Now Phiose Sentental Complementation in 1680

Thesis submitted for the degree of Doctor of Philosophy

Sy

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Abstract

Since e full appreciation of the part is not possible without an appreciation of the shole, we have considered it appropriate to supply the necessary background information to the main body of the thesis in Part I which, therefore, serves as an introduction to Part II.

Part I comprises three chapters: Chapter 1 situates the dislect of Igbo being described here and gives an overview of Igbo language studies up to the present moment, pointing out their relevance to the subject of our investigation here - Noun Phrese Sentential Complementation. In chapter 2, we establish the phonological and morphosyntactic features of the dislect so as to make subsequent references to them easy, and also to draw attention to some fundamental differences between our dislect and that described by Green and Igwe (1963). The third and final chapter deals with Tone in Generative Phonology.

Part II consists of six chapters, 4-9. Chapter 4 gives the theoretical orientation of the thesis, indentifies all the categories of Igbo Noun Phrase (KP) complements and ergues for a deep structure generation of complementisers or the conjunctions functional in MP complementation. Chapter 5 deals with Indicative or %2 complementation, the class of matrix (main clause) werbs involved, and provides syntactic evidence in justification of the factive - non - factive distinction as applied to Igbo. Chapter 6 examines the Interrogative or Reg complements (that is, embedded Yes/No questions) and reaches the conclusion that the Igbo equivalents of embedded English SH - Questions are not instances of NP complements, but of relative clauses.

In chapter 7, we examine Importative or Si complementation and show

that the possibility of embedding imperative structures as MPs is due to the fact that the complementies in this construction type is of, a form of the werb isi - 'to say.' Chapter 8 is the lest of these chapters on the mechanics of complementation, and its subject is the subjunctive or Ka/Ka₁ complementation; the fact that this is the only complement type that is subject to Equi - MP Deletion is an automatic consequence of the meantic features of the matrix verbe involved. The last chapter, 9, is rather discussive and speculative; its main concern is with how the description of languages such as Igbo might contribute to linguistic theory.

The Bibliography gives a list of the works to which reference has been made in the course of this research. A sample lexicon as well as a chapter which argues that Igoo complementizers and function words must be verb-forms are contained in the Appendix.

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PART - 1

CHAFTER 1 INTRODUCTION

1.1. This work and its contribution to the study of Language

This work is completely original and its aim is two-fold:

- (a) To contribute to the literature on the Igbo language and thus increase our knowledge of this Tone Language in particular, and possibly, of typologically similar languages in general;
- (b) From an accurate description of this dialect to try to provide some answers, albeit tentative, to some of the issues raised by transformational generative theory.

first systematic description of the process of complex sentence formation in Igbo. Our semphasis has been on an accurate description of a wide range of data so that any hypothesis we have made might not be very easily fileified.

In the first part of this thesis, we have demonstrated that:

- (a) There are inflectional affixes in Igbo and that these are obligatory. in verb inflectional morphology, _ rather than optional, as has been ruggested by Green and Igwe (1963).
- (b) A description of Igbo construction types along the
 Affirmative and Negative divisions is such more
 revealing and of general relevance to other dislects
 of the language than the Green and Igwe analysis of
 Subject Werb Forms I and II based on the presence and
 absence respectively of the open yours prefix.

(c) Igbo is very much a "Verb" language, and what are seematically empty function words in other languages are verb forms in the languages.

All these findings, together with new facts about Igbo phonology auch as Tone assimilation, Regressive and Coalescent phonemic assimilation along with new dimensions of vowel harmony, will lead to a more accurate description and a better understanding of Igbo.

. In pursuit of its second aim - its possible contribution to linguistic theory, the research has provided some tentative answers to some of the current issues in the theory of generative, transformational grammar.

Following Rosenbaum (1967) and Robin Lakoff (1968), the transformational treatment of sentential complementation has assumed that complementizers are semantically empty surphomes which have no place in the base. but are introduced into the appropriate derived structures by means of a transformation; hence the transformational hypothesis of complementiser insertion. In reaction against the above theoretical assumption, it has been argued, notebly by Bresnan (1970) and Paul and Carol Kiparaky (1971) that complementisers are far from the semantically empty morphemes that they have been taken to be. They point out that complementiser selection must be sensitive to the semantic interpretation of the embedded NF complement, and therefore argue for a deep structure specification of complementisers. This is the Phrase structure hypothesis. Our investigation shows that for a tone language such sa Igbo, it is necessary to introduce com plementisers by means of base rules.

Secondly, we have shown that certain Igbo conjunctions, complementisers and prepositions are associated with existing verbs of the language.

Thirdly, the research reveals that only one category of NP complements - the subjunctive Ka/Ea complements - are subject to the rule of Equi - NP deletion followed by Infinitivization.

In view of the fact that verbs which are subject to this rule in different languages - English, Japanese, Igbo, Akan - share similar, if not identical semantic features, the hypothesis becomes irresistible, namely, that those rules of language which are truly universal (and EQUI may be one such rule) are likely to be those which are semantically determined.

Finally, we have shown that there is no motivation for any distinction between NP and VP complementation in Igbo.

1.2.0 Igbo in the Context of Nigerian Languages

Igbo is one of the three major languages of Nigeria, the others being Hausa, and Yoruba. It is the major language of Eastern Nigeria, spoken by all the people who inhabit what is now the East Central State (7.5 million people according to the 1963 Census figures), and by the West Niger Igbos in the Midwest State. It is also the first language of Diobu - Fort Hercourt and Ikwere Ecoe, whose peoples are racially Igbos, and of the Opobo people (as a second language), all in what is now known as the Rivers State of Nigeria.

Igbo has been classified as a member of the Kee group of languages by Uesterman (1952) and Greenberg (1960).

Greenberg's classification is the more recent of the two and describes the Kwa group as one of the subgroups of the larger family of languages to which he gives the name NIGER-CONGO. The Kwa subgroup of languages covers most of the coastal areas from Liberia down to and including Southern Wigeria; the Kwa languages are mainly non-class, tone languages.

1.3 Igbo - A Tone Language

Igbo is a tone language; the function of tone in the tone
languages of the world is so increasingly becoming the subject of
research that familiarity with the term is taken for granted here.
Boreover, the subject of this thosis is the syntex of an espect of
a tone language, and since tone is central to the syntex of tone
language, the functioning of tone will become increasingly clear as
the thesis progresses. Briefly, then, a tone language is one that
makes use of lexically and syntectically eignificant pitch contrasts.
As an illustration of lexically significant pitch contrasts, the nowfamilier quartet will be sufficients

i (e)	akwa	(high-low)	cloth
(b)	ekus	(low-high)	•99 ·
(c)	skue	(high-high)	cry
(d)	akus	(1 0 -10-)	bed
· (s)	Onu	(high-downstep) -	e proper nime.

These minimal pairs are distinguished by their contrasting tone patterns.

The interplay of tone and word order is the essence of the syntax of the Igbo language, of which Moun Phrase Sentential Complementation is an intergral part.

We have avoided using the 1973 Census figures because they are subject of serious controversy in Nigeria, and ere not to be Quoted until they have been validated.

In view of the fact that the grammatical significance of tone will become evident in this thesis, a few examples will suffice to illustrate the point here:

- 2 (a) 0 riri ya amusu (Declarative)

 He ate him/her witchcraft:

 He practised witchcraft on him/her.
 - (b) 0 riri ya amusu? (Question)

 Did he practise witchcraft on him/her?

In these two examples, the change from a declarative to an interrogative sentence has been signalled by the contrasting tone of the pronoun subject, $\underline{0}$, which is high in 2(a) but low in 2(b).

- 2 (c) 0 ga ejhé ahya eci He will go to morket tomorrow.
 - (d) Q ga ejha shya ecī.

 He will go market of tomorrow:

 He will go to tomorrow's market.

Observe here that the change of grammatical function is indicated by the tone patterns: in 2(c) $\underline{\acute{e}ci}$ is just an adverbial adjunct, but in 2(d) the same item is in constituency with $\underline{\acute{e}hya}$ in the nowinal phrase, $\underline{\acute{e}hya}$ eci, a fact which accounts for its final downstep.

1.3.1. Abstract Syntax and Tone .

The number of distinctive tones which a language has in deep structure does not depend on the number of pitch contrasts that the language employs.

In Igbo, for example, we have a three - level pitch contrast, high (<) contrasting with a low (<), and downstep high (-) which contrasts with its absence². But only the high and low pitches need be specified in deep structure; the third - the downstep or lowered high, is a surface or phonetic manifestation of various grammatical relationships, and therefore has no place in deep structure in this dialect under investigation. Unlike the mid tone in Yoruba, the occurrence of which does not depend on a preceding high tone, the Igbo downstep is always a relation between two high tones.

To say this much is not to imply that downstep is the only surface manifestation of underlying grammatical relationships in Igbo. A high or low tone is as much a marker of grammatical relationships as a downstep, but with this difference that early grammats of the language drew the attention of scholars to the presence of this tonal phenomenon because it is much more common in Igbo than, say, a low tone which derives from an underlying high tone or vice versa.

Professor Kay Williamson points out in her Igbo-English Dictionary, Ethiope Fublishing Corporation, Benin City, Nigeria, 1972, that the Unitsha dialect of Igbo has minimal pairs such as

á lu	bite
á 10	abomination
ásis A T	epace
3.00	a sark

This contrast does not exist in the dislect being described here. except in Prepositional Phrases as in -

n'ony - in the mouth n'imb - insido

(cf 3.4. p. 139).

For example, Er. Winston³ has likened the Igbo downstep to the English morphome [-5] which has the following syntection

- (a) It is the ', Plural marker of count nours;
- (b) = = = Singular = werbs
- (r) = " Possessive " nouns and pronouns;
- (d) It also indicates the unstressed Auxiliaries such
 as has and is as in "It's time".

The comparison is very appropriate.

But one should not forget that there are some surface or phonetic high pitches which derive from underlying low ones, in the same way as there are phonetic or surface low pitches which are high in deep or phonological representation. For example, Igbo is full of nominal structures such as those of 3 where surface high and low pitches originate from deep low and high ones respectively.

3 (e) sla # Ibe _____ als Ibe: Ibe's piece of land.

odhu # mgbacha ____ odhu mgbacha: an entelope's tail.

Tone changes such as the above and their generation in the phonological component of the grammer by means of tone rules.

form the subject of chapter 3.

In the same way, the rising glide that nouns of tone classes 3 and 4 (see 3.6.0) develop in relative clauses must also be seen as a surface or phonetic phenomenons

The god, Ale, killed somebody

The god, Ale, killed somebody

The god, Ala, that killed somebody.

4 (b) Ogu zara ezhi ____ Ogu zare ezhi

Ogu smept the compound Ogu who smept the compound All these tone changes reflected by examples 3 and 4 are exponents of an underlying syntactic relationship as much as a downstep is. That these examples reveal is that whereas downstep remains a surface marker of underlying syntactic relationships, high (that is, non - downstep high) and low tones are basically deep structure tones which may also mark some grammatical relationships as in 3(a) above.

The foregoing examples suggests the need for Deep or Abstract syntax in the analysis of tone languages. As we shall show in Chapter 3, it enables one to account for the above tone changes in a systematic way, and to capture essential relationship between items in structure, where this exists.

1.4.0 The Dielect under Investigation

The dialect being described here is one of the dialects of Ezinihitia in Ebaise Division. It is one of the central Igbo dialects and has a lot in common with Ohunu, the dialect of Green and Igwe, but much more with the dialect described by Swift, Ahaghotu and Ugorji (1962). Like other dialects of Igbo, this dialect has a terrace-level tone system. The phonological and morpho-syntactic characteristics of the dialect form the subject of the following chapter 2.

1.5 Conventions Employed in The Thesis

Orthography The orthography used throughout this dissertation is the Official Igbo Orthography approved and adopted by the East Regional government of Rigeria in 1961 and used by Green and Igae in their Descriptive Grammar of Igbo (1963).

S gr. F.D.D. Winston, Department of Africa, S.D.A.S. in an informal discussion.

Tone-marking Convention

Dur system of tone marking differs from the now conventional system employed by Green and Igwe in which high tones are left unmarked. In our tone notation, only the first of a sequence of level tones on the same pitch is marked, the rest being left unmarked until a contrasting pitch is reached. Very rarely has a sequence of two highs or lows on the same pitch been marked, except for the purposes of contrast or in order to draw attention to a particular syllable. Thus, a fully tone-marked sentence such as 5(a) is marked throughout this thesis as in 5(b).

Mant I to know if he will come: I want to whether (or not) he will come. Contrast the above pair with the following 6(a) and (b) where the contrasting tones of pronoun subject in Declarative and Interrogative complements are being highlighted:

If attention were not being drawn to the contrasting tones of the pronoun subject of the complements clauses in 6(s) and (b), 6(b) would be marked as in 6(c)

Translation into English

As a general policy, we have adopted the method of giving the literal translation of our Igbo examples first, and the idiomatic English equivalent afterwards.

This has been done to facilitate the reader's understanding of the sentences and their internal structure, and thus inable him to follow any arguments based on such an understanding. This general principle is, however, relaxed in certain cases; for example, if in a paradigm the literal translation of the first member has been given followed by its idiomatic equivalent, then only the idiomatic rendering of subsequent members is given, since the literal rendering of the entire paradigm is assumed to have been provided by the translation of the first member. In other cases, a sentence may be straightforward and there is nothing gained in giving a literal translation first; in such cases only the idiomatic rendering has been considered necessary.

$$x = \begin{cases} y \\ z \end{cases} =$$

is an abbreviation of the following two strings

in that order (in the case of ordered rules).

In giving examples, braces are also used to indicate sets of synonymous expressions as in 7

17

x (Y) Z

is an abbreviation of the two strings

XY1

X Z

in that order.

They may also be used to indicate optional items in examples, that is, items which may be omitted without any loss or change in meaning.

phonetic representations and almo to separate constituents of a phrase marker in which case they are usually labelled, as in

They are also used to enclose (phonological) features as in

end [+S] for a high tone,

The Asterisk • indicates sentences characterised by the grammar as deviant or ill-Pormed.

The Solid Arrow has been used in Phrase Structure rules to mean "re-write as" as in S NP WP

The Double Arrow means "is transformed into" and is used with respect to transformational rules.

1.6 Igbo Language Studies - An Overview

As far as we know, the present study represents the first aystematic account of the process of formation of any Igbo complex sentence type either within the Traditional Descriptive or Modern Transformational model. This is not to say that the Igbo language has not been described before in any detail. Far from that, there is a handful of Igbo grammars, some of which are briefly discussed below.

Among these, the first attempt to construct a grammar of Igbo in the larger frame is Ida Ward's AN INTRODUCTION TO THE 180 LANGUAGE, (1936). Ward's grammar is mainly a pioneer work with a modest sim "to set out the results of research into the tones and tonal behavious of Ibo, and to present these results in such a way as to introduce the learner to the difficulties of the language gradually, as far as this is possible. It may be considered as a kind of handbook covering the initial stages of grammar and tones (Introduction P. IX). Despite this modest aim, Ida Ward does go beyond simple sentences and tones to more complex sentences with subordinate (embedded) clauses. Chapter XXIV of this book on Subordinate Clauses devotes a section to Woun Clauses (the traditional label for Noun phrase sentential complements), although only the Na noun clauses are briefly treated by way of a few illustrative examples. A asparate chapter IX is devoted to infinitives: although she gives representative Igbo sentences with infinitival complements, she does not link these infinitives with any other non-infinitive clauses in the language.

This observation must not be construed as a criticism of Ward er, indeed, any other scholar of the Igho language because the insight into the necessary relationship between surface and doop structures has only been recently made possible by transformational generative theory.

The next description of Tabo worth discussing is the Swift. Ahaghotu end Ugorji IG60 BASIC COURSE (1962). This is a purely padagogic grammar simed at foreigners, and is, therefore, primarily concerned with the identification of tone contrasts by means of tone drill exercises. It is, however, the only Igbo Grammar of those mentioned have that identifies si as a conjunction (that is, the complementiser), and associates it with the werb isi 'to say' thus: "this form of the warb isi is used following warbs referring to what a person suggested, desired, egraed, intended and the like to intreduce a clause of reporting (indirectly) the intention or suggestion. This is the first indication of the manifold function of si in the Eximitite dislect of Igbo. Swift et al. also mention the substitutability of ke for ai in their discussion of Ke clauses which they describe as Hortstives. They argue thus: "Hortstive mesns 'mendatory' or 'advisory', and this form following Ka (that) is a stronger order than efter si where it is a suggestion" (P 314).

The reliability of this semantic distinction based on si and ka is, however, questionable. The fact is that si can be used in place of any of the conjunctions (complementisers) which we show in chapter 4 to be functional in Igbo NP complementation. But the substitution of si for any of the other conjunctions carries with it some stylistic implications as the following \$ (a) - (c) show:

- (a) Anyl coro si ka Ogu mechae (very formal)
 - (b) " * ka " " (formal)
 - (c) " " (colloquial)

We want that Ogu finish:

went Ogu to finish (what he is doing) Thus, the above sentences vary from the very formal to the colloquial, and the quertion of one being a stronger order than the other does not arise since ka does not introduce the importative in Igbo, a point which we take up in chapter 8.

In their discussion of Reported Speech (Na complementation)
Swift et al rightly observe that Subject pronoun singular may
differ in form from reported speech to direct address. They thus
give the form of subject pronouns in Reported Speech as follows:

- 9 (a) Aa` .1
 - (b) ÁgÍ You
 - (c) Aya He/she

The observation is correct, and Green and Igwa (1963) describe such forms as those of 9 as the Emphatic form. But what they fail to point out is that such forms occur much more frequently after the conjunction si than after any of the others.

By far the most comprehensive and detailed grammatical description of Igbo in existence is the Green and Igue, A DESCRIPTIVE GRAEMAR OF IGBO (1963); yet it is almost silent on Woun Clauses. a topic which it dismisses in a couple of illustrative sentences under the general heading of clauses. Their chapter on Conjunctions does not seem to be based on any discernible system. As far as one can judge, the value of this chapter on conjunctions lies, not so much in the insight it gives about the functioning of Igbo conjunctions, as in its numerous and varied examples. Undoubtedly, this book is a copious description of Igbo with a lot of detailed discussion and illustration of the Subject Verb Forms and Relative clauses. There is little doubt, however, that some aspects of Igbo grammar have had to suffor as a result of the detailed attention given elsewhere.

within the transformational model of grammatical description, Brs. Patricis-Cerrellis A TRANSFORMATIONAL GRAMMAR OF IGBO (1970). represents the first application of the transformational generative theory developed by Chomsky to the description of the Igbo lenguage. Like all the previous works so far discussed, it is a grammar in the larger frame and, consequently, does not treat any aspect of Igbo syntax in any detail. Nevertheless, this transformational smalysis of Igbo deserves some detailed comment here because of the differences between it and the one presented in Fart II of this thesis.

Our analysis differs in some fundamental respects from that of Mrs. Carrell. To begin with, all our complementisers are generated by rules of the base, and we have advanced reasons to justify this method in chapter 4 (4.3.).

We have also defended the specification of the abstract head proform ya to all MF complements in Igbo. All this is in contrast with Mrs. Carrell's analysis: she neither has the abstract proform ya in base structure, nor does she generate her complementisers by base rules. On the contrary, she introduces complementisers by a simple substitution transformation, much in the tradition of Rosenbaum (1967), which changes the phrase boundary symbol into the conjunction Na or Na. She says nothing about embedded questions. Her silence on this aspect of NP complementation is understandable from the fact that the dissertation from which her book originated was submitted at the University of Texas at Austin in 1967, only a matter of two years after Chomsky's ASFECTS. Until Bresnan (1970) pointed out that embedded questions are also instances of NP complements, transformational generative grammarians had not come to recognise this fact.

In matters of detail, our analysis differs from Carrell's.

For example, we have not found any syntactic justification for ____

deriving the surface Ka complements from a structure such as the following via a Reduction transformation:

He ma aco of ka of rie ji == They want you that you est yes He ma aco ka of rie ji They want that you est yess

They mant you to eat some you.

To the above analysis she adds: "Ka clauses with the MP object of the main clause as the subject are said to be "wordy" and redundant, though not ungrammatical, by native speakers. Hence, the reduction described in this rule, though optional, usually occurs" (F.52). This reduction rule is made necessary only by Carrell's analysis. A detailed examination of Igbo MP complementation such as we have presented in this thesis reveals that the above analysis of Ka clauses has little or no support from the facts of Igbo syntax. There are other issues that one could take up with Carrell's analysis of Igbo, but these belong, not to this thesis, but to a review of her TRANSFORMATICHAL GRADER.

Chapter 2 The Phonological and Grammatical Features of the Dielect

2.0.0 Introduction

This chapter has been made necessary by a number of considerations. First, although this dialect being described here shares a lot of similarities with Ohyhu dialect described by Green and Igwa (1963), it has its own unique features which have never been described before. These features, some phonological, some grammatical, must be pointed out and high-lighted here and elsewhere in this study so that their subsequent occurrence might not startle the reader.

Secondly, in morpho-syntax, there is a fundamental difference between this and the dialect of Green and Igue, a difference which has only been pointed out in interpersonal discussions, but never put in print before. The difference is this: The role of Affixes (prefixes and suffixes) in the inflectional morphology of Igbo has been very narrouly understood, or at best, has been seen only from the viewpoint of the Green and Igmm Grammar of 1963. Although in a recent thesis accepted by the University of London for the degree of Doctor of Fhilosophy in December 1973, Rev. Igue presents a very detailed and informative analysis of the role of Affixation in Igbo grammar, the basic view expressed as far back as 1963 that suffixes are optional elements (the underlining is mine) in verb inflection is repeated in this thesis with greater emphasis. Since our own analysis based on facts from a different dialect suggest a radically different approach, this difference ought to be pointed out with equal emphasis, if only to make the reader smara of a different set of facts and different viewpoints_especially as we are convinced that our view is more representative of more dislects of Igbo than the analysis of Green and Igas.

These views are expressed in sections 2.3 & 2.3.1 of this chapter.

Thirdly, the distribution of affixes according to construction types differs in the two dialects being discussed here. This difference in distribution makes it necessary for us to modify, to a great extent, the Green and Igwe distinction into Subject Verb Forms I & II based on the presence in form II and its absence in form I of the harmonising open vowel prefix here symbolise as A. In our dialect, the distinction holds only in Affirmative constructions; in Regative constructions, on the other hand, the need for such a distinction ceases to exist, since every Regative verb form in this dialect has an obligatory, harmonising prefix A-, except when the subject of such a verb is the monosyllabic, inscrarable singular pronoun such as

I/I You (singular)

For our dialect and others like it, it is more appropriate to talk of the Negative and Affirmative Conjugations of the Verb, making use of obligatory inflectional prefixes and suffixes, rather than of Subject Verb Forms I and II.

This chapter is divided into two parts: the first part deels with the phonological features, while the second is devoted to the grammatical characteristics — that is — the morpho—syntax and the polysystemic tone patterns associated with different construction types in Igbo.

2.1 Phonology

Under phonology, we shall discuss the following:

- (i) Consonants and Vowels.
- (11) Vowel Harmony and
- (iii) Assimilation

Consonents and Vowels:

Consonante

The consonant system of this dislect is like that of the general Central Igbo dislects; but it differs from some of them in possessions an ingressive /t/ which may be symbolised as /d/

adu chemingstick

This means that our $/\delta$ / varies with /t in other dialects as the following examples shows

suffix in other dialects -dA in ours -ta irud (to come out) ididi 1 tutu to pick izūta trude ýtú meril éto chewing stick ಹಿದ್ದ utútu morning

Although this sound correspondence exists between this dislect and others, it is not always consistent, since the dislect abounds in lexical items with /t/ where one would expect the ingressive /d/. For example, one finds emong the verbs, the following items with the /t/ phonese where one might be led to expect the ingressive /d/s

ito to grow but not ! ido

This correspondence is therefore not predictable, because not consistent.

As in most dialects of the Central Igbo area, aspiration, nesalization, palatelization and labialization are distinctive in our dialect. A few minimal pairs are given below to illustrate these phonological features and the system of writing them in this thesis:

(a) Aspiration

akhų	wealth
àkụ	termite
ikhū	to plant
íkū	to best
ithe	to wake
ítē	to plaster, polish, amoothen,
19'¥	to tie (as of load), bind.
igy (ahwa)	to name (a child)

Throughout this thesis, the symbol go is used to represent the aspirated, voiced velar stop. This has been done to svoid a possible confusion with the voiced velar fricative gh [] as in sighs [] Ya] ser.

(b) Labialisation

enu [a´ɔu] bess enuu [a´ɔu] sun

(c) Nasalisation

į sŪ		to pound (yam into fufu)	
1 gų		to clear a bush for planting	
Įvu	(éde)	to harvest (cocoyaas)	
1vù	. "	to intch (eggs/chickens)	· ;.
i <u>n</u>	ónu	to bless, wish well	

(d)	Pelatelisation ·			
	16ā	Ì	to grow/become rich, increase	
•	iby#	•	to come	
	ip\$. ~	`to carry	
^	1, AB	(hwe)	to flog, thresh	
	į́pyā	òkhalak a	to grow tall	
`.	įrà	(ire)	to show the tongue in swearing to swear in earnest	
	¥Tya	(orya).	to fall sick, be sick	

Vowels

Like most Igbo dialecis, our dialect has 8 vowels which strictly observe vowel harmony. These are:

	FRONT	BACK		
1	· 1	U		
2	*	. 😲	• . •	

FRONT				BACK		
3	•	•		٠, ٠		
4	٩		•	ę		

The two distinct harmonising sets are:

	SET 1	•	SET	.2
1	1	2	\$	
3	e	4	4	
5	Ú	6	V	
7	•	8	Ŷ	

The vowels in each set harmonise with one another, and where this harmony is broken, it is an indication that there are two distinct roots involved in a compound word, for example in Igbo compound verbs:

From a purely impressionistic account; we believe that the phoneme /e/ has two allophones in this dialect, as exemplified from the sound of the same orthographic /e/ in the following pair of words:

the tongue height in eke seems lower than in the articulation of the L_B in egos - 'gun'. This needs to be investigated. The relative position of the above vowels on the Cardinal Vowel Chart is given by Dunstan (1969).

2.1.1 Vosel Harmony

Vowel harmony has long been recognised in Igbo; it has been given prosodic treatment by Professor Cernochan (1960) in his article "Vowel Harmony in Igbo." Being features of entire syllables, wowel harmony along with such other phonological features as masalisation seem best captured in a prosodic treatment which is economical and descriptively adequate at the same time.

Vowel harmony is very rarely, if ever, broken in this dislect even where formatives (prefixes and suffixes) are involved. For example, the following 1(a) is possible in some dislects of Igbo, but only 1(b) in which the -tA suffix harmonises with the vowel of the preceding verb stem is used and heard in the dislect being described here.

- 1 (a) Uetara a nca
 - (b) Betere **&** nca

Bring for me somp: Bring me somp.

It is true to say that in this dislect all inflectional and derivational affixes either harmonise with or assimilate to the preceding rowel, be it in the verb stem or in another suffix.

The only exception so far discovered is the perfect suffix, negative, belowhich maintains its phonetic and tonemic identity in all contexts.

Similarly, the phonetic form of the following prefix and pronouns is also governed by vowel harmony:

- (a) The second, third, person, singular as well as the impersonal pronoun subject;
- (b) The infinitive, high front wowel prefix.

 This is why the following symbolization has been used throughout this thesis as the underlying form of the foregoing items:

- (ii) 0 (With two phonetic realisations, o/e)

 for the open wowel inflectional suffix and for the
 third person, singular pronoun subject. In the case
 of the third person singular pronoun subject, 0 is a
 morphophonemic variant of a deeper form ya which is
 discussed extensively in chapter 5.
- (iii) I (With two phonetic realisations i/i .

 represents the infinitive prefix, so well so the

 morphophonemic form of the second person pronoun gi.

The use of the above symbols is illustrated in the following

exampless

With Imperative Sentences

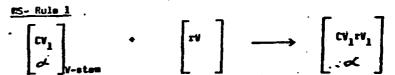
He ment to market

has been to the market.

S (a) I haury ya ____ I hauru ya?
Did you see him?

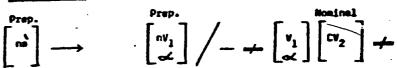
6 (a) I + me Verb _____ime 'to do

For suffixes such as -rV which assimilates completely to the preceding syllable in tone and vowel, and the preposition no which assimilates to the tone and vowel of the following syllable, we propose the following sorpheme-structure (PS-) rules:



where of denotes the tone of the verb stem.

M.S. Rule 2(m)



where $V_{\underline{\mathbf{l}}}$ is a vowel, and of denotes the initial tone of a two-syllable nominal.

m.S. Rule 2(b)

these two rules amount to is that the preposition No essemilates 1:

- (a) To the initial word and tone of the immediately following syllable of a nominal in a prepositional phrase (#.S. Rule 2a) thus:
- - (b) To the tone only of the immediately following syllable of a nominal in a prepositional phrase, if this syllable bagins with a syllabic masal (M.S. Rule 2b) thus:
- 8 (a) na _ mkpa _ na akpa in/from necessity
 - (b) no __ Rgeuru __ na Mgeuru at Mgeuru
 - (c) no 🗻 náhů 🔝 ne nahů in life
 - (c) Elsewhere, no does not assimilate as to vowel or tone as in,
- (a) na 🗻 Lagua _ na Lagua at Lagua
 - (b) na + Lundon na Lundon in London
 - (c) uş 🛪 röji 🥕 uş röli at röli

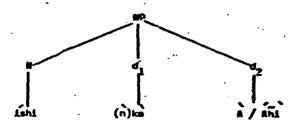
Carnochan (1960) has given a prosodic treatment of Yowel
Harmony in Igbo, but in the dislect being described here, the
operation of Yowel Harmony is slightly different, as the following
disctic structures shows

10	(=)	inhi		e/ shi	this/that head
	(b)	ízı	·	è/ shi	this/that food
	(c)	(1)	ńth <u>ī</u>	.	this ser
		(11)	ńthị	epi	that ear
	(d)	(T)	· 61e	•	this antalope
		(11)	61 =	. eñi	that antelope
	(•)	(i)	ijhe	•	this journey
		(11)	í jhi	์กัง	that journey
	(r)	(i)	àl s	•	this land
•		(ii)	òle	epi	that land
	(ġ)	(±)	án .	•	this road
		(m)	ána ,	a <u>v</u> j	that road
	(h)	(i) ~	เลือน	•	this hill
		(11)	กุริสก	อกัง	that hill
	(i)	(T)	ngan '	· 👌	this (type of) hatred
		(11)	no-i	òyi,	that " " hatred
	(t)	(t) ·	iro	. •	this (type of) hetred
		(11)	iro	-ohi	that " " hatrad
	(k)	(1)	ųlõ	è	this house
	•	(II)	ψlο	ĝh <u>i</u>	that house

In this dislect, the disctic element has eight phonetic realisations, emerges in the dislect described by Carnochan, it has only four.

Perhaps, assimilation is not the right term to use in the description of the behaviour of the Na preposition. That is curtain is that the first syllable of the nominal that immediately follows Na is lengthened, if it begins with a wowel. The exact length of this syllable can only be determined by means of a mingograph tracing. The issue is taken up again in 2.2.2 where evidence is provided to show that the duration of the Prapositional Phrase Na + N with tone and wousel assimilation is by and large the same as that of the two items unuscimilated.

The Diectic structure being discussed here can be further expanded by the addition of __nks_ thus:



FIC 1

The above figure 1 is the underlying form for the following nominal phrases:

•		open-eye	this	that causes loss of earkets
•	(ē)	issanya	kē è	ná šku ehyä:
	(d)	órų ka	ehi	that ferm/work
	(c)	óių ka	•	this farm/sork
	(b)	ishi ke	ehi	that head
12	(a)	ishi ke	•	this head

This self-defeating boldness/sudacity

As can be seen from 12(a) (e), the number of phonetic realisations after <u>nke</u> has been greatly restricted by the preceding wowel /e/of the diectic element.

Thus, in place of the eight possibilities given in (10), there is only one in the following examples from Unitshe dislect.

(a) manya
$$\Rightarrow$$
 afy \Rightarrow manya afy that wine

(b) nni afy \Rightarrow nni afy that food

(c) ego afy \Rightarrow ego afy that money

(d) uguu afy \Rightarrow uguu afy that hill

(a) amakekuu afy \Rightarrow amakekuu afy that incorrigible fellow

phonological fact also emerges: the low-tone determiner a (this) requires a praceding high tone. This has meant that all underlying low tones preceding it turn out as high tones at the surface or phonetic level, (see 10c(i), e(i), f(i) and k(i), pp. 11-12). This tone-reising is by no means an isolated incident, but part and parcel of a more wide-spread phonological feature with all Nominal atructures in Igbo.

This is discussed extensively and illustrated under Nominal Structure Tone Rules in 3.3.0. What must be emphasised here is that this tonal change is atructure-specific, its occurrence is restricted to Nominal structures only, under which atructures the foregoing examples fall. Dutside Nominal structures, this phonologically determined Tone-raising does not occur, as the following examples show:

NP V

- 15 (a) Ng uma meruru ala Nguma defiled the land.
 - (b) Imebi akhy na ere onye mkpata iwe.
 To spoil wealth does anger the one who earns angers
 The squandering of wealth does anger the one who earns
 that wealth.

Each of 15(s) and (b) consists of a Kominal phrase (AP) and a Verb phrase (VP) in the relation of subject and verb in a sentence. Because of the two distinct structures involved, a low-tone (sequence) followed by another low tone (sequence) as between Ago was and merury or Imebi and akhy is not only phonologically possible, but perfectly acceptable. But in an AP structure, such a low tone sequence is blocked by a general phonological rule in Igbo which demands that in any Kominal structure in the language a low tone preceding another low tone across word boundary be reject to a high tone thus:

- (c) Abhs \(\pm\) Enus \(\pm\); stha enus

 jau monkey s monkey's jau

 (d) North to Monte \(\pm\); should be seen a significant of the seen as a significant of the
- (d) Ngeji 🚓 Mkata 🚎 ngeji nketa. spoon the spoon of Nketa

(e) Ngaji [Nkata] zùtara magburu onse yā.

spoon Nkata bought bezuty-kills self its:

The spoon which Nkata bought is exceedingly beautiful.

