see (p6) below.

No Subordinator; indirect object becomes subordinate subject:

Negative, with introduction of new participant 'sun':

Sb PM Pi Lo CM (p2) S _____ ---- ----dź tíń- gòò-lí sá. (3-54U) zága à ...moo ... in-order-that sun it-IMPV enter inside-it- in IMPV-NEG ((They cover the hills completely with grass) in order that the sun not enter inside [the holes].)

Double subordinator, with 'new' participant as subordinate subject:

Sb PM P_{tr} O_1 IA (p3)Sb S _____ ---- --_____ -----...moo kéé bìì bà à gàgan waa wòò-lí. (3-129) ...sb wife his-LOG sb she-IMPV carry-with child her-in ((He prepares the skin) so that his wife can carry her child in it.)

'Subject raising':

(p4) Sb O₁ VN_{tr} CM ...moo hẹn lálí sòòlí- i. (4-47D) ...sb thing to-eat to-look-for-F-I ((She also left her house,) to look for something to eat.)

Subject reference by logophoric bi pronoun:

- (p5) Sb PM P_{tr} O₁ Lo ...moo bi ya hỳ Zág họọ- lệ. (Tanlaka 1983:5) ...that he-LOG come see Panther sickness-in ((As for Antilope, he had pity) such that he came to see Panther in his illness.)
- (p6) Sb Prim₁:IMPV-Ditr Prim₂:IMPV-Tr CM
 ...moo bi ya pú waa bìì à lá ú. (4-47C)
 ...that she-LOG come give child her-LOG he-IMPV eat IMPV
 ((The mother went to look for food) so she could give it to her child and he could eat.)

7.2.7 <u>Concessive (Sb Con)</u>. Subordinate concessive clauses have the following characteristics:

1) there may be as many as five elements that indicate subordination, as explained in 4.13.6, but often only 2 or 3 are present in a single clause; the final element does seem to be obligatory:

 \pm Init:<u>kóó</u> ... \pm H: \pm <u>ká</u> \pm <u>ka</u> ... \pm Ter:dem +Ter:<u>sì</u>'

2) the subject pronoun is from the \underline{an} series;

3a) the clause marker in this subordinate type poses special problems; in the affirmative it seems to be of the 'unmarked' / $\frac{4}{4}$ / type in Table 7.2, although in this clause it seems to be usually for strong insistance, as described at the end of section 5.1.1; see examples (co4) and (co5) below; the non-insistant 'true unmarked' form seems not to occur here; 3b) the negative clause marker is /né/ (causing also the negative

agreement suffixed to the verb), which leads toward the conclusion that this subordinate type is derived from the imperfectives, despite the \underline{an} series subject pronoun.

4) they may occur either initially or terminally in 'complex sentences' as shown in Table 8.1.

5) an interesting example of the coordination of several clauses inside this subordinate structure is shown in (co5), where $\underline{k}\delta\delta \underline{k}a$ occurs only

once initially, and the insistent CM /4/ and \underline{si} each occur only once at the end, with three clauses inserted between.

Several examples follow.

(col) Sb PM P_i Sb CM ____ -- ----____ ____ Kóó à vaa né sì',... (KM) Even-if he comes F-I-NEG even-if (Even if he doesn't come...) (co2)S Sb P_i Sb Sb _____ ------- --- --noo yè sì',... (4-9N) Kpoo ka Baboon sb-he dies dem even (Even though Baboon was dead,...) (co3)Sb Sb PM P_{tr} O_1 Sb _____ ----------ùu hà' hẹn yè vu...sì'. (Heb. 10:8) ...kóó ká ...even-if far-past they sacrifice thing dem pl even-if (...even if they sacrificed those things (properly).) (co4) Sb PM P_{tr} PM O₁ Man CM Sb Lo ____ --- ---- --- -----_____ __ __ ____ àa tàà ví moo í yògo yúú Krístù wòò-lí ú Kóó sì'.... Even-if we think we word like that about Christ him-on insistance even-if (2 Cor 5:16) (Even if we used to think indeed thus about Christ,...) Sb clause 1:Tr clause 2:Tr (co5)_____ _____ Kóó àn haa- wu, àn dùun nán wòò vu kan hẹn bíd, ká Even-if far-past I insult-him, I follow man his pl with thing bad, clause 3:Tr CM Sb ____ sì',... (1 Tim 1:13) àn béé moo wòò vu ú I despise word his pl insistance sb (...even if I insulted him, persecuted his followers, and despised his word...)

7.2.8 <u>Cause (Sb Cau)</u>. The subordinators involved in this type of clause are well described in 4.13.7. These clauses may occur either initially or terminally in 'complex sentences', and are of two types.

In sentence-initial and in sentence-final position, 'type 1' seems to be nearly identical with the Temporal-Locative-Conditional (Sb TeLoC) described in 7.2.1, except that the 'initial' SbP position is lacking; occurrence of this type is marked by an 'x' in Tables 7.3 and 7.4. The subordinating phrase elements are thus: \pm H:(\pm ká \pm ka) ... \pm Ter:dem/rec/ná'

and the subject pronoun is (presumed to be) from the $\frac{\lambda n}{\lambda}$ series, although I have no clear examples at present. The negative is: $\underline{n}\underline{e}$, and requires the verb to agree in negativity, as in (ca2).

I don't have any examples of the perfective occurring in this clause type.

 (ca1) S Sb-PM P_i Sb
 Waa míí ka noo yè,... (4-47B) Child my sb-he dies dem (Because my child has died,...)

(ca2) Sb-PM P_{tr} PM O₁ CM Sb Kaa hộn ví wi' ní yè,... (Appendix B.4) Sb-we see-NEG we meat F-I-NEG dem (Since we don't have any meat,...)

(ca3) Sb+PM P_{tr} PM O₁ Sb
...kaa nùỳ ví hẹn lálí nà'à yệ (nɔ.) (Appendix B.4)
...sb-we find we thing to-eat much dem (F-I)
(...since we have much to eat.)

The other Sb Cau type ('type 2') also occurs in both sentenceinitial and sentence-final position, but is rather different in structure. Its occurrence is marked by a 'y' in Tables 7.3 and 7.4. The SbP here has been outlined at the very end of chapter 4 as: $\pm \underline{\text{moo}/\text{moo woons...}} \pm \underline{\text{ka}/\text{ka...}} \pm \text{dem/rec} \pm \underline{\text{pén}}/\text{insistent /u/}$ and the negative is: <u>né</u>. Both IMPF and PERF aspects occur.

(ca4) Sb Sb-PM P_i CM Lo CM Sb Moo ka zùù sí vòò- lí ú máa,... (3-96) Because sb-he goes-down F-P them-to F-P dem (Because he goes down to their (village),...)

Sb (ca5)Sb $Sb + PM P_{inch}$ C_4 _____ -------_____ ____ di yè (no.)(3-54A to 55) vó tààlí... ...moo kíí ...because Sb-you in-process us thinking-of dem (F-I) (...because you are thinking of us all the time.)

(ca6) Sb Sb PM
$$P_{tr}$$
 O₁ Lo CM
...moo ká vu nùgun ya úud lig gáá-lí né. (Luke 2:7)
...because past they find-NEG place sleep house visitor-in F-I-
(...because they found no room in the inn.) NEG
(ca7) Sb S Sb PM P_{tr} O₁ CM
...moo ya vòò 'wààpád ká vu éé- wu sú'ú. (Mat. 22:28)
...because place them all past they marry-her F-P

(...because they had all married her.)

7.2.9 <u>Manner (Sb Man)</u>. The manner subordinating clause, only occurring in terminal position in 'complex sentences', is not fully understood, and its structure is complex, such that there may be more than one proposed analysis. The sentences below illustrate the problem, but the information in 4.13.3 should be read first.

1) The subordinating signals may be resumed as follows, with the subject pronoun enclosed in parentheses:

+ Init: $\underline{k5}$ née péń/<u>née/k5</u> née/<u>dəŋ</u> née \pm H: \underline{ka} (mí) \pm Ter:-<u>a</u> 2) I seem to have no examples of a negative CM in this construction.

Examination of several examples will illustrate the analysis problem. The $-\underline{a}$ at the end of the sentence may or may not be interrogative, and seems to occur with <u>née</u> automatically; my informants tell me it is not interrogative.

 (m1) S PM P_{tr}?/Sb?? S PM P_{di} I O₁ Sb?
 Bà'á wúń kó née pęń, waa wúń kód-du ba'ad-a. (4-96) Father_i he_i-FUT do how first child_j he_j-FUT do-for-him_i work-a (What will Father do to get the child to work for him.)

(m2)S PM P_{tr}?/Sb?? S PM $P_{tr} O_1 Sb?$ --------- --------- ------ ---____ dəŋ née waa wúń Bà'á wúń kó ba'ad-a. (4-96) Father; he;-FUT begin how child; he;-FUT do work-a (What will Father do to get the child to work.)

 (m3) S PM P_{di} I Sb? PM P_{tr} O₁ Sb?
 Bà'á wúń tú'ud waa née wúń kó ba'ad-a. (4-96) Father_i he_i-FUT show child_j how he_j-FUT do work-a (How will Father get the child to work.)

One analytic question: in the first sentence with $\underline{k5}$ 'do', what rôle does <u>née...ba'ada</u> have in the larger structure? Is it the direct object of 'do', or does it fill a manner slot?

A second question: are the manner 'subordinators' <u>née/née péń</u>, etc. real subordinators, introducing the second clause, or are they just manner morphemes inside the second clause? There seems to be little way of determining the answer at this point.

Another example:

(m4) Sb? S Sb+PM P_i Sb? (Ì tú'ud vó) kó née péń lig Tayii ka na"-a. (3-57) You-IMPV show us do how first house God sb-it grow-a ((Show us) how the church can grow.)

7.2.10 <u>Comparison (Sb Comp)</u>. The subordinate comparison clause has two structures already outlined in 4.13.4; the first is far more complex than the second, with its subordinating elements as follows. The appropriate subject pronouns are indicated in parentheses; the negative CM is <u>né</u>. Note that these Sb Comp can only be used in 'terminal' position in 'complex sentences'

 $SbP_{sim}, type 1 + \underline{k5} \stackrel{f}{\underline{i}} \qquad \begin{bmatrix} + \underline{ka}/\underline{ba} & (\underline{m1}) \\ \pm \underline{ba} + \underline{ka} & (\underline{a}\underline{n}) \\ (none) & (\underline{m1}_{fut/nonfut}) \end{bmatrix} \pm dem/rec + \underline{w2g2} \\ SbP_{sim}, type 2 + \underline{baa} \qquad \begin{bmatrix} (none) & (\underline{m1}_{nonfut}) \\ \pm \underline{ba} & (\underline{m1}) \end{bmatrix} \pm dem \pm \underline{w2g2} \\ \end{bmatrix}$

It's obvious that with more data these two types might be combined into a single structure, but at this point I don't have enough data to accomplish that.

Some examples of type 1:

PM P_i Lo Sb Sb Sb Sb (cp1) ---_____ ____ ___ ...kó í ká vu bíńda moo Tayii-lí yúú míí-lí máa wogo. ...as far-past they write word God-in about me-on dem as (...as they wrote in God's word concerning me.) (Mat. 26:24) (cp2) Sb Sb + PM P_{tr} Te₂ Sb ---- ------- ----____ ...Ø mòò... kó í bà mòò tíń wogo. (Mat. 26:44) ...he spoke... as sb+he spoke before as (...as he spoke before.) (cp3)Sb Sb+PM P_{di} Ι Sb ---------------Gbaŋ kệế Ø sòd dágá kó í ka sòd wayée wogo. Vŧ yag chief wife she explain them mouth one as sb-she explain men as (The chief's wife explained to them the same thing she had explained to the men.) (2-64b)Sb Sb+PM P_{tr} O₁ Sb Sb (cp4) --------- ------ ----híí fóó móó máa wogo. (Mat. 22:39) ...kó í kám ...as sb-you like body your dem as (...as you like yourself.) (cp5) Sb PM P_{di} I Sb Sb --- -------------...vu ò... kó í vun od vu pèè wogo. (Mat. 28:15) ... they told as they-nonfut told them rec as (...they told [the authorities] as they had told them to say, i.e., as they had been told to say.) This construction also requires negative agreement on the subordinate verb, agreeing in negativity with the clause marker (and the

(cp6) ...moo èn mó hộ gím gàan dà- m ba'ad yệ ...for what you see poor know-NEG neighbor-your work dem ------ c Sb Sb + PM P_{tr} O_1 Sb CM Q ---- ----- ---------------mó wogo nékó í káń hò gàan lá? (Mat. 18:33) as sb-I see know-NEG you as F-I-NEG-Q (...why haven't you had pity on your co-worker like I had pity on you?)

main verb) without taking on negative meaning itself:

Illustrations of the second type of Sb Comp follow.

(cp7) Sb Sb+PM P_{tr} O_1 _____ ---- -----ζŚ ...hag Ø mbàà... baà bà hen zígid tóó no. (3-108) ...stomach it sits like sb-he drink thing sweet other F-I (His stomach is like he drank something sweet [i.e., it's swollen].) Sb PM Pi (cp8)

Vưmbàà baà vuìnɔɔ ý. (Mat. 28:4)They sitlike they-nonfut die F-I (They are like dead people.)

7.2.11 <u>'Until' (Sb Until)</u>. This very interesting type of subordinate clause has the following characteristics: 1) it's introduced by a conjunction borrowed from Fulani: <u>háá</u> 'until'; 2a) it seems to contain any factative clause (perfective or imperfective), whose elements normally occur in their regular order as in Table 5.2; 2b) one exception to this 'regular' word order is subject inversion, especially when the subordinate verb is <u>yà</u> 'arrive' and occurs with a temporal as subject, especially <u>sèỳ</u> 'time (Ful)'; other temporals found in this inversion have been: <u>bá'</u> 'day', <u>zága</u> 'day', <u>ve'</u> 'year', <u>zága 6àà</u> 'today'; subject inversion in Dii is highly exceptional; 3) its subject pronoun is from the <u>mí</u> or the <u>àn</u> series; no distinction in meaning has yet been clearly associated with this choice; 4) the IMPF affirmative CM seems to be the 'unmarked' form (Table 7.2), and absent in continuous text as if the contents of this subordinate

clause were on the main time-line of the story;

5) I find no examples of the negative in my data;

6) these clauses occur only in sentence-terminal position (Table 8.1).

Illustrations will be given first of normal word order:

Sb S PM P_i (u1) ------ ----...háá vìd Ø sà'. (4-47D) ... until night it falls (...until night falls.) Sb PM Lo (u2) Pi ---- --- -----_____ ...háá \emptyset dó zùù dəə-lí pì. (4-40G) ... until he enters descends hole-in there (...until he enters the hole there.)

Sb S PM P_{dat} I (u3) CM --------_____ ------...háá goom Ø yà- ga sí... (4-48C) ... until hunger it bothers-him FACT-PERF (...until he's hungry already.) PM P_{desc} (u4) Sb S C_1 ----_____ ----_____ vu kéé ...háá nààg nónó. (3-54E) ... until guinea-hen they remain five (...until there are only five guinea hens remaining.) The following are illustrations of inverted subject order: (u5)Sb PM P_i S ...hậặ Ø yà sèỳ nom vòò. (4-47E) ... until it arrives time death their (...until the time of their death arrives.) S (se) + noun + Sb. Rel(u6) Sb PM P_i ...hậá Ø yà sèỳ hẹn lálí ka bùù kaa-lí máa. (3-54E) ... until it arrives time thing to-eat sb+it is-much village-in dem (...until the time came when food was plentiful in the village.) Sb PM P_i S (u7) ...hậá à yậ sèỳ túd hộd fà"ệ. (Mat. 13:30) ... until it arrives time millet grass cutting (...until the time for the rice harvest arrives.) The preceding three sentences may be compared with the following, which has both <u>và</u> and <u>sè</u> but maintains normal word order: S PM P_i (u8) Sb Lo ____ ----- ---_____ ...háá sèỳ hạalé wòò Ø yà wu-lí. (Mat. 1:25) ... until time being-born his it arrives there (...until he was born.)

7.2.12 <u>Negative purpose 'lest' (Sb Lest)</u>. This subordinate clause is linked to the hypothetical mood. The English corresponding conjunction would be 'lest' or 'for fear that', or 'so that...not'.
1) The subordinator <u>moo</u> 'in order that' often occurs, followed by the hypothetical subordinator <u>kà</u>, which always occurs;

2) sometimes the subordinator <u>bà</u> occurs before <u>kà</u>;

3) the subject pronoun is from the hypothetical pronoun sets;

4) if the verb in the primary clause is 'fear', then <u>moo</u> is absent;

5) there seem to be no PERF examples, and none where the subordinate verb is in the negative, this latter possibly because the semantics of the clause are already negative;

6) this clause occurs in 'terminal' position in 'complex clauses' (see Table 8.1).

If several Sb Lest clauses are coordinated, then <u>moo</u> occurs only with the initial clause in the series, the others each containing only <u>kà</u> and the hyp subject pronoun; see 1 Timothy 5:11-13 for an extended example.

Some illustrations follow:

(lest1) Sb PM P_{tr} CM S ____ ----kì ...waa kà vun ú. (4-47H) ...child hyp they-present hear IMPF (... for fear the children will hear.) (lest2) $Sb + PM = P_{stv} CM$ --------- --gəyy-ú. (4-40A) (Mí ndòg) kàn that-it-past break-IMPF Ι fear ((I was afraid) that it would break.) (lest3) Sb Sb PM Pi Lo -------_____ ----hẹn zò"í- lí. (Mark 14:38) kà víń ćb ...moo ... for-fear hyp you-present enter thing tempting-in (...for fear that you'll be tempted.) (lest4) Sb Sb PM P_{tr} Sb S O_1 ---- ----____ _____ -----nán farísa bà kà vun vud bi ...moo ...because man Pharisee sb hyp they-present chase-out them-LOG Lo _____ súggí vòò- lí. (John 12:42) lig house gathering their-in (...for fear that the Pharisees would chase them out of the Jewish meeting house.)

7.3 REFRENCE VARIANTS (LOGOPHORICITY)

As already indicated in 3.6.1, some subordinate clauses may under certain conditions contain a <u>bi</u> series reference pronoun, a logophoric pronoun, instead of a <u>mí</u> or <u>àn</u> series pronoun. (See Hagège 1974, Clements 1975, Hyman and Comrie 1981, Wiesemann 1986.) First, several technical terms and the 'reference conditon' must be defined.

1. A <u>matrix</u> clause is a clause which contains an embedded construction of some sort, e.g. a Sb Desid, an Ind Ord, etc. The subject pronoun of this matrix clause is termed the <u>matrix</u> subject. In the following sentence, for example:

(log1) Vu híí bi làà kaa-lí. (5-219) They want they go town-to (They want to go to town),

where \underline{vu} is the matrix subject, $\underline{vu} h \underline{i} \underline{i}$ the matrix clause, and $\underline{bi} \underline{l} \underline{a} \underline{a} \underline{l} \underline{i}$ is a Sb Desid.

It will be seen below that the matrix clause is not necessarily a clause containing a verb of saying, nor is it always a reported speech, although $Intro_{tr}$ and $Intro_{di}$ clauses are matrix clauses. Desid clauses can also be matrix clauses, but they never contain a verb of saying, and the Sb Pur and Sb Cau (target) clauses appear widely in complex sentences with all sorts of verbs, so Roncador 1992 has defined logphoricity much too narrowly for Dii. A similar criticism has already been made by Ross Jones 2000.

2. The <u>antecedent</u> (A) is the preceding (pronominal) reference to the same participant as the pronoun (Pr) or possessive (Poss) under study. In the above sentence, <u>vu</u> is the A, and <u>bi</u> the Pr. The A will also be called the <u>trigger</u>, and the Pr the <u>target</u>.

3. The pronoun Pr or possessive Poss and its antecedent A, since they refer to the same participant, are said to be <u>coreferential</u>.

The Dii language has a strict coreferentiality structure that's used in certain subordinate clauses. The <u>bi</u> pronoun series and the reference possessives are used to indicate the coreferentiality of Pr and A (or Poss and A) instead of the regular \underline{mi} and \underline{an} pronouns and possessives if and only if the following 'reference condition' is met.

(log2) REFERENCE CONDITION (REF COND):

If A is a matrix subject pronoun (trigger), then any coreferential Pr or Poss (target) in the following embedded clauses will be from the <u>bi</u> pronoun or possessive series:

Sb Desid Ind Quo Ind Ord Sb Pur Sb Cau

Any other type of subordinate clause does not meet the REF COND unless it's embedded in one of the clauses listed in REF COND.

This holds true whether the Pr target functions as subject, object, indirect object, or object of a pre-/postposition; i.e., the <u>function</u> of the target Pr or Poss in its own immediate clause is irrelevant as far as this REF COND is concerned.

From a tagmemic point of view, any clause containing a \underline{bi} pronoun form would be regarded as a variant of the corresponding non- \underline{bi} clause. Since the difference in pronoun is specifiable, the different clause structures (\underline{bi} and non- \underline{bi}) are to be regarded as non-contrastive.

Some examples of logophoric forms, with both trigger and target underlined follow:

Sb Desid embedded:

(log3) <u>Mí</u> híí	<u>bi</u> ǫd ví.	(target is	subject pronoun PN-ML)
<u>I</u> wan	t <u>I</u> tell yo	u (I want to tell you)	(3-59)

- (log4) <u>M5</u> híí yà'àd bà à nòỳ <u>bi</u> sá. (target is direct object O) <u>You</u> want dog sb he-IMPV bite <u>you</u> IMPV-NEG (±3-114) (You don't want dogs to bite you.)
- (log5) <u>Vu</u> híí <u>bi</u> mbàà kan yúú <u>bìì</u> nu. (Target is PN-ML...Poss) <u>They</u> want <u>they</u> sit with head <u>their</u> F-I (They want to be independent.)