In 15(e) above, we have a Relative Clause as the MP, and the relationship between the modified Noun (Ngaji) and the modifying Relative Clause

| Nkata | Zutara is formally signally | Nata |

by the final high tone of the subject NP of the clause. In ! other words, if the NP is of the structure represented by Fig. 2.



FIG. 2

But with a Relative clause, it is the final low tone of H2 which undergoes tone-reising, as Fig. 3 shows:



No Rel. Clause

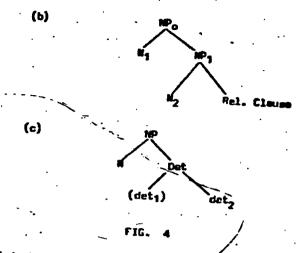
FIG. 3

There is, therefore, a correspondence of tonal behaviour among Kominal structures of the following types:

16 (*)



- 6 september -



It is this correspondence of Tonal behaviour that is our justification for generating their tona patterns by one and the same set of Tone rules in chapter 3.

2.2.D Assimilation

Chat Dr. Igwe (1974 pp. 32-34) describes as vowel elision is here described as assimilation, and it is generally regressive. Vowel elision, by which we understand a phonologically conditioned deletion or loss of vowel as in the following French examples:

has very little, if any, place in Igbo phonology. Definitely, it does not occur in the prepositional constructions which Dr. Igwe cites on page 34 of his thesis. The phenomenon of vowel elision is very such restricted in Igbo to a relatively very small number of lexical derivations involving the creation of proper names from Igbo sentences; the process is described in the following section 2.2.1 under the sub-heading *Lexical Creation, Assimilation and Elision*.

We disagree with Dr. Igwe's view that vowel elision occurs in the language in prepositional phrases, as the following extract from page 34 of his thesis assert: "In all cases the number of syllables is maintained, except in the case of particle + nown where the particle is the preposition na, and the following nown has an initial high-tone syllable. Compare (7) (a) with (b).

- 7 (a) na +ohya : / n ohya / 'in the bush'
 - (b) na +obu : / noobu / 'in the hall' =

nothing to do with pitch. The phenomenon which he calls elision

(assimilation, as far as we know) takes place across word/acrphene

boundary regardless of the pitch of the items involved. This

being the case, it is surprising that prepositional phrases constitute

the only exception to what is a general phonological rule of the

Igbo language that Na assimilates to the pitch and vowel of the

immediately following syllable, or to its pitch only, if the

syllable begins in a syllabic mesal. It seems that Dr. Igwe tends

to confuse orthography with phonological facts. Although it is

an accepted orthography in Igbo to write:

it is no more than a convention to do so, and what is written has
nothing to do with the number and duration of the syllablas involved.
as indeed orthography does not necessarily reflect phonetic facts.

The following mingograms on pages 47-50 represent the result of an experiment to determine the duration of the preposition makes and the noun that follows it in a prepositional phrase. Two types of data have been used.

(a) The first type of data represent the phonological environment where there can be no vowel assimilation between nd and the following item, such items being monosyllabic nowns beginning with consonants. These are:

Na di in marriage etc.

Na ci from nature

Na ii from/with yam

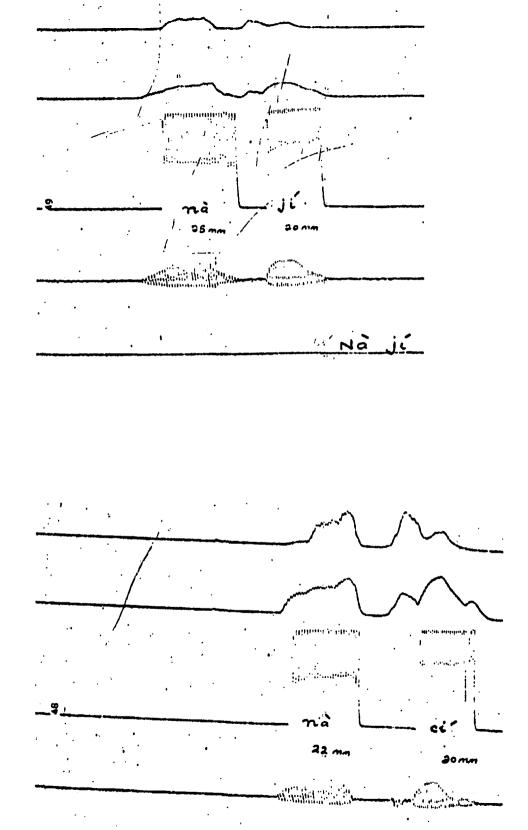
In the mingograms of these propositional phrases, (pp.4750).

We has a duration ranging from 22-25cm.

Observe that on page 50, the initial low tone of the prepositional phrase Na Kano is by far higher in pitch than the final low tone on - no. This observation is borne but by the fact that the strictions of this final low-tone syllable are longer and more spaced but than those of Ma, the initial low tone of the phrase, and thus confirming the hypothesis that pitch tends to drift downward from the beginning to the end of a phrase or sentence, and this downward drifting applies to high as such as to low tones.

(b) These data are such that the phonological environment for vowel assimilation is set since the noun following no in each case begins with a vowel phoneme. The mingograms are shown on pages 52-54. On each mingogram the first portion represents the prepositional phrase spoken as distinct lexical items, without any assimilation, while the second portion shows no assimilated to the vowel and pitch of the following syllable, thus:

Bitter and A A C. A. C.



Na ci

1st Portion	2nd Portion		
Ma ø akpa	nžakpa	"in the beg"	
Hi + éks	naska	fon the hand!	
nê e úthù	ກນົນປານີ	ton the penist	

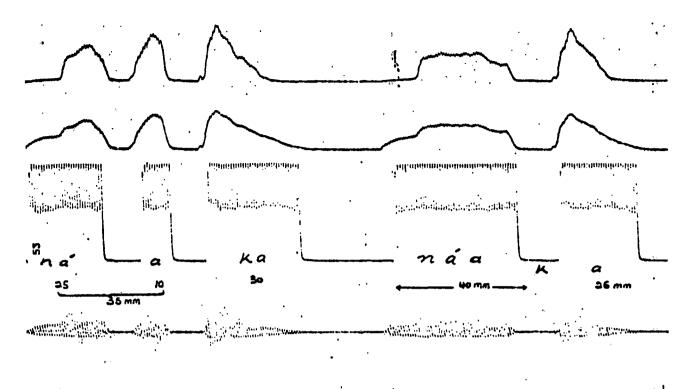
Mouns beginning with high and low pitches have been used after the preposition Na^{λ} . The result is as follows:

- begins with a high or low pitch, the duration na end the following syllable in the first portion is of a shorter duration than the corresponding number of syllables in the second portion showing assimilation. On page 52, it is 30 mm. in the first, but 34 mm. in the second portion; 35 mm. in the first portion but 40 mm. in the second half of both pages 5355.
- (ii) But this difference is very negligible when one considers the fact that one second in time on these mingograms is represented by 100 mm. Chat matters is the tendency for the maximilated portion to be slightly longer in duration than the unassimilated first portion, and not shorter.
- (iii) This result thus confirms our stand that that is involved in Igbo prepositional phraces is assimilation or change of vesel and not the loss or deletion of it. Contrary to New. Igwe's claim that high tones are deleted when preceded by the preposition na, it turns out to be the verifiable fact that both high and low pitches are subject to assimilation, and that none of them is subject to deletion.

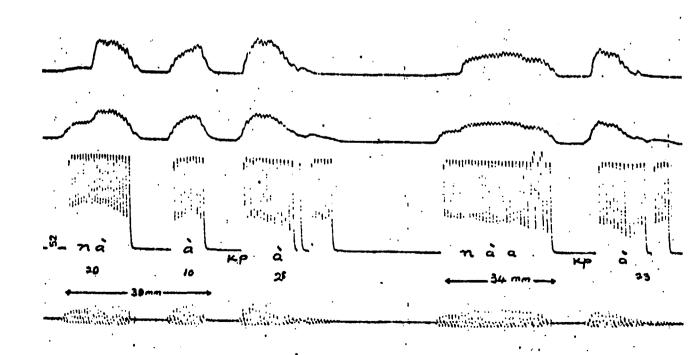
Types of Assimilation

Three types of assimilation need be distinguished in Igbos

- (a) Fhonemic (Regressive) Essimilation
- (b) Tonemic (Low-tone) assimilation
- (c) Coalescent assimilation







Winding Special 95,

2.2.1 Fhonemic (Vovel) Assimilation

Listening to the speech of an Igbo speaker, one cannot easily tell where one word ends and the other begins. This is due to the fact that across word boundary two adjacent vowels are subject to assimilation, the following vowel being the assimilation, the preceding one, the assimilated vowel. This is Regressive assimilation because the assimilating vowel follows the assimilated one, as the following examples show:

17 (a) 0 gara oru [0 garooru]

He went to work.

- (b) Érile any [Érileany]

 On not pat meat.
- (c) 0 rīghe iři [Orīviiři]
 He is (busy) esting.

- (d) Çigböshara uma ya n'anmi [Digbäsharuumlenaanmi] He apreeds his clothes out in the sun.
- (e) C rīri anu (i) [Grīryaanu] [Jorīreanu]

He ate some ment.

In all these examples, it will be observed that it is the preceding vowel which assimilates to the following one across word boundary. Furthermore, in 17(e) there are two possibilities; (e) (i) with the /y/ off-glide shows what happens when the tongue moves from the very high front sound /i/ to a low back one /a/, and (e) (ii) follows the pattern of other examples of 17 in having no y off-glide.

It has been observed by Rev. Igue (1974) that "when the close vowels i/i and u/u occur as final vowel in a morpheme, no elision (our assimilation) takes place between it and the initial vowel of the next morpheme whatever type the latter may be (p. 32). He cites the following examples, besides which we add our own realisation of the same phrase.

18	(=)	Igue'e	Ours
	•	isi ornų	ishi çrç
			[tlòótỷ] [tlòótỷ]
	(b)	ngi -erg	[udyéele]
		the appearance of the deer	
	(c)	égsu onuă conn-light dance	[égmộçama]
	(d)	oru ochie	[õroochie]
		old piece of work	[ģīyðchie]
-	(e)	eguu eghê	[ógensetti]
		war dance/music	[#dgesempa]

- (f) ydi udele [ydywudele]
 the appearance of vultures
- (g) égeu liche [égelikhe]

 {
 energetic}

 Heroic}

 dence
- (h) imi Ume [imyuume]
- (1) sei Okoro [esycokoro]

What 18 (a)-(i) show for our dialect with regard to final i/i and u/u is as follows:

- (i) With i/i in final position, there is the additional wowel height feature represented by 'y' off-glide, which does <u>not</u>, however, prevent regressive essimilation, se l(s), (b), (f), (h), and (i) conclusively show.
- --(ii)- This 'y' off-glide is absent if end only if this finel eyllable is a CV where the consonant (c) is the slues -- paletal fricative ///, as in 18/(a) where our dielect has ishi [ifi] in place of Igwa's isi.
- (iii) With u/u as the final vowel in a morphose, regressive assimilation takes place unimpeded, as 18(c) (e) show-

thenever nouns of the above tone patterns are preceded by an item ending on a high tone, be it a noun or verb, they have their initial low tone raised to the level of the two adjacent high tones: This always happens in

- (i) CAUSAL CLAUSES beginning with Webe, "since"
 - (ii) NEGATIVE Imperative constructions. .
 - (iii) Whenever members of this class of items are in object position after high-tone verbs.

The following are illustrative examples; the relevant items whose low tone has been assimilated are underlined.

- 20 (a) the oke nouruns, welaghang omy In the place rat has died, send back then trap
 - (b) N'eba akhwa a recherele, lufunéa ha

 Since eggs these hava rotten, throw away them.

 Since these eggs have become rotten, throw them away.
 - (c) N'ébe <u>iou</u> mara ya, ya maé akhu Since law traps him he pay fine Since he is quilty, let him pay a fine.

Causal Clauses beginning with N'ebe are Relative clauses; one would, therefore, expect the same tonal behaviour from these items in Igbo Relative clauses given the same tonemic context. This is really what happens in the following 21 (a-f) which contain relative clauses:

21 (a) Unya okuko ya furu, ya jha juo Ekho Person fowl his miss he go ask Ekho Anybody who loses a fowl should enquire from Ekha,

- 21 (b) Agboghō omugwō chera adīi na nkohyè young woman who paugwo brightens is not in mistaking.

 The young mother on whom there is strong evidence of postnatal care (òmugwò) cannot be mistaken.
 - (c) Onye ofo gburu, ya elele madhi anya n'ihu
 person whom ofo kills he look not person eye in face
 He who has been penalised by Natural Justice should not look
 round for a scape goat.
 - (d) Okoro agbogho kwere di, O jikwe eg'o?

 young man whom a young lady agrees marriage, he has money?

 The young man to whom a young girl has given consent, has he got the money?
 - (e) Onia oke juru n'ime ya na atú ujo Bush which rate full inside it causes fear A wood which is full of rate is frightful.

Negative Imperatives

In this construction type, as in Causal N'ebe clauses, the same tonal behaviour is displayed by this class of items, thus:

- 22 (a) Acols ups shue.

 Look for not wealth much: Do not go after much wealth.
 - (b) Ecule Ufomba thea

 Do not weit for Ufomba today.
 - (c) Akpola <u>Okoro</u> egbu I jhe

 Do not call Okoro when you are goin

As Objects of High-Tone Verbs

- 23 (a) B sTrl aldwa
 - (b) D ruru of p -
 - (c) 0 kporo enví oriri

 He called us feast: He invited us to a feast.

Now contrast the tone pattern of the underlined nouns in 23 with their tone pattern in the following 24

- 24 (a) O riels äkhus He has eaten some eggs.
 - (b) Çnya a asagbuole ake

 Trap my has caught rat: By trap has caught a rat.
 - (c) | ruple ofo

It will be observed that rather than maintaining the same level as the preceding high tone, the relevant syllable of these same items is on lowered high or downstep relation to the preceding high tone. Yet it is the same tonal assimilation that is going on. That seems to determine whether it is a high or downstep tone is a combination of the following factors:

- (a) The presence of a previous downstep in the sentence, and
- (b) The number of syllables on the case level as this downstep before the following downstep on the class of items being considered here.

Contrast the following two sentences, for example:

- 25 (a) Egbuole a okst I have killed a rat.
 - (b) I goudle oke: You have killed a ret

In 25 (a) oke meraly essimilates to the immediately preceding downstep, but in (b) there is a further downstepping on oke where the distance, measured in terms of intervening syllables, is longer. But since phonology is not our immediate concern in this themis, we do not pursue this investigation any further. It is sufficient to point out that all these tonal phenomena are exponents of tonomic assimilation.

Before we leave this aspect of assimilation, we must emphasize that tonemic assimilation does not take place if the items involved have either of the following tone patterns:

- (i) low-low such as bla or
- (ii) low-low-high such as drawn'

 For it to take place, the initial low tone must be immediately followed by a high tone. Consider the following examples in the light of the above statement:
- 25 (a) like e ey cnye isy yi na eshi ikhi
 - (b) " " ala ya na sina uka
 - (a) This is the one whose low is strict.
 - (b) " " " " piece of land is the subject of dispute
 - (c) fike e wi onys okykô ya furu.

 This is the one shose fowl got missing.
 - (d) Note is up once counce you no amashi in this is the one whose behaviour pleases me.

From the above data, it will be observed that low-tone assimilation has taken place in 26(x) and (c) where the lexical items, iwi and okyko have the appropriate tone pattern, but not in (b) and (d) where the items also and oruno do not seet the tone pattern requirement for low-tone assimilation.

The following rule captures this low-tone assimilations

The above rule is part of a wider scheme on Tone and Tone Rules in Igbo, which is the subject of the following chapter 3, (3.3. p.12)

Tonemic Assimilation in Prepositional (Na NP) Phreses.

There are two items in Igbo which are subject to a combination of tonemic and phonomic assimilations the first is the -rV suffix, and the other is Na as a preposition. These two items have been discussed in 2.1.1. Prepositional (Na NP) phrases are too well known in Igbo to deserve any further belabouring here. We only give a few illustrative examples of the total assimilation of Na to the tone and vowel of the immediately preceding syllable, provided that the lexical item in question begins in

The foregoing examples show that assimilation is total or complete,

if the following nominal begins in a vowel; it is only tonemic but not phonemic, if the following nominal begins in a syllabic masal; there is no assimilation whatsoever, if the following nominal begins in any consonant other than the already mentioned syllabic masal (27 (e-f)).

Complete (phonemic and tonemic) assimilation (27(a-c)) is not dependent in any way on whether the initial tone of the following item is either high or low; it takes place regardless of the pitch of the adjacent syllable. As we have pointed out earlier on in 2.1.1., the number or duration of the two syllables involved remains unaffacted by the process of assimilation by which we understand a change of phoneme at word boundary, and not an elision or loss of the same phoneme. Such orthographic conventions as

must be seen as such, and not confused with phonatic facts.

The rules to capture this unique feature of Igbo Prepositional Phrases remain as given by M. S. Rules 2(a)-(c).

2.2.4 Coalescent Assimilation

Daniel Jones defines coalescent assimilation in the following words: "the sounds A & C influence each other and coalesce into the single sound 9" (p.219). This agems to be what is happening in the following Igbo examples:

28(*)	Orthography			Phonetic Realisation	
	ishi	yā	his/her head	[(3:5]	
(b)	ekpi	yē -	its louse -	[akpis	
(c)	egbe	ya´ -	hie gun -	egbie	
(d)	úkhwu	y o ′ -	his woist	úkhele	
(e)	ukwu	yē -	his foot -	utariā =	
(r)	òkpo	yá -	his path -	ôkpie]	

The phenomenon could be represented in the following way:

IA

/ I / will of course be realised as wither [i] or [i] in harmony with

the preceding wowel, and will in turn determine the phonetic value of

/ A /, the wowel of ye, as the date of 28 reveal.

Coalescent essimilation is not atructure specific, it takes place

whenever the phonological environment for it is met, that is, in

environment

[cw] __ but not in [cw] [w] ___
In other words, ye must not be preceded by two consecutive vowels
in order for coalescent assimilation to take place; the following
illustrate the point

(d) Bye ye eg'e __ [nyleeg'e] Cive him/her meney

The starred examples in 3D(b) and (c) are not phonetically possible because of the preceding consecutive vowels in each case. We have not come across any mention of coalescent assimilation in Igbo enywhere before.

2.3 AFFIXES

In this section, we shall set out all the inflectional affixes

(Prefixes and Suffixes) which function in this dialect, and we also provide
appropriate sets of examples to illustrate their use.

As we made clear at the beginning of this chapter, the role of affixes in the inflectional morphology of Igho has been either misunderstood or vary narrowly understood. Or G. E. Igwe, who with Miss M. M. Green produced the first ever comprehensive grammar of Igho in 1963, still holds the view that suffixes a.e. if anal elements in verb inflection: "It has been erroneously assumed that the suffixes -ghl and -lA were necessary elements in Negative Clauses. But what will be stated very emphatically is that no suffix of the language, including the vowel suffix, has to occur obligatorily in any construction type, whether Imperative or Non-Imperative, Negative or Positive. Suffixes occur only when the particular function which they indicate ere present in the constructions.

We find it very difficult to accept this view of Dr Igwe's in the face of strong evidence to the contrary from our own dialect, which must be considered a dialect of the Igbo Language. It is still too early in the study of the Igbo Language to make such a global statement as the showe quotation from Dr Igwe's thasis.

Contrary to what Dr Igwe says, we believe that in Igbo, as in any other language, it is possible to omit certain grammatical forms of language provided that there is a contextual clue as to the meaning of the omitted forms. Consider the following Igbo sentences in the light of this observations

³ G.E. IGUE, University of London Ph.D. thesis, p. 155.

28(a) 0 jhe shya nghu m hairu ya un men coing to market when I see him.

(b) 0 jhere shys (scal gare age)

He sent to market (yesterday).

In the above 28(a) & (b), it will be observed that the past time suffix, rV, is an obligatory element of one of the verbas in (a) it is present in the verb of the subordinate clause heuru - 'ess', which gives the entire construction its time reference.

In (b), it is the main verb of the sentence that bears the time suffix. This suffix is never optional in any dislect of Igbo that we are sware of. The affect of omitting this time suffix is to produce the ill-formed 28(c) inspite of the presence of a subordinating clause of time. On the other hand, 28(b) above is well-. formed whether or not there is a time adverbial clause simply because the time-indicating suffix is present in the werb.

(c) . D the shys (ect gars age)

He is going to market yesterday.

Furthermore, in the absence of any study of Igbo werbs, it will be wary difficult to support a statement which claims that suffixes are optional in werb inflection in Igbo.

optional in warb inflection. A random sample of verbs from the language
suggests the recognition of the following sub-categories of verbs on
evntactic or phonological grounds:

- (a) those verbs which obligatorily take the open vowel suffix, and
- (b) those that do so optionally in certain construction types.

 The construction types which provide the diagnostic tests are:
 - (i) Imperative Affirmative
 - (ii) Perfect Tense
 - (iii) Conditional Clauses and
 - (iv) Narrative Constructions

Thus, in Imperative Affirmative; we have

- 29(a) ĥwú yā but not hwúo yā
 - (b) gbúo yē but not *gbú yē kill it/him
 - (c) rie ye but not •ri ya est it

In the Perfect and Narrative forms, the same feature is displayeds

- 30(a) Ogu añeuna neis ye:
 - (b) Đgu egbuole nhữnu
 - Ogu has killed a bird
 - (c) Dgu eriele nnunu
 - Ogu hes eaten 's bird'
- 31(a) Iba gara wio ogew, hew nearms ya

 Iba went to the hospital and saw his brother/sister.
- (b) Ibe khworo ela gbuo nwanna ya
 - The regarded land and killed his brother/sister.
 - Ibe killed his brother/sistor because of land.

32. Ibe shichere anu rie ya

The finished cooking meat, and ate it.

It will be observed that this vowel suffix is consistently taken by varbe like igbu, and iri in all these construction types, iheu, on the other hand, consistently does not take it. But when, in perfect tense, and perfect tense only, iheu takes an open vowel suffix, a new element of meaning emerges thus:

- 33(a) I havona ya (tha)?

 Have you ever seen him (today)?
 - (b) Ee, sheuons m .ys.
 Yes, I have once seen him.

33(a) and (b) suggest that there is not just one, but two, or possibly more vowel suffixes in Igbo, one inflectional, and the other meaning-modifying. The same may apply to the -re suffixes; there may be many more of them than have been so far recognised. Since a sub-categorisation based on these inflectional characteristics must be recognised in a thorough study of Igbo verbs, it is a bit premature to talk in terms of suffixes occurring when the function they perform is present. We pursue this subject in greater detail in the following section 2.3.1 where we show that there is nothing random or optional about the occurrence of these or any other Igbo suffixes.

2.3.1 INFLECTIONAL PREFIX AND SUFFIXES

The following prefix and suffixes are obligatory and inflectional in the dialect being described here. It is very similar to that described by Swift, Ahaghatu and Ugorji in IGBO BASIC COURSE, 1962. Foreign Service Institute, Washington D.C.

In view of the fact that reference will constantly be made to warbs in the examples which follow, we have adopted the following classification. Of verbs after the suggestion of Professor Carnochan (1966).

VERB CLASS 1 for high-tone verbs such as irl to est.

VERB CLASS 2 " low tones werbs such as idha to fall.

VERB TO GLASS 3 for those verbs formerly classed as
High-Low verbs, such as
iga, 'to go', ibya, to come.

This class comprises verbs which in one construction type behave as high, and in another as low tone verbs. For examples

- 34(a) 0 gara anya: He went to market.
 - (b) 0 gala shya: He has gone to market.
 - (c) Ye gaa ngwangwa: Let him go quickly.
 - (d) Ya gas ngsangwa: If he goes quickly

Thus Class 3 werbs will tonally behave like members of Class 1 in some construction types, and like Class 2 werbs in others.

A fourth group. Verb Class 4, may be recognised along the line suggested by Dr Igwe, in his thesis (p.45), this is the class of compound verbs: Despite Dr Igwe's argument to the contrary, there is a lot to be said for Professor Carnochan's suggestion that these classes of verbs should be sub-classified according to those which take or do not take the vowel suffix - 0/A. The situation is that on phonological grounds alone, some members of these classes will obligatorily take the vowel suffix, while for othere its presence is optional. As we observed carlier on, for all verbs ending in the highest front and back vowels [i] and [u], a harmonising vowel suffix seems obligatory, for other vowels, it seems optional - a fact which suggests a re-examination of the vowel suffix along phonological rather than strictly syntactic lines.

In the rest of this acction, we shall set out the relevant prefix and suffixes, illustrating their use as we go along.

(i) The Open Youel Prefix, A-

The symbol, A_{\sim} stands for the harmonising vowel prefix the presence of which constitutes the diagnostic test for Green and Igwe Subject Verb Form 11. It is found in

- (i) all Regative verb forms in this dislect
- (ii) Perfect verb forms
- (iii) Narrative werb form, Non-initiating
- (iv) the verb form of Subject-Verb Inverted construction
- (v) it also stands for the Indefinite Pronoun Subject in the Igbo pronominal system.

In this dialect, therefore, the verb form representative of (n-d) above is of the following morphemic shape:

We thus agree with Dr Carrell's analysis of the same werb form, although Dr Igwe disagrees with both of us. For the time being, two examples of each type will suffice to illustrate the point here, since the rest of this chapter is devoted to a full illustration of various construction types and the type of verb forms they permit.

Negative Constructions:

- 35(a) Ogu éribèle hmé ka mgbu ütutü.

 Ogu has not eaten thing since time of morning:

 Ogu has not eaten enything since morning.
 - (b) Obi sjugharnii unu hee mereri Obi is asking not you thing which happeneds Obi is not esking you what happened.

Narrative - Mon-initiating

- Be reached and he told complete us sords:

 (And) we reached, he telked to all of us.
 (when)
 - (d) Ye aheu m, gbaes oso.

 And he se me, and started running.

<u>Verb - Subject Invertec Construction</u>: This subject verb inversion is possible only with the first and third person singular pronoun

35(e) Agarm m shym -

Went I market: I went to market.

(f) Ebidhele hi iga akwukwo
Started have they going School: They have started going to School.

Perfect Verb Form

- (g) Unu anuona sai m dhoro

 You have drunk wine I left: You have taken the wine which I left.
- (h) Anyi ageala ya otho i keuru

 We have told him manner you said:

 We have told him as you said.

Indefinite Pronoun Subject

- 36(a) A luru og'u n'ahya.

 Dne Cought fight in markets

 People fought in the market.
- (b) E goucers see n'og'u ohi

 One cut even metchets in fight that: .wople even metcheted
 themselves in that fight.

2.3.2 SUFFIXES - The Open Vowel Suffix -D/A

This suffix which is associated with affirmative verbs is to be found in the Perfect form of the werb as well as in the following construction types:

- (i) The Imperative
- (ii) The Norrative
- (iii) Conditional Clauses A (Open Conditions)
- (iv) The Perfect tense/aspect of the verb.

In order to illustrate what happens in the above construction types, the following representative verbs have been chosens

37 (a)	írī	(vb c	:1. 1)	to est
(b)	ńi	(2)	* bury
(c) ·	ítī (mkpu)	(3)	• shout
(d)	írē	(1)	• sell
(e)	ig'a (nthi)	(2)	• listen
. (r)	í=ō	٠(3)	• do
(g)	írī .	(1)	" crawl (of insects)
(h).	íci	(2)	= laugh
(i)	ími	(. 3) .	- dry over the fire
(1)	írē	(. 1)	· lesk, est
(k)	idha	€.	2)	• fell
(1)	igo	(3)	" go
(=)	iko (sl:uko)	. (1)	* nerrete
(n)	iko		2)	• plant
(°)	190 (ego)	(3)	* deny
(p)	irū		1)	= pein
		ì	2)	■ go out
(q)	1.e	,	3)	* hear
(1)	Inu			n oron
(•)	itō	(1)	_ grow
(t)	ito	(.	2) ~	estrice " " "

37(u)	115	(vb.	c1.3)	to smallow	· .
(v)	ígbū	(1)	. * FIII	4 V
(=)	ifu	(2)	• get lost	\
(x)	ikwū	(3)	" talk, say	

The following are illustrative examples of their use in the following construction types. $\begin{picture}(100,0) \put(0.00,0){\line(0,0){100}} \put(0.00,0){\line(0,0){100}$

(i) Imperatives

- 38(a) Rie ya Eat it!
 - (b) Lie ye Bury it
 - (c) Tie mkpu Shout out
 - (d) Ree monu kobo iri

Sell the oil kobo ten: Sell the oil ten kobos.

- (a) G'ès ni nthi n'okeu ya Listen you ear to word his: Listen to him, you people.
- (f) Bee hee e guara gi
- (g) Eju, ris n'als (a hypothetical situation)

Smail, crawl on the ground!

- (h) Cin (oci) mu eles.

 Laugh (laughter) let me see.
- (i) Rie szu n'okhu Dry the fish over the fire.
- (j) Rea _epe nile ...foro ni

 Est oranges all which remain:

 Est all the remaining oranges.
- (k) D(s)s⁴ n²als, bess akhes
 Fall on the ground start crying crys
 Fell on the ground and start crying.
- (1) Ga(a) nomingum, bikhō

 Co quickly, please

m) Koo akuko bhara uru. Marrete story which is useful: Marrete a useful etory.

(n) Koo ji tupu i koo ede

Plent yams before you plant coccyams: Plant the yame
before the coccyams.

- (o) Goo ago gbuo, su ekugbuo gl

 Deny denial now I beat will your If you deny
 now, I will beat you up.
- (p) Ya fuo a ufu ...
 It pain we pain: Let is pain me.
- (q) Fu(o) osiiso

 Go out immediately.
- (r) Nu hwo ekwughe hi.

 Hear thing are saying they: Hear what they are saying.
- (s) Too tha, too eci Grow today, grow tomorrow: Grow very rapidly.
- (t) Too ya maka hee oma ya nille

 Preise him for thing good of him all: Praise him for all
 his good works.
- (U) Loo yu.

Fy n'amas Go out to the road - but not after the n'alas Fall to the ground, but not after the ground, but not

So far only verbs of Tone Class 2 & 3 are known to behave in this way.

- 38(v) Ebúo yã Kill it
- (m) Lufuo ye . Throw it away
- (x) Keuo hee i coro Say thing you want: Say what you want.

(ii) The Narrative

The verbs in the Marrative form are underlined.

- (e)..Ya' erie hee n'anyasu And he eta something in the evening
- (b) Right e mechare, e <u>lie</u> ye when one finished, one buried hims They buried him afterwords.
- (c) Ndi ohi byare, anyi <u>etie</u> skpū Thieves came end se shouted.
- (d) Anyl gare shys, res eghi
- (e)..Ha abya g'ee nthi n'okeu ya.

 And they came and listaned ear to words his:

 .. And they came and listaned to what he had to say.
- (f) 0 bechare skhwa, bys see two s quare you

 He complete cried cry come did thing one told him

 He finished crying and then did what he was told.
- (g) Eju <u>erie,</u> esu <u>erie</u>
 ...Snails crawled about and millipedes crawled about, too.
- (h) D kwuru okwu, enyi <u>acia.</u>

 He talked and we laughed.
- (i)...Ye agoute ezu, mie ha n'okhu

 And he caught fish and dried them over the fire.
- (j) Imo ghoters spe <u>res</u> Imo plucked some oranges and ate.

⁴ We have used the circular brackets to denote that the open wowel suffix is optional in the relevant examples. If the imporative verb form is the simple (unsuffixed) verb stem, then its tone is determined by the following consideration - thus: if the following item begins on a low tone, then the tone of the simple imporative verb must be high, but low, if the following item begins on a high tone:

He was climbing and fails He fall while climbing.

- (1) 0 shiri ulb ofu os(s) shys

 He went through house of work sent market: He went to the warket from his work place.
- (m) O futers koo otho ha jiri men

 He came out and narrated manner they used end did:

 He came out and told us how they got on.
- (n) Anyl koro ji, koo ede, koo akpu.

 We planted yams and planted cocoyams and planted cassava:

 De planted yams, cocoyams, and cassava.
- (c) D mechare goo oken nile o kwuru.

 He finished and denied words all he said:

 He finally denied everything he had said.
- (p) 0 mere ye ogwu, ya afuo w ufu

 He did it medicine, it pained me pains

 He applied some medicine to it, and it pained me.
- (q) 0 geters he agbees <u>fu(o)</u>

 It ment through crack end sent out; It escaped through a crack (on the mell).
- (r) Anyi noro n'ezhi <u>nu</u> okeu ymme stayad in compound and heard word hiss me heard his from outside.
- (s). Num ya nepkho etoo dimkpa And son her male gree a mens And her son gree to become a men.
- (t) No jiri ukwe ne ekpere too Chineke.

 They used songs and prayers preised Gods

 They praised God with songs and prayers.
- (u) 0 mahli see 100 ys

 He did not know and amallowed it: He unknowingly swallowed it.

- 39(v) 0 heuru eg'u, <u>obuo</u> yê He see e lion and killed it.
- (w) Anyi colekare ye fuo n'ime chys

 We searched for him and lost in the forest: We kept

 on searching for him until we got lost in the forest.
- (x) A manyers ys, ys ekwoo has di ya n'obi

 One forced him and he said thing which is to him in mind:

 He was forced to say what was in his mind.

(iii) Conditional Clause A - Open Condition

In view of the fact that the ability of any verb in Igbo to take the open vowel suffix in question does not depend on its tone class, but on the quality of its final voucl, we shall restrict our examples here and in the following sub-section to just one verb representing its tone class. We shall give more than one example of each class of worbs only in cases where such examples present a contrasting behaviour. By so doing, we hope to cut down on the number of examples rather drastically, without detracting from the point being illustrated here.

- 40(a) ùi <u>rie</u> anu, mu <u>erie</u> azu ± If you eat = most, 1 shall est fish.
- (b) Gi ree eghd m, aga m agbara gi akaukum
 If you sell goat my shall I summon you paper:
 If you sell my goat, I shall take you to court.
- (c) Ukpara shi <u>ria</u> ya n'ahu, ye etete

 If grasshopper that crawls it on body, it wakes.

 If that grasshopper crawls on to its thdy, it will sake.
- (d) Ys ran shī, è meshiw yā ikhw.
 If he ests mess, one treats him hard(idiometic);
 If he should become unruly/rude, he will be severely dealt with.

(f) Ye oa(a) nkhu, enyi aoa(a) eiri.

If he goes for firewood, we shall go for water.

(g) Unu <u>kóo</u> hwo unu bysre, anyi agwa unu If you narrate thing you came for, we tell you hwe anyi cers.

thing we think: If you tell us the object of your mission.

we shall tell you what we think (about it).

(h) Greu ohi fuo ya ufu, ya abewe.

If medicine that pains him pain, he start cryings

If that medicine should cause him some pain, he will start crying.

(i) Ya ru(o), anyi alama: If he goes out, we start going.

(j) Ya' nu okwu anyi, obi ga ajo ya njos

If he hears words our, heart will be bad to him bads

If he hears our utterances, he will feel offended.

(k) Ye too, ya smis skpuru

If it grows, it will bear fruits.

(1) Gi <u>qbuo</u> madhu, e <u>qbuo</u> gi

If you kill person, one kills you: If you commit
aurder, you will be killed.

(iv) The Perfect Tense/Aspect

41(s) Amendikwa <u>eriele</u> (idiomstic)

Amendikwa has esten: Amendikwa is lucky.

(b) 0' reple moto ya'

(c) Eju arials las. (idiometic)

Shail has crawled and gones Something good has escaped us.

41(d) Armole a epe nile foroni have exten I orange all which remains

I have exten all the remaining granges.

(e) Here and (aona la)
(ao

(f) 0 gala shya
He has gone to market.

(g) 0 qaala ahya He has been to market (and back).

(h) 0 kools hwe wereni

He has narrated thing that happened: He has narrated what happened.

(i) Onya shi <u>efuole</u> ya ufu nke ukeu

Wound that has pained him pain very such:

That wound has given him a lot of pain.

(j) 0 <u>fù le'</u> He has gone out <u>fùola</u>

(k) 1 - nu-na hee sere-n17

Have you heard what happened?

(1) I nuona hee eeronI

Have you ever heard that happened?

(a) Nea ya <u>Stoola</u>
Child her has grown: Her child has grown.

(n) Ibe equals eghu so the: Ibe has killed the gost.

Throughout these examples, the same set of verbs given in 37 have been used. These verbs are representative of all the tonal classes given at the beginning of this section; furthermore, they represent all the vowels that possibly may end the citation forms of Igbo verbs, ranging from the highest from vowel to the highest back one. The examples based on these

The essence of the data presented in 37-41 is to show the consistency of Igbo verbs in taking the open vowel suffix either obligatorily or optimisally in the relevant construction types given here. From the above data, the following facts emerge:

- imperative form it does so consistently in all the construction types listed here; if the vowel suffix is optional in its -- imperative, it remains so in all the relevant construction types.
- (ii) all verbs whose citation form ends in the high vowels i , a u and o obligatorily take the vowel suffix, while some of those ending in the relatively less high vowels i , a , u and o do so optionally.
- (iii) in some cases where the vowel suffix is optional, its presence in one werb form, as opposed to its absence in the other, may introduce an extra dimension of meaning as in 41(f) and (g).
- (iv) in other cases, it is possible for a varb which does not take
 this vowel suffix in all the relevant constructions to do so in
 the perfect form in order to signal a meaning difference. Such
 is the case with inu (37 (r) in examples 41(k) and (1). This
 phonomenon seems restricted to questions.
- (v) it is also necessary to point out the existence in 1gbo of other instruces of meaning distinguishing (or semantic) vowel suffix, as in the following examples:
- 42(m) 0 tunm. He has heard (vb inu hear)
- (b) 0 nuone It has warmed up (vb inu to warm over the fire)
- (c) Biri anuone The unter has become warm.

in cases such as 42(a) & (b), the vowel suffix only serves to distinguish the two homonyms -

inu to hear

inu to warm (liquid) over the fire.

The full details of the situation are yet to emerge from a research into the inflectional monphology of Igbo werbs.

However, in the face of the phonological and semantic facts presented here, it seems premature to suggest that the open wowel suffix is an optional element in verb inflection. Far from that, its occurrence with any particular werb seems predictable on purely phonological grounds in the first instance. It is after one has predicted those verbs which take the wowel suffix obligatorily, that one can venture to the next statement about those werbs for which this wowel suffix is optional. At this stage, we may have to separate the semantic wowel suffix from the optional but inflectional one in order to arrive at any meaningful general statement about them.

That we have sketched here does not amount to such a full scale research, but only shows the regularity of the occurrence or non-occurrence of this vowel suffix in this dialect. Our findings here may be subject to qualification based on new evidence, but they have a fair chance of being besically true. Since worb inflectional monphology is not strictly relevant here, we shall pursue the investigation no further. What we have done here amounts to providing some possible approaches to such an investigation.

2.3.3. Other Affirmative Suffixee

(i) The Simple Present with zero suffix

The scribese constituent of verbs in this tenss/aspect is simply the cv stem. But only a small class of stative verbs are involved here, here such verb forms are capable of being interpreted as either the present progressive or simply the existential present. Such verbs include:

(b) ikhwo - to have regard for, intend

(c) iku - to carry (a child)

(d) ikeo - to carry a child (on the back)

(e) iji - to hold, have

(r) ivu - to carry (vo cl.3)

(g) idi - to be

43(a)

ino

(h) iwu - to be

In the simple unsuffixed present, all these verbs, except iwu behave like class 2 or low tone verbs, as the following examples show:

44(a) Dikhe no n'ulo

ye.

Dikha is fin the house at home

(b) Eithe vu igu

(b) Eithe is carrying palm fronds

(c) Asska ku resa ya

Amake is carrying her baby.

(d) Ngozi kwo nwa n'ažu Ngozi is carrying a beby on her back.

(e) Ug'o ji egbe
Ug'o is carrying/has a gun.

Okoro u Okoro (1).

In the foregoing sentences, all noun subjects, regardless of their vione classes, maintain their inherent tone pattern. This fact reflects one of the differences between our dislect and that described by Green and Igua where all tone classes 1 and 2 nouns would be expected to take on an extra low tone thus:

44(g) Dikhe' no n'ulo: Dikhe is in

(h) Ekhe vu igu: Ekhe is carrying some palm fronds.

(ii) The Present Progressive Suffix -ghA

In this dialect, the verb with -ghA suffix is very commonly used to express an en-going action in place of the alternative construction with the auxiliary verb ka. The suffix is harmonising and assimilates to the tone of its verb stem. As in the case of the simple present with stative verbs, all noun subjects rotain their inherent tone pattern. We, therefore, give the following paradigm with pronoun rather than noun subjects.

45(a) E rīgho m anu: I am esting some mest

(b) I rīgha azy You (sing.) are esting some fish

(c) O'righe alu He/she is eating some fish

(d) Erighs ji ohuo thas: One is eating fresh yam today:

People are seting fresh yes today.

(a) Anyi righe ji ohuo thaa: We are eating fresh yam today

(f) Unu righe ji ohuō thae: You * * • •

Verbs of tone classes 2 & 3 behave tonelly identically here, their stem is on low tone, and so is that of the following -ghA suffix. The following 46 illustrate this fact:

46(a) Drute keghe imp ndom skwa n'otu n'otu (vb. cl.2)

Drute is sharing to womenfolk cloth one by one

Drute is giving out a piece of wrapper to each of the women.

46(b) Mgbaji gaghaksa ahya du tha (vb. cl.3) Mgbaji is attending still market reach todays Mgbaji is atill trading up till today.

(iii) The Progressive Present with

Because of the existence in this dislect of the present progressive suffix -ghA, the alternative form of expressing an on-going action by means of the auxiliary ma is much less used. When used in this dislect the Na auxiliary verb is more and more restricted to one of its two functions - that of expressing the habitual action. Thus 47 have the habitual rather than the progressive present meanings

(b) One evu akua

He does carry cloths: He is a dealer in cloths.

He does steal: He is a thief.

He does defile the ground: Hu is a wicked men.

As 47 (c) & (d) show, when no is used to express a habitual meaning, it is in free variation with another auxiliary iii. However, for those dislects of Igbo which do not have any other way of expressing a progressive present meaning than by the use of no, the situation described above does not obtain.

(iv) The Future with one

He will come - tomorrow.

foul this will come out slive if one looks well eye

This foul will survive, if care is taken.

Observe that the verb form after on admits of various prefixes, we shall discuss these profixes in detail in 2.3.5.

(v) The Past/Time Suffix -rV

In this verb form, as in the -ghA prosent progressive, verbs of classes 2 & 3 behave identically in having their stem on a low tone. As we pointed out in 2.1.1., the-rV suffix assimilates to the vowel and tone of the immediately preceding element, be it the verb stem or another suffix. As in the simple present, all noun subjects with the past tense of the verb rotain their inherent tonus, a situation which contrasts with Ohuhu where nouns ending on a high tone (classes 3 & 4) generally develop a final low tone. This low tone along with the time suffix -rV is taken to constitute the marker of this tense form for that dialect. But in our dislect, the time suffix alone is the past time indicator. We give a few illustrative examples:

Apart from the falling glide on the noun subjects in 49(s) and (c) above, there is also the additional fact that the -rV verb form in Ohuhu is always on low tones regardless of the class of werb involved. This fact accounts for the contrasting tone patterns of the same werb in 49(c) and (d).

In the following examples, each member of the three classes of words has been used:

- 50(a) É rīri ya imu (vb. cl.1)
 One fined him fine: He was fined.
 - (b) Imo dhara elu ugba (vb. cl.2)

]mo fell top of oil bean tree: Imo fell from an
 pil bean tree.
- (c) D' mere here ale so nso (vb. cl.3)

 He did thing earth abhors: He committed an abomination.

(vi) The Progressive Past with No

The popular way of expressing a past progressive action is by the use of the past form of the auxiliary verb, ma followed by the appropriets form of the verb, as in 51.

Ogu used to saw iroko tree: Ogu used to be a sawyer.

- (b) Onyckwere nars agoafu mybe

 Onyckwere used to wrostle ably wrestle: Onyckwore used to
- (c) Og'e i nere ekwi ezhi-okwu sgaala

 Time you used to telk true word has gones

 Come are the days when you used to speak the truth.

Theoretically, there exists an alternative method of expressing the progressive past - by means of the present progressive suffix -ghA and the -rV time suffix as in 51 (d).

51(d) ? 0 reghere exer He was excepting the road.

But in practice, 51(d) is very rarely, if ever, heard. For this reason, we have not bothered to give any examples based on this form. What happens is that the present progressive -ghA verb form and the peat progressive No auxiliary form are in complementary distributions the verb *-ghA suffix is the popular choice for expressing present continuous action in preference to the no verb form, whoreas in the past the No form with -gV time suffix has displaced the -ghA* gV verb form. Thus, the lack of popularity of the No form in the present progressive is compensated by its popularity in expressing the past progressive action.

(vii) The Perfect Suffix -12 -- nA

In this dialect, the perfect form of the verb with the high tone suffix -1A (chich is realised as -na if the preceding sound is a mesal or nasalised) is the only aritimative word form with the open wowel prefix A-3 this profix has been discussed in 2.3.1, and its analysis as the Acrist tense worker by Rev. Igue (1974) will be re-examined in 2.3.5. In the perfect form, words of tone classes 1 & 3 behave identically, that is, the traditional high - low words behave as high-tone words in this form. The following examples reflect this two-way distinctions.

- 52(a) The ericle als (idiomatic) (vb. cl.1)

 1be has eaten ground: The is lucky/fortunate.
 - (b) (boci than amasna mm (vb cl.1)

 Day of today has become besutiful: Today is a besutiful day.
- (c) Ugu abyala fan (vb. cl.3)
 Ugu has come gerly
- (d) The elole n'og'e (vb. cl.3)
 - Ibe has come back in time.
- (e) Ng's ng's egbuole gi (vb. cl.l)

 Pride has killed your You are vary proud.

52(f) New shi schole (vb. cl.2)

Child that has fallen: That child has fallen

(g) Mgozi skanis otho ohi (vb. cl. 2)

Mgozi has said manner thats Ngozi has said so.

Observe that the tone of the vowel prefix varies from high to low in the above examples; two factors are responsible for this: the finel tone of the preceding noun subject, or item and the tone class of the verb: If the preceding item ends on a low tone and the verb stem is on a high tone (classes 1 & 3 verbs), then the vowel prefix is on a low tone. It is on a downstep, if the preceding item ends on a high tone. But with a low tone (class 2) verbs, the same prefix is consistently on a high tone regardless of the final tone of the preceding item. A few more examples will make the observation clearer:

53(a) Ekhe Emecne (vb. c1.3)

Ekhe has done(well): Thanks to Ekhe

- (b) Aboki aluola nemnyi edo (vb. cl.1)

 Aboki has married wife anothers

 Aboki has married another wife.
- (c) Njoku hi⁶ afutachaala (vb. cl.2) Njoku and company have
- (d) Are ye ofuble shym all come out.

 Sadness his has come out to market: His madness is beyond curs.
 - Badness his has come out to market: His madness is beyond

 Umu-madhu ékheorole unu fushia (vb. ikheo cl.2)

Children of human beings have regarded you (and) come outs

People have come out because of you.

As 53 (a) & (b) show, the wowel prefix is on a downstep before a preceding high tone if the worb stem is high, but always on a high tone if the worb stem is low, as in 53(c)-(a).

2.3.4 The Negative Suffixes

As was pointed out in 2.3.1, all varbs in the negative in this dialect take an obligatory harmonising wowel prefix followed by the varb stem and the appropriate suffix. These suffixes include:

(i) The Neo. Imporative Suffix -1A = nA 54(a) Érile Don't est (vb. cl.1) (b) Afula " go out (" " 2) (c) E= recomme " do, stop it. (" " 3) (d) Éjherie " go (" " 3)

Note that in the absence of any following lexical item, all classes of verbs in the above examples have their stem on a low tone, and the $\sim 1A \sim nA$ suffix is also on a low tone. Contrast this situation with what happens in the following examples 54(a)-(i).

- 54(a) Unu éjhēle shya the (vb ijhē cl.3)
 You people, go not sarket today:
 You people, do not go to sarket today.
- (f) Ha ekwûle okwu (vb ikwû cl.3)
 Let them not talk.
- (g) Unu emens atho ohi (vb ima cl.3)

 You people, do not manner that: You people, don't do like that.
- (h) Unu erile iri n'ututu (wb irl cl.)
 You people, do not est in the morning.
- (i) Unu exels exhi gbuo (by ime cl.2)
 You people, do not sucep the compound now.

At these examples show, the vowel prefix here is consistently on a high tone with all classes of verbs, and the -lA suffix essimilates to the tone of its stem. In this construction type, classes I and 3 werbs behave identically in having their stem on a downstep.

⁶ hi/ha is a pluralizing morpheme. For more details, see G.E. Igne (1974) Chapter 11, especially pp. 183-189.

^{7.} It is the belief among my people that a mad person has a good chance of recovery provided he has not made any public appearance, such as in a market in full session. If his madness drives him to public gatherings and market place, then his chances of recovery are thereby jecturalism, and from this time his relations start to give up any attempt to get him medical attention. For them, the modness has exceeded bounds, it is beyond cure.

(ii) The Neg. Present & Past Suffix, -qhI/-hII

This suffix is used as the direct Negative equivalent of the -FV.

time suffix, thus:

Affirmative

Negative

Nacat tue

WLLTLW	BC1VB	woders.			
55(e)	Ó rīri hom	0 rihii hae (vo cl. 1)			
	He ate something	He did not eat anything.			
(b)	D gare shya	0 ga hļi ahya. (cl.3)			
	He went to market	He did not go to market.			
(c)	O zara ama	O zehii ama (vb cl.2)			
	He swept the road	He did not sweep the road.			

Observe that this suffix does not co-occur with the -rV time suffix, but is used in place of it. Contrast this with what happens in the following 56-57 where the negative suffix is used along with the present progressive suffix -chA, and with the auxiliaries no and go:

56(a)	<u>Affirmative</u>	Negetive
	Ogu zagha egbe	Ogu azaghahii mgbe
	Ogu is sweeping the pariour	Dou is not seemping
The State of the S	· -	the parlour
	The righe has	Ibe erichehii hee
	Ibe is esting .	lbe is not esting.
(c)	Ekhe gagha shya	Eldne agaghahii ahya
	Ekhe is going to market:	Eiche is not going to
		mericst:
•	Ekhe is doing some trading	Ekhe is not doing any
		trading.
57(a)	0 na anu mai	D กะก็มี ลักบ์ 🖦 i
	He does drink (wine)	He does not drink (wine)
(b)	O nears shu mei	D mahliri shu mai
	He wand to drink (wine)	He never used to drink (wire

57(c) D gears abyes D gamiliri ibya(ni)
He wou'd have come He would not have come

From these examples, it is observable that in general the negative suffix -ghI/-hII does not co-occur with the -rV time suffix, except with the suxiliary verbs into and iga are involved, as in 57(a)-c). But the same negative suffix freely co-occurs with such suffixes as the progressive -ghA, as 56(a-c) show.

Observe, elso, that with classes 1 and 3 verbs, the negative suffix is on a downstep, but on a low tona with class 2 verbs, although all verbs in the negative may have their stem on a high tone, as 56(a-c) show.

Werbs of tone class 2 may, however, have their stem on a low tone.

tike the negative imperative suffix, -1A, the negative suffix -hII is on a low tone in sentence-final position, but assimilates to its verb stem, if there is a following item, thus:

59(a) Ogu erihii iri: Ogu did not sat food. (vb. cl.1)

(b) Ogu sbyahii the " did not come today. (vb. cl.3)

(c) Agbakwuru akahii kwa O hebru (vb. cl.2) Agbakwuru did not say what he saw.

As in the negative imperative, the open vowel prefix A- is consistently on a high tone regardless of the preceding tone, or the class of werb involved.

(iii) The Periphrastic Negative Construction

The fact that there is only one negative suffice —hil/-ghl, for both the present and past tensor becomes understandable when one realises that, for these two tensor, there is a more popularly used negative construction - the pariphrestic negative. This negative construction begins in this characteristic way:

He did not go to market.

(b) 0 methii onye m hwuru

It has not person I sau: There is nobody I sau:
I sau nobody/l did not see enybody.

From these two examples, it will be observed that what is negated is the first werb, in this case

aihii and

nséhī i

and that the second verb bears the tense/aspect marker. Thus it is . - possible to vary the tense/time expressed in the second clause, leaving the first werb unaltered, thus:

There is not talking (which) I am talking: I am not talking.

shall talk: I shall not talk.

61(a)	٥,	nec'hii	eghu	bhara	n ⁴ obha	No gost	entered	the	bezn.	
(b)				na ábha	•		entere			

(c) gs ibhs uill enter the bern.

This negative construction is so popular that it is very often heard in the daily conversations of speakers of this dislect.

(iv) The Wegative Perfect Suffix, -bôle

This is the only suffix in our dislect that maintains its inherent low tones and wowels quality in all contexts;

- 62(a) Eg' onu sheubele hee (vb. iheu cl.3)

 Eg' onu has not seen thing: (idiomatic)

 Eg' onu has never suffered.
 - (b) Okpankhu emahèbele onu ya thab (vb ime cl.3)

 Okpankhu has never opened mouth his today.

 Okpankhu has never uttered a cord today.
- (c) Ogbede aza bèle hwe ke mgbu than (vb. izn cl.2)

 Ogbede has never swapt thing since today.

 For the whole of today, Ogbede has never done any sweeping.
- (d) N no dim sciribele oke ye (vb. ici cl.1)

 has not picked share his

 Noodim has not picked his own share.

As these examples reveal, all verbs have their stem on a downstep in the perfect form, and the vowel prefix is expectedly on a high tons.

It has to be emphasised that -beie is considered here as a single morpheme on low tones. There is, however, another morpheme -beie also associated with the Perfect Aspect in Igbo. This -bele occurs only in Interrogative clauses where it introduces the meaning 'ever' as the following sentences illustrate:

63(a) l heubale ya mby?

You see ever have him before? Have you ever seen him before?

(b) I hrubèle t è r è ni ukwu nga o shi uzò igwe agé?

You see ever have train big as it goes through road of iron?

Have you ever seen the big train as it travels along (ite) rail tracks:

Now contrast (a) and (b) above with (c) where a different shade of meaning is implied:

Have you not

men a lappard bafore

nevel

The meaning difference between 48(e) and (b) on the one hand, and senterces like 48(c) on the other, is achieved by the contrastive tones of the first two items:

1 hwubele? Have you not seen?

2.3.5 The Open Vowel Prefix - a re-examination

For the Na suxilizry verb and a handful of other verbs in Igbo which can be used in an auxiliary capacity, the A- prefix is an obligatory element of the following verb form.

- 64(a) O (ji) ezú ohī: Ha steals/ho is a thief.
 - (b) 1 gs agws m hwe I maghe n'ulo
 You will tell me thing you are doing at home.
 You must tell me what you are doing at home.
 - (c) Iro skezhi ji igwe evughe nkwu used bicycle cerrying palm fruite.

Iroakazhi is carrying the palm fruits on bicycles.

Before we go on to give a brief paradigm of construction types in this dielect, and the parmissible tone patterns in these construction types, we would like to comment briefly ~1 Dr. Igwe's analysis of the vowel prefix A-

The analysis of the vowel profix A- in his Ph.D. thesis represents a very radical depature from his 1963 analysis with Miss M. M. Green in a Descriptive Grammar of Içbo. For one thing, he has now come to agree with our view that the vowel prefix A- is an obligatory element in all Negative clauses in Igbo, a fact which makes the distinction into Subject Verb forms I and II untenable in Negative clauses in the language. For another, the re-analysis of this profix as the Aerist prefix sounds for-fatched. The Aerist tense, according to Dr. Igwe, "represents what might be summarily called "punctilier" or "punctual" kind of action. It

represents the action denoted by the verb as a 'point-Consequently, the
form may represent INCRESSIVE, EFFECTIVE or SUMMARY action: INCRESSIVE,
if attention is focused on the fact of the action beginning, without any
regard to its continuance; EFFECTIVE, if attention is given to the fact
of the completion of the action, and summary, if the action is viewed
as simply having occurred, without distinguishing any points in its
progress." (p.91). Then Dr. Igwa goes on to argue that it is because of
these three possibilities in the meaning of this prefix that in translating
the Korist Tense into English, for instance, the same verb can be rendered
by either 'begin to + verb', 'have/has + past participle of 'verb'

(the perfective expression), or simply by 'verb + Past') (the past tense
verb). He then supports the foregoing analysis with the following exampless

DECLATIVE II

- (a) Ojhi begins to talk
- (b) " has begun " "
- (c) * hes spoken
- (d) spoke.
- (7) 0jhi --/ shrii / -yā
 - (a) Ojhi has seen his
 - (b) " saw him.

If sentences (6) and (7) were capable of all the given inglish renderings, then, there would be no need for the corresponding suffixes which express the various times / aspects represented in (a)-(d) for (6) and (a)-(b) for (7). For us, and I believe, for many dislects of Igbo, there are FOUR formally distinct representations of 6(a)-(d) thus:

- 65(a) Ojhi ekwuwe okwū (-UA'Inchostive suffix.)
- (b) Ojhi ekumele okuu (-8A + -1A Perf.

 Ojhi hes begun to speak.

65(c) Ojhi ekwole okwū (-0+-1A Perf.

Ojhi has spoken

(d) ... Ojhi ekwo okwū (-0 suffix)

And Ojhi spoke

Without these suffixes being overtly present in structure, it is not possible to express the above meanings in our dialect. This fact is responsible for some of Dr. Igwe's examples sounding un-Igbo in our ears. We have maintained that those Prefix and Suffixes described in 2.3.1 2.3.4 are inflectional and obligatory in our dialect, though they may be optional in Dr. Igwe's In view of this important difference, the proposed analysis of Dr Igwe's is in-compatible with observed primary linguistic data from this dialect, and is consequently rejected on-this ground.

The danger in the analysis of Igbo is to pin a label on formatives and lexical items and then go on to justify this tag. This approach has characterised the Green and Igwa approach in 1963, and now Dr Igwa's attitude in 1973. The vowel prefix called Acrist by him is not incompatible with other Time/Aspect surfixes in the Language; on the contrary, the Prefix and such suffixes must be present, at least in our disject, in order for the appropriate time to be expressed. This is what is shown in 65(a)-(d) above as well as in the following 66:

66(a) Ya kwushie ikhe, anyi acuo ya if he talka hard, we sack him.

- (b) M kpole gI, gi azakwani

 If I have called you, you do answer.

 If I call you, do respond.
- (c) 0 kroro m. mu sze ym.

 He called me (and) I enswered him.

 He called me, and I responded.

In: these and similar examples, it would be bagging the question to select the vowel prefix as the time/aspect meaning - expressing morpheme in

utter disregard of other relevant suffixes. We therefore suggest that it appears more appropriate to consider, for purposes of enelysis, the woman prefix A- along with any time/aspect suffix with which it may occur, and thus assign the resultant meaning, not to one item, but to the two transcrept of them combined.

It is also for this same reason that we think that no useful purpose is served by an analysis which seaks to break down the items enclosed in slanting brackets.

We believe in treating these items as a unit - a complex werb form in which there is a choice of prefix between A- and I- before the form enclosed in curly brackets, if, and only if the first element is qualitational and 'iqua' are suxiliaries of some sort, the first being used to express the future tense, and the second the Progressive/Habitual Aspect, the two verbs have different syntactic characteristics in the dialect under consideration.

But whereas 67(b) can be transformed into 67(b(i), 67(c)) has no corresponding transforms

We believe that Dr. Igwe's analysis of the wowel prefix Aus the Acrist prefix stems from his assumption that "no suffix of the language has to occur obligatorily in any construction type"

2.4.0 Construction Types

In this final section of the chapter, selected paradigms or examples are given to show the tone patterns required by certain clause types.imports language. This is done to make subsequent references to them easy.

In some cases, the examples have been selected to reflect the differences rather than the similarities between the dislect being described here and that described by Green and Igue (1963). Thus, we have not bothered to give examples of verb forms in the narrative division of the verb, since there are no dislect differences in this construction type. For the same reason, interrogative sentences have not been illustrated here.

The classification of verbs is as given in 2.3.1. It will be observed that members of class 3 verbs will behave tonally as either class 1 Or 2 according to the construction type being considered. We start with the Affirmative division of the verb and then go on to the Negative division. Since we have given numerous examples of simple sentence constructions in the praceding sections, we restrict our examination here to three complex sentence constructions including

- (i) Conditional Constructions
- (ii) Relative
- (iii) Purpose

2.4.1. The Affirmative Division - Subordinate

As in the affirmative clauses, main, the morpheme constituent of verbe in subordinate clauses is cv stem + suffix. Only very few examples have been given feach subordinate clause, beginning with the conditional clauses.

- (i) Conditional Claure A.
- 68(a) Ogu ga(a) ahyā, è rie yā iwu.

 If Dgu goes to market, one will fine him fine:

 If Dou goes to market, he will be fined.
 - (b) Ejikhe res ubhe, afo erawa ya shu
 If Ejikhe eats pears, belly pain start to his bodys
 If Ejikhe eats pears, he develops stomach ache.
- (c) thu kee als shi, yo show uks.

 If you share land that, it will cause troubles.

 If you share out that piece of land, trouble will sneue:

But Conditional Clause A can only express the open condition in which a future time meaning is implied in both the entecedent and consequent clauses. It is not equipped to express the improbable or unfulfilled conditional meaning, as in the following English examples:

If he were rich, he would donate generously.

If he had listened to warnings, nothing would have happened to him. The fact that there are two types of conditional constructions, (Conditional clauses A & B) parallel with Relative Clauses A & B has not been pointed out before, and this has given rise to the wrong impression that Igbo has no construction equivalent to the above English examples. It is to handle such things as the improbable and unfulfilled conditional meanings that conditional clause B examples are given below.

From the following examples of conditional clause B, it will become obvious that conditional clauses in Ighr are instances of Noun Phrase sentential complements, although they differ from other No NP complements in the following respect: Generally, No NP complements express a proposition which makes some claim about its truth value, but in the case of these conditional No complements, such a claim has been cancelled by the very nature of the construction. Conditional clauses in No NP complementation are explored further in chapter 5.

(11) Conditional Clause B

- 69(e) Ya' wuru ma Ogu mere hee'e, o jogburu onee ya If it be that Ogu did thing this it be bad kill self its: If Ogu did such a thing, it is very bad.
- (b) Ya' wuru ma I gwala ya, o ga abya: you have told him, he will come.
- (c) Ya muru mà ikpe mare gi, kwum îwu

 If case cought you, pay fines

 Tr you have been found guilty, you pay the fine.

- 69(d) Ye wuru ma okhe-okpa obeale, ci avoole

 If cock has crosed, day has deemeds

 If the cock has crosed, then It is daybreak.
- 70(e) A si ne Dgu aneuona, anyi ga(a)re see If one seid that Dgu has died, we would know If Dgu had died, we would have known.
- (b) A si ne i kwuru ezhi-okwu, o gara idi mma.

 If you told truth, it would be goods

 If you had told the truth, it would have been fine.
- (c) Asi ne unsu afula, madhu gare ensushi

 If famine has come out people would have died.

 If this wore the season of famine, people would die.
- (d) A si na o duru ishi mkpu, muo gara egbu ya

 If ha suore false oath, spirit would kill him.

If he had taken a false oath, the gods would have killed him.

from these examples, it will be observed that efter the expressions

Ya mu ru ma and

A si ma

the following clause has a full range of tenses from the simple past to the perfect. All types of tense/espect of the verb are possible with Conditional B, but not with A. This is the great limitation on Condition A clauses. In 5.2.0, it is shown that Condition A clauses are instances of Condition B types with the first part deleted. For our present purpose, it is amough to show that there is more than one type of conditional constructions in Lobo.

2.4.2 Relative Clauses A & B

(i) Reletive A

In this subordinate clause, all verbs (classes 1-3) have their stem on a downstep in relation to the preceding noun/pronoun which invariably ends on:a high tones: that is the Woun/Pronoun Subject of the Relative Clause.

- 71(a) Now nears in akpools ensure.

 Those who have nose have snuffed tobecco.

 This is an idiomatic expression which means that "those who are sware of their talents make capital of them."
- (b) Onys neers madhu neers akhu

 Person sho has people has sealth.

 He sho has human resources/connections has wealth.

It is in Relative clauses that another difference manifests itself between this dialect and that of Green and Igner. In our dialect, Noune of Tone classes 364 have rising glides; other nouns rotain their lexical/innerent tone patterns

- 71(c) Ele nuru wiri wu nke he gbagburu.

 Deer which drank water is the one thay shot.

 The deer which drank water is what they shot.
- (d) Adha di ivù mu unye s heuru.

 Adha who is fat is person i sev.

 It is the fat Adha that I sew.
- (f) Nkata Turu ofil mu onys e jidhere.

 Nkata who stole is the person one caught.

 Nkata who stole is the one they caught.
- (g) Onys zara and emene.

 Who swept road has done. (vb. iza cl:II)

 Whoever swept the road has done well.
- .(h) Ndi nile di n'otù nwere onu.

 Those all who are one have mouth.

 All those who are united have bargaining power, or a say.

(ii) Relative 8

In this clause type, words of Class 3 fall into the same group as those Class 2, they have their stem on a low tone, while Class 1 verbs behave as in Relative A, that is, in having their stem on a downstep.

Apart from this difference, Noun subjects of Tone Class 34 have a final rising glide as in Relative A;

PARADICE with Noun Subjects and Class 2 verbs

- 72(a) Ji Ekwa koro di ahwa.

 The yems Ekwa planted are many.
- (b) Ji <u>Ulo koro</u> di shwe. (iko c1.2)

 The years Ulo planted are meny.
- (c) 2. Uo'o koro di shes
- (d) Ahya anyi gara di uthi (ig'a cl.3)

 The market we went to is far.

Paradigm with Class 1 verbs; and pronoun Subjects:

- 73(a) Ji <u>m ririle</u> di shwa
 The yam I have enten is much.
 - (b) Oke <u>I objecte</u> di afies.

The rets you have killed arm many.

- (c) Azu / O oburule chile

 Fishes he has cought have become many.

 The fishes he has caught are many.
- (d) AZu <u>E oburule</u> di shwa

 The fishes one has caught ere many.

 The fishes which have been caught are many.
- (e) time anyi gourule di Shwei
- (f) Mgbadhe funu gourule di 186

The entelopes you have caught are five.

73(g) Ag's he rīrile di assa.

The ag's yaws they have esten are seven in number.

2.4.3. Finel/Purpose Clause.

The final/Purpose clause is treated extensively under KP complementation in chapter 9, it is introduced by the conjunction ka or ma. This clause type was treated by Green and Igwa as Subject Varb form II, Subordinate Conditional, an analysis with which we totally disagram.

In this clause type, verb classes 1 and 3 fall into one group in that they have their stem on a high tone, while those of Class 2 have their stem on a low tone.

To have not considered it necessary to give whole paradigms, but a few illustrative examples:

- 74(a) Ma ngwajngwa ma anyi gawakwani Kurry up so that we may set but.
 - (b) Ras ogsu ka efo di gi mas

 Take medicine so that stomach may be to you good.

Take your medicine in order that your stomach may get better.

- (c) Kpothes ya ma o zas ulo.

 Wake up him so that he may sweep house.

 Wake him up so that he may do the sweeping of the house.
- (d) Noe icro shys fas me ys shiers any how (My) mother returned market sarly so that she cook for us things By mother returned in time from market in order to cook for us.

2.4.4 The Negative Division - Subordinate

As with the Regative of main clauses, the morpheme constituent of werbs in Regative subordinate clauses is

Prefix + worb stem + suffix

A + cv-stem + suffix

The tonal behaviour of verbs le as given in 2.3.4.

(i) Conditional Clause A

In conditional clauses, negative, all tenses and time are expressible in all negative conditional clauses. In the following examples with noun subjects, the antecedent (conditional) clauses come first:

- 75(a) (Ra) Okoro erihii ji, letuo ya anya.