Ind Quo embedded:

(log6) Bà'á $\underline{\emptyset}$ ò bà <u>bíń</u> làà kòd- dí. (Target is PN-ML-T) Father <u>he</u> says sb <u>he-FUT</u> go forest-to (Father says he will go to the forest.) (5-221)

(log7) Ví ò bà míi dááma bi.(Target is O)You say sb I-emph bother you(3-113)(You say that I bother you.)(3-113)

Ind Ord embedded:(Target is indirect object I)(log8) Vu ò àn ya túd bi bab mbàà yè-lí.(3-125)They say I-IMPV come guard-for them field sit here (They say I must come guard the field for them.)
Sb Pur embedded: (log9) Bà'á <u>Ø</u> nə'əy hág-á <u>bi</u> hộ púgg- ì. Father <u>he</u> bends down <u>he</u> sees animal-F-I (Father bends down to see the animal.) (Target is PN-ML)
Sb Cause embedded:(Target is I)(log10) Yògbvu kó à'ábà háý bi nann-è.Ancestor-spirits they attacked grandmotherbecause-she refusedthem food-F-I (4-35S)
In order to contrast the above constructions with those which do not permit <u>bi</u> -pronominalization by themselves, the following examples are cited: VN Cl, Sb TeLoC, Sb Rel, Sb Comp, Sb Until, Sb Lest.
VN Clause embedded: (log11) Dábé <u>Ø</u> yaa lig wòò mbóggí- ì. (Target is Poss) Dabe <u>he</u> comes house <u>his</u> to-fix-up-F-I (Dabe comes to fix up his house.)
Sb TeLoC embedded:(Target is PN-ML)(log12) Nán vu dę' zóś sèỳ kuu kì moo náb máa.Man they have-happy heart time sb-they hear word dance dem (The people were happy when they heard about the dance.)
Sb Rel embedded:(Target is O)(log13) À'áØ gàanhẹn ka kón-no né.Grandmother she knows-NEG thing sb-it does-NEG-herF-I-NEG(Grandmother doesn't know what is making her sick.)
Sb Comp embedded:(Target is Poss)(log14) Àmhíí dà-mvu kó í kám híí fóó móó máa wogo.You-IMPVlove neighbor-your pl as as sb-you love body your(Love your neighbor as you love yourself.)(Mat. 22:39) dem as
Sb Until embedded:(Target is PN-ML)(log15) Ø dùùya ka duu né háá Ø vbí ndàà doo gò gbò.He followedplace sb-it is-good F-I-NEGuntil he trips cow leg break leave (4-40B)(He followed bad places until he tripped the cow and broke its leg.)

Sb Pur negative 'Sb Lest' embedded:(Target is PN-ML)(log16) Ìbá' Tayii, moo ka víńdó họn zò"í- lí.You-IMPV pray God, for hyp you-present enter thing tempting-
(Pray God lest you enter into temptation.)(Mark 14:38) into

At the end of REF COND it's stated the the non-<u>bi</u> types of subordinate clause may contain a <u>bi</u> pronoun only if they are embedded in one of the <u>bi</u>-pronominalizing types. The following is an example:

VN Clause embedded in an Ind Quo:

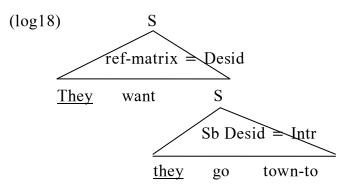
(log17) <u>Vu</u> od gbanàà bà <u>bin</u> híí waa <u>bìn</u> dònné- è. (3-54S) <u>They</u> say-to chief sb <u>they</u> want boy <u>their</u> to-circumcize-F-I (They tell the chief that they want to circumcize their boys.)

It's now clear that some matrix clauses do dominate subordinate constructions containing <u>bi</u>-pronominalization, while others don't. But since the A (trigger) is in the matrix clause, I will now distinguish the two types of construction by referring to the reference-triggering matrix as a <u>reference matrix</u> (ref-matrix). As more details are outlined concerning this phenomenon later in this section, the usefulness of this new technical term will become more apparent.

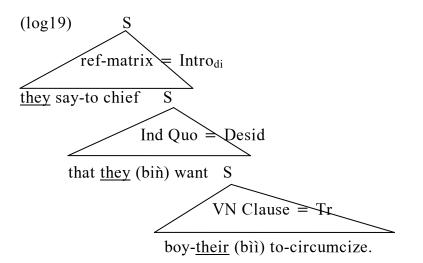
It may help to use generalized tree diagrams. The sample sentence (log1) was the following, in which I have here underlined the coreferent pronouns:

(log1) <u>Vu</u> híí <u>bi</u> làà kaa- lí. (5-219) <u>They</u> want <u>they</u> go town-to (They want to go to town.)

In the tree diagrams below, 'S' should be taken to mean either 'sentence' or 'clause', according to the structure in question.



With this example in mind, look now at the more complicated tree diagram for sentence (log17):

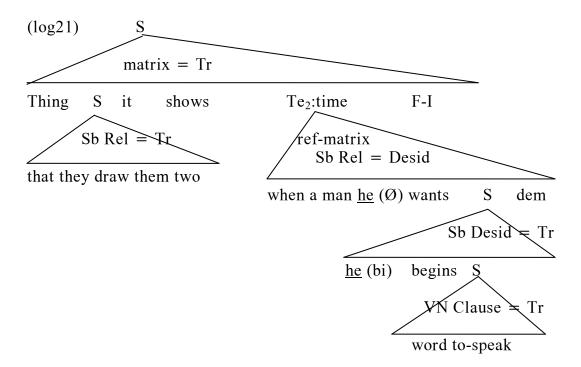


Up to this point, only examples where the ref-matrix is at the top of the diagram have been examined. It is, however, also true that the reference matrix may itself be embedded in a matrix still higher up in the tree. When this is the case, the ref-matrix brings with it intact all its referential 'baggage'. The following sentence has a matrix higher than the ref-matrix in the tree. (The speaker is explaining the use of quotation marks to new readers.)

(log20) Dàa kuu kàg vu idú ... Ø tú' sèỳ nánán <u>ka</u> Thing sb-they draw pl two ... it shows when person sb-<u>he</u>

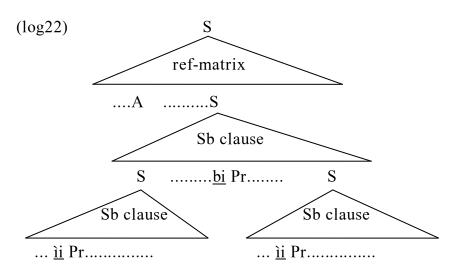
> híí <u>bi</u> dəŋ moo ỳlệ tế nɔ. (Bohnhoff et al. 1984:80) wants <u>he</u> begins word saying dem F-I (The two things they draw... show when a person wants to begin speaking.)

The tree diagram for this sentence is shown in (log21).



From the above diagram it can clearly be seen that the ref-matrix is not identical with the top-most element in the tree diagram which is customarily termed 'matrix' in linguistic descriptions.

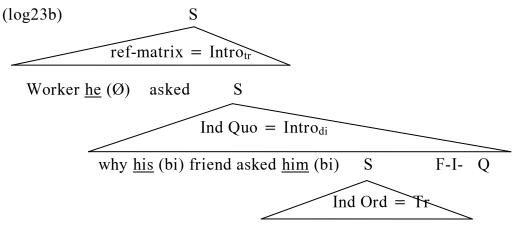
Most of the pronoun forms that occur in embedded Dii clauses have been explained in the preceding portion of this section. There is, however, one more coreference pronoun set (the <u>ii</u> subject set) to be accounted for. It occurs <u>starting two embeddings down</u> from the refmatrix clause. The following tree describes this new situation:



Two examples, with trees, follow.

(log23a) Nán ba'ad <u>Ø</u> ò moo èn dà <u>bi</u> tóó bà ka vì <u>bi</u> Man work <u>he</u> said for what neighbor <u>his</u> other sb sb-he ask <u>him</u>

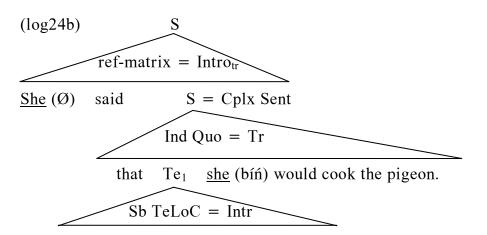
> ba <u>ìi</u> súú- wʉ ú- lá? (4-72) sb <u>he</u> repay-it F-I-Q (The worker asked why his friend asked him to repay the IOU.)



that <u>he</u> (i) repay it (the IOU)

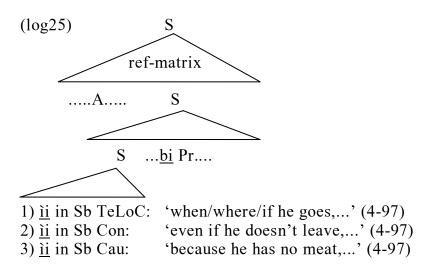
bíń dàà gbakiì- ì. (4-101)

<u>she-FUT</u> cook pigeon-F-I (She said that when she returned from the field, she would cook the pigeon.)

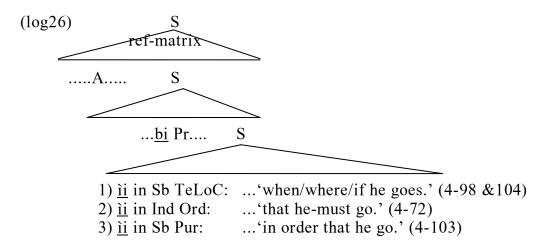


when she (ii) returned from the field,

The <u>ii</u> subject pronouns have been observed in the following initial clauses. (NB: when the subordinator <u>ka</u> occurs with <u>ii</u>, they contract to <u>kii</u>, cf. Luke 19:15.)

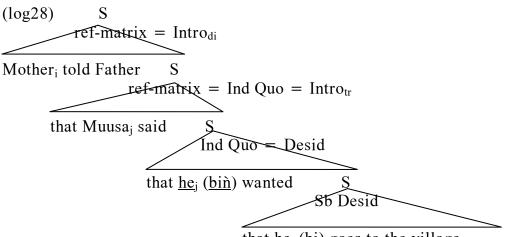


The comparable list of terminal subordinate clauses found so far to contain <u>ii</u> subject pronouns is the following:



Other subordinate clauses occurring in either initial or terminal position seem to use only <u>bi</u> pronoun subject forms, even on this second level of embedding. Object and possessive forms at any level of embedding seem also to be only <u>bi</u> forms, so there seem to be no special <u>ii</u> object or possessive forms.

Coreferentiality and pronominalization occur in a highly structured form in the Dii language through use of the <u>bi</u> forms, and a subject set of <u>ii</u> forms which cannot occur less than two embeddings down from the reference-matrix clause. What is here termed the ref-matrix may itself be embedded in other clauses, and in fact, one ref-matrix may be embedded inside another ref-matrix structure, as the following example shows. In this latter case, the nearest ref-matrix is the one that is active. Note that <u>bin</u> and <u>bi</u> are gender-neutral in Dii, like all third person pronouns, so only their logophoric reference can say they are 'masculine' because they refer to Múúsà who is a man. (log27) Nà'á Ø od bà'á Múúsà bà ò bà bin híí bi làà kaa-lí. Mother, she, tell Father M. sb-he, say sb he, want he, go village-to (4-102) (Mother, told Father that Muusa, said that he, wanted to go to the village.)



that \underline{he}_{j} (bi) goes to the village.

7.4 INTERROGATIVE DERIVED CLAUSES

All clauses in the following three moods may be transformed into interrogative clauses: factative-imperfective, factative-perfective, and imperative. In addition, emphatic derived clauses (7.5) may simultaneously be interrogative.

This section will describe Dii interrogative structures: the initial and final interrogative particles, intonation, and WH-words (<u>wh</u>o, <u>wh</u>ich,...).

- 7.4.1 initial particles
- 7.4.2 final particles
- 7.4.3 intonation
- 7.4.4 WH-questions
- 7.4.5 imperative questions

7.4.1 INITIAL PARTICLES

Both yes-no and WH-questions may begin with an initial particle <u>yèe</u> which is optionally followed by either <u>máa</u> or <u>tée</u> (both of which are 'attention-getters' and may be glossed roughly as 'listen!' or 'then,' and occur principally at the beginning of utterances).

- (qi1) Yèe máa vúń kó nénn-á? (3-86)Q then they-FUT do how-Q (What will they do, then?)
- (qi2) Yèe tée kaa lá tée, ba zòn mam na? (3-54J)
 Q then sb-one eats dem one drinks-NEG water F-I-NEG-Q (When one eats, then, can't he drink water?)

In more recent times, an initial particle <u>nàà</u> has been borrowed from Fulfulde:

(qi3) Nàà mí od ví sú'ú ná? Q-NEG I say-to you F-P NEG-Q (Didn't I tell you?...)

The particle <u>yèe</u> seems to occur frequently in utterance-initial position. It may also be used to introduce rhetorical questions.

7.4.2 FINAL PARTICLES

The final interrogative particle usually has the basic form $-\underline{a}$ but is often modified by lengthening or intonational variations linked to the emotions of the speaker. In addition, the high tone may be lowered by assimilation to the tone of the immediately preceding syllable or by

assuming the tone of the vowel it 'replaces' (see the examples below). Both yes-no and WH-questions use the same final particle.

The interrogative $-\underline{\dot{a}}$ may simply replace the final vowel of the sentence:

-- the perfective clause marker sú'ú becomes sá'áa,

--the negative clause marker né becomes ná,

--the affirmative clause marker /ú/ allomorphs:

 $-\underline{i}, \underline{\acute{u}}, \underline{n}, \underline{y}, \underline{u}, and -\underline{l}(5.1.1)$ become

 $-\underline{\dot{a}}$, $\underline{\dot{a}}$, \underline{na} , \underline{ya} , and $-\underline{l\dot{a}}$ respectively, and where no overt clause marker is used, the interrogative takes $-\underline{\dot{a}}$,

--verbal nouns, numerals, the temporal-locative /lí/ 'time-place', and <u>k5</u> <u> \hat{i} ... wogo</u> 'like', all have their final vowel replaced by <u>a</u> as a rule of thumb.

In the examples below, the affirmative form is cited on the left, and the corresponding interrogative form on the right.

(qf1)	Mó hỳ ligg- ì.	Mó hỳ liggá?
	You see house-F-I.	(Do you see the house?)
	(You see the house.)	

- (qf2) Moo Ø pé-Word it is-there-NEG-F-I-NEG (There is no reason for a quarrel.) --Moo Ø péláa? (Is there reason for a quarrel?)
- (qf3)Wúńyùgu-m- ú.--Wúń yùgumáa?He-FUT hide-you-F-I.(Will he hide you?)
- (qf4) Ø lig wòò nɔ. --Ø lig wòò naà? It house his F-I (It's his house.) (Is it his house?)
- (qf5) Míń lùù dágá dágá. --Míń lùù dágá dágáà?
 I-FUT remove one one. (Will I remove one(from each pile)?)
 (I'll remove one (from each pile).)
- (qf6) Bààbá Ø sén lààlí bab- bí né. --B. Ø sén lààlí babbí náa?
 B. he wants-NEG to-go field-to F-I-NEG (Doesn't B. want (B. doesn't want to go to the field.)
 (Doesn't B. want to go to the field.)
- (qf7) Gbaŋgòŋ Ø hò waa sú'ú. --Gb. Ø hò waa sá'áa?
 Gb. he sees child F-P (Did Gb. see the child?)
 (Gbaŋgòŋ saw the child.)

A stylistic (and perhaps rhythmic) variant inserts an epenthetic 'l' between the clause marker vowel and the interrogative marker: $-\underline{i}\underline{l}\dot{a}, \underline{i}\underline{l}\dot{a}$,

<u>nolá</u>, <u>nélá</u>, <u>sú'úlá</u>, etc. These forms are seemingly in free variation with the forms listed above in this subsection.

Influence from the trade language Fulfulde has led to the occasional borrowing of the final particle <u>naa</u>, usually with falling intonation, which follows the clause marker: <u>no naà</u>, etc.

7.4.3 INTONATION

Most Dii questions have falling intonation on the final syllable of the sentence: high-mid tone, mid-low, high-low, etc. If the morpheme preceding the interrogative particle has a low tone, the particle may remain low, or it may fall still further, creating a non-contrastive extra-low tone. Two examples ($\underline{t\acute{e}}$, $\underline{n\acute{e}}$) will be given below where the interrogative occurs with a long high <u>level</u> tone in combination with certain WH-words.

The tonal and intonational analysis of the final interrogative particle and its variants is rendered difficult by the Dii tendency to lengthen all vowels before pauses. Oscillographic analyses of a short extemporaneous speech by one Dii, for example, have been made at the phonetics laboratory of the University of Toronto. Where his short vowels in medial position have an average duration of 5.7 centiseconds (cs), his short vowels before pauses are lengthened to an average 10.1 cs. His long vowels averaged 11 cs in non-pause positions, but 18 cs before pauses.

There are no perceptual differences in intonation between Dii yesno and WH-questions.

7.4.4 WH-QUESTIONS

As has been seen in the previous subsections, Dii yes-no questions and WH-questions use identical initial and final interrogative particles, and share the same intonation patterns. We must look elsewhere for the distinctive characteristics of the two question types.

One difference is contextual: obviously, yes-no questions expect a yes or no answer, while WH-questions elicit information. (This distinction is somewhat blurred by rhetorical questions, which may have either a yes-no or WH-form in Dii, but expect no answer.) There is also a formal difference in WH-questions: the presence of a WH-word. I retain the term 'WH-word' in a technical sense, and mean by it only that Dii has a set of interrogative Pro-forms which correspond to the WHforms in English. As in most languages, the context of the WH-word, whether nominal, adjectival or adverbial, must be indefinite. This is a phenomenon already illustrated from a wide range of languages.

Most Dii WH-words have two forms: one in non-final position, the other before the clause marker. In the column on the right below, the forms in parentheses are the clause markers which occur with the WHword in questions. Examples are found immediately following the list of interrogative forms below. Two forms ($\underline{n\acute{e}}$, $\underline{t\acute{e}}$) are unique because they don't have an interrogative form in -<u>a</u>, and because their tone is long and level, in contrast to the falling intonation pattern of the majority of Dii interrogatives.

			non-final	before cm		
animate noun:		who(m)	nóo	nón(ná)		
animate	e possessive:	whose ('who its')	nóo wòò	nóo wòò (na)		
inanimate noun: adjectives: 1)		what which	è'n	ỳn(á)		
how	2) how :	much/many	née	nén(ná)/ néé		
where				té(lá)/ téé		
when ('t	time where')			sèỳ té(lá)/ téé		
why ('for what')			moo ện (pę́ń)	moo ỳn(á)		
	(q1) <u>È</u> n Ø di váń tíńn-á? (subject What it is-there granary in- Q (What's in the granary?)					
	Báń lá <u>èn</u> - á? (direct object We-2-FUT eat what-Q (What will we eat?)					
(1)	Ø lig <u>nóo wòò</u> na? (possessive It house who his F-I-Q (Whose house (is this)?)					
· · · -	<u>Nóo</u> Ø kó-m Who he do-yc	m-á? ou-Q (Who did (tł	is) to you?)	(subject)		
(q5) M I	∕lí ba' <u>nón</u> - send whor	ná? n-Q? (Whom will	I send?)	(direct object)		

- (q6) <u>Moo èn péń</u> síń nùgu ní- lá? (why) For what first he-FUT find-NEG F-I-NEG-Q (Why won't he get (it)?)
- (q7) Ví gb5 waa <u>moo èn</u>- á? (why) You hit child for what-Q (Why are you hitting the child?)

The last two examples draw attention to some differences in initial and final forms for 'why'. The morpheme $\underline{p\acute{e}n}$ 'first' may appear clause-initially, although it cannot occur clause-finally with moo $\grave{e}n$.

Secondly, there appears to be an additional optional discontinuous morpheme <u>ka...máa</u> which can also occur with <u>moo èn</u>:

 (q8) <u>Moo èn péń ka</u>a tè zóó bàà máa-lá? For what first sb-we-2 wash heart our-2 dem-Q (Why do we receive forgiveness of our sins? 'wash our hearts')

(<u>Ka</u> plus the dual pronoun <u>ba</u> becomes <u>kaa</u>.) The meaning of <u>ka...máa</u> is not known, although superficially it's homophonous with the subordinators used in relative and temporal-locative-conditional clauses. <u>Máa</u> is probably a demonstrative or recall morpheme. The example (q8), however, is not a subordinate clause!

An additional similarity with subordinate clauses is found, however, in the optionality of the <u>máa</u> element:

 (q9) Moo èn ká-m vá'a- n- á? For what ?- you greet-me-Q (Why do you say hello to me?!) [the speaker was angry with the listener that couldn't understand why he should want to greet him.]

It seems, then, that there are three options for added elements when the 'why' construction occurs clause-initially: <u>péń</u>, <u>ka</u>, or <u>ka...máa</u>.

7.4.5 IMPERATIVE QUESTIONS

Since the Dii language has a full set of \underline{an} pronouns in all persons, singular and plural, there's no difficulty in deriving a parallel set of interrogatives alongside the imperatives: only the clause marker is modified, using the same rules I've outlined above for the factative interrogatives.

- (qv1) Mam à 'wód péń. --Mam à 'wód péńnáa? Water it-IMPV dry-up first (Must the water evaporate first?) (The water must evaporate first.)
- (qv2) Ba lúú ú! --Ba lúú áa? We-2-IMPV leave IMPV (Shall we leave?) (Let's leave!)
- (qv3) Àn làà ámm-á? I-IMPV go also- Q (Must I go too?)

This construction seems to be most frequently used in the first and third persons. It doesn't seem to utilize the initial particles.

Dii interrogatives, then, use three structural signals in both yes-no and WH-questions:

1) an optional particle utterance-initially: <u>yèe (máa/tée)</u> or <u>nàà</u>,

2) a final particle whose basic form is $-\underline{\dot{a}}$ but which has a large number of variants, some replacive, some additive, and

3) except in the case of the two WH-words $\underline{t\acute{e}}$ and $\underline{n\acute{e}}$, a falling intonation pattern if the final sonorant(s) is long.

WH-questions add another structural signal: 4) the WH-words listed above.

One WH-construction is unique:

5) 'why' questions have several optional elements clause-initially.

7.5 EMPHATIC DERIVED CLAUSES

Clauses may show emphasis in several ways, or in combinations of these ways.

To emphasize the PN-ML(-T) composite pronoun subject position, one of the 'emphatic pronouns' may replace the regular pronoun, as in (e1) here which repeats (pr8) from section 3.6. However, the emphatic pronoun often <u>follows</u> the predicate, as in (e2). The symbol $\Box c$ indicates automatic 'concord' or agreement when the verbal suffix agrees with the clause marker in negativity. Emphatic elements are underlined in the examples below.

(e1)	PME P _{tr}	O_1	Lo		
	<u>You</u> see <u>Wu</u> hộ <u>Baà</u> hộ <u>v</u> i	father bà'á <u>í</u> bà'á	town-ir kaa-lí. kaa-lí.	. (5-216 & 217 n. (<u>You</u> saw fa (<u>He</u> saw) (<u>We</u> (includ (<u>They</u> saw	ther in town.) le.) saw)
(e2)	PM P _{tr}	PN	A E O ₁	CM	
	I want-l	NEG I	fooli	né. (4-9 shness F-I-NE ness, <u>I</u> don't!)	G
	The root <u>í</u>	the o	ne' or 't	he one who' n	nay give special emphasis:
(e3)	E F	PME P	tr	O_1	CM-Q
		<u>you</u> d	o thing	yę́ń-nòò è̀n seed-his what. <u>1</u> do?)	
		-		n phrase, num	eral, or limiter construction

Several examples of noun phrase, numeral, or limiter constructions modified by $\underline{\hat{a}ga}$ 'self' also bring a type of emphasis; see (np31-36) in section 4.2.1.