 If Okoro eat not yam, look amay him eye: If Okoro

 does not eat the yam, do not mind him.
- (b) (Ke) Ekhe erīhi azu , ya erie anu .

 If Ekhe does not eat fish let him eat meat.

In the following examples, the consequent (clauses) come before the antecedent (ones).

- 76(a) 0 ga afu uka ea 0gu ékētāto oru ohi

 It will cause trouble if 0gu has not shared land that.

 There will be trouble, if 0gu has not shared out that piece of farm land.
- (b) Aganii w ibyo odo wa "Ug"o ekabele nkw.

 will come not I again if Ug"o has not shared

 out the palm trees: I will not come again unless Ugo shares out

 the (oil) palm trees.
- (c) Nwo-opers gs coghs oken es o kenii als.

 The first son will be looking for trouble if he shares not lands

 The first son will be asking for trouble, if he does not share out

 the land.

With Pronoun Subjects, Antecedent clause coming first

77(a) Đứ (elùhii) yế tháo, éci ya Gryplahu 🛎

If I do not defeat him today, tomorrow he challenge egain man if I do not defeat him today, tomorrow he will challenge me again.

- 77(b) Cí ebe hii akhes, kho m snu-chym.

 If you do not cry, call me a fool,
 - (c) Ye eheuhii n'anya, p gahii ikwani

 If he does not see with his ayes he will not believa.
 - (d) Anyi sgawahii n'og'e, anyi emés laethi
 If we do not set out in time, we shell be late.
 - (e) Unu adunii m n'azu, unu agbéfuole.
 Unless you follow me behind, you will get lost.
- (f) Ha' skpachahii snya, okwu ohi sjoo njo

 If they open clearly not sye matter that be bod;

 Unless they take due precautions, the matter will get out of control.

Conditional Clause 8

78(a) A ai na a gaahii ya, o gahiiri ibyani
If one said that one told not him, he would not come:

If he were not told, he would not come

had not been told, he would not have come

- (b) A si na miri edobèle, itu ji agahiiri ibidho

 If rain has not fallen plant yam would not start:

 If it had not rained, the planting of yams would not have started.
- (c) A si na mmehya adihii, mgbaghara agahiiri idini

 If offence exist not, forgiveness would not exists

 If there were no offence, there would be no need for forgiveness.
- (d) 0 gahiiri iri hwe shihe, wa o gahii oru

 He would not eat food of afternoon if he did not go to work

 He would not have been given any lunch if he had not gone to the farm.
- (e) Ogu agamiiri ikwota ya ma a si na i gwara ya
 Ogu would not ha a picked him if you told hims
 Ogu would not have picked him, if you had told him.

78(f) Agairs hi irl ys iou ma o eil o nohiiri n'ulo ogoù
Would have they fined him fine if he were not in house of
medicine: They would have fined him, if he were not confined in
the hospital.

Observe that in both conditional clauses A & B, the conjunction make is obligatory only if the consequent (clause) comes first in the construction. Note also that the werb of Condition B clauses is a complex one made up of the auxiliary qa (in its modal use) plus the suffixes -hll and

-rV time

and the following verb form which begins in the harmonising open vowel prefix. From these examples given here, it will be observed that the form of the verb is fixed, it does not vary. This werb form, which is discussed further in chapter 5, constitutes a disgnostic differentiating test for unfulfilled conditional constructions or conditional clause 8.

2.4.5 Relative Clauses A & B - Rel. A

In relative clauses, negative, there is an obligatory no auxiliary element which is always on a high tone. Because of this high tone no, the following open vowel prefix is on a downstep. For all classes of verbs, the stem is on a high tone; the negative suffix -hil is on a low tone if the verb is a class 2 verb, but on a downstep if the verb belongs to sither class 1 or 3.

Examples with iri (vb. cl. 1) and ize (vb. cl. 2)

- 79(a) Onya na erihîi iri thán mera onwe ya Person who did not eat food today did self his/her:
 Whoever did not eat today cheated him/herwelf.
- (b) Ngeu na ezahii ezhi zera ime ulo Ngeu who did not aween the compound awent the house.

Paradigm with Noun Subjects:

- 80(a) Chúkwuemeka na ezahii ezhi, eriñii hwe.

 Chukwuemeka who did not sweep the compound did not eat
 - (b) Oke ne agbebhafuñii n'onu ka nkita cumara

 Ret which could not run into its hole that dog chased.

 The ret which could not run into its hole was chased by the dog.
 - (c) Okwir na stuhii ji amahii n'onya Bushfowl that did not peck at yam did not get trapped.

 The bushfowl which did not peck at the yams did not get caught in the trap.
- (d) Dikhe na sbyebèle na egbégedjú m enya.

 Dikhe who has not yet come is confusing me the eye

 That Dikhe-has not yet bono is confusing me.

Relative B

Relative B clauses are like Relative A in that the tonei behaviour of verbs is the same in both clauses, and the ng element is also obligatory here. We give only one set of Peredigms with Pronouns as subject of the Relative clauses:

- Bl(s) Anu m no enychii Ekwe were yo iwe.

 Meet I did not give Ekwe angered him.

 The fact that I did not give Ekwe some meet angered him.
- (b) Anu I na enyeshii Ekwe ware ya iwe
 Tha meat which you did not give Ekwa angered him.
- (c) Anu o na anyahii Ekwe were ya ise
- - (c) The fact that he did not give Ekwe some meat angered him:

 - (f) " " they " " " " " " "

In terms of Reletive Clause constructions, this dielect differs

from Chuhu in having an obligatory Na auxiliary element as part of
its complex Negative werb form. This No element had hitherto been
analysed as a lexical prefix. But Dr Igwa's recent view that it is the
No auxiliary is in keeping with our analysis of it in this thesis.

2.4.6 Purpose/final Clauses

This construction type hitherto analysed as the Affirmative Conditional Clause, Subject Verb Form II, by Green and Igmo (1963), is now analysed as Hagative Purpose clause. Thus, not only has the descriptive label changed, but also it is treated here as negative rather than affirmative.

It might be argued, on formal grounds, that the above construction type illustrated in 82 & 83 is not negative, since the verbs of the purpose clauses do not contain any of the negative inflectional affixes of verb conjugation given in 2.3.1-2.3.3. But one has to consider the construction in its entirety, especially the tone pattern of verbs in the purpose clauses which definitely express a negative meaning. The uniqueness of the purpose clauses in these examples lies in the fact that the harmonising vowel prefix, if any, the verb atem and its suffixes are all on low tones regardless of the class of verbs involved. The inseparable, singular, second and third person pronoun subjects and on a falling glide, while nouns of tone classes 3 and 4 have their final low tone reised to high, as though in relative clauses. It seems to se that the term negative in Igbo verb conjugation must be widened to accommodate such facts as these which are structure-specific.

Examples 82 contain pronoun subject in the purpose clauses, while those of 83 contain noun subjects; all the classes of verbs are represented as shown.

With Pronouns as Subject of the Purpose Clauses

82(e) Kpechare anya su ériches ys (iri vb. cl.1)

Open wide eys lest I est finish its <u>Be sereful lest</u>

1 should finish it all.

- 82(b) Bikhō, wèré nwayōo î dha. (idha wb. cl.2)

 Please take gentleness he should fell:

 Piense, he careful, lest you fell.
- (c) Shiwe osiiso o gama shya lethi (iga cl.3)

 Go on cooking quickly he should go market lates

 Hurry up with your cooking lest he should set out late to the
- (d) Ogu kpasuru anyi iee (kheoro) ma anyi anuo
 Ogu stirred up we anger intending that we drink not
 mai ya. (iñu cl.1)
 wine his: Ogu annoyed us [lest we should] drink his wine
 so that we might not
- (e) Ogu timere mkpu unu abbe ya (ibba cl.2)

 Ogu shouted shout [lest you] seize hold of him.

 so that you might not]
- (f) Mgozi heturu me hi ehem ye (ihem cl.3) Mgozi hid so that they might not see her.

With kouns as Subject of the Purpose Clauses

- 83(a) Rutani ovú (khabró mà) éghu aneug n'obhu (ineu cl.i)

 80ild you people, 'ovu' intending that goats might not die in tather

 You people, build en 'ovu' so that poats might not die off in tather.
 - (b) Unu mechiri uzo oka abhata (ibhata cl.2)
 You closed the door so that retamight not get in.

⁸ Ovu, in a traditional lobo compound, is the building in front of the compound through which all visitors enter the compound. It is here that unfamiliar visitors or callers of questionable character are received. It also harmours domestic animals such as sheep and quats during the day. Because it is a large hall, these animals room shout in it without having to be tethered, provided that its gates are locked.

- 83(c) Gashikwee ikhe Uzo egawa éhya (iga cl.3)

 Co fast do herd Uzo set out not merket:

 Do, be very fast so that Uzo might not set out for market.
- (d) Keudee -ezhi-okeŭ Ala skugbuo gi (ikugbu compound verb)

 Do speak the truth lest Ala should kill you.

The uniform tone pattern of verbs in these purpose clauses - all on low tones - does not always obtain if the verbs were compound verbs.

As an illustration of what happens, consider the following examples.

84. Class 1 + 1 Compound Verbs

- (a) A si m ya lawa O lugbuo opara nnæ m.

 Told I her on home she not marry-kill eldest brother mine:

 I told her to go hom lest she should marry my eldest brother to death.
- (b) Eachie onu î rigbuo onue gi
 Close mouth you eat-kill self your: Shut
 up or alse you die eating.
- (c) Pátuo māi fūgu } anugbuo onee yā Nkaté }

Remove the wine, or else | Ogu | should dostroy himself drinking.

With compound verbs whose constituents are class 1 verbs, the same low tone pattern obtains in the purpose clause, both pronoun and noun subjects behave tonally as in 82 and 83. The same situation obtains if the compound verbs are of the following constituent members:

- (i) Classes 1 + 3
- (ii) = 2 + 1
- (iii) 2 + 3
- (iv) 3+1
- (v) 3+3

We give one example of seach of the above compound verbs in a purpose clauses

- 85(a) Unu gagharm yw kheòro si o ghalesra m okeu

 You ment left behind him so that he examine not me the talk.

 You ment without him lest he should examine the matter for me.

 (1 + 3 compound wort)
- (b) Lite i dhagbuo nee m (idhagbu , 2 + 1)

 Get up lest you crush my baby.
- (c) Akeuola m ya ugeo o zhigara di ya ozhi (izhiga 2 + 3)
 I have paid her the debt so that sho might not send word to her
 husband.
- (d) Ogu furu o byskheuo ya (ibyakheu 3 + 1)

 Ogu left lest he should find him (in the house).
 -) Oʻgbūru nwiè ya' ilu oʻshigara nna ya' iri (vb. ishiga 3 + 3)

He beat wife his beat lest she cook send food to her father.

He beat up his wife so that she might not cook food and send to her father.

But compound verbs of the following constituents:

have a different tone pattern in that

- (i) the singular pronoun subjects 0 and I are on a high-downstep glide;
- (ii) the first constituent of the compound werb is on the same pitch as the preceding high of the_ subject, or of the vowel prefix, if any, thus:
- 86(a) Anyi kpooro ya polishi o gbudha nkwu m
 we called him police lest he cut down oil palm mine.
 We called the police for him so that he might not cut down my
 palm tree.

Drive well boat we fall into the water

(c) Eukwaa ajo nwanyi ka'a o mefu gi na nwokho

Do drive away bad woman this lest she do out you from manhood:

You should drive away this wicked woman lest she should undo you
as a man.

From these examples, we make the following deduction:

- (i) Compound verbs with the tone pattern high high or low low will all end up on low tones in what we analyse as Negative Purp-se Construction, while
- (ii) those with the tone pattern high low maintain the same pattern in the construction in question.

The foregoing chapter end its examples show conclusively that a division of Igbo constructions and werb forms into the Affirmative and Negative not only recognises the opposition between the presence of the harmonising wowel prefix A- in the latter and its absence in the former, but also takes into account the important fact that all the inflectional, and consequently obligatory, suffixes given in this chapter are not mutually exclusive with but complementary to this wowel prefix which, we think, has been wrongly analysed as the Aorist prefix by Rev. Igwe. In our dialect, the wowel prefix is a regular marker of negative werb forms, although it is associated with some affirmative werb forms such as werbs in the perfect and narrative. But whatever the case, the prefix must not be analysed in isolation from the relevant inflectional suffixes in combination with which it expresses the right time meaning in this as in many other dialects of Igbo:

CHAPTER 3 TOME

3.0. Introductions

Tone occupies a central position in the syntax of Igbo. Consequently, whatever aspect of the language one decides to investigate, one cannot avoid some discussion of tone, hence the relevance of tone in the grammar of Noun Phrase (Sentantial) Complementation which is the subject of this thesis. But in a more strict sense also, Tone is relevant to the subject of this thosis. The rule of relativization constitutes an essential distinction between factive and non-factive complements in Igbo, a topic which is illustrated in chapter 6. Since the tone rules which are given and discussed here apply to Igbo NPs of the structure [N # N]_{LD} = well as to relative clauses some of which can be reduced to the above type of NPs, the discussion of tone is particularly relevant to our subject here.

However, it has to be observed from the start that Tone is a full subject of its own even beyond the scope of any one Ph.D. thesis.

Unfortunately, not very much has been done in this as in other areas of lobo syntax, and this chapter does not represent what is lacking in the study of Tone, but what we consider relevant to MP complementation in lobo.

that it every turn in the grammatical analysis of Igbo, the analyst is confronted with the issue of tone: of how far grammatical relations are signalled by means of tone, or now one underlying item can manifest different tone patterns according to the various syntactic structures in which it may be functioning. Some of these polysystemic tone patterns have been given in the examples of the various construction types given in the preceding chapter 2, but the generation of such patterns by means of tone rules is illustrated in the following sections so that subsequent references can be made to them (that is, to the tone patterns and the rules that generate them).

In the description of tone in a tone language, one should in principle recognise two levels of analysis:

- (i) Tone changes due to syntactic relation,
- (ii) Tone changes due to the juxtaposition of certain tones. But in practice, it is not easy to maintain this demarcation, since one level dove-tails into the other. In syntex, grammatical relations between units of structure are manifested by word order and/or by tone. and tone changes are realised at the surface in terms of high-tone lowering (downstep) or low-tone raising. Yet these syntactically determined tone changes must be related to the phenomenon of Downdrift common in West African languages, and doendrift is not syntactic, but purely phonetic. Thus, although the motivation of some tone changes in Igbo is syntactic, the surface realisation of such tones is by a series of phonological rules which will be discussed and illustrated As will be seen in this section, we have not got two sets in 3.2.0. of changlogical rules - one set for syntactically determined tone changes end the other for phonologically determined ones. Rather. what we have is a set of rules which work together to produce the tone patterns that we essociate with Igbo sentences, and in most cases, the application of one tone rule creates an output structure which becomes the input to the next rule. In this way they are not isolated. but interdependent, the result is that our distinction between syntactically determined and phonologically motivated tone rules does not obtain in practice.

In handling this chapter, we have drawn most of the phonological rules from existing research on tone within the frame work of Generative phonology, especially from Ibeden Notes.² The six of such research has been to arrive at a uniform treatment of two phenomena in most tone languages which must

be considered distinct in origin: Doendrift and Doenstep. We could have merely referred the reader to this research eithout repeating the rules here. But we consider such a method inadequate, especially se see have added to the number of these rules in a way which alters their (intrinsic) ordering, and we have consequently extended their application to other MP structures in the language. Such additions and the extension consequent on them call for the citing of the rules eithout which a discussion of them and the justification of the extension could not be meaningfully carried out.

3.1. UTDERLYING PHONELOGICAL REPRESENTATION

Tone in Generative Phonology has morely becom to receive the attention of researchers in African Languages. One of the problems facing such Africanists is the representation of tone in the underlying phonological form of verbs. De single out verbs as the source of problem here because with other lexical categories, such as Nominels, it is always possible to relate surfece or phonetic tone patterns systematically to the underlying or inherent tone patterns by means of the tone rules. But with werbs, the situation is made difficult by the fact that the same werb which may be classed as high (Class 1) or low (Class 2) or high-low (Class 3) will manifest different tone (patterns) in different sentence or construction types. Take Relative Clauses, for example. As we observed in 2.4.8., all the three classes of verbs given above have their stem on downstep (high) tone with regard to what precedes. This exams that even en inherently low tone werb of class 2 behaves like a high tone one in this clause type. As far as me know, there is no way of deriving a high tone verb from an underlying low one short of tinkering. To avoid this unpleasant method, we have adopted the following methods

(i) the underlying phonological form of a worb is determined by the sentence type in which it is functioning, hence in Relative & clauses, the three tone classes of worbs are all high;

See 3.2.0 for definition

² TONE in Generative Phonology, RESEARCH NOTES, Vol. 3, parts 2 & 3, Doot, of Linguistics and Migarian Languages, University of Ibadan, 1971.

- (ii) With regard to Nominals, underlying phonological form means the inherent or lexical tone pattern;
- (iii) Where an affix (a prefix or suffix) has a tone independent of its tonemic context, such a tone is generally specified in underlying phonological form. So far, only three suffixes the perfect negative and affirmative suffixes, -bèle and -la-na, and the wowel suffix -D are known to have inherent tones unaffected by context.
- (iv) Although nominals have been classified here according to their time classes, the tone class of a particular noun is not sufficient to guarantee its appropriate phonetic pattern, we need to make reference to the type of syntactic structura involved; to this effect the adjacent tones at word boundary and the use of labelled bracketings give the necessary and sufficient information. For example, the following labelled bracketing the sufficient to trigger the generation of rising glides (V) on nouns or other items with final low tone in an NP subject of a relative clause, as in (a) & (b) below:
 - (a) Dgu gara ahya _ Ogu who ment to warket.
- (b) Eghu o rīri ji m This goat that ate my yam where <u>Ggu</u> and the determiner <u>o</u> have an extre high tone which now precedes the downatep on the stem of the verb of the relative clause. Similarly, the use of the labelled bracketing
 - (a) [N₁ ≠ N₂]_{NP} or (b) [N Det]_{NP} is enough information to the effect that the final low tone of N₁ in (a) or N in (b) does not develop into a rising glide as in relative clauses, unless N₂ is a monosyllable, but is only raised to a high tone provided N₂ or Det begins in a low tone thus;
 - (a) Qdhy a oka --- odhy oka 'rat's tail'
 - (b) Ulo p o vio o this house
 - (c) odhu s ji --- odhu ji tail of a yaa

3.2 Syntactically determined Tone changes and Downdrift

Downdrift is a phenomenon occurring in many tone languages with primarily level (as opposed to contour) tones; it also occurs in languages with glides which are analysable as a sequence of level tones. It has received a fairly wide treatment by scholars interested in tone languages. Downdrift may be defined as the progressive lowering of pitch throughout a phrase due to intervening low tones. For example, in a sequence of all high or low tones, the pitch remains the same, but in a sequence of high-low-high or low-high-low, the second high or low is on a lower pitch than the preceding high or low tone. It is thus possible for a high tone late in a phrase to have a lower absolute pitch than a low tone early in the phrase.

The above hypothesis is experimentally verifiable, as the following mingogram show. Compact, vertical lines (striations) represent pitch tracings: the longer they are, the lower the pitch of utterance, the shorter, the higher the pitch. In other words, pitch is inversely proportional to the length of trictions.

The following sentences have been used:

- 1(s) ... Àdhá Ehsy Ekhwa di kà skhwá skū:

 And Adha saw some eggr like the eggs of a python.
- (b) Otu mgbe, otu nwaanyi pyere ohya akhu One time, one woman went into bush of kerneis: Once upon a time, a woman went into the bush in search of kernels.
- (c) Noe dechere uri game shys:

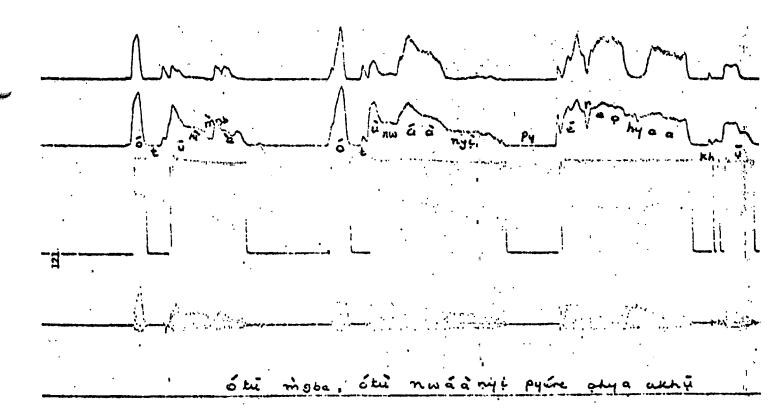
 Mother, mine, who beautified herself with indigo and set out for merket.
- 3. Welmers, W. (1959): "Tonewics, morphotonemics and Tonal morphome"

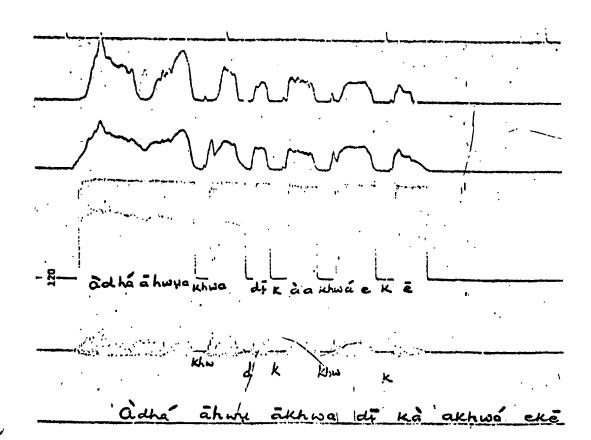
 Central tinquistics 4 p. 1-9.

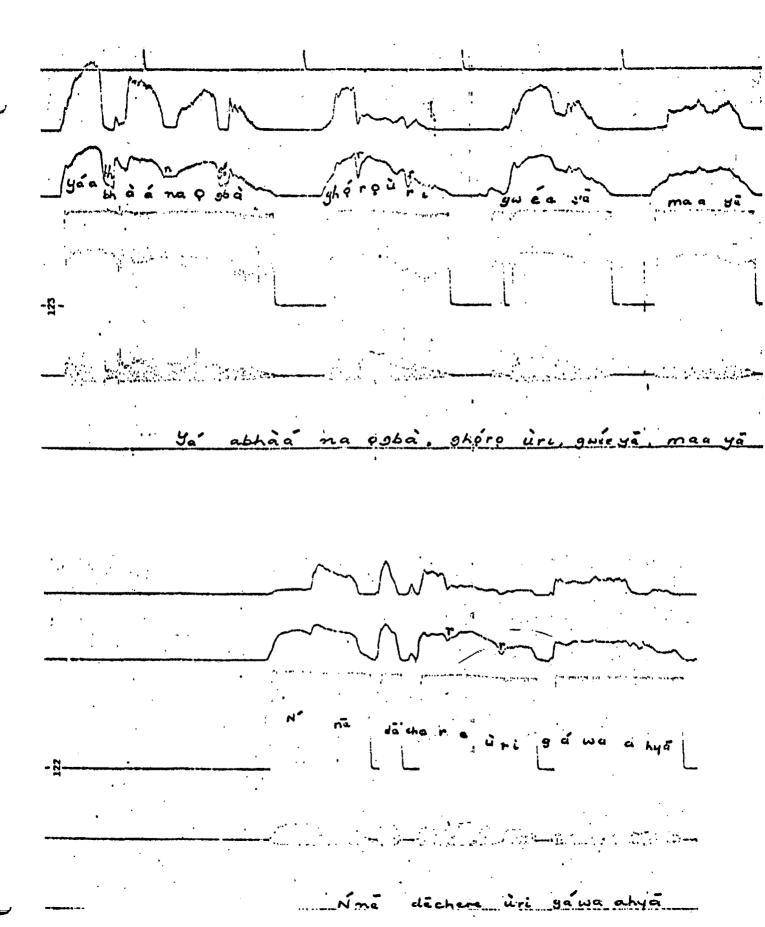
 Uinston, F ~.D(1950): "The Mid tone in Effc" African Lq. Studies 1, p.188-192.

 Schachter, P.(1961): "Phonetic Similarity in Phonemic analysis" Language 37:2 p.231-238.

 Arnott, D.U.(1964): "Downstep in Tiv verbal system" African Lq. Studies 5, p. 34-51.







1(d) ... Ye ebhae n'ogba, ghoro uri, gees ya men ya And he entered the garden, plucked indigo, ground it rubbed its And he entered the garden, plucked an indigo fruit, ground end rubbed it.

In the first singogram (p.120), spart from the observable general lowering of pitch, it will be seen that the initial low tone of the phrase on Adha has such shorter strictions than the downstep on di in the middle of the phrase, to say nothing about the such ionger strictions on the final high tone of the entire phrase, itself a downstep. Correspondingly, the pitches of these same syllables are roughly 130 Hz for the initial low tone, 110 Hz for the doenstep high on di in the middle of the phrase and 90 Hz for the final high tone (doenstep) at the very end of the phrase. The difference between the initial low and the final high is very remarkable.

In the second mingogram (p.121), we are interested only in the expression - Otu nwaznyi pyere phys skhu hich constitutes a semantic unit. The first low tone of this phrase is on the second sylleble of otu, while the last sylleble of the phrase is on a downstop high. A look at their respective strictions indicates that the first low tone is on a higher pitch than the final high tone at the end of the phrase. While this initial low is on a pitch of about 100 Hz, that of the final high is on a pitch of 85-90 Hz. The downstep relationship between the preceding high-tone syllebles and the final downstep in the last bit of the sentence.

is also intoresting. These are in the relation of 100 Hz-to approximately 90 Hz. This same downdrifting effect is obvious from the third mingogram (p. 122) where the first three syllables terrace down as shown from a pitch of about 140 Hz to about 110 Hz on the second downstaps

it ine dechare

Because of the intervening low-tones on <u>wrf</u>, the final high-tones on \underline{gamb} shy $\underline{\tilde{s}}$ are both lower than the preceding ones, and are in the pitch relation of 90 Hz to 80 Hz on the final downstep.

But this lowering affects low-tones as much as it does high ones. For exemple, in the fourth mingogram (£123), the first low tone of the entire sentence on -bhs has a pitch of roughly 100 Hz, the subsequent ones after two intervening highs are on a lower pitch of shout 80 Hz, while the next set of lows on <u>uri</u> are lower still, having an average pitch of 70 Hz.

Enat these results show is that the terrace level tone pattern associated with tone lenguages is both real and verifiable experimentally. The range of the downcard terracing may vary from sentence to sentence, or even according to the length of sentences, but the progressive lowering of pitch from the beginning to the end of a phrase does take place. However, what is observable from the pitch measurements given here and what must be emphasised is that, although pitch drifts downwards, the relative contrast between high and low is preserved throughout a phrase.

Downstep

In addition to downdrift, Igbo, like many other tone languages, also has the phenomenon of downstep or lowered high-tone. Downstep in Igbo is always an indicator of some syntactic relationship, such as the relation of constituency between two icoms in an NP, or a verb-object relation. Whatever syntactic relationship it marks, the downstep in Igbo is always preceded by a high-tone, and never otherwise. It is thus to be distinguished from the mid tone in, say, Yoruba, which can occur

⁴ The term, terrace-lovel, is due to Pike (1940) Tone Languages University of Michigan Press, Ann Arbor.

independent of a high tone. In the following 2(a-b) which have been described as Cenitive structure by Green and 1gws (1963) or Completive phrase by Voorhoeve, Masussen and de Blois (1969), the pitch relationship among the syllables is given as follows:

The phonetic scale values 1, 2 n indicate pitch, the smallest number representing the highest pitch.

Despite their distinct origins, downstep being a marker of syntactic relation, while downdrift is a more phonological feature, the two phenomena can be uniformly treated, if we accept the basic hypothesis that pitch lowering in a sequence of tones is due to intervening low pitches. It is very likely that all downsteps can be dischronically derived from tonal systems with two underlying tones; high and low, although this is not always tenable in synchronic data. However, it has been shown (fromkin, 1972 and Arnott 1964) that some downsteps do, in fact, derive from an underlying high-low-high sequence thus:

•	**	à bó	*my stone*
	H .	L H	
	1	3 1	underlying pitches
	1	3 2	pitches after the application of
	•		downdrift rules
	1	# 2	pitches after the deletion of /s/ by
		•	vowel deletion rule.

ng 50

3.

In addition to the above example given by Fromkin from Aken - .

• language of Chans - Arnott (1964) has also demonstrated that in Tiv

varbel system, a surface downstep derives from the same high-low-high sequence. In Igbo, on the other hand, there is even a stronger case for postulating such a non-segmental low tone in underlying phonolagical form. First, there are ample data to show that in addition to deletion, there is sometimes an incorporation of this non-segmental tone in specific structure types, for example, relative structures:

- 4(a) Ogu gara shya alola
- (b) Ogu anya anya anya (b) Ogu who went to parket is back.

4(a) & (b) are dislect variants of the same structure whose underlying subject NP is Ocu. In order to account for Ocu with its rising glide, or Ogu with its downstep high, one must assume the presence in underlying phonological form of a non-segmental low tong which (after the necessary phonological rules have applied to raise it) sust have been incorporated in the one case but deleted in the other. The relevant rules ere discussed in 3.5. All that these facts call for is the provision for a rule of Tone Incorporation in addition to one of Tone Deletion -(Tone Simplification in this thesis) in the phonological description: of Igbo. We therefore disagree with Kiparky's argument (Kiparsky 1968) that these underlying non-segmental low tones never appear at the surface. They do appear in surface or phonetic form in Igbo, given specific contexts, and this is why we have added a rule of Tone incorporation to the tone rules which we have taken from Ibadan Research Hotes. Be do. however, egree with him that downstep must be given a phonemic status, at least in some dialects of a language. Williamson (1972) has shown that downstep in the Unitsha dialect of Tobo is distinctive, but this does not destroy the case for an underlying non-segmental low tone which triggers downsteps in the same way that segmental low tones intervening between high or low tones bring about downdrift.

^{1 2} final phonetic form.

3.3 Tone Rules

The following are the phonological rules necessary for the generation of Igbo downstep and downdrift tone pattern generally. They are first given here, then discussed later and subsequently illustrated with a wide range of data showing different construction types in the language, and thus demonstrating that the tone rules have a far more general application than had hitherto been realised.

Tone Rule (Tn-Rule) 1

1(a) (High tone)
$$\longrightarrow$$
 [+5]

1(b) (Low tone) \longrightarrow [-5]

That Tn-Rules 1(a) and (b) do is provide a mechanism for decomposing the underlying tones of terminal strings into distinctive (and non-distinctive) phonological features which now become the input to subsequent phonological rules. In addition to being segmental, $\mathcal{L} \circ SJ$, high and low tones are distinct in being either raised $\mathcal{L} \circ RJ$, or unreised $\mathcal{L} \circ RJ$. The use of $\mathcal{L} \circ RJ$ and $\mathcal{L} \circ RJ$, as opposed to terrelis^S $\mathcal{L} \circ RJ$ and $\mathcal{L} \circ RJ$ avoids a possible confusion with "high" and "low" we features of tongue height. Europear, it anables one to speak in relative terms.

Similarly, [-5], a segmental tone or one belonging to a syllable in underlying phonological form is here distinguished from the hypothetical non-segmental low tone [-5] introduced in underlying form to trigger downstap and downdrift generally.

In-Rule 2

$$x \longrightarrow x \begin{bmatrix} -s \\ -R \end{bmatrix} y$$

Emerc X and Y, already in phonological form, could be any of the following:

- (i) N1 # N2 ... or N Det MP.
- (i1) NP Vert
- (iii) Verb MP

As the double arrows show, In-Rule 2 is transformational; it introduces the hypothetical non-segmental low tone in underlying phonological structure between the two items whose tone pattern is being generated. This rule provides the input to subsequent Tone rules and is in keeping with the theory that downstep and downdrift are tone lowerings 6 due to intervening low tones.

This rule merely moves round the non-segmental low tone into such a position that it immediately precedes the second syllable of the following nominal.

Tn-Rule 4 Tone-Raising Rule

$$[-R] \longrightarrow [-R] / \longrightarrow [-R] \longrightarrow [-R]$$

This rule enables one to capture the phonomenon whereby a low-tone preceded and followed by low-tones in a nominal phrase (NP) is raised to a high-tone. This is also what happens when two basically low-tone

⁵ Cerrell (1970) op.cit. Chapter 5 p.64.

⁶ Key Cilliamson 1971 "The generative treatment of downstep"

Ibadan Research Notes, 3, parts 2 & 3 p.23.33.

For an earlier view of the nature of the underlying non-segmental tone, see Youthouse, Essussen and de Blois (1969).

warbs combine to form a compound werb, as in the fellowing exemples 1khwa 1khwadha "to push down"

The tone pattern of the above compound werb can be generated in the following way

5 (a) i khee dhe i khee dhe

(b)
$$\begin{array}{c} +S \\ +R \\ +R \end{array} \begin{array}{c} +S \\ -R \end{array} \begin{array}{c} +S \\ +S \end{array} \begin{array}{c} +S \end{array} \begin{array}{c} +S \\ +S \end{array} \begin{array}{c} +S \\ +S \end{array} \begin{array}{c} +S \\ +S \end{array} \begin{array}{c} +S \end{array} \begin{array}{c} +S \\ +S \end{array} \begin{array}{c} +S \end{array} \begin{array}{c} +S \\ +S \end{array} \begin{array}{c} +S \\ +S \end{array} \begin{array}{c} +S \end{array} \begin{array}$$

Th-Rule 5 - Downdrift Rules

where n = pitch value

= a notational convention showing that the square brackets are not enclosing feeture specifications se they do in phonology, but are indicating that +R | is always re-eritten as 1 etc, es square brackets do in syntactic rules.