The emphatic pronoun follows the \underline{st} of the perfective:

(e4) PM P_{tr} CM PME O_1 Mí híjí sí <u>míí</u> siidè. (3-46) I want F-P <u>me</u> money (<u>Me</u>, I want money!) Predicates may be emphasized by inserting a pause (juncture) and then doubling the initial consonant of the verb, for example:

(e5) S PM P_{tr} O₁ P_{tr}E O₁ Lo Bàbàam Ø tii nag kpáag lla' kíd- du-lí. (3-122 + 123) Rabbit he turns hand left <u>hits</u> tar- there (Rabbit pulls back his left hand and hits the tar(-man).)

Negative forms are emphasized by adding one of the particles $\underline{s}\underline{a}\underline{m}$ or $\underline{k}\underline{\partial}\underline{d}$ to the negative clause marker:

(e6)				г		ΓC	
		S	PM	P_{tr}	O_1	ĊM	Emph
	Hęn	hóg vu '	wààpád vʉ	nùgun	hẹn lálí	né	są́ḿ!
	Thing	bush pl a	ull they	find-NE	G thing to-ea	t F-I-N	NEG at-all
	(None	of the ani	imals could t	find any	food at all!) ((4-9D)	

Affirmative clauses may be emphasized by the addition of one of the particles <u>woo</u>, <u>lo</u>, <u>sám</u>, or <u>bid</u> at the end of the clause:

(e7)	PM P _i	P _{tr}	O ₁ CM Emph			
	Vó yaa	sòò	ndàà-ì	wòò! (3-5)		
	We come look-for cow- F-I emphasis					
	(We've come to look for the cow, indeed!)					

CHAPTER 8

SENTENCES

8.0 INTRODUCTION

A Dii sentence is a grammatical unit on a level above the clause and serial clause levels but below the paragraph and discourse levels. Sentences consist of 'a single clause, of a patterned combination of clauses, or of a clause fragment (usually of phrasal structure, and often dependent in sense on other sentences in the linguistic context or on context of situation)' (Longacre 1964:125). A sentence is at least potentially capable of standing alone, with silence before and after it.

Some information on the occurrence of Dii sentences on the levels of the paragaraph and discourse is available in chapter 9 of this work, but further research needs to be done on this topic.

Present evidence indicates the following types of sentences, with section 8.7 reserved for treatment of peripheral positions:

- 8.1 imperative sentences
- 8.2 hypothetical condition sentences
- 8.3 compound sentences
- 8.4 pivoting sentences
- 8.5 simple and complex sentences
- 8.6 interrupted sentences
- 8.7 peripheral sentence positions
- 8.8 response sentences

The descriptions in 8.1 through 8.6 will treat nuclear positions (5.0.3) only, and section 8.7 will treat the peripheral positions which may accompany these sentence nuclei.

Serial clauses (factative or imperative) may occur in sentences wherever their non-serial counterparts occur. They will thus not be mentioned specifically in the remainder of this chapter.

Table 8.1 provides a compact listing of the major sentence types and their nuclear positions for purposes of comparison. See each sentence type below for an explanation of symbols used in the table. Dii sentences will be described in terms of <u>initial</u>, <u>primary</u> and <u>terminal</u> nuclear positions.

Imperative = $+ Prim_1:Impv Cl + Prim_2:Fact Cl \pm Prim^n:Fact Cl$
Hypothetical Condition = + Init:Sb Hyp + Prim:Hyp ± Ter:Sb Hyp
$Compound = + Prim_1: \underline{Fact Cl} \\ part discourse \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\$
$Pivoting = +Prim_1: \underline{Fact C1} \\ Impv Cl/ I/O \\ Impv Cl/ IPN-MR(-T) \\ Impv Cl/ PN-MR(-T) \\ $
$Complex = \pm \underline{Init^{n}:Sb \ TeLoC} + Prim:\underline{Fact-Impf \ Cl}_{Init:\underline{Sb \ Con}} + \underline{Fact-Perf \ Cl}_{Sb \ Cau} + Ter:\underline{Sb \ TeLoC}_{Sb \ Pur} + Ter:\underline{Sb \ TeLoC}_{Sb \ Con}_{Sb \ Cau} + Ter:\underline{Sb \ TeLoC}_{Sb \ Cau}_{Sb $
Table 8.1: Nuclear positions in sentences

8.1 IMPERATIVE SENTENCES (Impv Sent)

The imperative sentence has the following characteristics: 1) It contains at least two primary positions, each of whose <u>meaning</u> is imperative.

2) The first primary position must contain an imperative clause.3) An indefinite number (n) of primary positions may then follow, but they must all contain only clauses that are factative in form, while remaining imperative in meaning.

4) The subject pronouns in every PN-ML(-T) composite position must be identical in person and number throughout the sentence, although the mood shifts externally from imperative to factative.

5) All the clauses involved must be affirmative, none negative.

There are some as yet unidentified limitations on the number of clause-level positions that may occur between the first and the last predicate of the sentence. The clause marker position, for example, occurs only at the end of the sentence.

Examples:

Prim ₁ :Impv	Pri	m ₂	Prim ₃	
MPV take mo	nkey dem you	roast you	•	- · /
m ₁ :Impv	Pri	m ₂		
		-	-	á -on
Prim ₃	Prim ₄		Prim ₅	
e-down lie-on ay your mat do	-back you slee	p you sho	ore snoring	g being-good very (3-60)
	bè kỳi MPV take mo this monkey, m ₁ :Impv làà ví MPV go you Prim ₃ d yệ'ệy e-down lie-on	bè kỳỳ yỳ mốMPV take monkey dem youthis monkey, roast it, and eam1:Impvlàà ví hùùlàà ví hùùpígMPV go you put-down matPrim3Prim4udyệ'ệyví nặie-down lie-on-back you sleepay your mat down on the groute	bè kèň yè mó màa mó IMPV take monkey dem you roast you e this monkey, roast it, and eat it all!) m1:Impv Prim2 làà ví hùù píg víí dòg IMPV go you put-down mat your go- Prim3 Prim4 id yé ey ví nô ví hì ie-down lie-on-back you sleep you snow ay your mat down on the ground, lie down	bè kỳỳ yỳ mó màa mó sóý 'w (MPV take monkey dem you roast you crunch a this monkey, roast it, and eat it all!) m1:Impv Prim2 làà ví hùù píg víí dòg hág- IMPV go you put-down mat your go-up ground Prim3 Prim4 Prim4 Prim5 id yệ'ệy ví nə ví hì hìg ie-down lie-on-back you sleep you snore snoring ay your mat down on the ground, lie down, sleep

8.2 HYPOTHETICAL CONDITION SENTENCES (Hyp Sent)

The hypothetical condition sentence has the following characteristics:

1) an initial position containing a subordinate hypothetical clause (7.2.5), 2) a primary position containing a hypothetical mood clause (7.1.4), and a potential terminal position also filled by a Sb Hyp. Since the condition stated in the subordinate clause is not (at least not yet) realized in actuality, the resultant situation described in the primary clause is hypothetical.

Two examples follow. The first is embedded in an indirect quotation and therefore contains two <u>ba</u>'s--7.2.4.

(hyp1)	Init:Sb Hyp Perf				
	(bà) kà bin kón kɛb né sú'ú pệń tée, (that) hyp he-nonfut-LOG does-NEG trick NEG PERF first dem,				
	Prim:Hyp Impf				
yèe (bà) kà v u n ndùg bìì bèè í yògo yè then (that) hyp they-present tan <u>him</u> -LOG today like dem I ((that) if he had not been tricky, they would be tanning <u>him</u> today like that.) (3-130)					
(hyp2)) Init:Sb Hyp Impf				
	Tòw kà míń nán nàà- ì tée, If hyp I-present person rich-IMPF dem,				
	Prim:Hyp Impf				
	kà míń yộg lig buulí nà'à. (5-224)				

hyp I-present build house be-many very

(If I were a rich person, I'd build many houses.)

8.3 COMPOUND SENTENCES (Cpd Sent)

The characteristics of a compound sentence are as follows: 1) two constructions related coordinately: the first element may be a factative clause or some previous element in the discourse (a sentence or even a paragraph); the second element is normally a factative clause; 2) a relator position containing one of the coordinating relator roots seen in 3.14. $\underline{\text{Am}}$ 'also' at the end of a sentence may serve the same coordinating function, and the following symbol in Table 8.1 indicates one but not both relator positions must occur in a compound sentence: \pm \dagger

L_____ + _____J

Examples:

 (cpd1) Prim₁:Fact-Impf
 Bàa yè Ø hỳ ya mbìgì ka pɛ 'wààpád, Man dem he sees place hammer sb-it falls all,
 Rel Prim₂:Fact-Impf
 amáa Kəə Ø hỳn né. (3-138) but Lion he sees-NEG F-I-NEG (This man sees clearly the place where the hammer falls, but Lion doesn't.)

(cpd2) Prim₁:Fact-Impf Prim₂:Fact-Impf Rel
 Gom Ø yà ba, mam Ø 'wòd ba ám. (4-47E)
 Hunger it attacks us-2, water it dries us-2 also (We two are hungry, and thirsty too.)

8.4 PIVOTING SENTENCES (Piv Sent)

The pivoting sentence (Hockett's term, 1939) has the following characteristics:

It contains only two positions, each of which is 'primary'.
 A factative or imperative clause may occur in either primary position.
 The indirect or direct object of the first clause and the PN-ML(-T) subject pronoun of the second clause must refer to the same person or thing. In some cases, the pronoun in the second clause may refer to a larger group than that referred to by the pivoting I or O; sometimes the initial subject is added to the I or O to become plural subject of the second clause.

4) Only a direct object position and/or a post-verbal auxiliary verb may occur between the indirect object and the PN-ML(-T) positions when these latter two are in pivotal relationship.

Since the pronoun in the PN-ML(-T) position of the second clause refers to the same person as the indirect or direct object of the first clause, the second clause 'pivots' off the indirect or direct object involved. The subjects of the two clauses are thus never identical, although in some cases the first subject may 'join' the I or O person to become plural subject of the second clause.

It proves helpful to refer to 'I-pivot' and 'O-pivot' sentences. The first two examples below are of I-pivot sentences; the next two are of O-pivot sentences. Lawal (1989:6) reports an O-pivot structure in Yoruba but treats it as a type of serial construction.

(piv1)	Prim ₁	Prim ₂	
	Àm p ú -ns You-IMPV give- <u>me</u> c (Give me the clothes a		B25)
(piv2)	Prim ₁	Prim ₂	
	Ì pú-n n You-IMPV give- <u>me I</u> (Give me (the horn) a	•	
(piv3)	Prim ₁	Prim ₂	
	Àm túú ma You-IMPV pour-in <u>wa</u> (Pour water into (the b		IMPV

(piv4) Prim₁ Prim₂ Mí híjí siidè Ø pé- lí. (2-5) I want money it is-there-NEG-F-I-NEG (I want some money; I don't have any.)

A case where an auxiliary verb $(\underline{z\dot{u}\dot{u}})$ follows the O-pivot but precedes the following subject pronoun:

(piv5) Mí ba' Diinà zùù wúń 6è... (3-38) I send <u>Diinà</u> descend <u>he-FUT</u> take... (I send D. down to take...)

An example of an O with modifiers between the I pivot and the second subject pronoun (from Mark 12:15):

O-----(piv6) Ì pú- n ya siidè lámbà súúlí súu, mí hộ ó. You-IMPV give-<u>me</u> come money tax to-pay rec, <u>I</u> see F-I (Show me the payable tax money in question, (so) I see it.)

An example of an initial subject joining the O pivot to force a plural in the second subject pronoun:

(piv7) À'á Ø bèè Láádì vu làà ààm sàlí bab-bí.(4-35G)
 Gr-Mother she calls Láádì they go peanut digging field-in
 (Grand-Mother calls L. and they go digging peanuts in the field.)

Here is a case where the I pivot requires an added word from the context to disambiguate the following subject pronoun: <u>Kəə</u> is added to show that the following <u>à</u> refers to Lion's own child and not to the human child in the story:

(piv8) Kəə Ø bè wakéé pèè dàà pú waa wòò Kəə à lá ú. Lion she takes woman rec cooks gives-to Child her Lion he-IMPV eat IMPV (4-47D) ((Mother) Lion took that [known] woman, cooked it and gave it to her child Lion; he should eat it)

Note the series verbs $\underline{d\hat{\partial}\hat{\partial}} p\hat{\underline{u}}$ here show non-Dii influence, especially from Mbum in this case, because the traditional Dii would use the verbal suffix -<u>d</u>: $\underline{d\hat{\partial}\hat{\partial}}$...

8.5 SIMPLE AND COMPLEX SENTENCES (Cplx Sent)

Complex sentences have a single primary position which may be preceded and/or followed by subordinate clauses. It's useful, first of all, to distinguish between simple and complex sentences. If there is no initial or terminal subordinate clause, then the clause occurring in the primary position may be said to constitute a <u>simple sentence</u>. Three examples follow.

Fact-Impf:	Waa v u lúú ú.	The children leave.
Fact-Perf:	Waa v u lúú sú'ú.	The children have left.
Impv:	Waa vʉ, ì lúú ú!	Children, leave!

<u>Complex sentences</u> have an optional initial subordinate clause (or more, if they're Sb TeLoC), one main (obligatory) clause (or sentence), and optionally a subordinate clause in terminal position in the sentence. The following list shows which types of clause have been found in each of the 3 positions mentioned:

(cplx1) <u>initial</u>	primary	terminal
Sb TeLoC	Fact-Impf Cl	Sb TeLoC
Sb Con	Fact-Perf Cl	Sb Man
Sb Cau (<u>ka…y</u> ę̀)	Impv Cl	Sb Pur
Sb Hyp	Impv Sent	Sb Pur Neg 'Lest'
	Piv Sent	Sb Comp
	Hyp Cl	Sb Cau (<u>kayè</u>)
	• •	Sb Cau (<u>moo</u>)
		Sb Until

This list does not indicate which clauses may occur with which other ones in the list, but is indicative only of which clauses have been found in each position.

Some examples:

(cplx2) Init:Sb 7	ГеLoC F	act-Imp	f P	rim:Impv		
	Kám là Sb-you go	• 5	· ·	3	pìd ′ put-down	3333/	
Ter:Cau Fact-Impf (serial)							
moo mí mbàà di tíń wòò-lí. (3-135&6) because I sit am-here in it- in (When you arrive, put (the pot) down very gently because inside of it.)							

(cplx3)

Ka hò dàg- à gbòò ka vùd- du sí fóó ó máa, Sb-he sees neighbor-his friend sb-he exposes-him F-P body F-P dem

Init:Sb TeLoC Fact-Perf _____

ka nèn nán vu 'wàa sú'ú máa, sb-he chases man pl finishes F-P dem,

Prim:Fact-Impf (serial)

_____ Ø vę' yaa ya mà' dàg- à gbòò pèè. (3-145) he returns comes comes grabs neighbor-his friend rec (When he sees that his friend has exposed him, after having chased the men, he returns & grabs his friend.)

(cplx4) Prim:Piv Sent(Impv + Fact-Impf) Ter:Sb Pur Impv pú-n mí là úud vu ùu lá. (4-9H) Ì You-IMPV give-me I go blow-for them they-IMPV eat (Give me (the horn) and I'll blow it for them so they can eat.)

(cplx5) Init:Sb Con Fact-Impf

Kpoo ka noo yè sì', Baboon sb-he dies dem although,

Prim:Fact-Impf (serial)

_____ lòò vu bàà gbó mbàà vuù wu-lí stick they continue beat sit they there

Ter:Sb Until Fact-Impf

_____ háá Ø yà sèy Bàbàam ka fíí ya hóg- ó. (4-9N) until it arrives time Rabbit sb-he returns comes bush-from (Even though Baboon was dead, the sticks kept on beating him until Rabbit arrived, returning from the bush.)

8.6 INTERRUPTED SENTENCES

In an attempt to account for the full variety of living language phenomena (interruptions, mistakes corrected after pauses to think, etc.), an 'interrupted sentence' may be postulated. Anywhere in a sentence, obviously, the speaker may be interrupted, and these interruptions need not correspond to grammatical boundaries, although many corrections of mistakes do go back as far as the beginning of the phrase containing the item to be corrected. The sentence portion left unfinished will be called an interrupted sentence.

A speaker may also sometimes pause to gather his/her thoughts, possibly backtracking over a portion of the sentence to replace/add/ delete a word that he/she meant to say differently. Here are two examples of this latter phenomenon:

- (int1) Kəə ka gbó kèỳ máa, Ø gàỳ Kəə...Ø gàỳ kèỳ...(3-146)
 Lion sb-he kills monkey dem, he carries Lion...he carries monkey...
 (After killing the monkey, Lion carries Lion...carries the monkey...)
- (int2) Ø qd- du... Mbùù Ø qd- du.... (3-125) He says-to-him... Hyena he says-to-him...

8.7 PERIPHERAL SENTENCE POSITIONS

As with the peripheral positions on the clause level (5.0.3), all are optional and 'less important' to sentence structure than the nuclear positions. There are three sentence peripheral positions:

8.7.1 expletive (Exp)8.7.2 vocative (Voc)8.7.3 plea

I diagram their occurrence as follows, in relation to the above sentence nuclei in Table 8.1:

 $(per1) \pm Exp \pm Voc \pm Plea + Sentence nucleus / / ^$

The symbol $\ / \ / \ / \$ means the vocative position may optionally occur at the end of the sentence instead of immediately following the expletive, although most frequently the vocative is sentence initial.

8.7.1 <u>Expletive position (Exp)</u>. Expletives of exclamation (3.13.2) occur in this position:

(per2) Ká' ká', bèè báń nə ví ya yè- líi? (4-9B) Hey hey, today we-FUT sleep we place this-in-Q? (Hey, aren't we going to sleep at all here tonight?)

8.7.2 <u>Vocative position (Voc)</u>. The following elements have been found to occur in this position: proper name phrases and any noun phrase except NP_{ya}. The vocative particle <u>a</u> may follow a noun in this position: <u>bà' mía</u>,.... 'my father,...'

(per3) Héỳ pạạ pạạ, àm yaa ú. (3-125) Oh uncle uncle, you-IMPV come IMPV (Oh uncle, uncle, come here!)

8.7.3 <u>Plea position</u>. The Fulani word <u>úsèné</u> 'please' may occur between the vocative position and the sentence nucleus:

(per4) Dà- n gbòò, dà-n gbòò, úsèné, mí dẹ- m nagg-ì...! Neighbor-my friend, (x2) please, I clap-for-you hand-F-I (My friend, please, I beg you...!) (3-135)

8.8 RESPONSE SENTENCES (Res Sent)

A response sentence consists of an expletive (3.13), either of response or of exclamation (with the exception of those expletives of exclamation that seek to attract someone's attention), and is highly dependent on the preceding context:

(res1) áá'à (3-60)	No.	èè (3-127)	Yes.
hà' (4-7)	Oh!	èç (3-111)	Indeed!

CHAPTER 9

FOLKTALE STRUCTURES

Folktales may be described structurally from several points of view. Since in recent years the study of the structures of whole discourses has been intense and widespread, several distillations of key ideas and approaches have been published and proved useful in preparing the analysis proposed in this chapter (especially Grimes 1975, Longacre 1996, and Pike and Pike 1980).

Since in the previous chapters I've started with smaller and/or simpler structures and worked toward larger and more complex units, so too in this chapter, after a cursory look at the tale in its entirety, I'll work upward from the sentence to the paragraph (...to interchanges, episodes...).

This chapter deals with the following subjects:

- 9.1 overall folktale structures
- 9.2 paragraphs in the body of tales
- 9.3 introduction and dismissal of major participants
- 9.4 foregrounding of participants and avoiding ambiguity
- 9.5 backgrounding of participants and props
- 9.6 old and new information
- 9.7 interchanges, episodes,...

9.1 OVERALL FOLKTALE STRUCTURES

So far in my research, I've established that Dii folktales may have as few as three elements in their structure, or as many as six. The six possibilities are as follows, with the optional elements indicated by parentheses. Each is also here given an abbreviation.

- (1) Formal Introduction: FI
- 2 Explanatory Introduction: EI
- 3 Body of the tale: B
- 4 Conclusion of the Action: CA
- (5) Explanatory Closing: EC
- (6) Formal Closing: FC

Each of these will now be taken in turn and exemplified. Page numbers cited below refer to the second edition of Dii tales <u>Muumúuní</u> (Tanlaka 1983).

9.1.1. <u>Formal Introduction: FI</u>. The FI may begin with an interchange between teller and listener:

teller--<u>Mùumúuní</u>, listener--<u>Mùù</u>! 'A tale...tell!' which may be repeated two or three times before the following expression appears:

(1.1) Sèỳ tóó- lí máa,...(p. 1, 3) Time a-certain-in dem (Once upon a time...)

Reference may sometimes be made to the person from whom the teller (ostensibly) heard the tale, as in the following case:

(1.2) À'á Ø bàà pa'a-n moo mèh tóó- lí, Ø ò: '...'
 Grandmother she habitual tell-me word evening a-certain-on, she say: '...' (p. 14)
 (Grandmother used to tell me stories some evenings, saying: '...')

The reader will note that the suffix vowels for temporals, locatives, clause markers and verbal nouns are written in this chapter as they're published in popular literature. In addition, however, low tone is marked: $\hat{}$; and the third singular 'zero' subject pronoun's position is overtly marked by a ' \emptyset .'

Longacre calls the Formal Introduction the 'aperture' (1996:36).

9.1.2 <u>Explanatory Introduction: EI</u>. The EI introduces the tale, the major initial characters, and often gives the setting. Longacre (1996:36) calls this feature the 'stage.' Three examples follow. The abbreviation 'F-I' in the following examples means 'FACT-IMPF' (factative imperfective); see chapter 5.

- (1.3) Bàbàam Ø od Kpəəgód à ba' bi dèn sálí-i. (p. 7) Rabbit he says-to Turtle he-IMPV send him drum to-make-F-I.
- (1.4) Kaa tóó Ø di- lí, vu dòn nom vu né, Village a-certain it is-there-F-I, they bury-NEG dead pl F-I-NEG,

amáa vu vàd vu kan sààm. Pig wòò tée, vu hà' vu but they wrap them with cloths. After that dem, they put them

la' gúba kaa sàam- é. Ve' kan ve' vu bàà kó tree up-in village middle-of. Year after year they habitual do

í yògo. (p. 14) like that.

(1.5) ...mam Ø 'wód hág- á yè-lí 'wààpád. Púg vu nùgun ...water it dries-up earth-on here all. The-animals they find-NEG

mam zòlí né. (p. 10) water to-drink F-I-NEG.