Tn-Rule .5. (a) sesigns the numerical values 1 or 3 to the initial high or low-tone of a phrase. Observe that the lowest number represents

the highest pitch. With the application of 5(a) as basis, one can generate the relative pitches of subsequent syllables by iteratival applying 5(b) & (c). The rule works in a left-to-right direction. Tn-Rule 6 - Tone Incorporation

This rule has not been formalised here, but we are clear as to what it does. It is responsible for the development of glides in

- (a) Monosyllabic nouns of Tone class 1 (a) in first or pre-genitival position. With this class of nominals Tone Incorporation must be ordered after Tone Assimilation (Tn-Rule 8), as otherwise. one gets a sequence of high-low-high, which is not acceptable. as in Jii Chi, instead of the desired Jii Chi (Chi's yam):
- (5) Nouns of Tone classes 3 and 4 when they are RP subject of designated clauses (ie Rolative - Temporal, N'ebe Cousal, and Manner Adverbial MP Clauses)

In-Rule 7 - TONE SIPPLIFICATION RULE

Tn-Rule B

This rule provides for the deletion of non-segmental tones at the and of the phonological rules. Since the Tone Incorporation Rule is ordered before this rule, there is no more need to block its application to Monosyllables of Tone Class 1(a) nor to nouns of Tone classes 3 and 4. TONE ASSIMILATION

$$\begin{bmatrix} -R \\ n \end{bmatrix} - - \longrightarrow \begin{bmatrix} -AR \\ n-2 \end{bmatrix} \cdot / \begin{bmatrix} -R \\ n-2 \end{bmatrix}$$

This rule provides for the assimilation of the initial low tone of Nouns of Tone class 2 whenever this low tune is preceded by a high tone across word boundary, as

Since the rat has died.

6. Oʻgburu ≠ òka _____ O gbūru oka He killed a rat.

This doletion rule is made occassary os a result of the application of the foregoing Tone rules to nominal structures in which Tone Class 5(b) Nouns (such as Ibe) are in genitival or second position. It will be recalled that this class of nouns are either proper names or personifications and have a different tonal behaviour in this position from their counterparts in Tone class 3.

Other necessary modifications to these Tone rules will be pointed out and discussed when each of them is applied to some data from our dialect.

There is no doubt that, in order to generate all the permissible time patterns in Igbo nominal structures, those rules will have to be extended, and some intrinsic ordering on their application stated where necessary.

Before applying these rules to Igbo structures, a brief discussion of them is appropriate here.

It will be recalled that the Tone rules given here are mainly

Bess Rules, only a small number of them are transformational. This is the

main difference between this and Carrell's handling of Tone. We agree

with her that only two tones - high and low - need be set up in underlying

phonological structure, and that downstep is a surface or phonetic

Ishi Ibe Ibe's head

In order to derive tone patterns such as these, one has to provide for the deletion of the first of e sequence of $\begin{bmatrix} -S \\ -R \end{bmatrix}$ $\begin{bmatrix} -S \\ -R \end{bmatrix}$, which is a high tone. The rule is edulttedly educe, and as is the tone pattern it is trying to characterise idiosyncratic. For the application of this rule, see 3.5.

Extrall's use of distinctive features such as the for high tones, and the for low tones is in keeping with our own use of the for the same high and low tones, though we prefer the same high and low tones, though we prefer the same high and low tones, though we prefer the same high and low tones, though we prefer the same high and low tones, though we prefer the same high and low tones, though we prefer the same this not only avoids a possible confusion of the with features of tongue height, but also enables one to speak in relative terms. But we differ from her in this sense that the above features echo the need not be introduced at all, let alone by a series of 8 transformational rules. We regard tone as a bundle of phonological features whose distinctive and redundant features are inherent and are, therefore, better captured by re-write rules such we have given in Tn-Rules I(a) in (h). For similar reasons, we have also assumed that all boundary symbols employed here are generated in Base rules. These symbols include:

for Phrase (Sentence) boundary

£ . * Scrd (Corphese

+ Formative boundary.

(Formatives include profixes and suffixes). Those boundary symbols are better introduced in the Phrase Structures by Base-Rules, and this method is much more economical than Carrell's Transformational approach.

In order to generate downstop and downdrift tone pattern generally, she employs 7 cyclical and 4 post-binary rules. This same effect 4 memore economically echieved by means of the Downdrift rules given here.

Once the numerical value of the first tone has been determined by

Tn-Rule 5(a), then subsequent pitches can be determined by repeated application of 5(b) or (c) following a linear Left-to-Right direction.

Very early in this chapter (see 3.0) we called for a distinction between syntactically motivated tono changes and other tone changes which are purely phonological. In practical terms, the only distinction one can make lies in the ordering of the rules given here. for example, the

⁷ Apparently, the Ibadan workshop (see Rosearch Hotes p.83-90) did not examine proper names such as Iba when it is in second position as in

Tn-Rule 2 which introduces the non-segmental low tone is the first step towards the generation of downstep, or downdrift. Let us take a simple example to illustrate the process:

$$B(b)$$

$$B(b)$$

$$B(b)$$

$$B(c)$$

application of Downdrift rules. (Tn-Rule 5(a) (b) & (c)).

8(c) therefore represents only a stage in the whole process of deriving a downstep; it is not the downstep itself. Only the application of Downdrift and other necessary rules will yield the surface downstep thuss

These two rules therefore provide the phonological structure for the

	1	shi	6	•	ghu	
:B(e)	+S +R	+S +R	. +R +S	-S -R	+S +R	By Downdrift Rule_(Tn-Rule.5(a))
	1	1	1	4	-	by Tn-Rule S(c)
	1	1	1	4	2	• • 5(b)
	1	1	1	ø	2	D(f) by Tone Simplification
	<u> </u>			<u> </u>		(In-Rule 7)
8 (f)	1	, shi	- eghu	ſ	· ·	7 (

It is necessary to point out that the numerical values are relative; the value? does not always stand for a downstep, but in relation to a precoding high tone, in this case 1, it is a lowered high tone, or drop tone or downstep.

from this and other subscquant axamples, it will be easy that Doundrift is a late phonetic rule which converts phonological binery features to

phonetic scale features. There is no one rule which could be described as the Downstep rule. All that Tn-Rule 2 does is provide the necessary structure for the operation of subsequent tone rules. At this level, therefore, syntax and phonology are not distict for the simple reason that any chanetic tone pattern, be its origin syntactic or phonological. But the product of some of the foregoing rules, which are essentially phonological. At this level in the description of Igbo, syntax and phonology mergs.

Order of the Tone Rules

The numbering of these rules does not necessarily reflect any extrinsic ordering; it is more for ease of reference, and must be seen as such. Any strict ordering of rules in Igbo grammar must exit for more facts from a thorough study of various aspects of the language. It must be observed that evidence from the grammar of complementation preserted in part II of this thesis (of \$1.0:268ff) is in fevour of intrinsic ordering, although the rules of syntax and phonology are different in kind. However, where an ordering relationship between two phonological rules has been considered necessary, as in the generation of the tone pattern of class I(b) nominals (that is mono-syllabic nouns in first or pre-genitival position) such an order has been given. In this regard, in order to ensure the derivation of the well-formed 9(a) or block the generation of the deviant 9(b) from the underlying form 9(c), we must maintain the following ordering relationship:

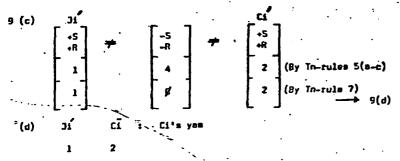
Cither Tone Incorporation (Tn-rule 5)

Or "Simplification (Tn-rule 7)

If 6, then "Assimilation (Tn-rule 8)

9 (a) Jii Ci Cite yam

(b) "Jii Ci



To derive 9 (a) from 9 (c), we apply the alternative rules thus

Thus, Tone Assimilation is contingent on a prior application of Tone

Incorporation with classes I (b), 3 & 4 nominals. Failure to apply =

rule 8 after the application of 6 is responsible for the deviance of 9(b)

3.4 TONE CLASSES

for the operation of the Phonological rules so far given, Igbo nominals (nouns) have been classified as follows:

TONE CLASS 1 (a)

This Tone class includes all nouns with tonal structure high-highexcept proper names or Personified nouns.

Tone Class 1 thus includes

These nouns will always have a downstep final syllable when they are in second or Genitival position thus:

ishi # eghu - ishi eghu

But they will behave differently if they are personified or used as proper names, thus:

the son of Eghu

Contrast num eghū (a small gozt) with

num Eghu (the son of Eghu)

This contrastive pattern is unough reason for treating proper names and personifications as a separate group.

TONE CLASS 1(b) - This group comprises monosyllabic high tone nouns in the language. It is these nouns which in first or pregenitival position have the following possibilities, (cf. p.139)

(P) 211. CT

TONE CLASS 1 (c) = This is a covert class found in such nowns we Ago or in certain prepositional phrases such as - Na ono : in the south

ICHE CLASS ? NCUMS - This class includes all nouns with a low-high tone pattern as in:

TONE CLASS 3 - To this class belong all high-low tone nouns such nouns

Of this (tail)

except propor names which, like those of Tone Class 1(a), behave idiosyncratically. The contrast between the following pair will illustrate the point we are making:

- 12 (a) Ukwa UZD (breadfruit tree by the way side)
 - (b) ykwa Uzo (Uzo's breadruit tree)

From (e) it is obvious that this class of items does not change their tone pattern if and only if they are in both first and second positions, or they are followed by a noun of Tone class 1 (e)

But in combination with other Tone Classes, they assume a non-inherent tone thus:

(e) Çdhỳ
$$\neq$$
 ha \rightarrow Çdhỳ ha (Their tails)

13 (d) and (e) are exceptions to the rule because of the pronoun ha in second position. With the exception of eny! (which behaves like a Tone class 2 nown in second position) all other pronouns maintain their inherent tenes if the preceding noun ends on a low tone.

TUNE CLASS 4 - This class is made up of low-low tone nouns such as:

They have the underlying phonological structure

In first or pregenitival position, their final low tone becomes high; ; in second or genitival position, they maintain their inherent-tones.

TONE CLASSES 5 (a) & (b)

include:

This class has been set up to account for Proper names or Personified nouns of Tone Class 1 (a) such as Anya, Onu, as well as those Tone Class 3 - such as Ibe, Uboci, which form the 5 (b) class. As we pointed out earlier on (p. 13%) these nouns do not behave like members of their classes probably because of the semantic contrasts which must be maintained between such pairs as:

To be considered as submembers of this idiosyncratic class are those nominals in Içbo which begin with the bilabial masal /m/. These

manu oil miri water muo spirit, ghost

Their number is very small, indeed; in second or genitival position, they behave exactly like personified (Proper names) of Tone Class 1 (a), as the following data show:

- 15 (a) ezigbo many genuine oil, good oil
 - (b) otile mai the bottom of wine, the dreg of mine
 - (c) ishi miri the head stream
 - (d) ala mīri river/sea bed

We decided, on phonological grounds, to group them separately from members of 5 (a) with which they share identical tonal behaviour in second position.

3.5 APPLICATION OF THERULES TO IGBO KOMINAL CONSTRUCTION

repeatedly pointed out in this thasis as well as in all descriptions of the language. In this section, we shall exemine, taking each tone class in turn, the series of phonological rules necessary for the generation of the tone patterns of what has been variously described as Genitival Structures or Igbo Completive Phrase. The evidence from Igbo syntax suggests that the same rules which generate the tone patterns of nouns in Comitival structures could also account for the tone patterns patterns of most, if not all Cominal constructions in the Igbo language. In particular, Relativized Clauses seem to be the underlying form of some of these in the Igbo language at that these structures derive from a certain category of Relative clauses via Relative Clause Reduction.

First of all, let us observe that there is nothing radically new in what we are about to any concerning Igbo genitival constructions. These have been fairly adequately treated by Green and Igwe (1963, p. 20-23). Their findings on this subject hold good for Qhuhu dialect as for most, if not all, dialects of Igbo. But the wider implications of this tenal phenomenon do not seem to have been fully realised in a Grammar such as Green and Igwe's, whose main concern was to observe the data and describe them.

Our purpose here is to go beyond the surface nominal constructions, relate them and their characteristic tone patterns to Relative clauses and associated patterns, and in a systematic way show that some Reduction rules have operated on certain Relative clauses to produce such nominal constructions as the Genitival ones being discussed here.

We take the Houn classes in turn, pointing out as we go along how they behave in first or pregenitival and then in second or genitival positions:

TOME CLASS 1 (b)

16 Ji'

$$\begin{bmatrix}
+S \\ +R
\end{bmatrix} \neq
\begin{bmatrix}
-S \\ -R
\end{bmatrix} +
\begin{bmatrix}
+S \\ +R
\end{bmatrix}$$
(a)
$$\begin{bmatrix}
+S \\ +R \\ 1
\end{bmatrix}
\begin{bmatrix}
-S \\ +R \\ 2
\end{bmatrix}$$
(b)

$$\begin{bmatrix}
+S \\ +R \\ 2
\end{bmatrix}
\begin{bmatrix}
-S \\ +R \\ 2
\end{bmatrix}$$
(ci's yaw)

$$\begin{bmatrix}
+S \\ +R \\ 2
\end{bmatrix}
\begin{bmatrix}
-S \\ +R \\ 2
\end{bmatrix}$$
(ci's yaw)

The detailed derivation of 16 (a) and (b) have been given on page and need not be repeated here. Chat the above output (16 (a) & (b)) predict is that all nowns of one syllable in second or genitival position will have these two possible surface structures. If a pronoun (monosyllabic) is substituted in second position for Ci, there is only the (b) possibility, (cf 3.3 p. 136).

Thus we find:

⁸ Voorhoeva, Jan; A.E. Recussen and K.F. De Blois refer to the came construction as "Igbo Completive Phrases" in an exticle "New proposals for the description of Igbo Completive Phrases"in Journal of West African Languages 6, p. 79-84.

This fact therefore requires that Ton Simplification rule apply immediately after Downdrift rules have applied, if the second or genitivel noun is a pronoun, in order to avoid the deviant output.

(For the details of derivation, see 3.3 p.136)

As 17(b) shows, all Tone class 1(a) nouns in genitival position have a downstep on their final high tone; and maintain their inherent tone in pregenitival position. As a matter of fact, all classes of nouns maintain their inherent tones before high-high-tone nouns; a few more representative examples illustrate this fact.

(the way to the market).

Extending these facts about Tone class 1(a) nouns to other structures in this dialect, one can predict that in all subject verb forms, main (Initiating and Mon-initiating), all nouns in Subject relation to the werb maintain their inherent tone. Hence we have the following tonal structure in contrast with the dialect described by Green and Igner

- 18(a) Anya zara szhi (our own dislect
 - (b) Anya zara ezhi (Green and Igwe's dislect
 Anya awapt the compound.

In our dislect, glides 10 feature only in Subordinate, and never in Main, clauses.

TONE CLASS 2 - (Low-high)

As with Tone classes 1(a) and (b), Tone class 2 nouns maintain their inherent tones in first or pregenitival position, but acquire non-inherent tones in genitival position:

10 We do, however, have glides in proper names, which might be structurally seen as Independent or main clauses:

Chinyore. This is probably due to the need to distinguish the name from the sentence

Chukeu ma heo nile. God known everything. Chi nyère ngozi: God gave the blassing.

It seems, therefore, that whenever a name is a shortened form of an indicative sentence, its subject KP (if it is a Tone class 1 item) will have a falling glide. Note also the name Cidi from Ci dis God exists.

These terms are due to Green and Igme (1963) A Descriptive Grasmar of Igbo.

20 With Tone Class 3 Nouns in First position

Assimilation Tn-Rule 8.

If we increase this nominal structure by the addition of a Relative clause, the result will be 18(e) with its progressive downsteps represented by the following pitch values:

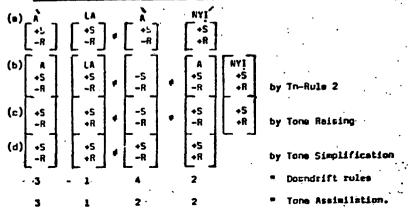
(rat's tail)

(f) Odhu oke neuru eneur the teil of a dead rat
1 2 3 3/ 4 4 5 5 .

21 Fith Tone Class 4 nouns in First positions

oke

3 3



21 (e) als anyl - our land/country

The same set of rules that generate 20 (e) and 21 (e) also account for the following: noun and demonstrative structure (Deictic Structure)

- 22 (a) aze # A --- eze a this chief
 - (b) madhu r A --- madhu o person

It will be recalled (3.4. p.137-36) that whenever two nouns of Tone class 3 are in a Genitival construction, they maintain the inherent tones provided that the genitival (second) noun is neither personified nor is it a proper name. This rather important condition accounts for the following structures:

23 (a) ykhao + yzo --- ykhao yzo

treadfruit tree by the road side

- (b) eze # Ahi -- éze éhi (that chief)
- (c) madny Ahi madny ofi (that person)

 10% CLASS 3 NOWNS WITH TOME CLASS 1(b) IN SECOND POSITION

Before wergo on stouthe other Tone classes, let us slook at the tone pattern of class 3 nouns whenever they are followed by Monosyllabic high-tone items. The following illustrate the tone patterns to be discovered:

one child, an only child

(b) uce s Ei --- uce Ci

God's will

(d) ng'wug'wu + shi -- ng'wug'wu shi

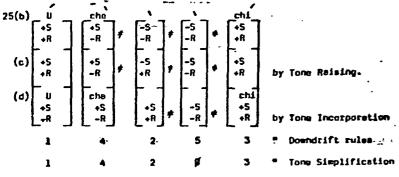
a parcel of excrete .

In all these examples, except (d), the need for a downstep on the monosyllabic nouns in second position has entailed the development of a rising glide on the praceding nouns. As example 24 (d) shows, the development of this glide is blocked if the second element is a pronoun. (Of with an identical phenomenon involving monosyllabic nouns in pregenitival position. In 16(c-d) as here, the alternative structure dii Chi (Chi's husband) is blocked before pronouns; hence 'dii ye is unacceptable. It is a general rule of Igho phonology that glides never occur before pronouns.

The question to be asked is this: Can the phonological rules cope with structures such as 24 (a), (b) and (c)? The answer is yes, provided that some essential addition is made. The addition (or condition) is this: In order to provide for Tone incorporation, two non-segmental low tones must be present in underlying form, otherwise there is no way of generating glide toneson Tone classes 3 and 4 nouns.

Now, lat us consider the following underlying form for (a)-(c)

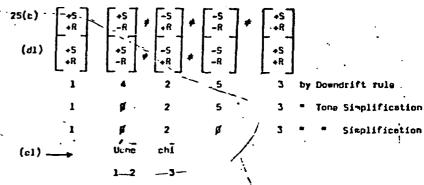
The underlying form, 25(a) does not meet the structural description for any of the relevant rules such as Estathesis or Tone Raising rule. It does not therefore advance the generation of the desired tone pattern. But 25(b) with two non-segmental low tones does:



25(e) uche chi

Now, for some epeakers, there is an alternative form - uche chi.

This is equally derivable from 25(c) via the following rules:



Whichever form one decides to generate, it will be necessary to atipulate two underlying non-segmental low tones. The addition or modification provides the bridge between Nominal structures such as Noun + noun and Noun + Relative clauses. In both types of structures, Tone classes 3 and 4 mouns (and any lexical item with a final low tone) behave identically:

- 26(a) Dou zuru ohi : Dgu who stole
 - (b) Îbe gare nkporo ... Ibe who went to prison
- (c) Nkata gburu madhu ...: Nkata the murderar
- 27(a) Qkuko ufu vuuru: the chicken which the fox carried sway.
- (b) Use lbe tirile ... the clothes which lbe has worn.
- (c) Eba ala rurula since the soil has been dececrated.
- (d) Otho Diakhu mero .. how Diakhu acted

The two categories of Relative Clauses involved in the above data have been discussed in datail 2.4.8.

TONE CLASS 4 NOUNS (LOW - LOW MOUNS)

As is now obvious from the discussion of Tone Class 3 Nouns, Tone class 4 nouns retain their inherent tones in second position, but acquire a non-inherent tone pattern in first position if they are followed by

either Tone: Class 2 or 4 nouns. With the other Tone classes, they maintain their inharent toness

(yam mound)

.31 4 4 2

the land belonging to Ngwuru

The derivation of 2C(b)-(d) is similar to that of 2S(e1). Only one example is given here to illustrate the point.

In a Relative clause structure, also will become also or also, hance two non-segmental low tonce will be necessary in underlying form thus:

30(e) 31è gbūru x 3 3 1 2 2

The nature of the object NP, X will detorwine whather a downstep is necessary or not. If it is a Tone Class 1(a) noun (high-high), then it will have a downstop on its final syllable, and this will entail a non-segmental low tone in underlying form. Thas details are reserved till the appropriate section 3.6 on Relativization.

TONE CLASS 5(a) Personified/Proper names of Tone Classes 1(a) First Tone Class 1(b) (high-high).

That is peculiar about these proper names or personified nouns is the fact that, although their underlying form ments the structural index for Metathesis rule, this rule, in fact, does not apply. The non-segmental low tone is present only to lower the following high tone and is deleted after the application of Coundrift rules. A few more examples includes 32(a) eg'o g Dikha eg'o Dikha

Dikhe's money

32(d) pro s litte ---- pro litte litte series

TONE CLASS 5(b)

Secondly, Tone Class 3 nouns - (high-low)

3 1

In second or genitival position, proper names of Tone Class 3 behave like Tone class 4 nouns in changing from high-low to lew-low tone pattern.

The generation of their tone pattern is as follows:

Admittedly, our reduction rule is ad hos; this is because it is intended to handle a rather popular situation which is not wide spread in the Language, but limited only to proper names of Tone class 3 in second or genitival position. What the rule does is delete the initial segmental high tone whenever it is followed in this type of structure by two consecutive low tones, and give segmental status to the non-segmental low tone. This rule has to be indeed if we are to get the right tone pattern (33(s)) in surface structure.

It will be observed that the Tone Raising rule applied here before the Matathesis rule. This is contrary to the order established by Williamson 1

that Matathemis Rule must precede Tone-Raising Rule. If Matathesis had applied before Tone Reising to 31(b), the output would have been

[+S] [+S] [+S] [-S] [+S] [-R]

This output does not meet the structure index for Tone Raising Rule, which requires that the low tone to be raised must be flanked by low tones. It seems to us that no hard and fast rule must be imposed on the order of these Tone rules to they in syntex or phonology — until more facts about the Igbe Languages are known. Apparently, the Ibadan murkshop did not consider proper names of Tone class 3 in second or genitival position and in subord_nate Relative clauses where the phonological rules being discussed ought to apply also.

TONE CLASS 5(c)

This class comprises those lexic>l items in Igbo, generally of two or three syllable, which begin with the bilable mesal /s/. These include many (oil) miri (water) mai (wine) at cetars.

Tonally, these nouns behave exactly like members of 5(*):

- S4(a) ézhiçbo e mái → ézhigbo mái genuine wine very good wine
 - (d) in a no oue unit (d)
 - (c) sbha # mirī ----- abha sīri
 battle mater mater bottle

They have been set up as a separate sub-class on the purely semantic ground that 5(a) and (b) deal with proper names where this sub-class 5(c) does not, moreover, phonologically members of 5 (c) form a set.

In the noun classification we have been discussing here in section 4.3, we have discussed only one-syllable or two-syllable nouns as if polygayllable nouns are non-existent in Igbo. The fact is that the tone changes being discussed here operate regularly with one-syllable and two-syllable nouns. For example, downsteps do not _mercily occur with

¹¹ Uilliamson, Key. "Some alternative proposals for Igbo Completive Phrase RESEARCH NOTES; Vol. 3, part 2 & 3, Dept. of Linguistics and Migerian Languages, Ibadan Rigeria, 1971 (p.87).

trisyllabic nouns, except proper names, as in oru Anyzmau (Anyzmau's farm).

They never occur at all with a word of more than three syllables unless such a polysyllabic word is also a proper name: Hence the following two examples:

No exceptions have so far been discovered with proper names (or parsonified nouns): Once the structural description is met, (is a sequence of highligh n where n > 3):::. expected occurstep on the first syllable of 2 the second or genitival noun will occur. This seems to us a sufficient justification for setting up a separate class for proper names and personifications.

■ Odoemene

With nouns of Tone classes 3 and 4 in first or pregenitival position (es, well as in Relative structures) one of those two tone patterns in 36(b) will always occur according to the dielect or speaker regardless of the number of syllables of the item.

The operation of this tone change does not depend on the number of syllables present, but on the nature of the adjacent syllables across word boundary.

In the following section (3.6), we shall exemine the application come of these Tone rules to Relative Clause formation in Igbo.

3.6 Relativization and the Tone Rules

In this section, we shall trace the transformational relationship existing between certain relative clauses in Igbo and certain NPs of the N * N structure which can be shown to represent a reduced form of these relativized clauses.

Examples of relative clause constructions in Igbo have been given in 2.4.2 and 2.4.5, although the basis for the distinction into Relatives A & B due to Green and Igue (1963) was not made very explicit. Briefly, Relative A represents that category of relative clauses whose formation does not entail any KP movement rule, while Relative 8 stands for those whose formation entails the movement of an NP from an object position to a subject one. As we pointed out in 2.4.2, in Relative A, all verbs, regardless of their tone class, have their stem on a downstep, whereas in Relative 8, only class I works have their stem on downstep, while those of classes 2 & 3 are on low tone. Were it not for this difference in the tonal behaviour of verbs in Relative B, it would have been unnecessary to distinguish between two categories of relative clauses in Icho, since a simple NP movement rule would be sufficient to relate the two. But since tone forms an integral part of Igbo syntax, this tonal distinction between the same verbs in the two categories of relative clauses in this language must be recognised as a valid justification for such a distinction into Pelatives & & B.

The following examples are given to illustrate this tonal difference. Relative ${\bf A}$

37(a) 0gu gare. shya. fee loro fee (vo.198 cl.3

- 37(b) Ekhé dhára elű ágbakhesle (vb ídhé cl.2) Ekha eho had a fall has recoverad.
 - (c) Onya ngru mai m ga akwú sugwo (vo inu cl.1)
 Whoever drank my wine will pay me the cost.

Reletive B

- 38(a) Ahya Ogu gara di uthi (vo iga cl.3)
 The market which Ogu went is far.
 - (b) Elu nkwu Ekhe dhare ehile. (vb idha cl.2)

 Height of polmiree which Ekhe fell is much:

 The oil polm tree from which Ekhe fell is rether high.
 - (c) Mai o họry na egbú ya (vb inu cl.l)

 The wine which he drank is intoxicating him.

Unile all the vorbs in Rolative A are on downstep, only class 1 verbs are on the same downstep in Relative B. Unly Relative A clauses are relevant in the reduction transformation which derives N + N from relative clauses.

It is the similarity between certain Igbo relative clauses on the one hand and certain NPs of the N \pm N structure on the other that we now want to examine in detail. It seems that such NPs are derivable from certain relative clauses via the Relative clause Reduction rule. As enexample, consider the following sentence - 39(a) and its transform 39(b) 39(a) Nwonyi reghe manu no nodo ya

The women who is selling oil is in her shade/stall.

(b) Nwanyi manu no n'oda ya The woman oil design is in her stell: The woman oil design is in her stell.

The above 39 derive from a deep structure such as is represented in Fig. 1.

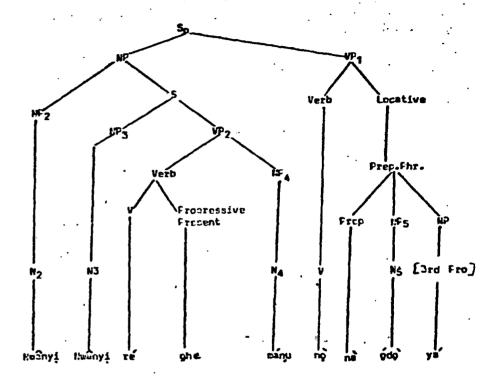


Fig. 1

Let us assume that the rules of Relative deletion, iffix hopping and the phonological rule of vowel harmony have applied to Fig. 1 to produce 39 (c).

39 (c) Kwanyi reghe many no na odo ya.

In order to become the injut to the Tone rules which produces the tone pattern of 39(s), the above 39(c) has to be decomposed into a set of

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phonological features by Tn-Rules 1 and 2; hence 39(c) becomes 39(d) with the boundary symbols introduced.

39(d) becomes 39(e) by Tone Raising Rule (Tn-Rule 4)

39(e) Nwa
$$\begin{pmatrix} +5 \\ +5 \\ +R \end{pmatrix} \begin{pmatrix} +5 \\ -R \end{pmatrix} \neq \begin{pmatrix} +5 \\ +R \end{pmatrix} \neq \begin{pmatrix} -5 \\ +R \end{pmatrix} \neq \begin{pmatrix} -5 \\ +R \end{pmatrix} \neq \begin{pmatrix} +5 \\ +R \end{pmatrix} \begin{pmatrix} +5 \\ +R \end{pmatrix} \neq \begin{pmatrix} +5 \\ +R \end{pmatrix} \begin{pmatrix} +5 \\ +R \end{pmatrix} \neq \begin{pmatrix} +5 \\ +R \end{pmatrix} \begin{pmatrix} +5 \\ +R \end{pmatrix} \neq \begin{pmatrix} +5 \\$$

As 39(a) shows, the first non-segmental low tone has been relsed ready for incorporation as the final high tone of the nominal Nwanyii. Thus, 39(a) becomes 39(f) by Tone Incorporation.

39(f) becomes 39(g) by Downdrift Rules

Observe here in 39(f) that, although the structural description for Metathesis rule (Tn-Rule 3) application has been met at two places, wire at

the rule has not applied in either case.

The rule must be blocked in Relative clause formation in order to ensure that downsteps are on the right syllables in eurface structure, that is at reghe; and for its non-application before many, it has to be recalled that many belongs to Tone class 5(c) — words beginning with the bi) bial reselful, which in second/genitival position behave like proper mans of Tone class 1 in having their downstep always on the first syllable.

Continuing the derivation, we derive 39(h) from 39(g) by the application of Tone Simplification iteratively until all remaining non-segmental low tones have been deleted.

Deleting the boundary symbols, one gets 39(c

- (i) Arabnyii reghe sony no no odo ya 1442 3 3 44 7 7 58 6

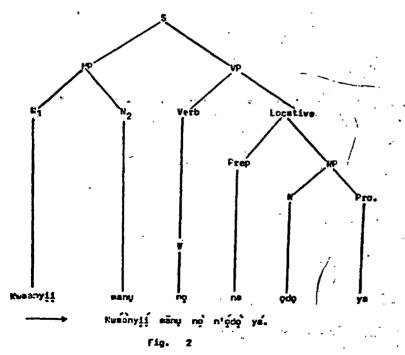
 By applying the ecrphene structure rule 2(s) (2.1.p.37) to 39(i), we derive (j).
- (j) kasanyii regho manu no no odo ya And 39(j) may be arthographically written as (k), which is the same as 39(s).
- (k) Swanyi reghe sany no n'odo ya.

 Sentence 39(a) or (k) above is a woll-formed lgbo relative clause. If

 we apply the optional rule of Relative Clause reduction to the above (39(k),

the output will be 39(1) thus:

The effect of Rolative Clouse Reduction is to delete the verb of the Relativized-sentence, leaving its object complement as a sort of attributive nominal, a fact which is better brought out in Fig. 2:



It will be observed that the output of a Relative Clause.Reduction rule is generally a Nominal structure in which the constituents have the

right tone relationship to each other. This fact provides a strong syntactic evidence in support of our claim that cartain Igbo N & W structures ere/product of Relative Clause Reduction. More examples of NP # NP structures deriving from Relative Clause Reduction includes

One who doels in goats A gost dealer

(b) Onye na ety eshi _____ Omye Eshi
One who tells lies A lier

(c) Only neers addid: _____ Only addid:

One who has patience A patient person

(d) Cnye na ezuzu nzuzu ____ Onya nzuzu

One sho is stupid A stupid person

(e) Onye ehi zuru chi ____ Onye ohi ehi¹²

person that who stola person of theft thet

that person who stale that Unief

(f) {Eádhý }tury eshi = madhý áshi

(a person who told a lie) A lier)

However; it is not always the case that the output of Relative Clause.

Reduction is a well-formed Igbo nominal structure of the N # N type.

As examples, consider the following Relative clauses and the corresponding N # N structures which derive from them wis a reduction rule:

*Onya shi shi ____ Onya shi shi 1 2 3 ____ 1 32

In structures such as Cinye chi ehi. One chi is taken as a unit of structure which is being modified by chi. The same is true of the Relative Clause Nackho chi [วันาน chi]

Rel.S. Rel.S where the Rel. Clause modifies the Kom. structure | Nuckho only that men.

¹² The Demonstrative item, a shi this/that, is always the lest element of a Nominal structure. So in order to derive Dnye oni eni from . Dnye eni žūru oni, in addition to the Poletive Clause Reduction rule, one has got to seitch round the date iner element thus:

41(a) Reality term equipment the first special state at the second secon

" who is proud . . . proud lbe

Ugo who does petty trading

Ugo the petty trader.

In the exemples 41(a)-(c) - that is Nominal Structures involving

Nouns of Tone Class 3 and 4 in addition to Relative Clause Reduction, one
has got to apply some other Two adjustment transformations in order to
get the right surface structure.

In 41(a), we suggest that a Clice Reduction rule is one such Tone change necessary: By this proposed rule,

Mesnyli d ogʻologo _____ Kusnyi oʻgologo

Conditions The Sentitival Moun must begin with a high tone - that is

$$[\cdot] \longrightarrow [\cdot]/ [:]$$

In 41(b), the Clara Feruction could be formulated those

Here it is important that the high tone resulting from a reduced glide be immediately followed by a sequence of two low tones, after which any other tone may follow.

Example: Ugo naccia: Ugo the crusher or smasher

Apart from exceptions like those given and discussed under 41(6)-(c), Relative clause Reduction with Gaye or such Tone classes as 1 and 2, and 5(c) nouns in pre-positivel or first position will generally result in an MP of $(N \neq N)$ structure with the appropriate tone pattern at the surfaces Examples:

42(a) Neokho na čec újstalama manas neokho ughelasa. A san eho playa tricka — A tricky sen

- 42(b) Once no ene afo one Once Once Once Sind person

 A person who has kind disposition a kind person
- (c) Mádhughá neáre oblebere ... Mádhughá chiebere ... Mádhughá cho has a kind heart ... Kind-hearted Madhugha
- (d) Neokho na štu ujo —— Neokhō ujo

 A man sho fears —— A comardly man

There is no doubt whatsoever that Relative Clause Reduction is a prolific source of the so called Igbo Cenitival structures.