9.1.3. <u>Body of the tale:</u> <u>B</u>. The body, or the tale properly speaking, follows. Sections 9.2 to 9.7 explain the structure of paragraphs making up the body of the tale, examining in detail one short but complete example of a tale, and taking a cursory look at interchanges, episodes, and their structures.

9.1.4. <u>Conclusion of the Action: CA</u>. The CA is the concluding sentence of the action section of the tale. Some students of tales don't recognize this as a separate component, but it's useful to do so for Dii tales since it's the only signal that the end of some tales has been reached. The other closing components are all optional. The verb(s) in the CA explain the finality or the end of the action, as the following two examples illustrate.

(1.6) Nán vu là kè béég,... vu gáŋ nom vu 'wààpád, vu là People they go dig grave(s),...they carry dead plural all, they go

dòd vu wu-lí. (p. 16) bury them there.

(1.7) Yạg mèn ka dó máa, kóó nónná Ø dàà vệ'
 Mouth evening which-it enters dem, even who he passes returns

làà wòò-lí lig- í. (p. 10) goes his- to house-to (When evening had come, each one returned to his house.)

9.1.5. <u>Explanatory Closing: EC</u>. The CA may be followed by an EC that explains the 'why' of the story or that draws a lesson or moral from it. Longacre (1996:36) calls this feature 'closure.' Portions of some of the EC may be semi-formulaïc in character, as the words underlined below illustrate.

(1.8) <u>Moo wòò nɔ háá zága bàà</u>, kaa nɔɔ ví tée, kaa For that F-I until day today, sb-we die we dem, sb-we ním ví ní yè no. (p. 7) wake-up-NEG we F-I-NEG dem F-I (That's why to this very day, when we die, we don't wake up again.)

(1.9) <u>Dìgà sèỳ wòò-lí háặ Ø yà 'yàgạ yè</u>, ba di ví nɔm vʉ Since time that-at until it arrive now dem, we are we dead plural

dònné hág- á. (p. 16) burying ground-in (Since that time until now, we bury our dead in the ground.)

(1.10) Ì kì moo yè duulí nà'à. Dèbtèrè Tayii wòò ám, You-pl-IMPV hear word dem good very. Book God his also

Ø did ba ví òlé- è: "Nán í kuu bóó tíň it is us us telling-F-I: 'Person the-one sb-they advance before

máa, vúń di vę́"ę́ pigim..." (p. 10) dem, they-FUT be going-back behind...' (Listen well. God's word also tells us: 'Those who go ahead will be put back...')

9.1.6. <u>Formal Closing: FC</u>. Certain stylized formulas are used to close tales, of which the following are examples. Longacre's term here (1996:36) is 'finis.'

- (1.11) Mí- w nón né, àmmo nód! (MD)
 It's-me-F-I dream-NEG F-I-NEG, you-IMPV dream
 (I'm not dreaming, you have to!...(to pass the turn on to the next person to tell a tale).)
- (1.12) Moo súu Ø dàà sí"à? Wòò-lí yệ. (Bohnhoff 1968, text A) Word rec it passes ends-Q It- at dem (Is the story over? That's it! (and it's understood that the hearer <u>not</u> continue by telling yet another tale).)
- (1.13) Dàa Ø sí' dàà wòò- lí yệ. (Bohnhoff 1968, text D)
 Word it ends passes there-at dem (That's it!)
- (1.14) Dàa Ø sí' là wu-lí. (Bohnhoff 1968, text G) Thing it ends goes there.
- (1.15) Ø 'wáa sú'ú. It finishes F-P (It's finished.)

This last expression seems to be used if the situation is ambiguous and someone wonders if that's the end, but isn't the most frequent expression used to close tales; it's used mostly by children who don't tell the tales well, or before a non-Dii who doesn't fully understand yet.

9.2 PARAGRAPHS IN THE BODY OF TALES

It should be emphasized that Dii speakers do <u>not</u> place an indication of time/tense in each of their sentences, much less with each verb, as English and French speakers often do. A single temporal expression (e.g. 'once upon a time,' or 'it happened one day') at the beginning of a tale may be the only clear indication of time in that whole tale. Most of the subject pronouns (since they and not verbs bear the tense suffixes) are atemporal in tales. One of the signals that a new paragraph is starting, however, <u>may</u> be a temporal expression, usually indicating that a short time has passed since the action described in the previous paragraph; see P.1 below.

Many sentence-initial subordinate clauses also contain elements that have temporal significance ($\underline{k}\underline{a}...\underline{m}\underline{a}\underline{a}$ 'dem = past' or <u>tée</u> 'dem = future'). These clauses usually also indicate a transition between paragraphs, and they often redundantly recapitulate a part (or all) of the action of the preceding paragraph. For example, in one paragraph of one tale, the Hunter embarrasses and exposes his friend the Lion. The next paragraph begins: 'When he saw that his friend had embarrassed him,...' (3-145). The Dii signals in this sentence are: <u>ká... ká... máa,...</u> Grimes terms this type of linkage 'chaining' (1975:95-6, 259, 316-8).

Dii paragraphs are signaled by one of the following five structural indicators. They will hereafter be referred to as P.1, P.2, etc.

<u>P.1: 'Short-time' expressions</u>. By this term is meant that only a short time is indicated to have lapsed between the preceding and the following actions in the tale. Some examples follow. It's not usually 'clock time' in hours and minutes, but relative time that's indicated (Grimes 1975:36-43, 230-2).

- (2.5) Yạg mèn- né máa, Mouth evening-in dem (That evening,...)
- (2.6) Yạg mèn ka kó máa, Mouth evening sb-it does dem (When evening came,...)
- (2.7) Yạg mèn-né, Mouth evening-in,...
- (2.8) Pig wòò-lí máa, After that-at dem,...
- (2.9) Zága-lé máa, Day-on dem (Later in the day,...)
- (2.10) Yạg kà 'ạm ka tú máa, Mouth morning sb-it clears dem (When morning came,...)

(2.11) Tíý waaná' máa, Ahead a-little dem (A bit later,...)

(2.12) Zàa máa, A-bit dem (A bit later,...)

These 'short time' expressions are to be distinguished from the 'another day' or 'another time' expressions seen below in 9.7 to introduce episodes.

<u>P.2: Sentence-initial subordinate clauses</u>. In Dii tales, many initial subordinate clauses are temporal-locative-conditional (Sb TeLoC), but some are concessive (Sb Con). They all serve to introduce paragraphs. Especially for the Sb TeLoC clauses, the content of the clause is likely to be recapitulative of part (or all) of the content of the preceding paragraph. In this way, these Sb TeLoC usually contain what is termed 'old information' (see 9.6), data either described in or inferred from the preceding context. Occasionally, however, a Sb TeLoC or Sb Con may contain 'new information' in Dii tales, information not previously introduced by the teller.

<u>P.3: Exclamatory expressions</u>, more or less strong, may also introduce paragraphs:

(2.13) <u>àséé</u> well then, <u>kàdì</u> or <u>kàd</u> so, <u>ndáá</u> hey, <u>amáa</u> but.

<u>P.4:</u> Following a direct quotation, the next sentence will begin a paragraph, since a change of foregrounded participant is usually included at this point in tales.

<u>P.5: Noun/pronoun occurrences</u>. A key criterion for giving paragraphs the current structural definition is how nouns and pronouns are used to introduce (and reintroduce) participants in a tale, and how they're referred to later in the same paragraph. This noun-pronoun interchange is so complicated that it merits the whole section 9.3 below. At this point I merely want to stress the importance of this point in the definition of what a paragraph is.

* * * * * * * * * *

Before going further in explaining the structures of the Dii tale, it would be beneficial to examine one entire tale, with its major parts labeled in the left margin. A literal translation will not be given here (see 9.4), nor will the hyphens used elsewhere be used here, but between the paragraphs below, a free English translation is inserted. In the body of the tale, P.1, P.2, etc. are placed in the left margin to explain which of the paragraph signals is used in each instance.

The following tale was written down by Pastor Kadia Mathieu, and is therefore not a transcription from a recording.

The symbol ' \emptyset ' (called 'zero') indicates that the subject pronoun is in the third person singular. All other subject pronouns have overt forms, so 'no pronoun' = third person singular. In referring to noun and pronoun usage later in section 9.4, this \emptyset symbol will be most useful, so I include it here even if the reader doesn't see its usefulness yet.

Súsuu vu kan Yà'àdè (Spider and Dog)

FI EI	Sèỳ tóólí máa, S úsuu Ø dòg yạg saa moolé be"í.	1 2
	(Once upon a time, Spider went courting up in the heavens.)	
	Ka dòg máa, Ø là màà wakę́ę́ waa vʉ wʉlí dʉʉlí nà'à. Ø mòò vʉ yạg saa. Vʉ mbàà kannɔ sèỳ 'wààpád.	3 4
	(When he went up, he found many Young Women there. He courted them. They were together all the time, again and again.)	
В	Sèỳ tóólí máa, Ø vệ' z ùù hágá ya màà Yàỳảd, Ø ọddʉ: "Dan gbòò, àm yaa ba dòg be"í. Náá gíb waa vʉ hìỳ dʉulí."	5 6
	(One time he returned to earth, found Dog and said to him, 'My friend, come, let's go up to the heavens. There are lots of Young Women up there.')	e
P.4	Yà'àd Ø híí: "Tò, ba dòg sínná."	7
	(Dog answered, 'OK, let's go.')	
P.4	Súsuu Ø bè ndèy wòò túú. Yàỳàd Ø đáá dùù wulí háá vu dògga yà be'.	8 9
	(Spider took his web, spun it, and Dog climbed up on it t arrive in the heavens.)	0
P.2	Sèỳ k uu di lààlí lig náá gíb waa pèè vòòlí máa, S úsuu Ø	10

od Yà'àd: "Sèỳ kaa yà là wakéé waa yè vòòlí, kuu mòò moo víd 11
péń, káń hí'i tée, àm hí'i móó sá. M5 kì sá'áa?"

(While they were going to the house of those Young Women, Spider told Dog, 'When we get to these Young Women's house, and if they tell a joke and I laugh, don't you laugh! Do you hear?')

(Dog answered, 'Yes.')

P.4 Súsuu Ø gàà nú' bìì bà duu né, tò Yà'àd bà à hí'i, bà ùu hộ
nú' wòò sú'ú tée, bà vúń sén bi ní, moo Yà'àd nú' wòò Ø duu
15 mbàà ná'.

(Spider knew that his teeth weren't pretty, and if Dog would laugh, and if they should see Dog's teeth, then they wouldn't like <u>him</u>, because Dog's teeth were just beautiful.)

P.2 Kuu yà là máa, náá gíb waa pèè vu pú vu ya mbààlí duulí 17 nà'à. Vu pú vu kan hẹn lálí ám.

(When they arrived, the Young Women very politely gave them places to sit. They gave them food, too.)

P.1Pig wòò máa Súsuu Ø lúú là đáá mbàad wakę́e waa pèè vu19nagá, vu fóó háą.Vu hí'i ya vòò pád.20

(Afterward, Spider got up and went to sit right by the Young Women, and they played a long time. They were all laughing together.)

P.3Amáa Yà'àd Ø hí'i né, Ø mbàà simná.21

(But Dog didn't laugh; he sat silent.)

P.1 Tíń waaná' máa, vʉ mòò moo víd, vʉ là zà' Yàjàd. Yàjàd 22
Ø hí'ɨ háá. 23

(After awhile, they cracked a joke and went and touched Dog. Dog laughed out loud a long time.)

P.2 Sèỳ wakę́ę waa pèè kuu hộ nú' Yà'àd wòò ka duu nà'à 24 máa, vu nèŋ Súsuu ndèy gbò. Vu bè Yà'àd 'yé vòòlí, Ø mbàà kan 25

P.4 Yà'àd Ø híí: "Èè." 13

vu. Súsuu Ø kó zóó yéé dàà fíí zùù hágá. Yà àd Ø kéé sí pigim 26
wu dágá. Ø mbàà kan vu háá Ø tàà. Ø od vu: "Mí híí fíiní zùù 27
hágá." 28

(When the Young Women saw Dog's very beautiful teeth, they chased Spider off. They surrounded Dog and he sat with them. Spider got angry and went back down to earth. Dog was left there alone. He sat with them a long time until he was tired. He told them, 'I want to go back down to earth.')

P.4 Náá gíb waa pèè vu sùg sààm talí vòò gíń lúggà wulí, 29 vu ta Yà'àd wulí, vu wàawo gbò zùù hágá zug. 30

(The Young Women gathered up their wrap-arounds, tied them together very long, attached Dog to them, and lowered him to earth zug.)

CA Ø lúú dàà làà wòòlí ligí.

31

(He got up and went to his house.)

9.3 INTRODUCTION AND DISMISSAL OF MAJOR PARTICIPANTS

In the tale above, only Spider and the Young Women are introduced in the Explanatory Introduction EI, while Dog is introduced as a participant only in the first line of the Body of the tale. It's thus clear (and other Dii tales bear this out) that in Dii, not all major participants are introduced in the introduction of a tale (but <u>some</u> always are). A major participant might not be introduced until far into a tale (cf. Baboon in The Cornucopia, Bohnhoff 1968, text G).

The tale in 9.2 also illustrates the point that in Dii, not all major participants are formally 'dismissed' at the end of the tale. Spider leaves in rage at line 26 and isn't mentioned after that, and the last reference to the Young Women is in line 30 (pronoun subject), so only Dog is left to be dismissed in the Conclusion of the Action (CA) section of the tale. This situation contrasts, therefore, with that of the kicca/moral story type of tale in Fulfulde, where 'major participants are normally introduced in the formal opening and dismissed in the formal close' (Stennes 1969:76).

Major participants must be introduced by using a noun, however, never just a pronoun (cf. Stennes 1969:51 for a similar situation in Fulfulde). Dismissal may be by simple pronominal reference, as for Dog in line 31 in our tale above, or it may be by nominal reference (Spider in line 26).

9.4 FOREGROUNDING OF PARTICIPANTS AND AVOIDING AMBIGUITY

As a tale is told, one or more of the major participants is at the center of attention; i.e., he/she is in the foreground (see 'prominence' in Grimes 1975:327). These 'foregroundable' participants are usually animate, can initiate actions and events, and are usually few in number in a given tale. Such foregroundable participants are to be distinguished from non-central participants that are left in the background, don't initiate actions, and may be called mere 'props' in the story (Grimes 1975:43-4). The structures used in backgrounding participants and props will be discussed in detail in section 9.5 below.

By way of concrete example, there are only three foregroundable participants in the tale in 9.2: Spider, Dog, and the Young Women. The props, on the other hand, are numerous but not active in the events: sky, Spider's web, house, tooth, seats, food, jokes, earth.

The participant to be foregrounded in Dii tales is introduced according to the following rule R; R and the four major exceptions to it (E1, E2, etc.) are explained in detail below.

<u>Rule R</u>: A participant may be foregrounded

- 1) only in a clause in a primary sentence position, or in a Sb TeLoC clause in sentence-initial position,
- 2) only by referring to him/her using a noun (or a non-personal pronoun) and
- 3) only in subject position.
- 4) In following sentences, this same participant is referred to by the subject pronoun until the teller desires to foreground another participant.

NB: the subject position of any other subordinate clause is never used to foreground a participant. It's immaterial whether these other subordinate clauses occur following the primary position in a sentence, or whether they precede it. (In this latter case we may speak of this clause as marginal, and in the 'pre-margin' of the sentence.) A pre-margin clause which is the equivalent of an expression of passage of time (e.g., <u>vìd ka sà' sú'ú máa</u>, 'when night had fallen'), is also never used to foreground a participant. <u>Exception E1</u>: When the tale teller <u>recounts conversations</u>, the foregrounded participant may be changed by the use of the pronoun subject without the use of a noun: $pr_1... pr_2... pr_1... pr_2...$ (e.g. he said,...) you said,... he said,...).

<u>Exception E2</u>: If one participant reference is <u>singular</u> and another <u>plural</u>, the foregrounded participant may be changed simply by switching the subject pronoun from singular to plural (or vice versa), without resorting to the use of a noun: $pr_{s...} pr_{pl...} pr_{s...} pr_{pl...}$ (e.g. he said,... they said,... he said,...). A similar structure to E2 is noted for Tikar by Stanley (1982:125).

<u>Exception E3</u>: In what is called the dative clause, the foregrounded participant is obligatorily in indirect object position, while the grammatical subject is in the background. See 5.1, section i) for a fuller explanation; an example follows.

(4.1)	Zģģ	Ø dę'	Mbùù	sť'ú.
	Hear	t it makes-happy	' Hyena	F-P (Hyena is happy.)

<u>Exception E4</u>: The direct or indirect object in one clause may be moved to the foreground in the immediately following sentence by simple pronominal subject reference, without repeating the noun (or nonpersonal pronoun). In a variant of this procedure, a preceding direct or indirect object participant may be <u>added to</u> the already foregrounded subject (and the subject pronoun becomes plural, for example) without repeating the noun(s) involved.

This pattern of foregrounding (introduction by a noun, subsequent reference by a pronoun, and a later re-foregrounding by a noun form) is similar to that noted in Tikar by Stanley (1982:122). This type of redundant anaphoric linkage pattern is described by Grimes (1975:351) as making use of inclusion hierarchies by repeating with a less specific word than the one used the first time, e.g. proper name... pronoun...

Before commenting further on foregrounding procedures, I want to display the tale in 9.2 in such a way that foregrounded participants and the event line contents stand out. The column on the far right refers to the rule and its exceptions to illustrate these procedures in detail. This tale contains examples of E2 and E4, but other tales must be consulted for illustrations of E1 and E3. See Grimes (1975:82-91) and Wiesemann et al. (1984:10-5, 193-240) for the type of chart used to display tale structures here. The contents of each column begin under their heading, but are allowed to extend to the right as far as necessary; this is more convenient than trying to squeeze longer items into such narrow columns. The <u>event line</u> (or <u>time line</u>) below in narratives (Longacre's 'storyline', 1996:21), relate one after the other, the events as they unfold in the tale.

Although foregrounding is not connected to paragraph structures in the Dii language, the paragraph breaks are indicated on the following chart by: 'para. - - ...'

The line numberings on the left margin correspond to the presentation made in 9.2. The contents of the background column will be taken up in section 9.5. Literal translations are inserted between the lines of Dii text.

line	transition	n foreground	l event	background citation	setting 1	rule
1	Sèỳ tóól í Time a-c	máa, ertain-in de	m			
2		S úsuu Ø Spider he	dòg go-up			R
			moolę́ speaking	yąg saa mouth youth	be"í. sky-in	
para						
3	Kamá Sb dem	a, (-à)	dòg			R
	So dem	he	go-up			
		Ø he	là màà go find	 wakéé waa vʉdʉʉl women small plural.		R
					w u lí there	
4		Ø He	mòò say-to	vʉ yag saa. them mouth youth.		R
		V u They	mbàà sit	kannɔ sèỳ 'wààpád. with-him time all.		E4
para						

line transition	foreground	event	background	citation	<u>setting</u>	<u>rule</u>
5 Sèỳ tóólí Time ano	máa, ther-at dem					
	Ø he	vę́' z ùù return desc	end		hágá earth-on	E4
		ya màà come find	Yḁ̀'à̯d, Dog,			
	Ø he	od- say-to	-dʉ: him:			R
6				"Dan gbo "My frie	oo, àm end, you-m	ust
			 	yaa ba d come we	òg e-2 go-up	
			 	be"í. Ná: heaven-t	á o. Young	
			 	gíb waa Women	v u small they	7
			 	hì' d uu lí are-full 1		
para 7	Yà'àd Ø Dog he	híí: answer:	 			R
			 		dòg sínná.' -2 go then	
para 8	S úsuu Ø Spider he	бè take	ndèy wòò web his			R
		t úú . spin.	 			
	Yà'àd Ø Dog he	đáá dùù climb follo	 		w u lí, it-on,	R

<u>line</u>	transition	foreground	event	background	<u>citation</u>	<u>setting</u>	<u>rule</u>
9	hậậ until	v u they	dògga yậ go-up arriv	 		be'. heaven.	
para 10	Sèỳ kn Time sb c			 			
		- uu they	di be-in-proce	 ess-of			E2
			lààlí going		house Y	lig náá gi Joung Wo	
					sma	waa pèè all rec the	
		S úsuu Ø Spider he	od say-to	 Yḁ̀'ḁ̀d: Dog: 			R
11					"Sèỳ kaa 'Time sb	yà yewe arriv	e
					là wakéé go Wome	waa yè en small c	lem
					vòòlí, k u their-at,		
						o víd pę́ń, l joke first	t,
12					káń hí'i t sb-I laug	,	
					àm hí'i n you-IMP	nóó V laugh y	'ou
				1	sá. Mó k IMPV-N	ì EG. You I	hear
				1	sá'áa?" F-P?'		
				I			

line transition	n foreground	l event	background citation setting rule
para	Yà'àd Ø Dog he	híí: answer:	"Èè." R 'Yes.'
para 14	S úsuu Ø Spider he	gàà know	R
			nú' bìì bà tooth his that-it
			d uu né, tò be-pretty F-I-NEG, if
			Yà 'àd bà à hí 'i, Dog that he laugh,
			bà ùu hò nú' that they see tooth
15			wòò sú'ú tée, his F-P dem,
			bà v ú ń that they-FUT
			sén bi ní, like-NEG him F-I-NEG,
			moo Yà'àd nú' wòò because Dog tooth his
16			Ø d uu mbàà ná'. it is-pretty very much.
para 17 Kmáa			'
Sb dem	, - uu	yà là	E2
	they	arrive go	
	náá gíb wa Young Wo	a pèè v u omen small :	R Rec they

line transitio	n foreground	<u>l</u> event	background citation setting rule
		p ú give	vu ya mbààlí duulí nà'à. them place to-sit good very.
18	V u They	p ú give	vʉ kan hẹn lálí ậm.R them and thing to-eat too.
para 19 Pig wòò After th			'
	S úsuu Ø	lúú là đáá	R
	Spider he	arise go cl	R
		mbàad sit-by	wakę́ę waa pèè Woman small rec
			vu nagá, plural hand-by,
20	v u	fóó	hậậ. E4
	they	play	a-long-time.
	V u	hí'i	ya vòò pád. R
	They	laugh	place them all.
para	Yà'àd Ø	hí'i	né, R
21	Dog he	laugh	F-I-NEG,
	Ø	mbàà	simná. R
	he	sit	silent.
•	ná' máa, ittle dem,		
	v u	mòò	moo víd, E2
	they	speak	word joke,
	v u	là zà'	Yḁ̀'ḁ̀d. R
	they	go touch	Dog.
23	Yà'àd Ø	hť'i	háá. R
	Dog he	laugh	a-long-time.

line transition	n foreground	event	background citation	setting rule
para 24 Sèỳk Time sb e			'	
	wakéé waa women sm	pèè uu all rec they		
		hỳ see	nú' Yà'àd wòò ka du tooth Dog his sb-it is	
25	v u they	nèŋ chase	S úsuu ndèy Spider web	R
		gbò. leave.		
	V u They	6è take	Yàၞ'ḁ̀d Dog	R
		'yé put		vòòlí, them-with,
	Ø he	mbàà sit		kan v u . E2 with them.
26	S úsuu Ø Spider he	kó do	zóó yéé heart red	R
		dàà fíí z ùù pass return		hágá. ground-to.
	Yà'àd Ø Dog he	kéé is-left	sí pigim, F-P behind,	R
27	w u he		dágá. one.	R
	Ø He	mbàà sit		kan v u R with them
hậậ until	Ø he	tàà. is-tired.		

line transition foreground event		background ci	itation setting	<u>rule</u>	
	Ø He	od say-to	vʉ: them:		R
				Mí híí fíiní I want return	
28				ùù hágá." escend earth-to.	,
para	Náá gíb w Young Wo	aa pèè vʉ omen small 1	ec they		R
		sùg gather	 sààm talí vòò cloth to-tie th		
		gíń knot-up			
		l ú ggà be-long-go	 	w u lí, there,	
30	v u they	ta tie	Yḁ̀'ḁ̀d Dog	w u lí, it-to,	R
	v u they	wàa- lower-	-wç him		R
		gbò z ùù leave desc	 end 	hágá zug ground-to	
para	Ø He	lúú dàà làà leave pass	•	wòòlí li his-to hou	

The rule R and its four exceptions account for 93.6% of all subject noun and pronoun occurrences in a sample of 10 Dii folktales. The symbol '(R)' in Table 9.1 indicates when an 'extra' noun occurs in addition to the subject pronoun already expected, creating extra redundancy (or for some other as yet unknown reason). Table 9.1 lists the tales examined, including a reference to a published edition or to my data notebooks. The last tale in the table is the tale that was just analyzed above. The appearance of some other Dii pronouns (the logophorics, e.g., see 7.3) is controlled by factors of reference on the sentence level, and isn't therefore a concern in this section on foregrounding. Several pronouns in the background column are of this type, and will be treated in section 9.5.

The term <u>wulí</u> 'there/in-it/with-it' is used where locative or accompaniment reference needs to be made and the teller doesn't want to repeat the noun. <u>Wulí</u> in line 3 refers back to <u>be'</u> in line 2, and in line 8 it refers back to <u>ndèy wòò</u> (also in line 8). <u>Wulí</u> in lines 29-30 refers back to <u>sààm talí vòò</u> in line 29.

Pronouns and the locative/accompaniment referent \underline{wuli} provide options to Dii tale tellers when they want to avoid using a noun. Wuli, however, must refer back to a noun in the immediate context, not to one further back in the tale.

An adjective <u>súu</u> 'just mentioned' also refers to a noun in the immediate context, but unlike <u>wulí</u>, the <u>noun must be repeated</u>. The function of <u>súu</u> is thus not to avoid the repetition of a noun, but to assure the listener(s) that this noun refers to the same participant as the participant just mentioned. It thus disambiguates noun references.

The adjective <u>pèè</u>, which occurs several times in the tale cited above, also has a disambiguating function. It means 'already mentioned,' but its field of reference is much larger than that of <u>stiu</u>. <u>Pèè</u> (or <u>tèè</u> for some speakers) may refer to a noun used much further back in the tale, or (in real life situations) may refer to a person or thing talked about several days (or even weeks or years) ago.

The three recall adjectives $\underline{s\acute{uu}}$, $\underline{p\acute{e}\acute{e}}$ and $\underline{t\acute{e}\acute{e}}$, therefore, all function to disambiguate nominal references, and all require that a noun be present that they can modify. However, the noun used in a given reference might not be the exact noun used earlier! The participant referred to must be the same, but the noun may differ. See <u>wakéé waa vu</u> 'Young Women' and <u>náá gíb waa vu</u> 'Young Women of marriageable age' used interchangeably in the tale above, both with <u>pèè</u> (lines 10, 17, 19, 24, 29). This confirms Grimes' distinction between 'reference' and 'identification' (1975:45-50).

The three recall adjectives in question also share another trait: they are used with common nouns, never with proper nouns. In the tale above, Spider and Dog are never modified by <u>pèè</u>, because they are regarded as proper names for anthropomorphized major participants. The women, however, are referred to by a common noun, and in the tale above, <u>pèè</u> occurs several times with the nouns used to refer to them. But <u>pèè</u> is optional, and may be used with any of several participants or props, or with several simultaneously, to keep references straight in the mind of the teller and his listeners.

One final comment needs to be made concerning how the Dii tale teller foregrounds participants. We need to know <u>how many</u> nouns and <u>how many</u> personal pronouns are involved in this procedure. The totals are listed in Table 9.2. It's significant that personal pronouns are used more than twice as frequently as nouns when referring to foregrounded participants in the ten folktales examined. The striking difference between this ratio and that used in backgrounding procedures will be demonstrated in 9.5.

Name of the tale	<u></u>	<u>E1</u>	<u>E2</u>	<u>E3</u>	<u>E4</u>	<u>(R)</u>	?
Bàbàạm kan Gbakììì (Bohnhoff 1968, text D)	52	0	0	1	1	2	0
Nàa báa id ú (Bohnhoff 1968, text B)	40	3	1	2	2	1	2
(Bohnhoff 1968, text E) (Bohnhoff 1968, text E)	46	0	6	2	0	3	1
(Bohnhoff 1908, text E) Kəə mbàà gímná (Bohnhoff 1976, text TJ2)	54	1	1	3	0	0	2
Bàbàam zò' Ndàgàd sóo (text 4-48F)	56	1	1	0	0	1	6
Hộg kộộlệ (text 4-47E)	20	0	1	1	0	2	0
Nom v $_{\rm H}$ kan Mbùùì (text 4-47J)	19	0	0	1	0	2	0
Kəə vu kan Nánán vu yu (text 4-47B)	56	0	4	1	4	8	1
Bàbàam vu kan Gà' nannè (Bohnhoff 1968, text G)	155	2	6	4	4	8	1
Súsuu vu kan Yà'àdè (text 4-47F)	30	0	4	0	4	0	0
Totals	528	7	24	15	15	27	13
Percentage of grand total of 629 occurrences:	83.9	1.1	3.8	2.4	2.4	4.3	2.1
Table 9.1: The number of nouns and pronouns used to refer to foregrounded participants in 10 folktales							

Name of the tale_	<u>n</u>	<u>pr</u>			
Bàbàạm kan Gbakììì	20	56			
Nàa 6áa id ú	20	50 52			
Mbùù kan Nommè	20	57			
Kəə mbàà gímná	23	61			
Bàbàạm zò' Ndàgàd sóo	28	65			
Hóg kýşlę	15	25			
Nom v u kan Mbùùì	14	28			
Kəə v u kan Nánán v u y u	41	72			
Bàbàam v u kan Gà' nannè	107	180			
Súsuu vu kan Yà'àdè	15	38			
Totals	305	634			
Percentage of grand total of 939 occurrences:	32.5	67.5			
Table 9.2: Total number of nouns and personal pronouns used in 10 tales to refer to foregrounded participants					

9.5 BACKGROUNDING OF PARTICIPANTS AND PROPS

Although at several points reference has already been made to the existence of backgrounded participants and props, no thorough explanation has as yet been given of how a Dii tale teller uses nouns and pronouns to signal this information.

Before making any specific assertions concerning whether a backgrounded referent or prop may be specified using a noun or a pronoun form, I'd like to reiterate several assumptions I'm making.

<u>Assumption 1 (A1)</u>. Since the subject pronoun is always pronounced earlier in the sequence of morphemes than the direct or indirect object(s), it's assumed that all references to foregrounded participants are clear and are as already outlined in the Rule R and the exceptions E1, E2, E3, and E4. <u>Please note: if a referent isn't</u> foregrounded (or 'foregroundable' as in B2 below), it's assumed to be backgrounded.

<u>Assumption 2 (A2)</u>. The logophoric <u>bi</u> pronouns (7.3), whether as subject or object, always refer back to the preceding matrix subject pronoun, and are therefore always clear in their referents. They form part of the assumed context for treating the remaining direct/indirect object forms.

<u>Assumption 3 (A3)</u>. The recall adjectives \underline{stu} , \underline{pee} , and \underline{tee} have been treated in detail at the end of 9.4; all three are used only with nouns, so the use of a pronoun with them is excluded, whether the noun refers to a foregrounded or backgrounded major participant, or to a prop.

<u>Assumption 4 (A4)</u>. If the narrator chooses to use a possessive, this possessive is always used with a noun to refer to a participant or prop.

<u>Assumption 5 (A5)</u>. Exception E3 in section 9.4 states that the indirect object of a dative clause is always foregrounded, so its grammatical subject, whether a noun or a pronoun, is therefore backgrounded. This is the only case where a backgrounded participant may be referred to by the grammatical subject in clauses on the event line of the story.

The contents of direct quotations must be analyzed as wholes, and separately from the larger texts within which they occur; these quotations are therefore beyond the scope of the analysis in this section. We're now ready to look closely at the backgrounded participants and props occurring with verbs on the main event line of the tale. We'll see whether nouns or pronouns are used to refer to them, and what the conditioning factors are. Following the three 'background assertions' B1 to B3 below, the tale in 9.2 will be examined once again.

<u>Background assertion 1 (B1)</u>: Almost all backgrounded participants and props are introduced (or mentioned subsequently) in an object slot, and usually by using nouns. Once a backgrounded participant or prop is introduced, he/she/it may be referred to later by a non-personal pronoun ('that one', etc.), a limiter ('all', etc.), or by a pronoun.

In addition, <u>the most recently backgrounded participant or prop</u> <u>introduced in an object slot seems to be held in an 'immediate</u> <u>background' temporary memory area, and may be referred to in the</u> <u>immediate context by a personal pronoun, by the use of wulf 'on-it, with-</u> <u>it,' etc.</u> Other than in the immediate context, reference to a backgrounded participant by the use of a personal pronoun is almost impossible.

The column 'n' (noun) in Table 9.3 lists for each of 10 tales the number of nouns used to refer to backgrounded participants and props. The column 'pr' gives the number of personal pronouns used to refer to those same participants and props. It's easily seen that nouns are used much more frequently than personal pronouns to refer to the backgrounded participants and props in these tales: 80% and 20% respectively.

<u>Background assertion 2 (B2)</u>: It seems a distinction between <u>foregroundable</u> participants and non-foregroundable participants is useful. When in a tale (of only 2 foregroundable participants, singular or plural) the subject slot indicates alternate foregrounding of first one, then the other, the object pronouns always refer to 'the other one,' i.e. whichever foregroundable participant is not at the moment being foregrounded.

When this rule is applied, a direct or indirect object personal pronoun is always used to refer to the participant, and the context is considered unambiguous. Personal pronouns are freely used in this way when referring to foregroundable participants alternating in object position.

Props, however, are always in the background and are never 'foregroundable' as just defined above. See the first paragraph in 9.4 for the full definition of a prop. It seems that we must recognize, on the basis of Dii tales, <u>a three-tiered focus structure</u>; --1st participants may be in the foreground, or --2nd foregroundable; and --3rd all other participants and props are out of focus.

<u>Background assertion 3 (B3)</u>: If a narrator refers to a participant or prop as the grammatical object of one of the 'obligatory transitive' verbs, this object is usually a noun instead of a pronoun. The column B3 in Table 9.3 indicates there are quite a few obligatory transitives used in the 10 tales of this sample.

We're now ready to illustrate these points by application to the tale already examined in 9.2. Again, the line numberings on the left correspond to the presentation made in 9.2, and the A2-A5 and B1-B3 references are placed on the right margin. Since locative and temporal references (nouns and pronouns) seem to follow the same sort of rules as for the backgrounded participants and props, all will be listed together below, with (lo) or (te) to identify the latter two types of constructions.

line	background	rule(s)
2	yag saa 'courting' ba'('í) '(in tha) baayana' (la)	B1,B3 B1
3	be'('í) '(in the) heavens' (lo) wakęć waa vu 'Young Women'	B1,B3
	wulí 'there' (=be"í, lo)	B1
4	vu 'them' (=Young Women)	B1
	yąg saa 'courting'	B1,B3
	(kan)no '(with) him' (=Spider)	B2
	sèy 'wààpád 'all the time' (te)	B1
5	hág(á) '(to the) earth' (lo)	B1
	Yà̧'ạ̀d 'Dog'	B1,B3
	(od-)-du '(said-to) him' (=Dog)	B2
8	ndèy wòò 'his web'	A4,B1,B3
	wulí 'on-it' (=the web, lo)	B 1
9	be' 'heaven'	B1,B3
10	lig náá gíb waa pèè vòòlí	
	'house Young Women recall their-to' (lo)	A3,A4,B1
11	Yḁ̀'ḁ̀d 'Dog'	B1
14	nú' bìì 'his teeth'	A2,B1,B3
	Yàj'àdà 'Doghe'	B1
	ùu 'they' (=Young Women)	B2
15	nú' wòò 'his teeth' (=Dog's)	A4,B1
	vúń 'they-would' (=Young Women)	B2
	bi 'him' (=Spider)	A2
	Yàǎảd nú' wòò 'Dog's teeth'	A4,B1
17	vu '(to) them' (=Dog, Spider)	B2
	ya mbààlí 'place to-sit'	B1,B3

18	vu '(to) them' (=Dog, Spider)	B2
	hen lálí 'thing to-eat'	B1,B3
19,20	wakęć waa pèè vu nagá	
	'Young Women recall plural hand-by' (lo)	A3,B1
20	ya vòò pád 'they all together'	B1
22	moo víd 'word funny'	B1,B3
	Yà'àd 'Dog'	B1,B3
24	nú' Yà'àd wòò ka d uu nà'à máa,	
	'teeth Dog his which are-beautiful very that'	A4,B1,B3
25	S úsuu ndèy 'Spider'	B1,B3
	Yàj'àd 'Dog'	B1,B3
	vòòlí 'them-among' (=Young Women) (lo)	A4
25,26	kan vu 'with them' (=Young Women)	B2
26	zóó yéé 'heart red' (=anger)	B1,B3
	hágá 'earth-to' (lo)	B1
27	kan vu 'with them'	B2
	(od) vu '(said-to) them' (=Young Women)	B2
29	sààm talí vòò 'clothes tied their'	A4,B1,B3
	wulí 'there' (lo)	B1
30	Yàj'àd 'Dog'	B1,B3
	wulí 'with-it' (=clothes tied into rope)	B1
	(wàa-) -wo '(let-down) him'	B2,B3
	hágá 'earth-to' (lo)	B1
31	wòòlí ligí 'his house-to' (lo)	A4,B1

The above assumptions A2-A5 and background assertions B1-B3 account for 100% of the backgrounded participant and prop references (noun and pronoun) in the tale. When the same sort of tabulation is done for all ten folktales examined in 9.4, the number of applications of A2-A5 and B1-B3 are as in Table 9.3. A1 is so general as not to need tabulation.

The most striking finding of this section is that by far the majority (80%) of references to backgrounded participants and props is by nouns rather than by personal pronouns. The reverse was found to be true for foregrounded participants in 9.4.

Name of the tale		<u>A3</u>	<u>A4</u>	<u>A5</u>	<u>B1</u>	<u>B2</u>	<u>B3</u>	<u>n</u>	<u>pr</u>		
Bàbàạm kan Gbakììì		4	6	1	47	9	22	45	10		
Nàa báa id ú		4	3	2	39	5	13	34	7		
Mbùù kan Nommè		0	7	2	42	16	11	41	16		
Kəə mbàà gímná		1	4	3	33	11	8	3	11		
Bàbàạm zò' Ndàgàd sóo		0	9	0	58	18	30	56	19		
Hýg kýýlé		0	0	1	22	1	2	21	1		
Nom v u kan Mbùùì		0	3	1	23	7	8	23	7		
Kəə v u kan Nánán v u y u		12	18	1	64	15	18	63	17		
Bàbàạm v u kan Gà' nannè		7	19	4	227	33	64	218	34		
Súsuu vu kan Yà'àdè		2	8	0	35	10	18	31	12		
Totals % of the total occurrences	9 for no	30 Duns	77 & pro		590 1s:	125	194 8	535 0%	134 20%		
Table 9.3: Tabulation of applications of A2-A5 and B1-B3 as well as of noun and personal pronoun references to backgrounded participants in ten tales											

9.6 OLD AND NEW INFORMATION

Reference has already been made above to how new information is introduced in a story as it unfolds. What has already been related or mentioned once, or what is expected to be inferred from the context, may be termed 'old information;' unknown information as the story unfolds is called 'new information.'

The foreground-background display of the tale in 9.4 lays out for easy inspection each event (and its participants and props) as it's related. (Direct quotations are excluded from discussion until later in this section.)

New information is introduced principally by the use of the following grammatical constructions. Data from other tales has been used to add the items enclosed in double parentheses.

--main verbs in independent clauses/sentences;

- --verbal noun clauses following main verbs of movement or process (intentional and inchoative verbs, see Table 5.2);
- --temporal or locative expressions in the post-margin;
- --indirect statements or quotations ((or other sentence-terminal clauses such as purpose, 'until' clauses, etc.));
- --nouns introducing participants or props;
- --((relative clauses)).

Old information, however, is conveyed by the following:

--sentence-initial subordinate clauses, which in this case all initiate paragraphs and often recapitulate the action of part (or all) of the preceding paragraph;

--pronouns referring back to a noun in context;

--nouns referring to already introduced participants and props;

--<u>wulí</u> 'there/in-it/with-it;'

--nominal expressions modified by <u>pèè</u> 'already mentioned,' ((or another of the recall adjectives));

--possessive forms, e.g. 'their house.'

If now we return to look at the tale in its entirety, including all the direct quotations, it's clear that in this tale only a relatively modest addition is made to the content of the story line by the direct quotations: Spider's invitation to Dog to join him in visiting the Young Women, Dog's acceptance, the admonition to Dog not to laugh during the visit and his acceptance of this condition, and, finally, Dog's wish to return to earth.

It should be remembered, however, that this tale is quite short because it was written instead of told to a live audience. A live rendition would have added many direct quotations and many more ideophones, would have increased the length of the story a good deal, and might have incorporated a song. This particular tale was chosen to illustrate this chapter because it was produced spontaneously by a native speaker (i.e., it's unelicited text), and because of the relative diversity of structures exhibited despite its being such a short piece. It can serve as an introduction to deeper and more thorough study, and is an illustration of valid structures which have been verified and double checked elsewhere in longer tales that would be cumbersome to include in the format of this chapter. The reader is referred to any of the longer texts listed in Table 9.1.

9.7 INTERCHANGES, EPISODES,...

In sections 9.2 to 9.4 the details of Dii paragraph identity and structure, and of participant identification, were examined. Are there still larger structures that group together our already identified paragraphs into units <u>which have clear characteristics</u>? The specialists agree that many languages, if not all, possess such structures, but they differ considerably in their techniques for describing them, and in their results. Several of their ideas do give clear results when looking at Dii structures, as we'll see below.

If Longacre is our guide, we seem to be able to find units resembling what he terms interchanges, proposal/counterproposal, or acceptance, etc., in the recounted dialogues between Spider and Dog in the tale in 9.2. However, I haven't done enough research on this point to be able to describe the details fully.

The story event line has sentences (in paragraphs) strung out like beads on a string, heading for the dénouement in lines 24-28. Even if some of Longacre's proposals verge on the subjective, he would lay our story out in larger discourse units than sentences and paragraphs.

If Grimes is our guide, we can also locate many 'spans,' stretches of text held together, for ex., by events happening at the same location: on earth (lines 5-8), in heaven (lines 9-30), and on earth again (line 31).

Other spans are initiated by the 'short-time' expressions of P.1: --'one time' in line 5;

--the temporal-locative-conditional subordinate clause (Sb TeLoC) in line 10;

--another Sb TeLoC clause in line 17;

--'afterward' in line 19;

--'after awhile' in line 22; and

--the Sb TeLoC clause in line 24.

Still other spans are tied together by a single foregrounded participant acting until another one is foregrounded; these spans have already been examined in detail in 9.4.

Other spans could be outlined based on which participants are 'on stage' together at a given time:

--Spider and Dog (lines 5-16);

--Young Women, Spider and Dog (lines 17-25);

--Spider alone (line 26);

--Young Women and Dog (lines 26-30), etc.

Still another span delineator might be who is 'initiator of action' over a certain stretch of the story, causing others to agree with him or to react against him. Spider could be seen as initiator in lines 5-21; but starting in line 22 the Young Women seem to be the initiators until the end of the story. Dog, who is among the major participants, is never an initiator at any point in the tale, although he's several times in the foreground as signaled by the use of nouns and pronouns (in subject position) referring to him!

There's yet one more clear structural signal that must be interpreted. Large divisions of a story (should they be called 'episodes'?), may be introduced by one of the following stylized expressions. Each teller of tales has his own style and preferred expression(s). Those most frequently used contain a <u>temporal</u> element, but as Grimes remarks (1975:36-43, 230-2), <u>relative</u> time (before, during, after,...) is more often central to the presentation of event sequences than is time as measured by a clock or a calendar.

- (2.1) Zágą í tóó yè máa,...Day the-one another dem dem (On another day...)
- (2.2) Zágą tóó máa,... Day another dem
- (2.3) Sèỳ tóó máa,... Time another dem
- (2.4) Sèỳ tóó-lí máa,... Time another-at dem

The tale in 9.2 has such an expression in line 5. Various tale tellers each have their own styles, but there are only two such expressions in KM's long tale 'Rabbit and the Cornucopia' (text G in Bohnhoff 1968). The first is at the beginning of the body of the tale (where Rabbit's friends benefit from the cornucopia); the second introduces the section in which Baboon steals and looses the cornucopia, which leads Rabbit to look for another cornucopia, which in turn leads to the rest of the story.

In the 8th tale listed in Table 9.1, there are only two such expressions. The first is at the beginning of the tale and covers the period where the woman and her son move into the lioness's area and the son and the lion cub become friends but their mothers aren't aware of each other. The second introduces the section where the lioness discovers the woman, kills her for food, but the two offspring grow up together until the young lion cub gets big enough to kill his own mother in revenge, and the two offspring remain undying friends the rest of their lives. It's significant that several tales have only one such temporal expression near the beginning, either in the EI (explanatory introduction), or at the beginning of the body of the tale; examples of this are the 5th and 7th tales in Table 9.1. Tales 9 and 10 on the list have such temporal expressions at the very beginning <u>and again</u> at the start of the body of the tale.