The implication of this finding is that Igbo derives NPs of N # N structure through the same process which in Indo-European languages yields NP # Adjective structures, and this raises the question as to whether there is any lexical category Adjective in Igbo. This question is not pursued any further here since it is not within the accept of our investigation in this thesis.

SUBMETY

In this chapter, it has been demonstrated that the phonological rules as given in Ibadan Research Notes (1971) coupled with the modifications which we have shown to be necessary will generate all the permissible tone patterns in Igbo nominal constructions, whether the structure is of the NIFN2 type, or of a complex nominal of an NP and a relative clause. That these phonological rules have been geared to capture is the tone changes due to some basic syntactic relation as well as to other features of Igbo phonology. There there is no difference between base and surface forms, no rules have been given to state this, or rather, the rules may be seen to have applied vacuously.

For the purposes of stating the Tone rules, Igbo nominals have been classified into 8 sub-categories thus:

Class 1(a) - high-high - anyo 'eye'

= 1(b) high - Ci 'God'

2 - Ice-high - oku "zet"

Class 3 - high-low - when 'broadfruit'

* 4 - low-low - als 'ground'

* 5(a) high-high - proper means

(b) high-high beginning with the syllwbic mass! /a/ - mai 'wine'

(c) high-low proper names

The surface tone patterns of these classes of items have been illustrated in section 3.5.

from the illustrations given in 3.5, the following facts emerge:

- (a) Relative clauses and generally attructures which requirs one of their items to incorporate a non-segmental tone, must have two non-segmental low tones in underlying phenological form, unless the item in question is a monosyllable, in which case only one non-segmental low tone is necessary.
- (b) Nouns of classes 5(a-c) in second position constitute an exception to the rule of Metathesis (Tn-rule 3) even though they meat the atructural description for it. This rule has to be blocked to ensure that the downstep is on the right sylleble. The same situation obtains with relative clauses shose werb-stem is on a downstep in relation to the immediately preceding high tone of the nominal.
- (c) In order to derive Igbo NP's such as ala lbe from als a lbs .

 it is necessary to add an extra rule of Tone Reduction (Tn-Rule 9)

 which is similar to, though not the same thing as Tone

 Incorporation (Tn-Rule 7).

(a) From the foregoing, the similarity between MPs of N1 N2 structure and relative clauses is very obvious, a fact which explains why the tone patterns of both types of nominal construction can be generated by the same sat of Tone rules. ~

CHAPTER

Theoretical Orientation

4.8.0. The Grammatical Model and its Fodification

The grammatical model on which this thesis in general is based is the revised version of Aspects model known as Extended Standard Theory, (EST). But the nature of Ibbo has dictated certain necessary modifications of this theory so us to allow it to describe the data concerning complementation. Since the explication of complementation is the topic of this thesis, the modifications are important and fundamental, because they constitute a slight departure from EST and a movement in the direction of Generative Sementics although we do not make any of the big claims associated with this brand of T.G. auch as the claim that Deep structure is sementic. These departures from EST concerns

- (i) The specification of Complementizers in deep structure, and the justification for it is given in 4.3.0.
- (ii) The derivation of Pseudo-Eleft sentences from complement structures. The Pseudo-Eleft rule is a meli-established transformational promess, being a subset of the rules needed in Focus and Topicalisation. Its application to Igbo complement structure (of p. 261 ff) yields an output with the structure of a relative clause in which the sentence-initial proform Ye is replaced by how. The substitution of how for Ye is structurally determined, as we argue on pages 244 ff. We describe this substitution as a kind of norphophomenic rule since it occurs at a superficial level of structure just before the application of relevant phonological rules.
- In Igbo, Ya and nee have a distributional relation (11) similar to that between some and any in English. Any accurate description of Tobo complementation must account for the fact that there is a transformational relationship between complement constructions and their Pseudo-Claft counterparts. Such a derivation may belong more to the theory of Generative Semantics than to Established Standard Theory, but we feel that a strict adherence to EST is bound to obscure certain important facts of Icbo, namely that a transformational relationship can be very easily established between complement constructions and their Fseudo-Cleft counterparts. This syntactic relationship must not be given up in favour of a principle which argues against lexical insertions at any other than the geep structure, especially when one realises that such a principle has been arrived at solely from the facts of Indo-European linguistics.

(iii) Derivation of Relative from Complement Structures

It will be seen from the above account that the derivation of relative clauses from underlying complement structures is a syntactic fact of the language for which no epology is needed. This topic has been discussed on pages 261-69. Then we invoke the hypothesis of 'Target Structures' on page 265 to try to account for this syntactic phenomenon, we do so because a comparable situation has been observed in Yoruba, a Kea language just as Igbo is (cf. Asoyale 1974). The occurrence of this syntactic phenomianon in two typologically similar languages implies that it may not be random or isolated, nor should it be described on the analyst's artifact. Again this derivation may not be strictly in keeping with EST, but the facts of Igbo call for it.

(iv) Nominalisation of Factive Enoplements

Similarly, the nominalisation of a functive conclement structure in Igbo yields a relative clause. Again, this is a syntactic which any accurate analysis must record, (of pp. 267 ff.) Such relative clauses are the Igbo equivalent of the English expression 'the fact that' Thus, when an Igbo speaker uses the following 1 (e)

1 (a) Ohi Ogu Zuru rutere in Theft (which) Ogu committed pained me.

The fact that Ogu stole pained me. Constructions such as the above are like other relative clauses in Igbo, but it is nevertheless necessary to show that they are transformationally related to factive complements in the language via the process of nominalisation.

Let us illustrate the process with the following 1 (b) as the derived sentence from which 1 (a) is itself derived:

1 (b) Na Ogu Zuru ohi watere mi That Ogu stole theft pained me: (The fect) that Ogu stole pained me.

Fig 1 is the structure underlying 1 (s) and (b).

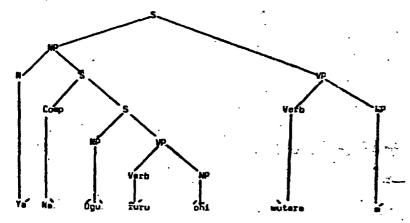


fig. 1

From the above, we derive 1 (c) by obligatory Ye Deletion:

- 3 (c) No Úgu Súru chi suiters á
 - 1 (c) is represented by Fig. 2

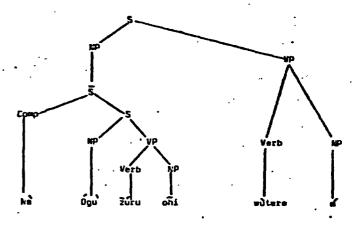


Fig. 2

From Fig. 2 we derive Fig. 3 by optional Relativization which entails in this case

- (i) The object MP Movement Rule (of p. 267)
- (ii). Comp Deletion, and
- (iii) Tone Rules (phonological)

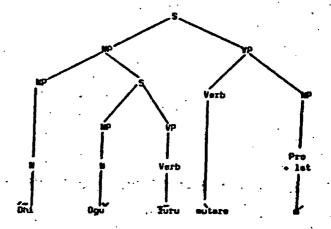


Fig. 3

The application of the relevant Tone rules to the surface structure shown in the above Fig. 3 yields the well-formed 1(c) which is the same as 1(a).

1 (d) Oni Ogu Zuru wuters a

Theft which Ogu committed pained was The fact that Ogu stole pained.

Note that what the foregoing process shors is that one type of complex NP can be derived from another type; in this case, a relative clause type has been derived from an underlying factive complement type. This process is consistent with the grammatical model being used here, in an far as transformational rules are alloced to alter structures, but not meaning.

It has been argued that, since that subject AP of sentances such as 1(a) can be any nominal item, they should not be transformationally related to complement structures. But it needs to be emphasised that relative clauses do not subcatagorize werbs as complement constructions do. What is involved here is complement-taking verbs: if such a verb is factive, then its complement can be nominalised to yield a factive relative clause. Any accurate account of light complementation must recognise this fact, even if it means some deviation from the principles of EST.

(v) Icho Equivalents of English EH-Clasticus i.e.

-- Kedy Cuestions

We divide this category of questions into

- (a) The Periphrastic Form (with Kesy in Surface form), a
- (b) The Non-Periphrastic Form (sithout Kady in Surface form.)

All Igbo Kedy Questions of the above (a) type contain relative clause ee RP. This is a syntactic fact of the Igbo language, which can be very easily varified by examining the process of relativization in Ig:

But we do not go into such an examination since relativization is not, strictly speaking, relevant in EP complementation. Unst se do on pages 345 ff is to relate the above two forms transformationally in a memor which is both systematic and consistent with the modified version of <u>Aspects</u> theory that we are following in this themses.

Observe that the rules central to relativization in Igho are also involved here.

(vi) The Use of Dummy Symbols

The Aspects model also allows for the use of Ducmy symbols, which serve as a trigger for relevent transformations, hence the use of Imp(erative), Cond(itional) and Q in the PS- rules. But their use here has been limited to non-embedded structures. In embedded, structures, their use sould be redundant since the specification of the relevent complementizers in deep structure, (cf 4.3) provides all the necessary and sufficient information about the type of structure embedded. The Dummy symbol, is generally deleted after it has triggered the relevant T-rule. In terms of the deep structure sentence modes which this analysis entails, the process may be seen as another modification of the Aspects theory.

(vii) <u>Conditional Constructions</u>

In -2.D. (pp 279 ff) ce treat 1gbb conditional constructions with respect to Emotive predicate complementation. Of the two sub-categories of conditional constructions examined, only one sub-category - the Open Conditional Constructions - is involved here. It is only in this sub-category that the frozen expression A sil / Ya wuru (if) can be optionally deleted; it is also here that the complementizer on may be deleted provided that the tense constraint (of 299) is satisfied.

Because of the semantic equivalence of the pairs of variants, it is necessary to postulate one underlying structure for all open conditional constructions in Igbo, and thus show that surface differences are due to the optional deletions in question; examples 53 (a-k pp.259-300) illustrate this fact.

On pages 314-16 , we have argued a case for the transformational relationship which we establish between the following pairs of sentences which have paraphrase relationship:

2(a) Ya wuru ma nadhu mevoo onze ya nº ona, O jospuru

If a man should disgrace himself in public, it is very bad.

2(b) Madhu inevo onwe ya n' cha igiburu onwe ya: for a

nan to disgrace himself in prublic is very bad.

We uphold the constraint (suggested by Katz & Fostel (1954) that transformations be meaning-preserving. For us, then, semantic equivalence is a necessary, though not sufficient condition for trying to establish a transformational relation between a pair of sentences. However, if we can establish a transformational relation between a pair of semantically equivalent sentences using one or more of the well-established transformational process, we feel justified to do so provided that our method is systematic and devoid of tinkering. This is what we have done with regard to sentences like 2(a) & (b) (of pp. 304-9).

It has to be recalled that Igbo is an entirely different language from English, and that the aim of this research is not to produce an enolysis which is a mere translation of English greezer into the Igbo language. The two languages differ, and so must their respective analyses. Expectedly, Igbo conditional constructions differ from their English counterparts, and their analysis must not be judged against the background of English.

the enelysis presented here is the first attemptionary
knowledge, to apply the transformational generalize material and the process of complex sentence formation in Igbo. Discussional process of complex sentence formation in Igbo. Discussional process of complex sentence formation in Igbo. Discussional complex sentences of a pioneer work. But communicational analyses are suggested in future, it is thought that measure is kindly to remain a viable alternative. It is only by giving anacommunication analysis of the linguistic data in the description of such communication to linguistic theory.

Lyons (1970) summarises this transformational menorities across thus: "As described in Aspects, the grammar of a language term grammar must be taken in its sidest sense) consists of must east of rules: Syntactic, Semantic and Phonological. The syntamum response generate the sentences of the language assigning the menorities underlying Phrase Earker and a derived Phrase-Earker. The semantic of the sentence is derived (sainly, if not shally) from the structure by means of semantic rules of interpretations and the phonetic realisation of the santence derived from this mentions by seans of Phonological rules" (p. 124).

I For a full discussion of the inedequacies of the Assumentancy and proposals to recedy them, see Choosky (1972) INITED TO SERRATICS IN GENERATIVE GRANTER, Eduton, The thomas. The thomas essays that make up this book are concerned mith the sames of deep structure in a transformation promar, as mediantees unables of semantic interpretation. The essays reach the manner and the level of deep structure in the sense of the Assumentance to be postulated, and that such aspects of meaning measurement determined from deep structure must be accounted from pythine rules of semantic interpretation.

The syntactic component of this grammer is made up of three sets of rules, namely

- (i) Base Rules
- (ii) Lexical Insertion Rules and
- (iii) Transformational (T-) Rules

4.0.1 Base Rules

The base rules together with the lexicon (to be discussed in 4.0.3) form the base of the greener which is itself a sub-component of the syntactic component. There are two kinds of base ruless

- (i) The Phrese structure (PS-) Rules and
- (ii) Rules forming complex symbols (CS) on major lexical items.

 PS-Rules or Branching Rules are of the form

where X and Y may be null. If null, the rules are context-free (cf).

If, however, they are non-null, the rules are context-sonsitive (cs),
and the above rule means: rewrite A as B whenever it is preceded by X
and followed by Y. All our PS-rules are of the context free type.

4.0.2 Rules forming Complex Symbol on Major Lexical Categories

Rules forming complex symbols on major lexical categories N.

and Det (though Det is not a major lexical category) are not ordinary

PS-rules but elementery T-rules of some sort, or 'local transformations

(Chomsky 1965 pp. 98-99). There are two types of rule forming CS on

major lexical categories. First, we have the context free rules which
introduce inherent features such as

[+ Animato], [+ Count] at ceters.

The second kind of rules are context-sensitive, and they are of two types

- (i) Strict sub-categorisation rules, and
- (ii) Selectional restriction rules.

 Strict-subcategorisation rules are of the form

Selectional Restriction rules "subcategorise a lexical category in terms of syntactic features that appear in specified positions in the sentence; they are of the form

where $d \not = 0$ are variables ranging over a set of specified features. Thus, if + A is +V and $d \not = 0$ is N, and $d \not = 0$ is also N, then the rules abbreviated by the above schemata state simply that each feature of the preceding and following noun is assigned to the varb and determines an

Selectional Restrictions have come under severa criticism from generative semanticists. For example, Ec Cambre (1970) argues that

appropriate selectional subclassification of It (Chomsky 1965 p.97).

- (i) Selectional restrictions have no independent status in linguistics, whereas Chowsky (1965) employs them as a form of constraint on deep structure which, for generative semanticists, is not a clearly defined level as it is in Aspecta;
- (ii) Selections, restrictions are predictable from the meaning of the lexical items in question;
- (iii) Many of the sc-called selectional violations do, in fact,
 correspond to "possible mesanges" in possible worlds.

 Ec Cawley, therefore, concludes, rightly it seems, that the deviance of sentences arising from the violation of the so-called selectional

restrictions is in fact a consequence of extra-linguistic factors in the context of situation. (Ec Cawley 1970 pp 166-168). If selectional restrictions are seen as the semantic property of loxical items, then the need to analyse them as a syntactic constraint will cease to exist. It happens that certain property or features of lexical items may have certain syntactic reflexes. For example, the application of Equi-NP deletion happens to be sonsitive to the specific property of certain verbs being forward-looking. This is a semantic property which has corresponding syntactic reflex. Kempson (1973) argues along similar lines in a University of London Ph.D. thesis (p.8).

4.0.3 The Lexicon

The Lexicon in a transformational grammar "is a set of loxical entries, each lexical entry being a pair (D.C), where D is a phonological distinctive feature Eatrix 'spalling' a cortain lexical feature, and C is a collection of specified syntactic features, a complex symbol" (Chomsky 1965 p.84). In addition to phonological and syntactic features, the lexicon will also contain the following incurration:

- (a) features populiar to a formative which can trigger a transforma-
- (b) relevant features for schantic interpretation ` In our sample lexicon, we are primarily concerned with syntactic and semantic features.

4.0.4 Lexical Insertion Rules

The PS rules generate strings consisting of grammatical formatives

(for example, past, C at cetera. To derive a <u>terminal string</u> from

preterminal strings, a lexical Insertion rule of the following kind is
required:

"If Q is a complex symbol of a preterminal string, and (D,C) is a laxical entry, where C is not distinct from Q, then Q can be replaced by D" (Chossky op. cit. p. 64).

This rule permits lexical items from the lexican to be inserted into the

preterminal string generated by the PS-and subcategorisation rules "if the markers in the lexicon for that item and the markers in the complex symbol under the particular node do not conflict. (Grinder and Elgin 1973 p.129). As Seuren (1969 p.38) observes "one notices that this lexical rule is not so much a rule as a rule schame: it is a cover formula for a large number of individual rules, each of which would apply to a particular complex symbol and a particular lexical item." The formal abstract structure generated by the base rules plus lexical inserting constitute the deep structure of a sentence and may be represented in the form of a tree.

4.8.5 Transformational Rules (T-rules)

T-rules, like PS-rules, are ro-write rules. But they differ from PS-rules in certain essential respects, for while "PS-rules operate on aingle symbols without being shie to take into account any other symbols from which they have been previously re-written, (their derivational history), T-rules operate on P-markers", (Souren 1969 pp.29-30) generated by the base-rules and lexical insertion rules, changing these P-markers into 'derived P-markers. A surface P-marker is generated when no more transformations need apply to a P-marker. Stockwell et al (1973 p.14) give an adequate account of T-rules, which is quoted in part below:

"Transformational (T-) rules change underlying P-markers into derived P-markers. That is, the rules effect a restructuring of trass.

Each T-rule consists of

- (i) a structure Index/Description (S1)/(SD)
- (ii) * * change (SC)
- (iii) " set of conditions.

The SD/S1 indicates the set of P-markers to which the transformation can apply, hence it is stated in terms of PS-symbols (ag #, MP, Dot. etc), syntactic features (eg + def , + loc etc), morphemes, and a variable X, which stands for an arbitrary string of symbols.

The SC indicates the restructuring which the T effects.

Transformational operations include, among other things, such elementary operation as Deletion, Substitution, Adjunction and Permutation.

A Sister Adjunction rule, for example, can be formulated as follows:

where X and & are variobles, possibly null,

XARCY, an underlying P-marker, and conditions,

if any, specified.

The cutput or derived P-marker will be XSCAY. Thus, a transformation definus a relationship between a pair of successive P-markers by altering the underlying or sub-sequent P-marker in one way or another.

Optional/Chlinatory Rules

Transformational rules are either optional or obligatory. Optional transformations may or may not apply even though the relevant structural description has been met, but an obligatory transformation must apply once its structural description has been met and relevant condition/conditions satisfied. An obligatory T-rule may, however, be blucked where the deep structure is ill-formed, or underlies no sentence of the language under description. This is done by means of deep structure constraints (cf 4.0.7) In this way, a transformation may act as a 'filter' to ensure well-formedness, (Chomsky 1965, p. 139).

4.0.6 Explanation of Linguistic Terms

(i) Derivation: There Ps-rules are applied sequentially, a derivation results, as in <u>PS-Rules</u> <u>Derivation</u>

(ii) Tree Any derivation is convertible into a tree as in



(iii) Lahelled Bracketing as in 5 B D C F G

Tream have been used here for illustrative purposes only, while labelled bracketing is used in the structural description of transformation.

(iv) <u>Dominance</u>: A string of symbols which is uniquely traceable to a single symbol <u>y</u> is an x. Thus, in (ii) F.C is a C, and BC is an S. In (ii), D, F, A C are strings in an S, therefore they are said to be dominated by or under the dominance of S. Bocsuse there is no intermediate symbol between S and R & C, B & C are said to be immediately dominated by S.

Within structures of immediate dominance, there are four particular relations which have been used hore. "A is left (right) sister of B if both A and B are immediately dominated by the same node and if A is left (right) of B, there_being_no node in between them, wiss_

(v) Left Sistor

Right Sister





. A is left (right) daughter of M if M immediately dominates A and there is no node dominated by B to the left (right) of A. Viz

(vi) Left Daughter

Right Daughter



(Stockwell at al 1973 p.13)

4.0.7 Deep and Surfece Structure Constraints

Parlicutter (1971, p.x1) has shown that along with the T-rules, a grammar of a language can have an additional machanism for getting rid

of ill-formed sentences. The mechanism is called deep structure (DS) and surface structure (SS) constraints. DS constraints are defined as "mall-formedness conditions on generalised phrase markers that apply prior to the application of transformations and 'filter out' certain generalised phrase markers generated by the base as ill-formed. The need for such constraints, according to Perlmutter, is to be able to handle certain cases of ill-formed phrase markers generated by the base component, where such ill-formed P-markers cannot be characterised by the blocking of obligatory transformations. These constraints have not been found necessary in our analysis.

Surfece structure constraints are also mell-formedness conditions, not on deep structure, but on the output of the transformational sub-component which, together with the base, constitutes the syntactic component of grammar. We have had no need for these constraints.

4.0.8 Semantic and Phonological Ecoponents

These components are not contral to the grammatical analysis presented in this thesis, consequently, we have not treated them in any detail. Eg do, however, devote chapter 3 to the discussion of tone and the tone rules that generate the various tone patterns required by different nominal construction types in the language. We do so because tone is the mediating factor between syntex and phonology, and certain tone rules in Igbo must refer to specific grammatical structures, though the tone rules themselves belong to Phonology, a fact which shows the inter-relationship of grammatical components.

The semantic component is interpretive in the sense that the rules of this component depend on the semantic specification of lexical items in the lexicon and the syntactic information provided by the underlying structure of a sentence, (of Bierwisch 1969 & 1971).

The fect that this model distinguishes between two levels of deep atructure and somentic representation marks the point of departura between interpretive syntax on the one hand and generative semuntics on the other.

4.0.9 Interprative Syntex Morsus Generative Sementics

Generative semanticists (To Expley, Lakoff and Postal and others)
reject the new familiar dichotory between deep structure and semantic
representation; the question whether there is a level of deep structure
distinct from semantic representation is for them a fundamental issue.
for them, too, the mapping which relates surface structures to semantic
representation is effected by one type of rule-derivational constraints and grammatical transformations, escentially as defined in Extended
standard theory, form but a subcase of these derivational constraints.
Che of the claims of generative semanticists is that semantic trees are
not different in kind from syntectic trees.

It is, however, necessary to justify a level of syntactic deep structure from purely formal grounds without any recourse to sementics. for example, Chomsky (1969) has provided evidence that a syntactically defined concept of deep structure as in <u>Aspects</u> (1965) provides a natural secount of the distinction between derived nominals such as <u>destruction</u>, <u>belief</u>, <u>death</u> etc. and the corresponding gerundive construction. He has shown that gerundives are sentential in origin, while derived nominals are not. Kempson (1973² pp.11-23) also argues for the maintenance of the distinction between syntax and semantics for the simple reason that "the constraints on syntactic structure are not co-extensive with those of semantics."

Uithin the generative scannics theory, lexical insertion can take place after the application of certain transformations, an aspect of the theory which makes it incompatible with Extend standard theory, for the

² A University of London Ph.D thesis which has been published by Cambridge University Press under the title <u>Presupposition and the Delimitation of Semantics</u>.

latter requires that all lexical insertion be pre-transformationel. As an example of pre-lexical transformation, Mc Cawley (1971) cites the rule of Predicates - Raising shich creates complex predicates from elementary ones. Such a rule, it is claimed, produces kill from the following elementary predicates (cause (become (not alive))) and remind from (strike (similar)). It is the case that this rule does not produce in English derived verbs which are bimorphemic on inspection, although the output of the same rule is bimorphemic in some languages such a Japane sa.

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In Igbo, as in Japanese, there is a host of compound warhs which are clearly bimorphomic in structure, but whother they are the product of morphological lexical compounding or of Predicate-Raising remains an open quostion. However, there is yot a second category of compound verbs analysable as V-stem + suffix, an analysis which argues in favour of morphological/affixal derivation. Since the analysis of this category of compound werbs must be related to the analysis of V-stem + V-stem compound works in the same language, it seems that the over-all consideration of Içbo grammar would favour a derivational, morphological approach rather than the transformational analysis via Predicate-Raising.

The following are examples of the two categories of Igbo compound warbs:

Compounds of two verb stems

from	įųń	to drink
and	írò	to cross, pass, exceed
from	Íso	to do
end	izu	to be complete
from	imo	to de
and	ihye	to be wrong, crooked
from	į10	to return
bna	ian_	• reach, arrive
	and from and from and from	and ife from ime and izu from ime and ihya from ilo

Compounds of a Verb stem +

ibhata 2(0) * to get injo

Taoche (b) to finish doing, conclude

suffix igafu (c) to be able to go

suffix ineve to start doing, commence

Throughout this thosis, we have maintained the existence of a deep level of analysis distinct from semantic representation, a level where categorial relation and order of constituents are given/along with information necessary for semantic interpretation which cannot be predicted from other elements of structure nor accounted for by late rules of sementics, as suggested by Chomsky (1972). One such item is the complementizer, the doep structure specification of which is justified in 4.3. Thus, the dots have always shaped the analysis, and no attempt has been made at any stage to force Igbo lenguage data into a descriptive mould that may not necessarily rit it.

4.1.0 Categories of Igho NO Complements: The No "ndicative Complements

The following, Igbo sentences contain instances of structures traditionally described as Noun clauses and phrases, collectively referred to

idhabha to enter, get into 'to fall into'

told, greb (b) ibhadha ibha. from to fall idha. to throw as in wrestle' and

³ For a detailed exposition of Predicate-Raising, see Bo Cauley 1971. "Prelexical Syntax" in Econograph 24. Georgetoen Sories on Lenguage and Linguistics, and Postal 1970. "On the Surface Verb 'Remind'" L1 1, pp. 37-120.

here as Noun Phrase (NP) Sentential Complements:

- 3(a) Ogu gwara anyi (si) na ule qawu aci

 Ogu toid us asying that exam will be tomorrow:

 Oou informed us that the examination would take place tomorrow.
- (b) Njoku kwuru (si) na ahya aqachaala

 Njoku said (seying) tint market po complete haves

 Njoku said that people had all gone to merket.
- (c) Unumgboto tiri mkpu si na als aruols

 The young unmarried girls shouted shout saying that land has defiled.

 The young unmarried girls shouted out that the land had been descrated.
- (d) Ozhi oma kwuru (si) na imunanya di mkpa nactiti umumadhu Gospel says (saying) that love is important in midst of peoples

 The gospel says that love is necessary among men.
- (e) Na nshi ji agbu madhu werm anya.

 That poison does kill person accustoms eyes.

 That poison kills is obvious.
- (f) f yiri na onye owula oa akwa ama n'Orukwu

 One scheduled that person who it be will clean road on Orukwu merkete

 It is acheduled that everybody will clean the roads on Orukwu merket day
- (g) Ekzera m nkhwa si ana m inucha gowen dulm eci.

 Promised I promise saying will I drink finish medicine this reach
 tomorrow: 1 promised to finish drinking this medicine by tomorrow.
- (h) of were und enym na of yo once onyi

 It accustom you(pl.) eyes that he is person of thefts

 It is obvious to you that he is a thief.
- (i) Unu wa na nuaanyi shi neuru anwu?

 You know that woman that died?

 Do you know that that woman died?

- (j) And a els anys no o ge sbys

 Am I looking eye that he will come: I am expecting that
 he will come.
- (k) 0 mu hwa ihwera maina emw leethi uboci niile

 It is thing of shame that you do make late day alls

 It is shameful that you always come late.
- (1) O nutere m na o ru onye spari.

 It pains me that he is person of stupidity:

 It pains me that he is en idiot.
- (m) Icofute na 0 suhii onye szhi-oksu na agbasa m obi

 Finding out that he is not person of truth does break me heart:

 Discovering that he is not an honest/truthful person causes me heart-break.

In the foregoing examples, the NP mentential complements have been underlined. In all these examples, no is the complementiaer which may be optionally preceded by si, hence the above sub-heading - Na NP Complements. Although si is an optional element in these examples, it can be used alone as the complementiaer in place of ind. This is what happens in colloquial usage in this Eximihitta dialect, as the following 4 shows

- 4(s) Ekwuru hi si unu wu nde mwegbu madhu Said they szying you people are the ones of cheating people: They said that you people are a dishomast lot.
- (b) O tiri si sys sneuons.

 He shouted saying he has died: He shouted that he is dead.
- (c) 0 cere si em noro ys

^{4 (4}b) is a cry of indignation by a person who feels humiliated and helpless. 'Anationam' simply means '1 am deed or finished; if I were a man, 1 would not tolerate the situation.

⁵ The form of pronouns used in examples 4 & 5 is the emphatic form which is generally associated with reported speech.

4(d) 0 nuru of <u>agi</u> kwu no ndi gbare ye ass.

He heard that you are among those who betrayed him.

Compare the foregoing with the following examples which show varying degrees of colloquiality:

5(*)	0 kwuru	si	กล้	áyà	ga.	abya	(very for	 1

He said that he would come

The form of the pronoun in 5(d) is due to regressive assimilation which has been fully discussed in 2.2.1.

It is because si is substitutable for me in the everyday usage of Ezinihitte speakers that a complementiser is rarely, if ever, optional in NP-complements in the dialect. The behaviour of the complementiser si in Me complements is typical of its behaviour in all other categories of NP-complements in the dialect: it can be substituted for any complementizers of dealect. This unique characteristic of si will be examined in 4.1.5.

In this catagory of complements, there is no restriction whatsoever on the tense that can accur in the verb of the lia clause. This is because the matrix (main clause) verbs involved here do not impose any tense constraints on the verb of the embedded complement sentence. Such matrix worbs include verbs of saying, hearing, thinking, feeling, fantasizing and declaring generally. These are verbs which state some facts about the speaker's knowledge of the world around him or make some claim about the truth or falsity of the propositional content of their complements. We complements have almost the status of independent sentences in the sense they make assertions and claims just like independent sentences without any restrictions on the form of their verb. It is for these reasons that We complements are described throughout this thesis as Indicative or Declarative complements.

The matrix verbs involved in indicative complementation have
embedded under them sentences in which pronoun subjects are on high-tones
if they are sonosyllabic, or high-low tones, if they are disyllabic. The
following examples illustrate this fact:

Ibe	81909#	nnà	yó	anya	กอ้	'	₽Ů.	onye	na	ékpe	üdh
				·		i,					
						ó,					
						en;	yí e	ū nd1		_ :	
				•			•	•			
			_					i odi			

lbe ande accustom father his eyes that I/you/he/she/etc be person who makes peace:

The convinced his father that I am a person who makes peace.

he/she is

we are people who make peace

. you <u>eta people</u> who make peace

they (inclusive) are people who make peace they (non-inclusive) are people who make peace.

We shall contrast the tone patterns of these pronoun subjects in this complement type with their tone patterns in the next category of complements - the luterrogative (Yes/No Question) complements.

Two forms of third person plural pronoun have been used here to distinguish between the inclusive and non-inclusive meaning whenever a third person subject is present in the matrix (main) sentence. Thus, we have the inclusive form hi/ha and the non-inclusive form umu, as in the following sentences:

⁽a) Đgủ số hị gawe ngeanges Đgu soid that they (including Đgu) should set out quickly.

⁽b) Ogu si umu ດຸກັສລ໌ ngoangus Ogu said that they (excluding Ogu) should set out quickly.

4.1.1 Ma2 Interrogative (Embedded Yes/No Quastion) Complements

Now, let us examine the following examples with special attention to the tone patterns of the pronoun subjects of ma2 complements and the semantic properties of the matrix (main clause) predicates:

Ogu knows whether I have money or chether I have not:

B(s) Eceghokus = ma unu ga ejhe

(1)

Think am still I whether you will go: 1 am still wondering whether you will go.

- (b) Juo ya ma Ogu neity aney n'ezhi-okeu

 Ask him whether Ogu died in truth:

 Ask him whether Cgu actually died.
- (c) Geré enyi me nine gi wu onye nahi.

 Tell us mhether fether your is person of poison:

 Tell us whether your father is a poison maker.

In contrast to the examples of 6, all pronoun subjects in this complement type are on low tones. (We have deviated from our tone-marking

convention - which marks only the first of a sequence of towns on the same pitch - in order to emphasize the low-tone patterns of pronoun subjects in we interrogative complements). Again, in contrast with the matrix verbs in Ne complements, all of which admit an optional si morphese only a handful of me interrogative complements do parmit si to precede me.

The verbs which may take a preceding si before me include:

iju to ask
ice to think
ikpo to assume, wonder

Thus, we have the grammatical and acceptable sentences of 8(d-f) with or without mi.

- 8(d) Ajugha m (si) mà o no noura .

 Asking am I whether ha is in sleeps I am asking whether ha is esleep.
- (e) Eceni hi (si) me enyi wu ndi ujo

 Think they whether me are the ones of fear

 They are upodering whether me are coverds.
- (f) I kpc (si) me m my obiri gi?

 You think whether I em age mate of you?

 Arm you wondering whether I am your age?

It is possible that there may be one or two more interrogative matrix verbs admitting of an optional \underline{si} , nevertheless, it is true to say that the great majority of them do not.

Igbo Equivalents of Embedded English wh- Questions

The following 9(a)-(f) contain the Igbo equivalents of English

Th- questions, they are embedded as NP and the relevant clauses have been underlined. They are not NP complements, but relative clauses, as we shall show in chapter 7 where this clause type is examined in detail.

a(e) Ipe deste suhi (od.e) o de spas

. The told us (the time) when he will come

- (b) Anyi kweshiri imo obe o shi

 we ought to know place he come from:

 Se ought to know from where he has come.
- (c) Kedu hee <u>Oqu kmuru?</u>

 What (is) thing Dgu said: What is it that Ogu aid?

 What did Ogu say?
- (d) Gmá m hez <u>oke riri</u>

 Tell me thing rat ster Toll me what the rat ste.
- (e) Ogc m neokho juchare a otho i di Inlaw my male asked complete me manner you aras My father-in-lew asked me how you ara.
- (f) l' ma $\left\{\begin{array}{ccc} \tilde{v}z\tilde{o}\\ \tilde{o}tho \end{array}\right\}$ $\frac{\tilde{m}}{\tilde{t}}\frac{\tilde{t}\tilde{r}\tilde{t}}{1}$ més $\tilde{v}\tilde{o}$

You know way/manner I used do its You know how I did it.