CHAPTER 10

IDEOPHONES: SYNTAX AND DISCOURSE CONSIDERATIONS

10.0 IDEOPHONE PHONOLOGY, SEMANTICS

Section 1.8 describes the distinctive phonological characteristics of Dii ideophones, comparing them with non-ideophones. Section 3.11 attempts to define them and maintains they can be analysed as a morpheme class in Dii. An effort was also made in that section to sketch the semantic domains into which Dii ideophones fall, and each domain was illustrated by a list of ideophones from the Dii dictionary. An effort was also made to illustrate how ideophones utilise 'sound symbolism' in linking certain meanings with certain phonemic shapes. The reader is referred to those two sections for those topics.

10.1 INTRODUCTION

This section seeks to describe in detail the syntactic traits of Dii ideophones, showing them to be as distinctive syntactically as they are phonologically.

In context, three types of gradation (axes) are posited in describing the uses of ideophones: a dramatic axis rates an ideophone somewhere between 'uncreative, everyday' and 'creative, dramatic;' another axis evaluates an ideophone use between 'serious' and 'humorous;' a third axis rates an ideophone's syntactic characteristics somewhere between 'regular' and 'exceptional.'

Those Dii ideophones that modify only one element in a clause may be rather easily fitted into traditional adjectival or adverbial analyses, but others show one or more of the following distinctive syntactic traits: 1) many are introduced by a semantically empty verb 'do' or adverb 'like this;' 2) only an ideophone may 'replace' a verb in a clause; and 3) only an ideophone may modify more than one element in a clause, in which case this analysis posits a second clause containing only the ideophone, and a higher node in the structure to tie the two clauses together.

This section examines Dii ideophone syntactic structures in detail, therefore, and strengthens the decision to treat them as a lexical class in view of their unique syntax and uses in discourse. Ideophones function in many languages as adjectivals or adverbials, sometimes as nominals and/or verbals, and are often associated with stylistic focus, with poetry or drama, and especially with oral and informal contexts. While the main assertions of this section are syntactic, it's impossible to avoid some implications for discourse structure. As Samarin (1971b:158) remarks, we must specify the contexts found using ideophones.

A survey of the literature finds such terms as the following used to describe the syntactic functions of ideophones, although some of the terms below also treat semantic characteristics:

precision:	Kunene 1965:21; Noss 1982:1, 1985b:426
arresting description:	Kunene 1965:19
expressive:	Noss 1982:6; Vandame 1963:124
a focus item:	Noss 1984:7, 1985a
vivid representation:	Doke 1935; Kunene 1965:20
interjectional descriptive:	Doke 1935
exclamatif-descriptif:	Alexandre 1966:9
impressionistic/ <u>impressif</u> :	Alexandre 1966:9; Noss 1975:16-17
intensif/intensification:	Bearth 1971:203; Kunene 1965:21; Moyo
	1973:15
qualificatif onomatopéique:	Alexandre 1966:9
prédicatif/supplants a verb:	Alexandre 1966:11; Noss 1984:12,
	1985b:425
procédé stylistiquesurtout d	lans la littérature orale plutôt que dans la
conversation courante:	Alexandre 1966:13; Moyo 1973:18
dramatisation:	Kunene 1965:20; Moyo 1973:23; Noss
	1982:3, 1984:1,13, 1985a, 1985b:424

Almost all of the above terms, taken from treatments of ideophones in other languages, are appropriate in describing ideophone syntax and discourse functions in Dii.

Four questions stimulated this study and guided the analysis offered here:

1. Do ideophones only occur in limited syntactic contexts, e.g. (Newman 1968) only in affirmative declarative sentences?

2. Do the 'expressive power,' the 'vivid representation,' and the dramatic and poetic qualities of ideophones limit their use to lively oral presentations (e.g. folktales)? Do they also occur in everyday conversations and in non-dramatic, non-poetic contexts? 3. Can Dii ideophones still (as in Bohnhoff 1982, and here in chapter 3) be treated as a distinctive grammatical class, in contrast to adverbs, adjectives, etc.?

4. Can the uses of ideophones be adequately and/or easily described in terms of the non-ideophonic grammatical structures of Dii as laid out in the preceding chapters?

Two statements need to be made concerning the approach used here:

a) No attempt is made here to describe the derivation of ideophones from verbs, nouns, adjectives, or adverbs; ideophones don't seem to be derivable from other word classes.

b) Nor is an attempt made to fit Dii ideophones into a stratificational (transformational, or...) framework. A broader and more traditional approach is used, although some implications for linguistic theory will be suggested at the end of the paper.

This study is language-specific, so no cross-linguistic generalizations are formulated. After examining the syntax of Dii ideophones, however, I will turn to some generalizations made by linguists to see whether they hold also for Dii.

10.2 QUESTIONS 1 AND 2

It's relatively easy to provide an answer to question 1 above. Dii ideophones do not occur only in affirmative declarative sentences, but are found in negative sentences as well as in other moods/aspects than the declarative. An ideophone (underlined) in a negative sentence follows. Sentence (34) below is a more complex example of an ideophone in a negative sentence.

 (id1) Mí sén yąg <u>vbúvbúgú</u> ní. (4-119)
 I like-NEG mouth traiterous F-I-NEG (I don't like traitors.)

The abbreviation 'F-I' stands for 'factative imperfective clause marker,' see section 5.1.1. Welmers (1973:343-415) calls them 'construction markers.'

Although the majority of examples below are in the factative mood (or declarative, or indicative, depending on the term chosen), imperatives are seen in (4) and (28), subordinate clauses in (3) and (18), and an interrogative in (30).

The suggestion of question 2, that ideophones might be limited to oral dramatic/poetic contexts, can be quickly disproven by a short walk in the market or a visit in any Dii home. Ideophones occur widely every day in normal, relaxed conversations, not necessarily dramatic or poetic. The same is true for Gbaya (Noss 1985b:424) and for all the neighboring languages that I'm aware of in this part of Cameroon. I will return to the poetic and dramatic uses of ideophones below.

Initial questions 3 and 4 will require major discussion for adequate treatment.

10.3 UNMARKED POSITIONS OF CLAUSE ELEMENTS

In order to treat the syntactic characteristics of ideophones, it's perhaps useful to remind the reader about the order of Dii clause constitutents apart from ideophone occurrences. The neutral or unmarked positions for clause constituents in clauses containing verbs in Dii are as follows. As per b) in section 10.1, this description is of surface structures. Several clause types have a Complement (C) position instead of IO and DO positions.

(id2) Te S PM P <u>IO DO</u> Lo IA Man Sim CM

The abbreviations above allow a presentation on a single line of the following constructions:

(Te) temporal, (S) subject noun, (PM) subject pronoun, (P) verbal predicate, (IO) indirect object, (DO) direct object, (C) Complement, (Lo) locative, (IA) instrument accompaniment, (Man) manner, (Sim) simile or comparison, (CM) clause marker.

It should be noted that this order of elements is strictly observed in a 'normal' clause; focus or stress on a morpheme (excluding ideophones for the moment!), or foregrounding of a participant, can cause certain elements to appear in clause-initial position, but such constructions are outside the scope of this chapter. The subject of most interest here is where do ideophones (which are often but not always focus and stress centers) occur in relationship to the other clause and sentence elements.

10.4 IDEOPHONES AND SENTENCE-FINAL POSITION

As the researcher begins studying ideophones in Dii, he is struck by the fact that a high percentage of them occur in clause-final position (usally even in sentence-final position). As more complex syntactic examples and more discourse genres are examined, however, the researcher must limit himself to affirming that ideophones 'usually' occur near the end of the clauses in which they are used. Sentence (3) illustrates an ideophone (underlined) used near the end of an initial subordinate clause, for example.

(id3) Te PM P C CM

Ya ka tú ya <u>pùm</u> tée, ba káň lúúlí-ì.(4-112) Place sb-it is-clear come early dem we-2 just-simply leaving-F-I (When it's real early, let's simply leave.)

My informant Kadia Mathieu says ideophones never occur in sentence-initial position in Dii.

10.5 THREE FUNCTIONAL AXES

Dii ideophone uses show a gradation along three functional axes, none of which can be neglected as an ideophone is examined in its context. The second and third axes show how certain pragmatic elements are essential to an adequate description of ideophone occurrences.

a) Some ideophones occur entirely within 'regular' syntactic structures, in this case with strong adjectival or adverbial characteristics; others put stress on the ordinary structures by 'supplanting' a verb in the predicate, or by other 'exceptional' syntactic properties that will be examined below. This trait will be called the REGULAR <---> EXCEPTIONAL structures axis, and abbreviated REGL <---> EXPT below.

The question of our yardstick is immediately raised. Is it justifiable to judge ideophone uses by ordinary, i.e., non-ideophone, syntactic patterns? I'll show below that for Dii, what is 'exceptional' for other grammatical categories may be 'regular' for ideophones. Still, as a starting point for comparison, I'll consciously limit myself to nonideophone syntax, since it's over against the 'regular' syntax that the full genius of ideophone syntax becomes clear. I thus don't use the word 'exceptional' here in a derogatory manner, but as a means to lead to an appreciation later of the central qualities of ideophone syntax.

This axis, like the remaining two, describes a continuum, and any ideophone use in a given context may be appropriately described by placing a dot at some point on this continuum. We're dealing with a gradient relationship here, not a yes-no binary one. An entirely 'regular' occurrence could be graphed as follows: REGL < .--- > EXPT, for example, while REGL < ---- > EXPT would serve to symbolize a highly exceptional pattern. Using only three hyphens in the description is

entirely arbitrary. A larger number would bring more detail and sensitivity into the graph.

b) Some ideophones are used in the most mundane, everyday, unemotional contexts; these may be quite uncreative and fossilized, recognized and used widely. In these contexts Dii ideophones are not focus items (Noss 1984:7, 1985a). Others are used in contexts of high drama, as in the climaxes of tales, and have a great deal of dramatic, creative, poetic, and emotional potential; such ideophone occurrences display the full artistic potential of a skilled story teller and may be ideosyncratic and highly individualized in their forms. This will be termed the EVERYDAY <---> DRAMATIC axis, and abbreviated EVDY <---> DRAM below. Again, a dot may be placed on the continuum to indicate the degree of drama or emotion the teller wishes for a given ideophone use. (See also Noss 1985a:11.)

c) Another gradation along which ideophones must be judged is the SERIOUS <---> HUMOROUS axis, abbreviated SERI <---> HUM below. Some are never funny ('rarely funny' might be a safer term), while others never fail to excite some degree of humor: a smile, laughter, silliness, comedy, or humorous ridicule. While the 'typical' Dii ideophone draws attention to itself by its very form and use, there are, however, some that are quite serious (SERI <.--> HUM), so it is an overgeneralization to assert that all ideophones are 'fun words.'

Such 'totally serious' ideophones may be seen in <u>ndóg</u> and <u>'néń</u> in sentences (13) and (14) below. But the idea of humor here is far from simple. As the illustrative list in the preceding paragraph shows, humor may be either positive or negative, showing pleasure and approval; or it may be used to mock and insult someone. Is this a POSITIVE/APPROVAL <---> NEGATIVE/DISAPPROVAL axis?? (See also Welmers 1973:474 and Samarin 1970:164.)

Allusions may be found in the literature to these ideas, but in Dii it seems clear that at least the above three gradations must all be considered, along which a particular ideophone in a particular context must be rated. Some ideophones occur in regular syntactic structures, in everyday, mundane and non-humorous situations, much as adjectives and adverbs often do:

REGL<.--->EXPT

EVDY<.--->DRAM

SERI<.--->HUM

Ideophones are not <u>per se</u> automatically poetic/dramatic, hilariously funny, or found only in some exceptional syntactic context. Such ideophones would, however, be graphed as follows: REGL <---. > EXPT EVDY <---. > DRAM SERI <---. > HUM

Before concluding this section, I must mention compliments and insults and their frequent use of ideophones. No study on the syntactic uses of ideophones would be complete without some attention given to the art of compliment and insult. Space limitations here require, however, that this topic be treated separately on another occasion. A compliment and an insult are cited here for illustrative purposes.

(id4) Р DO CM ----_____ --go... waa <u>dígínnn</u> yè no! (4-116) Hò-Look-at-him child shining-black there F-I (Look at him, with such [beautifully] shining black skin!) C CM (id5) S _____ _ Dòn t<u>śg mgbinmgbìn</u> yè, m<u>ś</u> yo! (4-118)

Person ear deaf this you F-I (You've got the deafest ears around, brother!)

10.6 IDEOPHONES AND ADVERBS

In the next four sections I'll match ideophone examples with traditionally understood clause structures.

If an ideophone occurs in a given clause without an adverb, the analyst might be tempted to say the ideophone occurs in the Manner slot, modifying the verb. The following two examples show both transitive and intransitive verbs occuring with such ideophones:

Man? S PM P (id6) ----------Kęć wòò \emptyset nàn zùu wù r wù r wù r wù r. (3-92) Wife his she crushes descending w. w. w. w. (His wife crushes (grains) with a descending motion, w.w.w.) (id7) S PM P Р Lo Man? ----- ---- ------_____ _____ Kpoo Ø wận sí zùù la'- 'í <u>61116</u>. (4-107) Baboon he jumps goes-down descending tree-from 6. (The baboon jumps down from the tree and lands 6.)

The ' \emptyset ' here indicates the absence of an overt subject pronoun, which is interpreted as 3 sg in non-stressed factative clauses, whether imperfective or perfective; see section 3.6.3. This systematic absence of a subject pronoun form is not optional in Dii, so ' \emptyset ' in the text here is a reminder of this fact.

To return to the three axes posited above, the ideophone in sentence (6) in the public speech where I recorded it had the following traits:

REG<.--->EXPT EVDY<---.>DRAM SER<.--->HUM

The speaker wanted to stress the contribution that a good wife makes to a family's well-being; he used regular syntactic structures, was very serious, but made his point with some dramatic emphasis and strong emotional approval. Such detailed illustrations of the dots on the three axes would rapidly make this section too long, however, if I were to do it for each sentence.

In the case of onomatopoeia, it's a bit difficult to maintain that the ideophone fills a normal Manner slot, although semantically the ideophone usually modifies the verbal idea. While in (8) and (9) the ideophones surely add precision to the verb in the predicate, in (10) the ideophone modifies the words 'shame' and 'in the eyes' more than it does the verb.

(id9) S PM P Ideo
La' Ø dii dòg sóg. (3-42) Tree it stands go-up straight (The tree grows/stands straight up.)
(id10) PM P IA Lo Ideo

Ø vúd- dà kan sém nó- lé <u>mbíd</u>. (4-60) He goes-out-go with shame eyes-in full (He goes out, shamed before everyone's eyes.)

If the analyst wishes to assert that ideophones fill the clausal Manner slot, he must clarify the relationship of ideophones to adverbs which normally occur in this slot and which normally modify verbs or other adverbs in Dii. The following two sentences illustrate the occurrence of adverbs in the same clause as ideophones. Both adverbs and ideophones are underlined in the following three examples.

(id11) S PM P DO PM P Man Ideo Nà'á Ø yúú nan mbàỳ Ø ìì <u>dóń ndongod</u>. (4-122) Mother she turns couscous cassava it is-elastic only elastic (Mother makes cassava couscous and it's very stretchy.)

(id12) S PM P Man Ideo Hòòg Ø ìì <u>náa</u> <u>vbè'éd</u>. (4-115) Okra it is-gluey like-so vb.

Looked at closely, however, the above manner adverbs are only dummy introducers, semantically empty, and point to the ideophone for the real content of what is said. Note that ideophones don't seem to occur freely with all types of manner adverbs, but they do occur freely with: <u>náa, í yògo, dóń, ná'</u>, all of which mean 'like this' or 'thus.' Such adverbial introducers have also been noted in Gbaya (Noss 1975).

In (13), however, the ideophone $\underline{nd5g}$ modifies semantically the locative adverb $\underline{b5'}$. There are, therefore, a few contexts in which an ideophone occurs with an adverb that isn't (just) a dummy introducer.

(id13) PM P Man Lo Ideo Vu mbàà <u>dóń</u> bab- bí bó' <u>ndóg</u>. (3-92) They stay only field-in near very-near (They stay continually very near their field.)

As seen in this section, it's possible to assert that some Dii ideophones fill a Manner slot in clauses and function like adverbs. In this slot, they modify either verbs or adverbs, and are sometimes introduced by an adverbial dummy. In which case, then, if in either, should their slot bear the title 'Ideo' rather than 'Man'?

10.7 IDEOPHONES AND ADJECTIVES, NUMERALS, NOUNS

Ideophones are frequently found to modify adjectives, numerals, or nouns. Only clause-level positions have been identified in previous sentence examples. In examples (14) through (18), however, ideophones occur inside the phrases which serve as clause constitutents.

NUMERAL:

(id14) ... dálà dágá <u>'néń</u> (2-75b) ... 5-franc-piece one only (...only one 5-fr coin)

(id15) PM P IA S PM P CM Mí di kan krèyóŋ dágá <u>'néń kpógkpóg</u>, tóó Ø pé-lí. (3-25) I am-there with pencil one only only other it is-F-I-NEG (I have only one pencil, no more.)

The above sentence illustrates two ideophones, both modifying the numeral 'one.'

ADJECTIVE: (id16) S PM P С _____ ---- ------Sààm Ø mbàà hèè táń táń táń. (2-69b) Garment it sits white very-white (The garment is very very white.) (id17) S PM P С ---- ---------Vìd Ø sà' dìì dídíg. (2-11) Night it is-dark black very (The night is really dark.) NOUN: (id18) PM P DO Sb _____ ---

Ba ò là moo yéń <u>tivbíd</u> tée, ... (4-119) One-he says goes word true frank dem (If one says the full truth, ...)

Sentence (1) above contains an additional example of an ideophone modifying a noun.

Ideophones follow the noun they modify, just as adjectives and numerals occur in post-nominal position. Dii ideophones are seen in sections 10.6 and 10.7 to function adjectivally and adverbially, sometimes introduced by a dummy adverbial morpheme 'like this' or 'like that.'

10.8 VERBS AS INTRODUCERS

Three verbs, in addition to their usual transitive and intransitive uses, may serve as introducers for ideophones: <u>mbàà</u> 'sit, is,' <u>mòò</u> 'speak' (see sentence (34) below), and <u>kó</u> 'do.' Only <u>mbàà</u> and <u>kó</u> could be considered semantically empty, so ideophone introducers in Dii cannot

all be termed 'dummy morphemes'. <u>Mòò</u> and <u>kó</u> are used to introduce onomatopoeic ideophones, while <u>kó</u> may also introduce a verb borrowed from a foreign language. <u>Mbàà</u> has much wider uses; it may occur independently or serially with a preceding regular verb, and it may be followed by an adjective or manner adverb, as illustrated in the sentences below. Samarin (1971b:150-151), Voeltz (1971:142-6), and Kunene (1965:22, 33-5) take note of such verbal ideophone introducers in other languages. In the following examples, the introducers are underlined.

(id19) S PM P Ideo ---------- ---- ----Dòò wòò Ø tòò mbàà ụgụd. (4-118) Wine his it tastes-good is tasty (His wine has an excellent taste.) (id20) S PM P Ideo Lo ----- -------- -- ------Be' Ø <u>mbàà</u> zùù tívbíd zù. (4-119) Sky it is descends far there (The sky is far far away there.) (id21) S PM P Man Emph -----__ _____ ____ Yạg zèè wòò Ø mbàà náa mgbàà kàd. (4-110) Mouth buffalo his it is thus terrifying emph (The face of a buffalo is really terrifying to see.) PM P C (id22) S Ideo _____ Sààm wòò Ø mbàà kúmná 'nà'nàà'nàg. (4-117) Garment his it is oily oily (His clothes are all oily.) (id23) PM P DO PM P Man Ideo Emph -- --------- --- ----- ---- -----Ø tèè sààm Ø mbàà dóń mé'é'é kèd. (4-114)He weaves cloth it is only narrow emph (He weaves a strip of cloth that's really narrow.) (id24) S-FOC PM P Ideo _____ Móótà 'màn ka gàn hẹn ka zìì máa, Ø kó yégéyégé. Vehicle new sb-it carries thing sb-it is-heavy dem it does (A new vehicle heavily loaded squeaks y.) squeaking. (4-95)

More than one introducer may occur in a single sentence in Dii. Here is one with three:

10.9 SUMMARY OF 'REGULAR' SYNTACTIC USES

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In sections 10.6 to 10.8, the following adverbial and adjectival
contexts have been shown to utilize ideophones (the illustrative sentence
numbers are in parentheses):
regular verb + ideophone (3, 6, 7, 8, 9, 10?)
regular verb + noun + ideophone (1, 18)
regular verb + adj./num./adv. + ideophone (4, 10?, 14, 15, 17)
regular verb + adverbial introducer + ideophone (11, 12)
regular verb + mbàà + ideophone (19)
regular verb + mbàà + adverbial introducer + ideophone (23, 25)
mbàà + ideophone (20)
mbàà + adjective + ideophone (16, 22)
mbàà + adverbial introducer + ideophone (13, 21)
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$\underline{k5}$ + ideophone (24)

This overview summarizes the various adjectival and adverbial uses cited in the sentences above. From this listing, it's clear that ideophones occur syntactically in a wider range of contexts than any other grammatical category. Even so, only the most regular of the syntactic uses of ideophones in Dii have as yet been examined. Note also that ideophones are the only grammatical category that occurs with introducers (if we exclude foreign verbs introduced by $\underline{k5}$).

I would propose initially that if an ideophone can be seen to modify a noun, adjective, or adverb in traditional syntactic terms, then that ideophone should be analyzed in just that way, as other adjectivals and adverbials are. In the remaining cases, where an ideophone modifies semantically more than one element in the sentence, or occurs in still more complex structures as yet unexamined here, a more complex analysis has to be proposed. This is the subject of the next section.

10.10 'EXCEPTIONAL' SYNTACTIC STRUCTURES

When compared to the uses of non-ideophone grammatical categories, certain ideophone occurrences are highly exceptional. Our task is to describe these 'exceptional' but 'normal' ideophone functions. Several persons have noted that certain ideophones 'replace the verb' in their clause; others still that ideophones sometimes replace a whole clause or 'modify a whole clause' (Noss 1984:8-13, 1985b:425; Samarin 1971b:149; Vandame 1963:122-4; Wise 1971:71-2, 131-2; Alexandre 1966:26; Hagège 1970:312).

At this point it becomes impossible to exclude considerations of discourse from the syntactic statements. We need to specify where in a discourse or conversation ideophones tend to occur; and if an ideophone does 'replace' a verb, is there a definite pattern to this replacement?

Let's look again at our three functional axes: REGULAR <---> EXCEPTIONAL syntactic structures EVERYDAY <---> DRAMATIC social contexts SERIOUS <---> HUMOROUS uses.

The more a specific instance is judged to be toward the left side of the 3 axes (R-E-S), the less striking and 'more neutral' the instance may be said to be. In such R-E-S contexts, an ideophone draws less attention to itself.

My texts show several cases where an ideophone replaces a verb in folktales; they are usually found near the plot climax. From the point of view of the first two axes, this position near the plot climax is of course dramatic; it's also an 'exceptional' syntactic device, and in folktales the climax also often coincides with a higher degree of humor. It would seem, therefore, that such replacives are more likely to occur in E-D-H (exceptional/dramatic/humorous) contexts than in relatively neutral R-E-S ones.

Two examples of ideophones 'replacing' a verb (i.e., there's no verb in the same clause) follow. The 'replaced' verb in question is inserted here between square brackets.

(id26)	S PN	M P	Ideo	S	PM		Ideo
							<u>sàw sàw</u> . (4-32)
	Hand i	t is-cut-of	f in-midd	le blood	lit [spu	irts-out]	in-jets.
(id27)	S	PM P	D	O? CM	? PM	DO	Ideo
	Zág	Ø di	lá nə:	mm-è,	Ø [hì]	hịg <u>vb</u>	<u>iw vbiw</u> . (4-86E)
	Panthe	r he is-the	re at? sle	ep-F-I?	, he [sno	ores] sn	ore vb. vb.
		er was stil		1	· •		

Whether ideophones in such syntactic contexts may really be said to 'replace' the verb, or whether such constructions are simply alternate syntactic realizations of given semantic combinations, are questions to be dealt with in linguistic theory. I feel uncomfortable saying there 'was' a verb 'there' that was 'replaced' as the speaker put his thoughts into speech, and I only use the term 'replacive' because it's used by several authors. Many perfectly acceptable Dii clauses have an ideophone and don't have a predicate verb, and (at least in stratificational theory) I see no need for the term 'replacive.' All of this is of course from the encoding perspective. Eventually the linguist has to deal also with the decoding process in his descriptions, but I don't suppose that the term 'replacive' would be any more useful there.

10.11 ANALYSIS OF COMPLEX SEMANTIC REFERENTS

A question of larger scope is whether an ideophone in clause-final position is an adverbial in the same clause as the verb, or whether perhaps it's the sole realization of a second clause whose other elements are all 'understood' except for the ideophone (Noss 1984:8-10, 1985b:425; Wise 1971:71-2, 131-2). Semantically, many ideophones refer to much more in the preceding clause than just the verb. In (28), for example, the ideophone can hardly be said to be only adverbial, since the verb 'exactly like' requires two participants for the one to be like the other, and the grammatical subject here is in the singular.

(id28) PM P Ideo
À màn <u>kííd</u>. (4-78b)
It-IMPV be-like exactly-like
(It must be exactly like (some other thing).)
(id29) S PM P DO Ideo

Sèỳ Ø kè ɗug <u>wờ rwờ r</u>. (4-29) Time it digs race fast. (Time goes by so fast!)

In (29) the ideophone reflects both the verb 'dig' and the direct object 'race.' A similar remark has already been made above concerning sentence (10), where an ideophone modifies two or more elements in the preceding clause. Are we forced therefore to conclude that in some cases the ideophone is to be treated as on the same syntactic level as the whole preceding clause (Wise 1971)? This is certainly an attractive analysis for such sentences as (28) and (29).

A more complicated example is seen in (30), where the ideophone refers to two verbs (in series) and two sets of participants.

(id30) Q PM P P I Ideo Q Moo ệň pę́ń mó súú màn vó <u>kííd</u>-á? (3-30) For what first you pay be-like us exactly-like-Q (Why do you pay (them) exactly the same as us?)

The serial verb construction of (31) still ends with only one ideophone, lending precision to the action as a whole:

(id31) PM P P Ideo Ø dàà tii noo dàà <u>sòngòn</u>. (4-123) He passes turns dies passes s. (He dies.)

If a verb has several meanings, a direct object is often necessary to provide sufficient context so an ideophone can be correctly selected. In such a case, it's on the basis of the verb and the direct object that the appropriate ideophone is chosen by the speaker. Two examples follow where the verb alone would provide insufficient context for the selection of an ideophone by the speaker.

(id32) S PM P DO PM P DO Ideo Kəə... Ø ád dàà kuu, Ø sà kuu <u>dùỳ dùỳ</u>. (3-145, 4-1) Lion he digs passes dust he throws-up dust d. d. (Lion... paws around in the dust, throwing up clouds of it.)

(id33)	PM	Р	DO	Ideo
	Ø	kíí	náb	<u>vbà`r</u> <u>vbà`r</u> . (4-84A)
	She	turns-around	danse	vb. vb. (She spins around as she danses.)

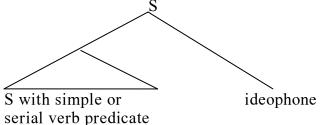
Sentence (34) is an example of a serial verb construction in the negative, the second verb being an introducer for the onomatopoeic ideophone.

(id34)	S	5	PM	P	DO	Р	Ideo	СМ
	3 3			ùun	0,			né. (4-16)
	Rabb	oit	he	blows-NE	G horn	speaks-	NEG toot	F-I-NEG
	(Rab	bit	doe	s not blov	v 'toot'	on his h	orn.)	

Still other illustrations show that the ideophone provides supplementary information about the subject of a verb, or about the verb itself. In the following 4 examples, tonal differences in the ideophone reflect differences in the real world behind the noun or verb that aren't explicit in either the noun or the verb. In addition, \underline{tulug} is used with clay pots, but \underline{tug} with calabashes. Therefore the noun subject, in addition to the verb influences which ideophone is chosen in a clause.

(id35) S PM P Ideo _____ _____ ---tùlúg. (4-139) Ø key Gbág Clay-pot it cracks (a-little)-t. (id36) S PM P Ideo ----_____ _____ tùlùg. (4-114) Gbág Ø kev Clay-pot it cracks (badly)-t. (id37) S PM P Ideo --------____ Dàg Ø 'woy túg. (4-140) Calabash it breaks t. (The (small) calabash breaks.) (id38) S PM P Ideo ____ -- ----- ----Ø 'woy tug. (4-140) Dàg Calabash it breaks t. (The (large) calabash breaks.)

In all of the examples cited in this section, I think it's defensible to say the ideophone occurs on the same syntactic level as the clause that precedes it, since the ideophone is linked to two or more elements in that clause. I'd like to maintain this analysis for all ideophones that have two or more referents in the clause to which they are linked: (id39) S



I see no way at this point, however, to specify a mechanism for designating clearly which two (or more) elements the ideophone might modify: noun + verb, two or more verbs in series, verb + direct object, or whatever. Some referential indices (such as are used for coreferential pronouns) might be used in the formalization to link an ideophone with the clausal elements it modifies. This proposal would have the disadvantage of requiring a mechanism to ensure the ideophone is correctly positioned in the speech chain, however, since some ideophones don't occur clause-finally. To return to the proposal made at the end of section 10.9, however, where the ideophone functions adjectivally or adverbially and refers to only one element in its clause, the following question arises: Should section 10.11's bi-clausal analysis not also be imposed on the simpler constructions seen in sections 10.6 to 10.9, in order to unify the syntactic description of ideophones in the grammar as a whole?

My tentative answer is no; I still think the proposal at the end of section 10.9 should be maintained where there's only one noun/ adjective/adverb being referred to by the ideophone. The fact that there is only one referent in those cases certainly allows the option of the adjectival and adverbial interpretations, since the ideophones in those clauses seem to function entirely within normal clause structures.

10.12 CONCLUSIONS

Before turning to questions of more general import for linguistic theory, I'd like to summarize the answers found for Dii to the four introductory questions.

Question 1: No, ideophones aren't limited to affirmative declarative sentences. Negative and non-declarative examples abound.

Question 2: Yes, ideophones also occur in the everyday speech of ordinary people, not just in folktales or in highly dramatic or poetic presentations. Some are non-dramatic and not even focus items.

Question 3: In view of the distinctive phonological, semantic and syntactic structures associated with ideophones, it seems advantageous to treat them as a separate grammatical class. (See also Bohnhoff 1982.) The resulting description is far from simple, of course. A full phonological, syntactic, and semantic description of ideophones would be highly complex, probably more complex than for any other single grammatical category in the language. This is part of what gives richness to Dii.

Question 4: Whether ideophones may be 'adequately and/or easily' described in terms of the non-ideophone structures is the most difficult question of the four to answer, but the distributions of ideophones are definitely not wholly describable in terms of nonideophone syntactic structures.

a) The ideophones in sections 10.6 and 10.7 may be analyzed in terms of a modifier position relating to the noun, adjective, or adverb in question.

b) Sections 10.6 and 10.8 illustrated the extensive use of verbal and adverbial morphemes introducing ideophones. Ideophones are the only indigenous vocabulary to occur with introducers, although foreign verbs are obligatorily introduced by a semantically empty $\underline{k5}$ 'do.' These introducers are unique in Dii syntax.

c) When an ideophone modifies semantically more than one element in the clause, a bi-clausal analysis is here suggested which is also unique in Dii syntax.

d) Whether proponents of a given linguistic theory would prefer to speak of an ideophone as 'replacing' a verb, or whether it would consider the ideophone an alternate grammatical realization dictated from a higher semantic stratum, the phenomenon in question is also unique in Dii syntax.

Of general linguistic significance is whether ideophones somehow 'bypass' syntax by being a special phono-semantic class? I answer with an emphatic NO! Although Dii ideophones do have some distinctive syntactic distributions, these distributions are describable syntactically, and of course a full description of ideophone syntax is essential to any full grammar.

This question is not new, and the terms 'phono-semantic class' (Newman 1968:116-7 and Fordyce 1983), 'recurring partials' (Bloch and Trager) and 'sound symbolism' (Samarin 1965:119) put tags on the phenomemon even though they don't provide explanations. Section 3.11 illustrates sound symbolism in Dii. The point I want to make is that the sound symbolism is in addition to the full syntactic description, not replacing or bypassing any syntactic structure.

If my contention is correct that each ideophone in its specific context must be rated somewhere along each of the three axes: REGULAR <---> EXCEPTIONAL syntactic structures

EVERYDAY <---> DRAMATIC social contexts

SERIOUS < --- > HUMOROUS uses,

then another nightmare is created for the formalization of these gradations within linguistic descriptions. 'Variable rules' are at best difficult to formalize and make work (see Labov 1969, Fasold 1970, and evaluations and summaries in Wolfram and Fasold 1974:106-23), and I'm not eager to make a concrete proposal for the description of Dii. Although we must face Grimes' positive evaluation of the overall phenomenon: 'hearers are sensitive to mass effects of choices that come up repeatedly in texts' (1975:347), he doesn't propose a facile formulation of such rules, either.

Some would also probably object that such a gradation as SERIOUS < --- > HUMOROUS belongs more to Pragmatics than to syntax. The EVERYDAY < --- > DRAMATIC axis might, if one wished, be included under discourse considerations. But few analysts would be happy with having to formalize a gradation even for the REGULAR < --- > EXCEPTIONAL syntactic axis, which is the most clearly syntactic of the three axes I'm positing! If other axes in addition to the three posited here prove to be useful, formalization would become more and more complex.

Where does linguistic structure stop and Pragmatics take over? Is full formalization of ideophone syntax even possible? I would like to stress that ideophone occurrences are so highly tied to context that the three axes posited in this paper are necessary to help us describe them syntactically, even though we aren't currently able to formalize all the posited structures by the current tools of the linguistic trade.

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APPENDIX A

SUBPHONEMIC COMPONENTS

It has long been recognized that analyses may be made below the level of traditional phonemes. (Allophones are ignored at this point since we're only dealing with emic contrasts.) The basic ideas for this appendix are drawn from stratificational linguistic theory (see Lamb 1966a,b,c, Lockwood 1972, and Makkai and Lockwood 1973), although the abbreviations used conform to the terminology of chapter 1 in the present volume.

If we take the phonemes listed in Table 1.1 and exclude suprasegmentals and a morpheme boundary marker, we can posit seventeen subphonemic contrasts. We say that phonemes are composed simultaneously of these traits. The phoneme t is composed of: alveolar, stop, and voiceless, while mgb is composed of: velar, labial, stop, and nasal, etc.

	and are all the necess	ary contrasts for th	e Dii lang
and their abbrevi	ations to be used in Ta	able A.1:	
stop	Stp	glottal	Glt
nasal	Nas	alveolar	Alv
semi-consonant	SmC	voiceless	Vls
implosive	Imp	vocalic	Voc
fricative	Frc	high	Hgh
trill	Trl	mid	Mid
liquid	Liq	low	Low
velar	Vel	length	Lng
labial	Lab	very low	VLo

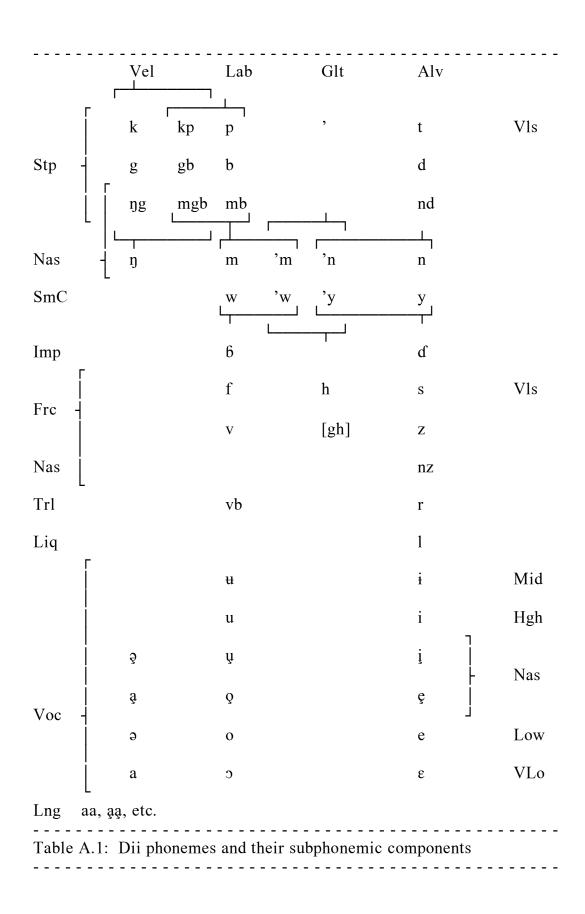
The following are all the necessary contrasts for the Dij language

Several comments on Table A.1 are in order:

a) 'labiodental' and 'bilabial' may be united into a single column, since they never contrast; the same is true for 'alveopalatal' and 'alveolar'; b) 'voiceless' need only be specified for two rows of phonemes, since all other Dii phonemes are voiced;

c) brackets indicate sharing of a single contrast by more than one column or row; columns and rows are reshuffled to take maximum advantage of these brackets.

Mere exposition of phonemic sign-phononic relationships is not adequate from the point of view of linguistic theory, but further treatment of stratificational phonology is beyond the limited scope of the present work.



APPENDIX B

QUICK-REFERENCE LISTS: ROOTS, WORDS, PHRASES, FACTATIVE IMPERFECTIVE CLAUSES, SENTENCES

The following lists are meant to help the Dii speaker who is already familiar with this grammar to locate specific root, word, phrase, or clause titles without unnecessary paging through the grammar. I list only the name and an example of each type, without translation. Words are distinguished from roots by being prefixed with an asterisk.

*pn	Gbaŋgòỳ
n ₁	dàdàg, bà'á, bà', yú(lí)
*vn	gbólí
*n ₂	nom, h ùu d, víig, bab
*n _{cp}	bàa lig, í moo sà"¢
*n _{kin}	dag nìì, dàn nìì
npr _q	née/nén, nóo/nón, èn
npr _{indef}	tóó, tóótóó, nónnánónná
npr _{rel}	í
<u>mí</u> _{subj}	-ń/mí, -a/ba, -m/mó, Ø
<u>mí</u> _{obj}	-n/mí, ba, -m/mó, -gV/-wu/-ɔ/-u
* <u>mí</u> _{emph} subject	míi, baà, móo, wu
* <u>mí</u> _{emph} non subject	míi, bàà, móó, wòò
* <u>mí</u> _{emph} final	mí, ba, mó, wu
* <u>mí</u> _{fut}	míń, báń, móń, wuń/siń/ąń
* <u>mí</u> _{futemph}	míňno, báňno, móńno, wuńno
* <u>mí</u> _{nonfut}	mín, baà, món, (Ø 'zero' = 3 s)
* <u>mí</u> _{nonfutemph}	mínno, bánno, mónno, (bànno = 3 s)
<u>àn</u> subj <u>àn</u> sbsubj * <u>àn</u> emph * <u>àn</u> sbemph	 àìn, ba, àìm, à, (note ba = dual) àìn, àa, àìm, à, (note àa = dual) àìnno, à baà, à móo, à wʉ àìnno, à baà, àìmno, à wʉ
<u>bi_{subj}</u>	bi, bi, bi, bi
<u>bi_{obj}</u>	-n/mí, ba, bi, bi
* <u>bi_{emph}</u> subject	biì, biì, biì, biì
* <u>bi_{emph} non subject</u>	míí, bàà, bìì, bìì

B.1 ROOTS AND WORDS

* <u>bi_{emph} final</u>	mí, ba, bi/mó, bi
* <u>bi_{fut}</u>	bíń, báń, bíń, bíń
* <u>bi_{futemph}</u>	bíńno, báńno, bíńno, bíńno
* <u>bi_{nonfut}</u>	bi'n, ba'n, biň, biň
* <u>bi_{nonfut}</u>	bi'nno, bi'nno, bi'nno, bi'nno
<u>ìi</u> subj	àn, àa, ìi, ìi
hyp _{present}	kà míń, kà ban, kà móń, kàň
hyp _{past}	kà mín, kà ban, kà món, kàň
hyp _{emph}	kà míńno, kà banno, kà móńno, kànno
qual ₁	<pre>'màŋ`</pre>
*qual ₂	píím, káj'ad, 'wóg
*qual _{ná}	hèèná, víjgná
poss	míí, bàà, móó, wòò
poss _{log}	míí, bàà, bìì, bìì
poss _{kin}	-n, bà, -m, -gV
poss _{kinlog}	-n, bà, bì, bì
foc	máa
rec	pèè, tèè, súu, máa
indef	tóó
dem	yè, yè, zù, tée/té, máa/má
pl	vu
*lim	'wààpád, waaná'
adjQ	èn, née/nén
*Vacc Vaux *Vdat Vdesc Vdesid *Vdi Veq Vi *Vinch Vint Vlo Vperc *Vrcp *Vrcp *Vrepet *Vrepet *Vsaydi Vsaytr *Vstv Vtr	kón là, ya, dòg / dùù, mbóg, fàà, bàà, dəŋ mbàad, tood, kééd, néed, tiid mbàà, tii híí (want) gbód, kód, pạn pé(lí) 'yém, pɛ, sí di, bé', káň, vbíń, sì', dəŋ, màà (help) làà, dòg, z uù , yaa di, pé màà (find), hò, nùỳ gbón, sá'án, mbógón gbóo, mbógo, de'e, 'woo, nóń od, híid tàà, vá', híí (answer) kóy, píb, mbógoy nùỳ, híí, tè, gàỳ

telo	tíŋ, /lí/, bə', pig
te	yógó, bán, ká, 6èè
lo	zógón, góń, dáń, yúú
*lo _{place}	Tagbùỳ
adv	nà'à, dóń, náá, ná'
*adv _{ná}	'màŋná, kòògná
ideo	sà`r, zązą', gug
num _{uni}	tąąnó
frac	ka', réétà
exp	áá'à, wí, tòẁ, hệ'
rel	kan, bà, ậm, ạmáa, kóó, z ùù , dìgà, mà

B.2 PHRASE TYPES:

PNP	Kadia Matío vu
NP ₁	hẹn zígid tóó
NP _{ya}	ya mbìgì míí yè ka pe
NP ₂	nà'á vu
NP ₃	bà' víí vu
NP _{gen}	hẹn sóné Mbùù wòò
NP _{genan}	Bàabiig nà'á
NP _{kin}	àn fạạ vu
NP _{kinab}	dag są́ŋ vu
NP _{co}	dàg kan tọŋ
VNP	buulí nà'à
ÍP _{mod}	í tóó
PrP	ví 'wààpád
QualP	gbỳỳ bà'à
VP_i VP_{desc} VP_{tr} VP_{lo} VP_{rcp} VP_{di} VP_{dat} VP_{stv} VP_{desid} VP_{inch} VP_{int} $VP_{say}tr$ $VP_{say}di$ VP_{perc} VP_{vn}	dàà đấá dòg dàà tii dòggà bùù ya di bàà híń dùù pạn (bi) ya mbàad(ʉ) dàà dùù gboy dùù sén(nɔ)né bàà di là z ùù dùù ò là od(dʉ) là nùỳ dòg sàj"é

$\begin{array}{l} TeP_{li} \\ TeP_{telo} \\ TeP_{máa} \\ TeP_{ká} \\ TeP_{gen} \\ TeP_{co} \end{array}$	zą́gąlę́ zą́gą są̀ąmé sèỳ tóólí máa ká bán zą́gą 'wààpád yąg ką̀'ąm kan vìd 'wààpád
LoP_{li} LoP_{telo} LoP_{dble}	káə wòòl í tíý wòòl í wòòlí ka'adí
$egin{array}{c} RAP_{kan} \ RAP_{y\acute{u}\acute{u}} \ RAP_{sim} \end{array}$	kan Kəə ám yúú wòòl í kó í nán yşm v u wɔgɔ/baà la"ì
IdeoP	bád bád bád
NumP _{dec} NumP _{cent} NumP _{mil} NumP ₂ NumP _{ord} NumP _{dist} NumP _{co}	wàhbó' z ùù tạạnó tèmere gúú ùzineere vo' gúú dágá 'néń tạạnó wòò tèmere kan vo' gúú gúú wàhbó' z ùù tạạnó z ùù ndadd ú
$\begin{array}{l} SbP_{teloc} \\ SbP_{rel} \\ SbP_{man} \\ SbP_{sim} \\ SbP_{hyp} \end{array}$	sèỳkatée, k(íí)yè, kó née pęńka, kó íkamáa wogo/baàzù wogo. tòẁkàtée,

B.3 FACTATIVE IMPERFECTIVE CLAUSE TYPES:

SIMPLE CLAUSE	ES:		
a) Intransitive	Waa v u	lúú ú.	
	Mí	tá'ád yạg kà'ạm l	hím.
b) Descriptive	Hààb tèè Ø	tii gà' nan.	-
· •	Z u m Ø	mbàà háạdná.	
c) Transitive	Mí	kó hẹn lálí.	
d) Object Comp	Vu	yèè Bòbózì gbana	ààì.
e) Equative	Mí	gà' lòòì.	(aff)
	Míi	pélí.	(neg)
f) Locative	Gà' Ø	di váýní.	(aff)
	Gà' tóó Ø	váýní pélí.	(neg)

g) Reciprocal h) Ditransitive	Vốń V u V u	líń ám. kód bà'á ba'adì. pún gò'òy máa yệ nɔ.
i) Dative j) Stative/passive	Yéé v u Zè' Ø	tọọd vó mbàà ná'. ma'ay ú .
J) 2 mil (pubbil (p		
COMPLEX CLAU	SES:	
k) Desiderative	Mí	híí i dùù ọn tóó.
	Mí	híí bi làà kaalí.
	Mí	híí yéé tóó v u mbóggíi.
l) Inchoative	Bà'á Ø	di dòò zòlí.
	Vu	kậý ba'ad kól í i.
m) Intentional	Mí	làà v u nenéè.
n) Introducer _{tr}	Vu	ỳ∶ «Vó nòo púg…»
	Bà'á Ø	ỳ yógó bà bíń làà kaalí.
	Bà'á Ø	ỳ bà ùu nàà nább ì .
o) Introducer _{di}	Gà' Ø	oddu: «Mí gà' nannè.»
	Vu	çd bà'á mbìgì wòò bà wʉ yè nɔ.
	Vu	çd nán v u ùu nàà nábbì.
p) Perception	Vu	nùỳ Kpoo Ø nɔɔ sú'ú.
	Mí	hộ bà 'á Ø bínda hẹnnè.