All that we want to point out at this stage is that the above underlined surface structures are relative clauses with nominal heads, rather than RP complements which they may appear on the surface.

4.1.2 Ka/ma Subjunctive Complements

This category of NP complements is characterised by the following underlined constructions:

- 10(s) Acorc o (si) kn anyi qas nioqis

 Bent I that se go in time:

 I mant us to be in time.
- (b) Ogu coro (sí) ka ya ris hee fee than
 (c) iri hee a

 Ogu mente that he (Ogu) set thing early todays

 Ogu ments to have his mesis early today.

- 10(d) Ekhao m (si) ma onyi hau ya bya
 Hava in mind I saying that we see him (and) comes
 I have come so that we may see him.
 - (e) 0 nyers = eirī (si) ke s nuo

 He gave me water that I drinks

 He gave me water to drink.
- (g) Anyi gawara n'utútů sí ma anyi gadu

He hurried up so that he (somebody else) might est.

The set out in the morning' saying that we reach

n'uhuru ci anyaasu

in bend of day of night: De set out in the morning so as to

reach in the evening.

(h) Byakes for $\left\{\begin{array}{c} ka\\ \end{array}\right\}$ I nyere m ake $\left\{\begin{array}{c} ma\\ \end{array}\right\}$ Come do early that you give me hands

Do come early so as to give me a hand.

- (i) Gushio skeukeo gi ikhe ke i pasis

 Read book your hard that you pess:

 Study hard so as to pass (your exame).
- 11(e)] coro sí ka e ruo oru thea?
- (c) ______
- (e) <u>únu</u>
- (r) ______ he' _____

Observe that as with Na complements, si is an optional element with ka or ma in all the examples of 10, except (h) and (i) where the matrix (main clause) verbs are in the imperative mood. As a general rule, the optional si is excluded from this type of construction who never the matrix verb is in the imperative. Secondly, as in Na complements si can be substituted for either ka or m2. Here again, the same principle of stylistic variation can be invoked to account for the following:

(c)
$$\begin{cases} si \\ ssi \end{cases}$$
 (colloquial)

Want I that we start to go: I want us to start going.

Thirdly, ke and me can be used interchangeably, except in 10 (a-c) where the matrix verbs are

ico - to want/wish, and

ikheo - to intend, have regard for, have in mind.

In the dialect being described here, <u>ico</u> is marked for <u>ka</u>, while <u>ikhwo</u> takes <u>ma</u>, although in more complex constructions, such as 10(d-i) they are in free variation. The reason for their being in free variation in Igbo purpose construction will become obvious when the subjunctive complementation is described in detail in chapter §.

Note also the tone pattern of pronoun subjects in ll(a-f): all pronoun subjects in this complement type are on high-tones in contrast to their low-tones in interrogative complements. Next, consider the semantic

properties of the matrix verbs involved in ka/ma complementation, for examples, werbs such as ico and ikheb. These are warbs which express desires and wishes, the realisation of which is an open question; consequently such verbs do not make any assertions like the Na-complement verbs; they do not ask for information, nor express doubt like ma-interrogatative complement verbs. Secause of these semantic properties, there is a dependency relationship between such verbs and the verbs of their sentential complements in the sense that the time expressed by the complement verbs can never be anything but future in relation to that of the main clause verb. Such matrix verbs are said to be verbs of forward-looking aspect, where the term, forward-looking aspect, is used to describe inter-clause time relationship. For example, in the following 13, the form and time meaning of the ka-complement verb do not vary, although those of the matrix verb do vary:

- 13(a) Ána m akrádo ka ányi ga(a) shya Am I preparing so that we go market: I me preparing for us to go to market.
- (b) Ágz m skeádo kā mínyi ga(s) mhyē. Shell I přepáře that má go merket: I shell prepare for us to go to market.
- (c) Anzare = ake*á*do ka ányi ga(a) shya

I have prepared

Whatever the time expressed by the main clause worb, the form of the warb of the ka complement is invariable, and its time is always determined from that of the main clause. We describe this complement type as the subjunctive, where subjunctive (+ subjunctive) means

- indicative
- interrogative
- imperative

We have already observed that the matrix verbs in $10(n-d) - \underline{ico}$ and \underline{ikheo} are complementizable predicates, that is, predicates which can take NP-sentential complements. But in the rest of the data we have such verbs

inye (10 e) to give
ime (10 f) to do
ige (10 g) to go
ibye (10 h) to come
igushikhe (10 i) to study hard

The verbs are not complement-taking predicates in Igbo, yet in these examples, they seem to function as complementizable predicates. This calls for some explanation of the structure underlying such sentences as 10(e-i) because their superficial form hides their true nature. Our investigation shows that the verbs to which the ka/ma clauses are complements in these examples have been optionally deleted. What these verbs are, their semantic and syntactic properties and their optionality in surface structures are discussed in 9.1.0.

4.1.3 Si Imperative Complements

This is the last and emallast (in scope) category of NP-complements in Igbo, and needs only a brief discussion at this stage. Consider the following as examples of si complements:

l4(a) 0 kara si anyi / lawa Ha said saying we start go: He said that we should go sway.

- (b) Ogu tikishiri ei umuaka mechim onu
 Ogu shouted out saying children close mouth:
 Ogu shouted at the children to stop telking.
- (c) Fade siri enyi lawa The priest said we go away: The priest ordered us to go away.
- (d) O siri anyi riches has bya ilawani

 He told us sat finish thing come start goings

 He told us to finish eating before going.

14(e) 0 keuuru unu fan ei unu hetun

He said to you early saying you hide: He told you in time to hide.

14(a-e) highlight the specialised function of si as the exclusive warker of embedded imperative sentences. In this function, si is mutually exclusive with the ke/me and me interrogative, and the deviance of the following 15(a) is due to a violation of the above constraint.

(b) " si anyi lawa

He shouted that we should go.

Apart from the violation of the above constraint, it should also be pointed out that Igbo verbs have their imporative division or mood which is formally distinct thus:

Affirmative

16(a) Rie : eat (vb cl.1) Erile : Don't eat

(b) fuo : go out (= = 2) Afula : Don't go out

(c) Byes : come (= = 3) Abyele : Don't come

These imperative forms can be introduced only by the complementizer si the estatus of which is soon to be examined in the following section 4.2.0.

That it is possible in Igbo to embed an imperative sentence in the structure

4.1.4 Tobo Complementizer morphemes

of an NP is due to the nature of the complementizer itself.

From the data so far exemined, and others which we shall see in the course of this enalysis, the following complementizers are functional in Igbo Noun phrase sentential complementation, they are set out in the following table for sess of reference:

Complementizers (Comp.)	Bood of Embedded S
\[si \]	• S - Imperative
\{ ka \ ma_1 \}	+ S - Subjunctive
(ai) m2	+ S - Interrogative
na`	+ S - Indicative
H	where + Indicative =
	· - Imperative
·	, - Subjunctive
İ	- Interrogative
	<i>.</i>

from the above table, it will be observed that Igbo complementizers correspond each to a sentence type-mood. The table also highlights the exclusive function of si ebove as the sole complementizer to imperative complements, as well as its optional presence before the others.

The term, mood, has been used here in its traditional sense. For example, the imperative mood belongs to commands and orders, the interrogative mood is associated with questions, the indicative/declarative mood with declarative sentences. It thus follows that the imperative and interrogative moods belong to non-declarative sentences, while the indicative mood belongs to declarative sentences. The subjunctive mood is not very easy to characterise, though it is definitely associated with non-declarative sentences, and in this regard belongs to the same class as the imporative and interrogative moods. But whereas the imperative and interrogative moods, like the indicative, are associated with independent and dependent sentences, the subjunctive mood seems to be associated only with dependent (embedded) sentences. The following are illustrative examples:

The Interrogative Ecod

- ' 17(m) Đốu ở nọ n'việ? (Independent Clause)

 Ogu ho is at home?: Is Bou at home?
 - (b) Acord w imm ma Ogu (a)no n'úlo (Dependent Clause)
 Went I to know if Ogu he is at home:
 I want to know whether (ar not) Ogu is at home.

The Imperative Ecod

- 18(e) Unu fuo tupu su eshas anya (Independent Clause)
 You go out before I open eyes: You go out before
 I open sy eyes.
- (b) (si unu fun tupu ya ashan anya (Dependent Clause)

 He says you go out before ha opens eyes: He orders

 you'to go out before ha opens his eyes.

The Indicative Rood

- 19(a) Ala oru nna ha fughers ha uka (Independent Clause)

 Land of farm father their coming out for them troubles Their
 father's land is causing some misunderstanding among them.
- (b) Once ownle me na als organne ha fughare ha uke.

 Everybody knows that their father's land is causing some misunderstanding among them.

It will be observed from these examples that Noun phrase complementation is a structure-preserving process in the sense that the process of embedding independent sentences as KP-complements does not alter their form, except for such pronoun changes as from mu '1' in 18(s) to ya 'he' in 18(b). Apart from this morphome change which becomes necessary in indirect (as opposed to direct) speech, word-order and the diagnostic tone pattern of the sentence

⁷ This term was originally used by Emonds (1972) in a different sense from its use here. Emonds "structura-proserving constraint essentially specifies that constituents cannot be moved into certain structural configurations". See Stanley Paters(ad)(1972) <u>Coals of Linguistic Theory</u>, page 22.

types remain the same in both the independent and dependent clauses.

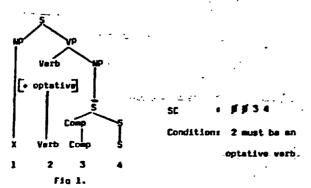
But with the subjunctive mood, the situation is different. Unlike the above three types of mood, the subjunctive mood does not exist, it seems, independent of the purpose and allied constructions with which it is closely associated. Admittedly, Igho abounds in the following type of constructions:

- 20(a) Ka ci foo

 Wish day breek: Good night
- (b) Ke emesia

 Wish one finish: Goodbye, see you later.

One might argue that 20(a-c) are independent clauses; if they are, then the presence of the coeplementizer ka in such independent clauses is odd. It is, at least, an isolated end, therefore, a curious situation that a subordinating conjunction should be sentence-initial. No other subordinating conjunction in the language behaves this way. But if these exceptes and all other Igbo constructions like them are analysed as subordinate clauses (an approach, which was favour), then the presence of ka as the marker of the subjunctive mood along with the tone pattern of the ka clause can be accounted for on syntactic (transformational) grounds. For example, it could be argued that sentunces such as 20(a-c) represent a reduced form of more complex underlying structures (Fig 1) whose superordinate (main) clause has been adeleted thus:



This analysis is in keeping with the transformational rule of optative

Predicate deletion which we give in \$.1.0 p.412:Robin takoff (1968) argues

for a similar analysis when she tries to reconcile the so-called independent

subjunctive constructions in tatin, which she shows to be clouses dependent

on some abstract verbs of wish. She extends the same analysis to English

purpose constructions. The presence of the ka conjunction in the above

examples can be accounted for as the reflex of the subjunctive mood of a clause

embedded as the direct object of a verb of-wish. This analysis thus mables

one to explain why ka is the formal distinction in Içbo between a command

and a wish or between an order and a polite request as in 21(a) and (b).

21(a) Anyi jhes shys : a command

to go market: The should go to market; Let's go to

(b) Ka enyi jhan shya (a polite request)

Wish wa go market: Let us go to market:

The former has a greater imparative force than the latter.

Could me go to market

from the foregoing account, we maintain the view that the subjunctive mood, unlike the others — the indicative, the interrogative and the imperative, is associated only with dependent clauses, in other words, it has a different status from those others.

4.1.5 The Si Complementizer - its status

Consider the function of si in the following examples:

22(2) Jéso keuru si: "Onyo coro inme ndhù ébèbe ge shafu has Jesus talked said: person who mants to have life everlasting will leave nille o nuere some ...

things all he has (end! follow me.

Jesus telked and said "whosver wants eternal life will abandon all his wealth and "ollow me".

22(b) Anyi ne em leu sir "leu-nezanyi ge neë sza Be ere making leu saying: Bosen mill keep seesping úlô ôkpere ne sútadée niile house of prayers on Saturdays all

We are making it a lew that momen shall keep sweeping the church every Saturday.

(c) D kare all "Unu gas ebeka Dishoopu"

He talked saying "You go place of Bishoop

In 22(a-c) the actual words of the speaker are in quotes. In these examples, si is consistently the second of two verbs of saying in a serial construction. If we wish to make the quotations reportitive, all we need do is change the relevant personal pronouns into the appropriate person, and the importative mond of the verb in the new reported speech making unaffected.

for example, 22(a) i (c) will become 22(d) i (e) respectively:

22(d) Jeso kwuru ei onye core inwe nchu ebeabe ga ahefu hwe niila o naora sowé ya.

Jesus said that whoever manta eternal life accordance.

Jesus said that whoever sants eternal life will shandon all his wealth and follow him. $\frac{1}{2}$

- (a) O kers si ha gaa ebeks bishoopu

 He said that they should go to the bishoo's house.

 The use of any other complementizer, say, na, will render these examples deviant and unacceptables
- (f) 40 kars (si) na ha gaa ebeka bishoopy

The imperative form of the verb - gas_{σ} for example - can co-occur only with the complementizer si_{σ} .

- 23(a) Juo ya si aja abya (b)
- (c) Task his whither he will com-
- 8 This form so is due to regressive essimilation.

- 73(d) Ajula ya si jo ga abya
- (t) (s) (s)

Ask not him whether he will come: Don't ask him if he will come: In 20(a-f) the main clause werb iju - is in the imporative mood, and so is ai. Similarly, in 22(a-e), si is the second of two werbs of saying in a serial construction, and can thus be considered to be in the Marrative form. Recall that in an Igbo serial construction, only the first werb of this series bears the tense/espect marker, leaving the following werbs to copy their tense from the preceding one. Because the werb si always comes second in the type of scateness being considered here, it will always be suffixless for the foregoing reason, and consequently, its mood must be determined in context thus:

- 24(a) 0 si ya bya (si Indicative)

 He is saying he come: He is asking him to come.
 - (b) Si ya bya (si Imperative)
 Say he como: Yell him to come.
- (c) O timers sin ghats (si Marrative in a serial construction)

 He shout started said I run up:

 He started shouting for me to run up (to him).

Charms that in the sentances being considered here, only the verbs of saying are involved. Secondly, the verb isi is invariably the second of two such verbs, never the first. It is either used alone as in 24(d), or in second or third position according to the number of the preceding verbs of saying, as in (a)

(d) 🦸 st anyt louá:

He is saying we go away: He is tolling us to go away.

(e) 0 tiwere, kpose, of any laws

He started to shout started to yell said we go eway: He started shouting and yelling at us to go eway.

The function of \underline{si} as a complementizer owes its origin to the use of the work in this type of serial construction. What seems probable is that with time this worb started to be used after worbs other than those of saying in a kind of serialised (verb) construction, which is one prolific method of co-ordination in Igbo. Further more, this worb isi introduces the actual words of the speaker, as though in quotes, necessary pronoun changes having been made. The unique function of si as the sole complementizer to imperative RP-complements stems from this special character of the verb. In other words, two essential factors are responsible for this verb form being used as a kind of supordinating conjunction, with its fixed second/third position in a serial construction, never the first; secondly its ability to introduce the actual words of a speaker, and this is responsible for its being the only permissible marker of embedded . imporative constructions. As we shall demonstrate in 7.2.0, si as the imperative complementizer (or the second of two verbs of saying in a serial construction) is deletable from surface structure only if the first werb (i.e. the matrix verb) is isi itself. This deletion accounts for the form of 24(d) above.

Let us now relate the function of si in the foregoing examples to its function in the following:

25(e) 0 kwūru sī sye ga ekprim na va

He said that he will call me.

(p) Yunjin alej manj sphacusele

I heard that they have all come.

(c) Here o there wi frish nide o wi now meaght the state of the state

What it amounts to is that these people are a dishonast lot.

25(d) I heuns { ei } eceghe hi enyi?

Do you see that they are waiting for usi

(e) Acoro a si anyi hafu ñi

want I that we leave/pardon them: I want us to pardon/

(f) Ékhwò m (sí) únu richefuo yā

Intend I that you eat be able it: I intend that you will be able to finish (eating) it.

In all the above examples, si and its variant forms are substitutable for any of the other complementizers - &a, &a/ma, and ma2 (that is ma interrogative), given the right matrix verb. Since all these forms have the same privilege of occurrence, they must all belong to the same form class. Our grammar must, therefore, show that si the complementizer is associated with si the verb. How to capture this relationship between certain lybo predicates and certain function words is discussed in Chapter 10 in Appendix 1

Us must, however, point out one difference between the two complementizers $\frac{Na}{2}$ and $\frac{si}{2}$. This difference is brought out in the following examples:

- 26(a) Na o wu onyo sport were sinya.

 That he is person of stupidity accustoms eyes

 That he is an idiot is obvious.
- (b) 75i g mu onya apari wara anya.
- (c) Unya apari o up uare anya.

 Person of stupidity which he is is obvious: The fact that he is an idiot is obvious.

26(a) is grammatical, though not very popular; its popular equivalent is 26(c) But 26(b) is vary questionable because the si complementizer is sentence-initial. It some to be the case that the two complementizers are in free variation only in clause-initial but not sentence-initial position.

Summary

Igbo complementizers constitute a set of mutually exclusive morphemes each complementizer corresponding to a spacific sentence type or mood wir -Na for the indicative, ka and ma, for the subjunctive, ma, for the interregative and si for the imperative mood. Although si may precede any of the others, or be substituted for it in collequial usage, it is nevertheless the only permissible complementizer for embedded/imperative construction. This specialised function of si stems from the fact that it is associated with the verb isi'to say' which permits the speaker's actual words, as if in quotes, as its NP object. From the point of view of mood, the subjunctive kb & ma, complements stand in contrast with the other complement types, being the only mood which is restricted to dependent (embedded) clauses, whereas the rost are associated with independent as with dependent clauses. From the view point of meaning. Wa complements contrast with the others including the subjunctive complements, since Na introduces declarative complements while the others introduce non-declarative ones; this explains shy only as complements can be factive, given that the relevant matrix predicate is one which entails the truth of its complement.

4.2. Igbo Base (PS-) Rules

The declarative sentence is taken to be the norm; it can be turned into a question or a command, emphasized or negated, hence the specification of the category symbols Q, Imp(srative) and Emph(seis) which trigger the relevant transformations. The category Keg(stive) has not been specified

here since it stands for a number of suffixes corresponding to verious tenses/espects in Igbs (cf 2.3.4). The use of the trigger Q in Igbs question formation (both Yes/No and Kady Questions) is illustrated in chapter 6; that of Imp. in Imporative Complementation in chapter 7, while the T-rules triggered off by Emph. are incidentally illustrated in the Appendix (10.4.3). Note that Q and Imp. may co-occur in this language.

Ps-rule 2 states that every Igho sentence is composed of a subject (NP) and a predicate phrase (VP), while PS-rule 3 indicates that VP consists of an obligatory element, the werb, and a number of other optional elements (in parentheses) selected according to a number of semantic and syntactic considerations. The element, Aux, is the first element of a compound verb directly dominated by VP and it is always deleted whenver such compound verb are infinitivized. 10

4 Verb ___ (Prefix) + V-(stem) + suffix + (compl.)

Observe from the shows rule 4 that verb consists of the verb-stem, the infloctional affixes (prefix and suffixes), plus a complement, which is optional. The justification for this analysis lies in the fact that Igbo is full of warbs whose citation form is incomplete without an inherent object which specifies the meaning; these include

⁹ See also Cerrell (1970) pp.48-49 for more illustration of emphatic sentences in Igbs.

in infinitivization involving a compound worb in Igbo, is, an aux + worb, is discussed in 5.2 and 6.4 respectively where it is shown that only the main worb bears the infinitive prefix I while the sumiliary is deleted as a consequence.

Although these verbs obligatorily take an inherent object in order to apacify their meaning, they also take other objects, if they are transitive, thuse

(b) Ya chèére gī ekpe

He beg you beg: Let him ask for your pardon.

From these examples, it will be observed that for some of these warbs the object comes after the inherent complement as in 27(a), for others, it intervenes between the neutral warb¹¹ and its inherent complement, as 27(b) shows.

The purpose of setting up a werb-complement string as a single unit is thus to give formal expression to the traditional distinction between nuclear elements, such as the above verb-complement string, and peripheral or non-nuclear ones, for instance, an adverbial modifier.

5 Vorb ______ CS (w complex symbol)

Rule 5 is a rule schema in which the category symbol werb is subcategorised in terms of the contexts in which it appears under the dominance of VP. For example, verbs taking sentential complements such as ico will have the following entries: + #

. trans.

. forward-looking

• S-subjunct

(i) a sentential complement of the structure

Il we have used the torm, neutral, because items such as itu, although they can be inflected like other Igbo verbs, lack any meaning until the relevant complement has been supplied. The relevant complement is thus the meaning-specifying element. We have also used 'inherent' rather than 'cognate' to describe these complements since they are not necessarily cognate with the neutral warb.

(b) a (complex) Nominal which is the domain of relative clauses and other dejetic elements such as Numerals, quantifiers, and determiners.

As with the strict subcategorisation of verbs, hours are subclassified by rule scheme 9 in terms of the contexts in which they occur. Thus nouns (nominals) like

<u>شم</u>12

امل م

óhwu o

in addition to having the feature +N, will also be warked for the following:

. 1

+ attrib.

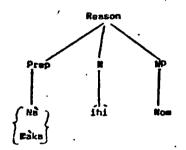
+ 2nd position

to show that they never occur alone, but as a sort of attributive adjective to a preceding nominal.

structural position, and those without fixed structural position. We have not considered a lexical category, Adjective a necessary pre-requisite for an accurate description of the Igbo language.

The above rule is as given by Carrell (1970, op. cit. pp.17-18).

There are two types of Reason or Purpose constructions in Igbo. The first is of the structures



from the above figure, we get the following Igbo examples according to the items selected:

- 28(m) N'íhì ngókhō mbuō: For sake of males teo: For the sake of the two men.
- (b) Wihi ning has for the sake of their father
- (c) N'ini onye wa Sake of parson that for the sake of the parson (about whom we have spoken)
- (c) tegus Amebitin opg genedand umfirm guan

for the sake of soul of Osuagou who died: For the soul of the deceased Osuagou.

- (e) Make (ini) gi: For your sake.

 The second type of Reason or Purpose construction involves ka and mag
- 29(a) Abyare a ka dokita lee a anya n'ahu Cama I. so that doctor looks as eya on body: I cama for the doctor to examine as.

¹² taxical items such as these are classified as adjectives by scholars of the Igbo language, notably Green and Igue (1963) and Dr Igwa (1974). There is no denying the fact that they translate the English adjectives, good, bad and new. But there are thousand and one other rouns which also translate English adjectives, and which never occur alone, though they can be in first or second position in a nominal construction. Given this situation, and the absence of any diagnostic syntactic or morphological criteria for adjectives in Igbo, we suggest a neutral term, nominal, for these items and all well-established nowns of the lenguage. It is the task of the grammarian to determine which of those nominals can function alone as NP, which must require another nominal N1 N2 NP, those with fixed

29(b) E obudhers nkwu nde 🖹 One cut down oil palm tree these so that light come in houses These oil palm trees were felled in order to let in light to the house.

D nyere sit down: He gave them seats to sit down.

Purpose Clauses in Subjunctive complementation is the subject of chapter & where the structure underlying sentences such as 29(e-c) is exemined in detail.

Thus, we have come across all the Ps-rules relevant to the formation of Igbo NP-sentential complements, the specific rules being Ps-rules 6, 7, and 10.

Igbo manner constructions involve either, simple manner adverbs such as nmáyoo, ósiiso, nomenoma et cetera or

The following are illustrative examples

He died in manner which strikes in eye: He died in a mysterious/surprising manner.

- sweetened me heart sweet: How/you behaved/ What you did delighted me.

Locative constructions in Igbo involve the preposition no and d

locative neminal:

- Legoosis He lives at Legoe
- Doù bitme va lives there, too
- Legoosi. Aba ma (ng) lived complete both at lagos, Abs and Joss Ogu once lived both at Lagos, Aba and Jos.
- (e) Legocsi, Aha, ma (na) Joosi, Ogu bichere Lagos, Abs and Jos, Ogu once lived them: At Lagos, Aba, and Jos, Equ once lived in each of them. From 31(a), (c) and (d), it is obvious that ya 'in it' and ha 'in them' can be substituted for the locative structure. Prep. MP.

Ps-rules 13-15 are as given by Carrell (1970, p.18), and her obserwation about the optional deletion of the proposition na is correct.

- 17 demonstrative
- 18 definitizer

19 Demonstrative
$$\longrightarrow$$
 ag $\left\{ \begin{pmatrix} n' \text{lke} \\ n \end{pmatrix} \right\} \left\{ \hat{A} \hat{h} \hat{h} \right\}$
20 Definitizer $\longrightarrow \begin{pmatrix} -m \hat{e} \end{pmatrix}$

Ps-rules 16-20 reveal that the category determiner, can be subclassified into two sets: demonstratives and definitizers according to their syntactic characteristics. In addition to their normal demonstrative function, the demonstratives may also be used as substantives: nde-ehi khughuru onee ha na nkhu 32(a) destroy kill self their in destruction. Coats of that type can be very destructive.

- Hotare m ndi (b) ocha Select for me the ones white those: Select those white ones for In 32(a) above the determiners inde chi are functioning as demonstratives. in 32(b), they are used as substantives. But definitizers, on the other hand, can only function as definitizers, never as substantives:
 - Lèkwé (c) okukò Behold place it is coming in: foul See the fowl (about which we have been talking) as it is coming in.
 - (d) He tho (naughty) child will get lost travelling: will get lost travelling about.
- (e) this child person of theft: B TOOUE.

The definitizer we can be used only to refer to an object or person previously mentioned, and can be used to definitize either a noun or a pronoun. Ma, on the other hand, can only be used after pronouns. The existence of these determiners should convince the reeder that contrary to Carrell's observation (Carrell 1970 p.26) there is snough justification for the distinction into definite and indefinite determiners. The reso determiner is the indefinite one while a/shi, 'this/that' and ma constitute the definite determiners. A native speaker of Igbo will was one of these or any other dialect equivalent to convey the same of the

definite, but none at all whenever an indefinite meaning is being conveyed. Inflect(ional) Non-inflect. Suffix Present Progressive Post Simple Present Past 22. Inflect Perfect Imperative **Habitual future** Non-inflectional 13 Assertive, benefactive, directional, 23. inchestive et ceters. Prefix 24. 24.1 Present Progressive Progressive Simple Present Parfect Imperative 24.6 future 24.8 Meg. Simple present 24.9 A - hii/ohi A - hil/ghi 24.10 Neg. Present Progressive A + nm + hii/ghi + FV 24.11 Neg. Past 24.12 Perfect A - le- mi

24.13 Neg. Imperative

^{13 .} For a very detailed study of non-inflactional suffixes in 1gbo, see G. E. Igwe (1974) chapter 15.

In the negative conjugation of the warb, there are gaps because certain tense forms do not have corresponding negatives. But this gap is filled by the existence in Tgbo of periphrantic negative expressions in which all tense/espect forms can be expressed. Those along with warb inflection in Tgbo have been amply illustrated in chapter 2(2.3.1-4).

25.1	Assertive		-rv ₂
25.2	Benefactive		-rv ₃
25.3	Directional		-ta .
25.4	Inchostive		-44
26	Aux.		ina, iji, iga
27	Comp.		sį, nà kà, mà _j , mà ₂
28	Prep.	-	Ka, maka, bhànyére, gbasere, shí(te)
29	Numeral	·	ótů, ahýō, ató, amnó et caters
30	Quantifier		nííle, dím, úzugbu, ótutu
31	Adv.		fãs, ósilso, ngesnges
32	Conj.		mana, thuma, khama, si, na, ka, ma.
33	Interrogativa		giri/onye ehat/who
			olis/ansa how
			ôle how meny
		-	(na) čles - where

One hopes that the detailed analysis of various tense and aspect forms prosented here and in chapter 2 will help to diagol the erroneous view that "the only tense indicators in Igbo ere two suxilizry varbs (ine and iga) end e prosent perfect" (Carrell 1970 p.30). The past time suffix -sV has been vary little understood by scholars of the Igbo language, except Green and Igwe (1963) who rightly distinguish between -sV time on the one hand, and -sV time non-time, on the other. Thereas there is only one -sV time, there is definitely more than one type of -sV non-time for example.

-ry benefactive and

-TV pasertive

Although the benefactive morpheme can co-occur with most verbs, the -rw essertive is restricted to a squantic class of verbs which we describe tentatively as stative/existential verbs. These include

inwe to have, own
ibhe uru "be useful"
ijo njo "bad
ima man "good
ighe "cooked
iru "deforme

Bith these words and others belonging to the same semantic class, the -FV assertive morphome is generally associated with present tense meaning thus:

- 33(a) Ogu <u>naéra</u> jeg'o Ogu has moneys Ogu is rich.
 - (b) lime soto bhers uru

 Owning a car is useful
 - (c) Hws o more joro njo
 - --- Thing he did is bad: Bhat he did is bed.
 - (d) Nestakiri a mera mma nesanyi
 Young girl this is beautiful as meman
 This young girl is as pretty as a meman pucht to be.
- (e) Ukwu <u>rūru</u> ye .

 Leg is deformed to him/her: His/her leg is deformed.
- (f) Any o chera agha

 Ment this is cooked: This meat is well cooked.

Whenever a past time meaning is meant, there is a corresponding change in the form of the underlined verbs, as 34(a-f) shows

to be rich

- 34(e) Ogu <u>nweere</u> eg'o: Ogu used to have money
- (b) Inme moto <u>bhasra wru</u> (n'og's éhi)
 Owning e car used to be useful (at that time)

- 34(c) Ajhe ulo o jooro njo ilë enye tupu e mëzhie ye galle of house this used to be bad to look at before one repaired its The malls of this house used to be ugly to look at until they were repaired.
 - (d) Neatakiri e maara mona neaanyi tupu ya aryase.

 This young girl used to be a pretty woman before she became mick.
 - (e) Ukeru ruuru ya, ma o dila ya mma obuo.

 His/her leg used to be deformed but it has become to him/her good now:

 He used to be deformed, but now he is alright.
- (f) Anu ohi cheore eche mgbu m fodhetarm ys.

 That meat was cooked when I brought down its

 The meat was cooked when I brought it down from the fire.

The vowel lengthening which is characteristic of thase underlined verbs has been analysed by Green and Igea (1963 p.76) as due to the presence of -FV time and -FV non-time in one and the same varbs ---- when both these suffixes are present one of them is usually represented by an elternant, a vowel, which, lengthens the vowel that precedes it. This reduplicating vowel suffix must not be confused with the open vowel suffix, which expands a close stem vowel and lengthens an open one and which we have never found with this verb form.

But Carrel (1970 p.29) did not recognise the above facts when she
lumps such action verbs as:

igs to go wnd

iosu (ii) to dig up (yams)

together with members of the stative class and reaches the same conclusion as some of her predecessors that "this 'past tense' frequently refers to present time and that often an advert of past time must be present if the sentence containing Assert is to have a past time meaning". In support of

the above assertion Cerrell quotes the following extracts from Adams (1932, p.51-3) "Thus plain <u>downru if</u> means 'he digs yems, it is a statement without qualification or doubt; and therefore does duty for the absolute form of the present tense. <u>Openiru if</u> means 'he dug yems' with any word denoting past or in answer to a question referring to the past."

Not surprisingly, Carrell sticks to the above analysis on the grounds that "the data collected from my informants agree with what Adam says. <u>Upuiru ji</u> may mean either 'He digs yems', or 'He dug yems'."

It is difficult to imagine an Igbo dialect where the above Igbo sentence could have any other than the past tense meaning, the worb involved being an action producate. Such an ambiguous time meaning is definitely ruled out in the Eximihitte dialect which we are describing here. But the recognition of the existence of more than one -rymorpheme in Igbo: > -rV time (a one-member class) and a -rV non-time (a multiple-member class), and a study of their distributional characteristics will help to throw a let more light on past and present meanings in Igbo inflection. That must be emphasized here is that with action werbs, a -rV suffix can only have a past time meaning. Thus.

- (a) D'geuru ji can only memor He dug some yaws, while
- anama îi meana

He dug some years for himself.

where the duplication of the warb stem vowel indicates the presence of two morphemes

the -rV time and

the -rV non-time/benefactive, as in (c)

(c) 0 ne egwiru atu ji

He is disging one yes for hisself.

¹⁴⁽i) Spencer, Julium (1901) An flementary Grammer of the Igbo Language.

London S.F.C.K

⁽ii) Adams, R.F.C. (1932) A Modern lobe Grammer. London, Oxford University
Press.

4.3 Defence of the Base Rules

A look at our base rules shows that they mark a departure from the base rules given in Aspects and all other transformational treatment of complementation based on that theory. In the base rules given here, complementizers are generated in deep structure. This departure constitutes a negation of the transformational hypothesis of complementizer-insertion and complementizer change as examplified in the works of Rosenbaum (1967) and Robin Lakoff (1968). The specification of comp. as a deep structure node also implies that it is far from the sementically ampty morphome which existing accounts is of complementation make it.

The claim that complementizers contribute to meaning has been strongly put forward by Bresnan (1970). Among other things, she asserts that "complementizer selection is the kind of phenomenon characteristic of subcategorisation, and in fact, some aspects of complementizer choice cannot even be described within the transformational hypothesis without extending it in undesirable ways," (Brosnan 1970 pp.306-310). She argues that unless comp. is introduced by base rules, cortain conjoined sentences in English would not be derivable, whereas the specification of a deep structure comp. makes the derivation of such sentences from familiar rules easy. Lastly, she demonstrates that UH- is one of the English complementizer morphemes. We must observe here that in lgbo, there is no complementizer corresponding to the English UH-. The lgbo equivalents of English UH- questions, both in their embedded and non-ambedded forms, are complex nominals with nominal heads and qualifying clauses. The justification for this claim is presented in chapter 6.