B.4 SENTENCE TYPES

Imperative	ĄN MI MI <u>Àm</u> 6ὲ kệŋ yệ <u>mó</u> màa <u>mó</u>	sáń 'wààpád.
Нур	Tòw kà míń nán nàài tée, kà míń yòò lig 6 uu lí nà'à.	
Compound	Bàa yè Ø hò'wààpád, <u>ạmáa</u> Kəə Ø hòn né.	
Gọm Ø yậ ba, mam Ø 'wòd ba <u>ám</u> ́.		
Pivoting	IPM Àm̀ pú <u>n</u> sậậm <u>mí</u> tè ú.	
	OPM Àm̀ túú <u>mam</u> à hìֻ"ý.	
Simple: Factative Imperfective		Waa v u lúú ú.
Simple: Factative Perfective		Waa v u lúú s ú 'ú.
Simple: Imperative (Imperfective)		Waa v u , ì lúú ú!

Interrupted	Ø ǫddʉ <u>Mbùù</u> Ø ǫddʉ	
Response	Áá'à. / Hàj'! / Èè.	
Complex: <u>TeLoC</u> TeLoC TeLo <u>C</u> Con Hyp -verb + verb Course	Sèỳ àn làà tée, Ya ùu làà w u lí tée, Tòẁ àn làà tée, Kóó à lúu ní sì', Tòẁ kà móń nán nàài tée, Tòẁ kà móń làa né tée,	míń hộ hẹn wòò. míń làà wʉlɨ áṁ. míń hộ hẹn wòò. míń hộ hẹn wòò. kà móń kó ệná? kà móń hộ ệná?
Cause <u>Te</u> LoC Te <u>Lo</u> C TeLo <u>C</u> Purpose Concessive Cause	Kaa hòn ví wi' ní yỳ, Míń hò hẹn wòò, Míń hò hẹn wòò, Míń hò hẹn wòò, Míń kóddʉ ba'adʉ, Hẹn nàà há'an nán vʉ nɔm né, Bà'á wʉ kó pẹ́n ka Míń kóddʉ ba'adʉ,	báń lá ví ỳná? sèỳ à yaa tế nɔ. ya àa làà ví wʉlɨ tế nɔ. tòẁ à yaa tế nɔ. moo à s úu n hẹn wʉlɨ. kóó à b ùù ú sì'. a nùŋ ví hẹn lálɨ nà'à yỳ nɔ. moo mí hííwo ó.
Manner	(Items below in parentheses are Bà'á w ú ń tú'ud waa née Bà'á w ú ń kó née (pę́ń) Bà'á w ú ń dəŋ née	optional:) wúń kó ba'ada. waa wúń kó(ddʉ) ba'ada. waa wúń kó ba'ada.
Until	Míń kóddʉ ba'ad Míń kóddʉ ba'ad vìvììvìd Míń gág dʉʉlí nà'à,	kó í ka kón máa wogo. hậá ya w ú ń gàŋ̀. moo kà míń tìd hẹn míí ý.

APPENDIX C

IDIOMATIC GREETINGS, FAREWELLS, AND THANK-YOU'S

We'll discuss greetings, farewells, and thank-you's under the following headings:

- C.0 introduction
- C.1 morning greetings and responses
- C.2 general greetings and responses
- C.3 afternoon and evening greetings and responses
- C.4 greetings for visitors, travelers
- C.5 farewells

C.0 INTRODUCTION

Greetings and their responses are an important part of Dii life. They convey a much more positive meaning than do their English counterparts. They're used to show one's interest in other people and to carry a <u>real blessing</u> to the person greeted.

Repetition of a greeting or thank-you is often used to express sincerity. A six- or seven-fold thank-you is not uncommon in such a situation. A single greeting is regarded as a minimum, often reserved for people you meet daily.

It's necessary to note that greetings are quite stereotyped and the response given is generally not the 'correct' one if we think only in terms of the strict meaning of the words used. The responses in the lists below are kept strictly 'logical' as to content, but the actual Dii usage is more irregular and varied than these lists can possibly indicate. <u>Variety is imperative</u> in Dii life at this point. The lists below give only the fundamentals in their respective areas, subtle nuances not being treated.

The exact meaning of some of the greetings is sometimes difficult to determine. Many have lost their etymological meaning entirely. Only free translations will be given, and even these will usually be limited only to the initial element of a pair since the response cited generally corresponds closely to the question.

Greetings are on the left, their responses on the right of each list.

Only the second person plural and the first person singular pronouns will be used consistently. See 3.6.2 on the uses of the second person singular and plural pronouns, and on the honorific use of the third person plural pronoun.

 $\underline{Z\acute{a}\acute{m}}$ 'in good health (Ful)' and $\underline{n\acute{a}n}$ 'in good health' are roughly interchangeable in most of the greetings and farewells; only one or the other will be listed, therefore. Some Dii are 'purists' and have made an effort to weed out some Fulfulde words, so these latter persons strongly prefer <u>nán</u> in their greetings. It's my impression, however, that the purists are fighting a losing battle, since I hear <u>zám</u> very frequently.

Only <u>bà</u>' and <u>bà</u>'á 'father' (3.4.1) will be used in these responses, but <u>nà'/nà'á</u> 'mother' or <u>waa</u> 'child' may generally be substituted in the same response as occasion demands.

C.1 MORNING GREETINGS AND RESPONSES

The following are generally used between dawn and 11 AM among persons who see each other almost every day. One or more of these may be followed by one or more of the 'general greetings and responses' (section C.2):

Ví ním sá'áa?	Ví ním sí nánná?
Are you awake already?	Did you awaken healthy?

Ví nímmaà? Are you awake already?

Ví ùd nánnaà? Mí ùd nánnè. Did you sleep well?

Ví ùd sí zámmaà? Mí ùd sí zámmè. Did you sleep well, then?

One of the following is <u>generally</u> substituted for the above 'logical' responses:

Èè bà' míí!	Yes, my father!
Èè.	Yes.
Bà' mía!	My father!
Bà' nàà!	Father!
Tèè bà' nàà!	Father!
Zám(a)nii / Zám(a)nee!	In good health!

As a closing remark, $\underline{\text{úsóko}}$ 'thank you (Ful)' may be used with or without an additional <u>bà' míí</u>.

On occasion the response is a similar greeting in return, for example: $\underline{\check{E}}$, ví ním sá'áa?

If the response <u> \dot{e} bà' míí</u> must be repeated several times, it may degenerate into a polite murmur where only the vowels and glottal stop remain: <u> \dot{e} à'íí</u>. The tones and context are sufficient to indicate what is meant.

C.2 GENERAL GREETIGS AND RESPONSES

These are appropriate at almost any time during the day:

Ví mbàà nánnaà?	Mí mbàà nánnè.
Are you well?	

- Doo víí nu! Úsókò/Doo víí ậm! Welcome!, hello!('it's your foot') Thank you/Welcome yourself!
- Ví diláa? Are you there?

Mí dilí.

Ví ùd záḿma? Did you sleep well?

Ví mbàà là záḿmaà? Are you well?	Mí mbàà là zámmè.
Ví mbàà d uu nà'à? Are you well?	Mí mbàà d uu nà'à.
Ví mbàà sí d uu nà'àà? Are you well?	Mí mbàà s í d uu nà'à.
Ví mbàà là d uu nà'àà? Are you well?	Mí mbàà là d uu nà'à.
Bà' víí mbàà záḿmaà? Is your father well?	V u mbàà záḿmè.
Bà' víí mbàà là záḿmaà? Is your father well?	Vʉ mbàà là zámmè.

Kó nénnà?	Kón hẹn né.
What are you doing?	Nothing. (do-NEG thing F-I-
	NEG)

Inquiries concerning the health of parents and relatives aren't nearly as extensive in the daily greetings as they are in the greetings used with visitors and travelers.

<u>Woo</u> may be added to \underline{zamme} to give added emphasis and friendliness.

C.3 AFTERNOON AND EVENING GREETINGS AND RESPONSES

These greetings are appropriate between approximately 11 AM until shortly after nightfall. One of the following may then be followed by one or more of the 'general greetings and responses' in section C.2:

Ví lan sá'áa?	Èè, bà' míí.
Are you having a good afternoon?	Yes, my father.
Ví lan mà?	

Ví lan zámmaà?	Mí lan zámmè.
Ví lan s í zámmaà?	Mí lan sí zámmè.
Ví lan sí nénná? How is your afternoon?	Mí lan s í záḿmè.

As we saw following the morning greetings, any of the 'yes/ my father/ yes, my father' responses listed in section C.1 are appropriate also as responses.

Saying good-night may take one of several forms:

Ví dó sá'áa? Mí dó sú'ú. Are you going to bed?

Ì ùd zámmè! Sleep well!

Ì ùd sí zámmè! Sleep well! Yógó pę́ń! Until tomorrow!

Yąg kà'ạmé pę́ń! Until tomorrow morning!

Yógó mènné pęń! Until tomorrow afternoon!

Ba kàn ví yógó! We'll meet tomorrow!

C.4 GREETINGS FOR VISITORS, TRAVELERS

Doo víí nu! Welcome! ('it's your leg/foot')

Doo víí kan yaalfi! Thanks for coming!

Doo víí kan hẹn gané! Thanks for bringing my baggage!

Appropriate responses to any of the above are (see section C.1):

Èè, bà' míí! / Bà' mía! / Bà' nàà! / Úsókò! / Èè.

Instead of (or with) the above greetings, the following may be used:

Ví yaa sá'áa?	Mí yaa sú'ú. / Èè, mí yaa sú'ú. /
Have you come?	Èè, bà' míí, etc.

Ví dòg/vệ' ya/zʉʉ sá'áa?

Have you come up/returned/come down?

An extensive inquiry into the state of health of parents and relatives soon follows, on the pattern:

Bà' víí mbàà zámmaà? Èè, vʉ mbàà zámmè. Is your father in good health? C.5 FAREWELLS

<u>Intention</u> to depart is signalled by any one of a number of expressions:

Mí lúú/dòg/zùù/làà sú'ú. I have left/gone up/gone down/gone already.

Àa lúú ví áa? Ba lúú ví ú. Shall we (inclusive) leave?

Ba lúú ví ú. Ba lúú ví súm. Let's leave/We're leaving.

Ba lúú ví súm. Ba lúú ví sínná. Let's leave, then!

Ba lúú ví síi. Ba lúú ví bò. Let's leave.

Ba lúú ví sínná! Come on, let's leave (impatient)!

The actual farewell may take one of several forms:

Q moo là ú!Q moo là ú!Good-bye (say word go IMPV)

Q̀ moo là ʉ́ wòò!

Q̀ moo là áàa!

À moo là péń!
 (say word go first)

Q moo là pę́ńnáa!

Q̀ moo là sínná!

À moo là súm! Good-bye until later!

Ò moo là súmmáa!

Ì làà zámmè! Go in good health! Èè, bà' míí / Úsókò, etc.

Ì mbàà zámmè! Stay in good health!

Ì mbàà sí zámmè!

Sèỳ tóólí pę́ń! Until next time!

Tíý pę́ń! Until next time!

Zágalé péń! See you later (during the AM only)!

With the farewells, greetings are certain to be sent along with a traveler to several parents and/or relatives, generally in the form:

Ì vá' bà' víí vʉ wʉlí! Greet your father! Míń vá' vʉ ú/wʉlí! I'll greet him!

Vúń kì ú! He'll hear (it)!

APPENDIX D

OUTLINE OF THE TAGMEMIC MODEL

It's possible that the reader might not be acquainted with the tagmemic model used in this description. This appendix won't offer a complete explanation of the model, but we'd like to outline some of its principal ideas.

We'll examine the following subjects:

- D.1 the distinction between etic and emic units
- D.2 the 3 hierarchies: phonology, grammar, lexicon
- D.3 construction and tagmeme, position and filler
- D.4 nuclear and peripheral tagmeme
- D.5 how to distinguish emic constructions

D.1 The distinction between etic and emic units

Every language must be studied from the viewpoint of its <u>own</u> structure (the 'emic' point of view). The words 'etic' and 'emic' come from phon<u>etic</u> and phon<u>emic</u>. The etic point of view is that of the foreigner; he/she hears sounds but doesn't understand the system of the language in question.

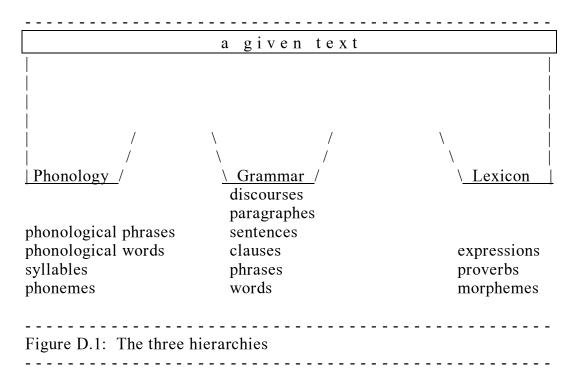
For example, the foreigner can hear a nasalized w $[\tilde{w}]$ and a nonnasalized w [w] in the Dii language, but he/she doesn't know whether there are two consonants or whether there's only one consonant with the two variants found in different contexts. After having studied several examples of Dii w's, he/she concludes that there's only one consonant with two contextual variants (allophones). Our foreigner is already on the 'inside' of a part of the Dii system.

Every native speaker of a language has learned the emic structure of his/her language since childhood, but he/she may not be able to explain this structure consciously. The linguist will never impose one language's structure on another language; he/she describes each language in terms of its own (i.e. emic) structure.

D.2 THE 3 HIERARACHIES: PHONOLOGY, GRAMMAR, LEXICON

A given text is divided by the tagmemic model simultaneously in three different ways: 1) It's divided into phonological (sound) units, with phonemes as the basic units. 2) It's divided into lexical units, with morphemes as the smallest units. 3) It's also cut into grammatical divisions, with 'tagmemes' which have the length of morphemes as the basic units. See 1.0 and 3.1 for definitions of phoneme and morpheme. See appendix D.3 for a definition of 'tagmeme.'

Within each hierarchy, starting from the basic units, larger and larger units are described. The larger units within <u>the phonological</u> <u>hierarchy</u> are typically syllables, phonological words, phonological phrases, pause groups, etc.



<u>The lexical hierarchy</u> contains all the semantic units: morphemes, idioms of various lengths, proverbs, etc.

<u>The grammatical hierarchy</u> is more complex. There are several levels of grammatical units, for example the word level, the phrase level, the clause level, the sentence and discourse levels. As for the units in the other hierarchies, the exact number of levels in a particular language must be fixed by the analysis of that language. But before I describe the grammatical hierarchy in more detail, it may be well to summarize what we've already said by Figure D.1. A given text is divided simultaneously in three different ways, that is, into three hierarchies. These hierarchies are not independent but semi-autonomous, because certain of the units of one hierarchy may coincide with units of another hierarchy, but others may not. For example, phonological words don't necessarily coincide with grammatical words. Nor do idioms or proverbs coincide with phrases or clauses, although this is often the case in languages.

We now return to the description of the grammatical hierarchy.

D.3 CONSTRUCTION AND TAGMEME, POSITION AND FILLER

A 'construction' is a series of 'tagmemes' which fulfill together a certain grammatical function. <u>A construction is composed of tagmemes</u>.

It's only by their distribution that the constructions and tagmemes of a language may be isolated and described.

A 'tagmeme' is: a) a unit that has a <u>function</u>, 2) a unit that contains a <u>class</u> of elements which is called its <u>filler</u>, 3) a unit whose <u>position</u> in a construction may be described. Each tagmeme has a function, a filler, and a position.

It's true that in this work, I've often used the word 'position' (5.0) ambiguously. I've used it to speak of both tagmemes and positions (slots) because a large number of my readers are not familiar with the concept of a tagmeme.

It's the tagmeme's <u>function</u> and <u>filler</u> that I have emphasized, since its position is only a secondary aspect of its nature. Note that the concept of a tagmeme avoids certain traditional difficulties confronting grammarians who tried to separate morphology completely from syntax. Morphology is just one level among several syntactic levels, and the same descriptive method may be applied to all levels.

An example: the following transitive clause is a construction in English: I will take the book to Garoua.

This clause contains four tagmemes: subject, predicate, direct object, and locative. If the symbols are used as explained in 5.0.4, there will be one symbol for each tagmeme:

- S:pr function of subject, pronoun as filler
- P_{tr}:VP_{tr} function of transitive predicate, transitive verb phrase as filler

O:NP function of direct object, noun phrase as filler

Lo:LoP locative function, locative phrase as filler

As soon as we put these in a formula, each tagmeme's position becomes clear:

S: _{pr}	P _{tr} :VP _{tr}	O:NP	Lo:LoP
Í	will take	the book	to Garoua

Some languages allow some of their tagmemes a great deal of freedom as far as their position is concerned, at least on the clause level. There are, however, adequate symbols for describing these varying positions.

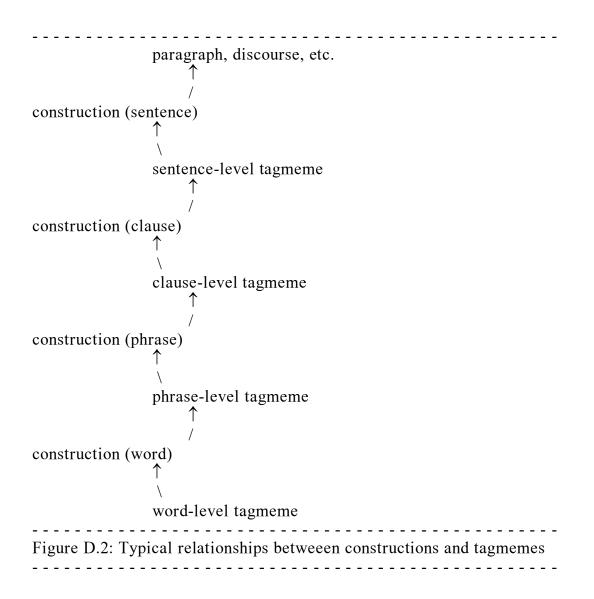
It was seen above that a construction is composed of tagmemes. It's also true that <u>tagmemes typically contain constructions</u>. These constructions ordinarily belong to one of the lower grammatical levels. For example, the locative tagmeme above contains a locative phrase, a construction from the phrase level.

It's now time to emphasize that tagmemes exist on <u>each</u> level of a grammar. Figure D.2 describes the relationships typically found between the constructions and the tagmemes of different levels.

It may be said that constructions are <u>potential</u> units of the elements that constitute them. On the other hand, tagmemes are <u>actual</u> units on the basis of which constructions may be discovered and described. It has already been stated that the relationships described above between constructions and tagmemes are 'typical.' There are also constructions from higher levels that are embedded in lower levels, skips from lower levels to higher levels, loopbacks, etc.

D.4 NUCLEAR AND PERIPHERAL TAGMEMES

It's not necessary to repeat here what has already been written in 5.0.2 and 5.0.3, but the importance of this distinction for the tagmemic model must be emphasized again.



D.5 HOW TO DISTINGUISH EMIC CONSTRUCTIONS

On each level of a grammar (word, phrase, clause, sentence,...), all the constructions must be examined and those distinguished that are emic. There must be some objective criteria to help the analyst. In order to state that two constructions are emic, the tagmemic model accepts the following criteria: a) there must be at least two structural differences between them, and b) one of these differences must involve the nuclear tagmemes of the constructions under consideration (Longacre 1964:47-48).

Longacre lists five structural differences which he accepts as valid. These differences will now be illustrated with examples from the Dii clause level (5.1.2, 5.1.3, and Tables 5.2 and 7.1).

1. He accepts an obligatory difference in the ordering of similar elements, or a marked statistical preference for a different ordering of such elements. Example: the two types of Dii introductive clauses demand that the manner position <u>precede</u> the direct object, but all other clause types demand that it <u>follow</u> the direct object.

2. Longacre also accepts a difference of structure of the elements occurring in the clause tagmemes, for example a difference in the words, phrases, or subordinate clauses that occur. Example: Table 5.2 lists six types of Dii direct object tagmemes. The direct object of a transitive clause may contain a noun phrase, a cardinal number, or a personal pronoun of the \underline{mi} series, but the direct object of the reciprocal clause may contain only a noun phrase, etc.

3. He accepts a difference in the emic class of elements appearing in the tagmemes. Example: the predicate tagmeme is distinct for each type of Dii clause, because the transitive predicate contains a transitive verb phrase, the intransitive predicate contains only an intransitive verb phrase, etc.

4. Longacre also accepts a difference in the number of tagmemes present, or the presence of a given tagmeme in one type contrasting with its absence in another type. Example: the Dii transitive clause may contain a direct object, but the intransitive clause cannot. In the same way, a ditransitive clause <u>must</u> contain an indirect object, but transitive and intransitive clauses cannot.

5. He accepts a difference of grammatical transformation possible. Example: Table 7.1 shows that the intransitive imperfective clause may be transformed into perfective and imperative clauses. On the other hand, the locative clause may only be transformed into a perfective clause.

All this is not only true for the clause level, but each type of phrase must be contrasted in the same way with all other phrase types. The same is true for each word type, each sentence type, etc. On each level the constructions must be examined, and those that can be contrasted by two structural differences are considered emic.

This appendix is only a brief outline of some of the principal ideas of the tagmemic model. For those who would like to study it in more detail, the following are recommended: Elson and Pickett 1967; Longacre 1960, 1964, 1966, and 1996; Pike 1959, 1967, and 1970; Pike and Pike 1980.