Since this is not a comparative study, though comparison is at some stage inevitable, we shall restrict our attention to Igbo in order to show that evidence there is - syntactic and semantic - in support of the claim that complementizers must be generated in the base rules of this language.

Igbo is a tone language, sufficient evidence for this has been given

in the introductory part of this thesis (cf 1.3 & 2.0.0).

To a large extent, then, the grammar of Igbo deals with sets of appropriate tone patterns required by various construction types in the language.

The extent, if any at all, to which intonation plays a part in meaning modification in a Tone Language such as Igbo is, to say the least, doubtful. In view of the fact that Transformations as now formulated are meaning preserving 16 the onus on Deep structure is to specify all the necessary information that contributes to meaning.

SYNTACTIC EVIDENCE

Igbo Complements fall into four mutually exclusive sets or categories based on the following syntactic parameters:

- (a) the complementizer morpheme present
- (b) matrix verb
- (c) the sentence typs embedded as NP and
- consequently of the whole sentence (matrix and embedded).

 These four factors interact in so close a manner that it is difficult to discuss one of them without necessarily discussing the others. For example,

the choice of the matrix predicate determines complementizer selection which

in turn, determines the mood of the whole sentence. For those warbs which

(d) the semantic interpretation of the NP complement, and

¹⁵⁽i) Sinha, A.S. (1970). University of York Ph.D. thesis on "Predicate Complement Studies in Hindi and English"

⁽ii) Bageri, Dauda, B. (1971) *NP.complementation* in a University of a London B.Phil. thesis.

¹⁶ It has been observed (Chomsky 1972) that such meaning changes as era due to Focus and Pseuds-Cleft rules can be accounted for by late rule of semantic interpretation. Such a solution to the problem assumes, of course the existence of a syntactic Deep structure distinct from Semantic Representation. The generative semantics position is that the Deep structure is semantic.

may take more than one complementizer, the choice of the complementizer is determined by the complement type. In other words, mood and complementizer choice are interdependent, and both of them affect meaning.

For example, (si) Na introduces what we have described as

Declarative/Indicative complements - that is, those complements which

ere neither Interrogative, nor Imperative nor Subjunctive in their mood

(cf. 4.1.4). In this complement type, Pronoun subjects retain their

inherent tones (cf. 4.1.0) and verbstems are high for Class I warbs and

low for class 2 and 3 verbs. This tone pattern is constant under

**RP-complement embedding provided that (si) Na is the complementizer. But

a change of complementizer, for those verbs which are marked in the Lexicon

for more than one complement type, entails a corresponding change of tone

pattern and a corresponding change in semantic interpretation thus:

- 35(a) Écè m (aí) na líga abya'

 I think that you will come (certainty/conviction)
- (b) Écè m (sí) mb2 I ga abyá (Doubt)

 think I fir you will come

I wonder whether you will come

I em not sure that you will come

- 36(a) Asini m ng unu sleals (conviction)

 1 thought (for certain) that you had gone.
- (b) Asini m mag unu elsala (Doubt)

 I see wondering if you had gone.
- 37(a) Eceghakum m na 0 03 abya (certainty)

 I am still of the opinion that he will come.
- (b) Ecoghekus m mag o gm mbys (Doubt)

 I nm still thinking whether he will come

 I mm still wondering whether he will come.

38(a) Eroghekwe m na o ga abya (certainty)

I am still thinking that he will come

I am still doubting whether he will come.

(b) Eroghekme * mag o ga ebyé (Doubt)

In the foregoing minimal pairs, the difference is due to different complementizers in the (a) and (b) sentences which are responsible for the change in the tone pattern of the pronoun subjects from High and High-Low in Na clauses to Low and Low-Low in mag clauses. The cumulative effect of these differences is a radical change in meaning from an assortion and its presupposition 17 of truth in the (a) sentences to doubt and uncertainty and the consequent absence of any presupposition of truth in the (b) sentences.

We can account for this radical semantic and syntactic difference in either of the following ways: First, we can assume that two distinct main clause verbe are involved in each of the pairs of sentences under discussion, and go on to prove that this is really the case. The second alternative is the claim that there is only one and the same verb in the main clauses of each of these pairs, and that the meaning differences is due to the presence of the two distinct complementizers Na and may which in turn depend on the complement types embedded as NP. We examine these alternatives in turn, starting with the first.

To argue for the existence of two distinct main clause verbs in the .

minimal pairs being investigated here, one needs to show that these

purported verbs exist in the language independent of the Igbo complements—

tion system. It is impossible to substantiate a claim such as the above;

Presupposition is used here in the sense of sincerity condition, that is, a Prognatic motion. To presuppose something as a speaker is to take its truth value for granted and thus assume that your sudience does the same. An Igbo speaker sould use No and its attendant tone pattern (Mood) if he is sure of his facts, may, if he is doubtful about them. For more information on this prognation notion of presupposition, see Kerttuneh (1973) LI Vol. 1v, No.2.

on the other hand, it is very easy to show that there are many homonyme in the language, each with a distinct meaning and syntactic functions which establish it as a verb in its own right. Consider the following few examples as an illustration:

39(a)	şîna		to backbite, to calumnists	
(b)	ina (aux. verb)	•	habitual/progressive	
(c)	ibha .		to enter, go in	
(d)	įbhė	•	to grab, hold	
(e)	190		to deny	

Each of these verbs will take the inflactional markers of the Igbo verb, and have their Imperative forms thus:

to worship onds, shrines

40(a) Nara yani gawa.

Backbita him you peopla go on.

Go on backbiting him, you lot.

(aŭo)

igō

(r)

- (b) Name azard m has hee

 Keep on sweep for we thing: Go on doing the sweeping for me.
- (c) Shee osiiso
 Co in quickly
- (d) Bhará m ym mgba

 Grab for me him wrestle: Wrestle with him for me.
- (e) Goo we slee

 Deny, I see: Deny, let we see.
- (f) Cokwas sup nother ci.

 Do worship the gods in decline of days

 Do carry out the rites of worship in the evening.

From these fow illustrative examples, it is obvious that, despite their phonetic identity, there are six distinct verbs, not just three, involved in the examples 40(a)-(f). We must point out that the different suffixes used in these examples do not affect the argument; the choice is arbitrary.

and any werb can co-occur with any suffix according to the intended meaning. A detailed study of Igbo affixes (prefixes and suffixes) has been done by Revd. Igws (1973).

Now let us essume the existence of the following as distinct warbs in the paired exemples 35-38:

41(m)	ico	to think	
(b)	íce ₂	" wonder, doubt	
(c)	isi ₁	* say	
. (d)	isi	• wonder, doubt	•
(e)	íro	= think	
	írò ₂	* wonder, doubt	

With these verbs, it is impossible to catablish any case for more than one verb for each pair of the examples, as the following examples shows

ecice

- Think for it thought: Think about it.

 (b) Ceere ye ecice: "Wonder about it.

 43(a) 5i(i) ye bya
- Sey-to him come: Tell him to come.

 (b) "Si(i) make ye
- 44(a) Ròo asko a Think about me

about

42(a)

Ceeto

Donder

(b) Roo make a

Observe from 41-44 that, with the exception of 43(b) where the syntactic form is deviant, it is the English glosses which are wrong. This rather unusual phenomenon can be accounted for from the fact that the erong wearings are being assigned, in the (b) cases, to otherwise well-formed Igbo sentences. In other words, the meaning of 'doubt' and 'wonder' can be attributed to these verbs only in the Igbo complementation system; outside this construction type, such a meaning has no reison d'etre.

This same argument holds for any suggestion that these werbs in question may well be polysemous, in which case, they have the feature [- Dubitative] as one of their lexical entries. Such a feature specification can only be notivated by none other than the consideration of Igbo complementation. Be therefore dismine as adhoc the hypothesis that two distinct verbs are involved in each pair of the above examples. Such an approach would leave many questions unanswered.

The elternative argument, which we uphold in the rest of this section, is that there is one and only one main clause werb in each of the paired exceptes 35(a, b) - 38(a, b), that these werbs may take either Na indicative or Na Interrogative complements (isi will, in addition take a Si imperative complement) according to the intended meaning of the complements. Recall that we have established (cf 4.1.0-4) that each complementizer marks a specific complement type -

51	goes with	Imperative complements
Na.		Indicative/Declarative
Ra'2	• •	Interrogati va
Ka/ma	.	Subjunctive

Since some superodinate (main clause) verbs can introduce any of two or three complement types according to the intended mesning, it follows, therefore, that what we have been discussing here is a case of one of these main clause verbs taking two different complement types: a Ne Indicative in the (s) and a mag Interrogetive in the (b) sentences of 35-38, respectively. Those two mutually exclusive sentence types account for the meaning difference between the above (a) and (b) sentences. From this fact it naturally follows that the subcategorisation of verbs according to the complement types they may take is a necessary, though not sufficient condition for predicting the meaning and, consequently, the complement type embedded as MPs reference to the complement type is also necessary. Unless the Base structure provides

this information about the type of lower sentence, it will be difficult,

if not impossible, in cases of verbs such as <u>ice</u>, <u>isi</u>, and <u>ire</u>, to

determine which of two or three possible surface structures one may derive.

To ensure the right combination of main clause predicates and complement

types, the following two conditions need be satisfied:

- (a) verbs must be subcategorised according to the complementizers they take;
- (b) the complement type must be specified in the Base.

Bonney (1974)¹⁸ argues that the above two conditions are necessary, but not sufficient to ensure the correct combinations of main clause and complement, maintaining that "complement types are selected relative, not only to main clause verbs, but also to other factors in the main clause" (p.53-54). He supports his stand with the following English examples:

and insists that "it is hard to see how even an elaborated system of syntactic features could be sufficient to handle data such as these" (ibid). He concludes from this evidence that subcategorisation features are unnecessary, and consequently, Brasnan's "specification of Comp as a Deep structure node is uncalled for.

In 1gbo, the situation is different; it happens to be the case in this language that the above mentioned conditions suffice to ensure the right combinations of main and complement clauses. Secondly, the Igbo equivalents of the above English examples do not raise any such problems in Igbo that Bonney points out in the English language, for the simple reason that all

¹⁸ BONNEY, W.L. (1974). OXTORD UNIVERSITY D.Phil. thesis.

⁹ BRESKAN, JOAN (1970) op.cit.

infinitival complements in Igbo (which are the Igbo equivalents of the above English examples) are transforms of sentential complements introduced by a specific semantic class of works - the Emotive predicates, which are discussed in chapter 5(5.2.0). One of Bonney's English examples quoted above has a factive interpretation; for such factive complements Igbo has a wary unambiguous Base representation. For example, the Igbo equivalent of the following English example from Bonney's data cited aboves for him to set cabbage often meant that he was hungry, is 45(a)

45(a) Iri ede o riri futara na ag'uu jiri ya .

Ya

To eat cocoyam shich he sta meant that hunger held him

Eating of him

For him to eat cocoyam meant that he was hungry.

His eating

A sentence such as 45(a) can only derive from a factive Na clauss of the following type

45(b) Na o riri ede futere na éduu jiri yé.

The fact that he are cocoyan meant that he was hungry. The relative clause in 45(a) can be optionally deleted to yield 45(c) which superficially looks like the type of infinitives associated with Emotive pradicates.

45(c) Iri ede va futers on addu.

It is for this reason that we have insisted on the important distinction between the underlined homonyms in the following 46(s) and (b), a distinction based on syntactic grounds and borne out by their respective meanings in those and similar exampless

- 46(a) Dinkpa inevo ones ye na end ineste.

 For e san to disgrace himself is a shome.
- (b) Tou imovo orms ya n'ons more m'insers.

 For Ogu to disgrace himself in public shamed me.

 The fact that Ogu disgraced himself in public shamed me.

This distinction is discussed at length in \$.2.0 where we bring evidence to show that whereas sentences such as 46(a) are derived from conditional clauses functioning as NP subject to Emotive predicates, those like 46(b) derive from Na Factive complements also functioning as Subject NP to some factive Emotive predicates. In other words, Emotivity and Factivity ere not necessarily mutually exclusive because there are some Factive Emotive wards.

Granted, then, that Igbo does not run into the same or similar problems as English in subcategorising verbs according to the complement types which they may take, and that the complement type needs to be specified in the Base . the question arises as to how best to mark this distinction of complement types. Bonney contends that it is not a distinction that can be marked by the complementizer whose because, although "for - to is confined to non-propositional complements, that, on the other hand, occurs with both propositional and non-propositional complements, and in consequence fails. to mark the distinction between the two types." Bonney's argument that complementizers in English fail to mark the above distinction is a consequence of his too much reliance on semantics. Because his Base structure is heavily biased in favour of sementic trops, he runs into the problem of not being able to represent all his semantic information in terms of his sementic trees: the case in point is the problem of how to represent the propositions expressed by Indicative complements in his semantic Base structure. Although he comes off nicely with his Causative analysis for Factive predicates (p.77-79) and the systematic account of Like-Subject predicates and their interaction with EQUI and SUBJECT and OBJECT RAISING,

²⁰ Bonney 1974: (p.55) holds a different view; he does not agree that this necessary distinction must be marked in the Base, but that it must be represented at some stage in the derivation, since such a distinction depends crucially on what he terms the propositional and non-propositional complements. Dith a Deep structure which is semantic and an analysis that draws so much from TcCswlay's Predicate Reising, which creates complex surface predicates (lexical items) from more basic ones, this distinction comes out well, especially in the Causative analysis (for factive complements p.63 ff).

he fails, not surprisingly, to give any such systematic analysis for the Propositional - non-propositional distinction, spart from the wague suggestion that verbs of saying (Expositives) and those of knowing (Cognitives) may be enalysed respectively as [[SAY] [TRUE]] and [HOLD] [TRUE]]. At the present state of our knowledge of sementics, it seems to us sufficient to point out whatever systematic correlation there wight be between the syntex and semantics of natural language, leaving its formalisation to such a time that we can have more information about semantic structures. This is what we have tried to do for Igbo, a little known language and relatively very little written about.

To answer the question raised at the beginning of the preceding paragraph as to how to mark the distinction into Proposition and non-proposition, we have to point out that this could be done in either of two ways in Igbo:

(a) by either specifying the complementizer, or

(b) by specifying the complement type.

By specifying the particular complementizer, given that verbs are subcatagorised according to the complementizers they may take, we are in effect pinpointing the only complement type that can guarantee the desired semantic interpretation. This is so because no complementizer may introduce more than one complement type, that is, one proposition/non-propositional type. 21 What happens in Igbo is that some verbs may be marked for as many as three complements, but each complementizer is confined to only one complement type, a fact which contrasts with the situation in English where that can occur with either the Indicative (Propositional) or with the Subjunctive (non-propositional) complement. So for the Igbo language, specifying the complementizer means specifying the type of lower mentages or complement.

Alternatively, one can specify the sentence type embedded as complement and, thus, predict the complementizer from it. This is the position that Bonney advocates when he argues that complementizer choice "depends directly on some internal property of the complement and only indirectly on the main clause werb." Each of these two methods will involve some re-write rules of the following types

To specify the complementizer, given the main clause verb, entails something like Na 5 or

mag S et cetera

Equally, specifying Q 5 or

SUBJUNCT. S can only ertail ma2 S or ka/ma1 S respectively, and nothing else.

The question that remains, then, to be answered is how we get me2 5 or ke S from Q S and Subjunct S respectively. Two methods suggest themselves: the first is a Context-sensitive re-write rule of the following form:

dominated by 5 which can be traced uniquely to an NP. The second method consists of a substitution transformation which inserts the appropriate complementizor for the particular pre-sentence node. But we reject this complementizor insertion rule since we have shown that complementizare alone do mark the type of distinction necessary to ensure the correct combination of main clause verbs and complement sentences. This leaves

The exception to this rule is all which, it has been pointed out (of 4.1.0-4.1.3 & 4.1.5), here he substituted for any of the others - No. and end ke/ma, in colloquial usage of this dislect, or precede them optionally, and all this is in addition to its specialised function as the sole imperative complementizor.

us with the first method which re-writes the pre-sentence nodes Q, Indic.
et catara as ma_2 and Na respectively. This rule is in itself a Deep
etructure specification of complementizer and has nothing to recommend it
over and above the direct introduction of the complementizer by re-writing
5 as, say, Na S. Moreover, we would not like to lexicalise these nodes
through a context-sensitive rule because elsewhere in Igbo transformational
grammar(cf.6.1-6.2) they serve only as triggers to set off the apprepriate
T-rule applications. From all the evidence so far given, we conclude that
there is a strong case for a Base specification of the node, Comp in Igbo.
If Bresnan's argument for a Deep structure Comp node fails in English, there
is a strong motivation for it in Igbo.

Encover, it can be shown that complementizers in Igbo are far from the semantically empty morphemes which they are supposed to be in English. On purally synchronic evidence, some of these complementizers are varb forms of some existing verbs, the most obvious case being si from the verb isi - to say - of 4.1.3). Not only complementizers, but also other function words or morphemes of Igbo are known to be verb forms taking such suffixes as are associated only with verbs in the language. On the-basis of this synchronic evidence, we make the claim that other complementizers and function words in Igbo must be orstabile verbs. This case is argued at length with supporting syntactic evidence in the following chapter 5.

Igbo complementizers have definite semantic role to play in MP-complementation.

We have argued that Igbo verbs can be very conveniently subcetagorised according to the type of complements they can occur with. This sub-catagorisation of verbs is not an arbitrary one; subcategories of verbs generally belong to semantic groups, and these semantic groupings may have their syntactic reflexes. For example, verbs which take Ha complements are the only verbs in Igbo chich make some claim about the truth value of their complements. This claim may or may not be true, but it is a claim all the

same - an explicit claim by either the superordinate subject or somebody mentioned in the main clause that what he says, hears, thinks at cateralis either true or felse. No other category of complements in Igbo makes such a claim. If such a claim is factive, that is, if the matrix or main clauseverb happens to be one that entails the truth of what it claims, then the complement of such a verb may be optionally relativized to give what we have described in chapter 6 (cf 5.1.2) as Factive Relative clauses. As we make abundantly clear in the above chapter, such relative clauses (the output of the T-rule Relativization-Relat. 22 which is exclusive to factive Ne complements) constitute the syntectic exponent of factivity in Tobo. Only factive Na complements may undergo this rule of relativization, T-Relat,, to yield an acceptable light surface atructure. By this statement, we do not imply that only factive complements meet the structural index for Relata; no, all Ha complements do meet the requirement for this rule application, but only factive predicates quarantee the grammaticality of the output sentence.

The verbs which co-occur with mag complements, on the other hand, are those verbs which ask for information, rather than make a claim about the truth value or otherwise of the propositional content of their complements. Admittedly, there will be a lot of cross-classification between Na and mag complement verbs for the simple reason that subcategorisation is not hierarchic - a phenomenon that is natural in human language. This cross-classification involves those verbs with such semantic characteristics that they can either express a claim about the truth value of their complements, or doubt and, consequently, ask for some information about them.

The implication is that there is another rule of Relativization T-Relat; this is the case. The rule of Pseudo-cleft sentence formation in Içbo entails an obligatory relativization of the output structure from the insertion of hue - thing/what'and the copula we before the complement sentence. Unless this is done, the resultant surface structure will not beer the normal tone pattern essociated with relative clauses in Igbo. This rule Relat, is therefore contingent on Pseudo-Cleft which is a general rule in any language, and consequently is not the worker of factivity, as Relat, is.

But inspite of the sementic differences between Na and ma2 complement warbs, they share the following syntactic characteristics:

- (a) they do not impose any tense restrictions on the worb of their complements and
- (b) these complements are never subject to Equi NP Deletion.

 The first of these properties can be explained on the grounds that there is no dependency relation between these main clause verbs and the warbs of their complement such as one sees between ke/ma Subjunctive werbs and the warbs of their complements.

The verbs associated with the subjunctive (ke/me,) complements on the other hand, are generally those that express wishes, requests, expectation and such non-propositional prodicates as designate efforts and determination. All these verbs have one thing in common - they always introduce complements whose propositions are mare expectations, and the expectation of an event doas not necessarily quarantee its realisation. Recouse of this semantic constraint, the verb of a ka/ma, complement is always future in relation to the time expressed by the main clause verb, hence the verb which can introduce the subjunctive complements have been variously described as verbs of 'forward-looking aspect' (Aijmer, K. 1972) 'forward-looking' warbs (Bonney (1974), and 'futurist warbs' (Dosephs, 1974). In Igbo, where the non-infinitival (ka S) and the infinitivel forms exist side by side and the latter can be shown to be a transform of the former. the future tense marker go never occurs in the ke form. It is this futurity of the ka complement werbs and the identity of the superordinate and subordinate MP's that quarantee the application of EQUI. given that the other condition 23 has been met. In other words, only the Subjunctive Complements in Igbo may undergo the Equi-KP Deletion rule to yield

infinitival complements which are always in object position in contrast to those of Emotive predicates which are invariably in subject position. It will thus be seen that the semantic attributes of these verbs are reflected in the type of T-rule to which they are subject 's'.

On no account will No or may complement-taking verbs satisfy these two requirement of identical NP's in both clauses as well as future tense (be it marked or unparked) in the complement clause. Since verbs can only be subcategorised according to the type of complements they can take, and since this subcategorisation can be effectively marked by complementizers, there is no reason why complementizers should not be introduced in the Base by re-write rules.

CONSLUDING SUMMARY:

The subcategorisation of verbs on the basis of the complementizers each subgroup may take is necessary, but not sufficient to ensure the right combinations of main clause verbs and complement types in view of the fact that some of these verbs are capable of taking more than one complementizer. Therefore the specification of the particular complement from a list of two or three possible complement types is needed to supplement the shows subdivision of verbs according to possible complementizers. But in Igbo, it happens to be the case that each complementizer corresponds to one and only one complement type (witness the fact that infinitivals are transforms of the basic complement types, and hence the Igbo equivalents of English for-to complements are transforms of ka subjunctive and other NP subject complements to emotive predicates). This fact means that complementizers alone can effectively mark complement types in the language, and this ergues for their spacification in Base structures in preference to the alternative mathod which re-writes such pre-sentence nodes as Q S as me, S in specific contexts. We reject this method from the over-ell consideration of Igbo grammat where nodes such as Q, Cond(itional) Subj(unctive) at cetara are no more than ordinary triggers for the application of specific T-rules.

^{73.} The other condition is that the main clause warb must not be a templace predicate - that is one that appears in this type of structure VP V NP₁ NP₂; this constraint is discussed in chapter \$.

We also argue that Iobo complementations sell as other function words such as prepositions and comjumnium to shown, from synchronic evidence, to be verb forms, a phenomenacish lands one to hypothesize that these function words in the lamping for which there is no synchronic evidence of relationship with existing series was the associated with some erstabile varbs. Thompson and Lf 31923 more out with a similar conclusion about Chinese co-verbs and prepositions. will allosephs (1974) reaches the conclusion that the distributional warmeristics of Japanese complements zers and their close association with sme: Japanese varbs do support their specification in the Deep structure winamolement constructions in the language. That there is as yet no prospilintuistic evidence from other members of the kwa-family of languages macraich igho belongs in support of our hypothesis is a reflection of the state of the study of this language group. If the so-called function words are work forms of some sort, then they have a semantic role to playing the grammar of these languages. unlike their counterparts in English when may be devoid of such a role. From the evidence presented here, we remain thenceforth, a Doop structure specification of the mode Comp. which magnetes the appropriate complementizer selected from a group of possible remissentizers according to the complement sentence embedded as MP.

hepter 5 Na Indicative Complementation

5.0.0 Introduction

This is the first of four chapters devoted to the mechanics of Noun Fhrase Sentential Complementation in Igbo - that is, the transformational processes involved in the construction of Noun Phrase Sentential complements in the language, and the constraints on the applicability of these transformational rules (T-rules).

It will be recalled (cf 4.1.0 - 4.1.3) that from our investigation, we have been able to distinguish the following categories of MP - complements in Igbo:

- (a) Na' (Indicative) Complements
- (b) Ea (Interrogative)
- (c) Si (Imperative)
- (d) $\left\{ \begin{array}{l} Ke^k \\ Ba_1 \end{array} \right\}$ (Subjunctive)

Igbo Infinitival complements are not Deep Structure complements, but transforms of some, but not all, of the above complement types. For example, some Emotive Verbs, which may take <u>Ra or Ray</u> complements as subject are a source of Subject NP infinitival complements, (see 5.1.3, and 5.2.0), and Ka/Ka, subjunctive complements provide yet emother source of Igbo Infinitival object complements, given a special subclass of verbs in the main clause; subjunctive complementation is fully discussed in chapter 2. Thenever we refer to Infinitival Complements in Igbo, it should always be borns in aind that these are derived rather than underlying forms as is the case with the English for - to complement which is basic and not a transform.

We have also observed that the Igbo squivalents of English Wi-Questions, functioning as NP to complement-taking verbs, are not instances of NP - complements, but of complex Rowinsis (a kind of Referential NP) with a nominal head and definitizing or relative clauseIn view of the relationship between Yes/no and Kedy (UH-)
Questions, we have decided to discuss their snelysis in one and the
seem chapter 6 in order to facilitate comparison and contrast.

complementation, while chapter & discusses the Subjunctive Ka/Baj complements. In the final section of this chapter &, we critically examine and reject the distinction between Noun Fhrase and Verb Phrase complements as having no justification in the Phrase Structure of the Igbo language. In the final chapter \$\mathfrak{q}\$, we try to piece together the observations and conclusions that can be drawn from this investigation with regard to the Igbo language in particular and general linguistic theory. After each chapter, a sample list of verbs which can function in the asin clause of that complement type is given.

Chapter 5 is solely concerned with Na complementation and related questions. Let us recall that this is the only category of Igbo NP-complements which can be factive. The termsfactive/non-factive and enotive and non-emotive are discussed in detail in 5.1.2 where they will be shown to have syntactic justification.

This chapter is divided into the following sub-sections:

Section 5.0.1 argues the case for the primacy of complementation as opposed to Rominalisation, thus disagreeing with the contrary views expressed in Stockwell et al. (1973: 526-527). We also justify in this section, the Fhrase-Structure (F-S-) rule

which specifies the complementizer as a Base node. Recall that the defence for this Deep Structure specification of comp. has been defended in 4.3 (p.217f).

In sections \$.1.0-\$.1.3, we discuss in detail the transformational rules which MS complements undergo, critically
examining such parameters of distinguishing emong complement-taking
werbs as factivity and non-factivity and Emotivity versus nonEmotivity. We come to the conclusion that such distinctions are wellmotivated in the analysis of Igbo complement constructions, although
emotivity and factivity are not necessarily mutually exclusive, since
some emotive verbs are, in fact, factive.

Section 5.2.0 establishes what we have argued elsewhere (0.3.1) namely, that surface ma2 complements can originate from an underlying Yes/No Question or from a Conditional Clause of either the (a) or (b) type below:

- (a) { Ya'euru ma2 } If it is that 5 (b) { A si na } S If one says that
- A thorough examination of these conditional clauses shows that, when they function as Subject MP to Exctive verbs, they are one of the sources of Igbs infinitival complements in the Language.

The final section of this chapter, 5.3.0 gives a sample list of matrix verbs involved in Ha complements.

5.0.1 Complementation Or Hominalisation

Recently, it has been argued (Stockwell et al. (1973: 516-29)) that what Rosenbaum (1967) analyses as Noun Phrase complementation is better treated as Kominelisation. They argue, very convincingly, that the distinction between NP and VP complements has no solid syntactic justification for English, a view which we uphold for the Igbo language (see chapter 8, (8.4.0)) Stockwell, Schachter and Partee (ibid) also question and reject Rosenbaum's analysis of

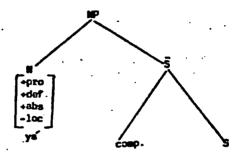
NP --- (Det) It S in fevour of their own analysis of

NP --- S, maintaining that Rominalisation, rather than

complementation, is primary to the analysis of such English constructions

as described by Rosenbaum (1967).

In characterising the system of complementation in Igbo, we take complementation to be primary, since there is sufficient syntactic evidence from the language in support of an analysis of the following type in which the abstract pronominal form - ya (it in English) precedes the sentential complement thus:



Recall that our enalysis differs from Rosenbaums in that we introduce our complementizers in the Sess, while he inserts his transformationally. Since equivalent Igbo sentences such as are being described here are directly dominated in Deep Structure by the node, MP, the ergument is not whether these sentential structures function as MP's (Stockwell et al. Ibid 529), but whether our preferred analysis of MP's comp S Ap is justified for the Igbo language.

We have demonstrated (4.3 p.217 -233) that the choice of the one rather than the other of the Igbo complementizer morphemes has such important syntactic and semantic consequences that a Beau generation of the complementizer is imperative. In the rest of this section, we shall show why the presence of the abstract proform ya (it, thing) is necessary for an adequate characterisation of Noun Phrase complementation in Igbo. In order to justify the above analysis, we offer the following reasons:

(i) Ye is the pronominal form to which the constituent S is a complement; its Deep etructure presence is justified by its presence in Surface Structure, especially after Verbs of Saying, whenever emphasis is intended. In the absence of the complement sentence, Ye is the proform.

We illustrate these points with the following few examples:

- l (s) Dgu kwuru (yé) ekwu na ókaokpa abésle.

 Dgu said it saying that cock has crowed.

 Dgu said (it) that the cock has crowed.
 - (b) Ánûna m (ya) na dí ya alole ala bakse.

 Heard have 1 it that husband her return have from land
 of shite people.

I have heard (it) that her husband is back from oversees.

- (c) Unu anukwele ya

 You (pl) heard have also: its You have also heard it.
- (d) I keels (yē) na madhū ji ansu ansu?

 You balisve have it that person does die death?

 Do you balisve that a man can die?

It will be observed from (e) above that the proform ye can be separated from its complement atructure by the intervention of each lexical items as nthury (then).

Sughth an additional feature was included by Sinhe (1970) in an unpublished York University Ph.D. thesis on <u>Predicate Complement</u>
Structures in Hindi and English.

- 1 (f) Aai m ya mochim onu Tell I him/her shut up mouth I am telling him to shut up.
 - (g) I guanaara ya ya.

 You tall well to him it: You did well to tell him so.

If the ya proform is optional (as shown by the use of the circular brackets) in most of the foregoing examples of Na complements, it is definitely obligatory in the following examples of Ea₂ Interrogative complements; the obligatoriness of ya in (2s-c) is due to the fact that the matrix (main clause) werbs are those which have compate/inherent complements in Igbos

- 2 (a) Hae anyl ceghe écice ya un may 0 dikwa nohu that we are thinking it is whether he is elife.
 - (b) Hee anyi na atu anya ya su ma ha gadukwara.

 That we expecting it is whether they did reach:

 What we are expecting to hear is whether they did errivs.
 - (c) Her los tughe ujo ya eu ne ndi ohi ga ebya.

 What Ibe is afreid it is that thieves will come:

 What Ibe is afreid of is that thieves will come.

In the above examples, (which are Facudo-Cleft sentences) each of the verbs has a cognate complement which is part of its meaning of the sentences of the sentences of the sentences of the sentences.

For werbs such as these, the ya proform is obligatorily present in Cleft sentences of the above type. From these few illustrations, it is obvious that the Deep Structure proform ya is not morely the analyst's construct, at least, in Na and Ma2 complements. The same could be shown to be true of Si Imperative complements.

It is true that a similar case for ya is not easy to establish for such categories of NP complements as the Subjunctive ones introduced by Ka/Ra. However, the need for such a Deep Structure ya becomes obvious when one considers the second reason for the ya comp. S analysis:

- (ii) The presence of a Deep Structure ya enables one
 to capture some paraphrase relationship emong some
 Igbo sentences. The two rather general rules
 involved are:
 - (a) The ye to D conversion, and
 - (b) The ye to he conversion rules

Both of these are morphochonemic rules. We discuss them one after the other:

- (a) The ya to 0 conversion entails the following transformational processes in the generation of (3a) from (3b).
- (3a) O di mkpa: It is necessary.
- (3b) Yá dị sápà
- (3c) 0 di mkps (by ye to 0 conversion oblig.)

 O di mkps (by your harmony oblig.)

What the above rules do is as follows: the first rule converts an underlying proform ye into the phonological from 0 which now becomes the input to the Fhonological rule of Vowel Harmony (cf 2-1-1-)

- (b) The ya to hee conversion

 This rule which substitutes hee for ye is needed after the optional rule of Extraposition has moved the complement to the end of the entire sentence, as the following (4a-c) shows
- 4 (a) Ya na Úgu ga ejhó di rikpa. (Base)
 - (b) Ya di okpa ne Cgu ge ejhe (By Extraposition)
- (4b) seets the structure description for either Ya to 0

 conversion or for[Fseudo-Cleft rule. Applying the first of these, en

 get (4c), but/by the application of Fseudo-Cleft to the same (4b):
 - (c) 0 di sipa na Ogu ga ejhé. (by Yá to 0)
 It is necessary that Ogu should go.
 - (d) Hee di skpa eu na Ogu ge ejhe. (by Pseudo-Cleft)
 - (e) Nice' di skpa] wu na Ogu ga sjhe (by Relativization)

It will be observed from the foregoing derivation that Extraposition creates an input structure for either Ys to 0 conversion —
or for Ya to her conversion. This means that whenever the proform
Ya is sentence-initial, it must either be changed to the harmonising 0
or to the proform Her. The item her - "thing" is a special member
of an open class of items, and it can stand for any inanisate object
and shares the same distributional relationship with Ya. It is used
in place of Ya whenever Ya is followed by either a relative clause
or a definitizing (deictic) item, as in (4e) above where the complex
of an add up of the head her followed by a qualifying clause
di skpa (her di skpa). We shall discuss in detail the fact that the
output of Fasudo-Claft in Igbo is a relative clause MP in section
5.1.0: p. 262-66-

tet us go back to the main argument for a Deep Structure Ya from which the hersonising 0 is deriveble and for which here is substitutable in the appropriate contexts. Since it can be shown that Ya is morphophonemically related to 0 and here, and since all categories of Igbo NP complements are subject to at least one or the other of the above rules (some are in fact subject to both of them), it therefore makes for economy without detracting from descriptive adequacy to generate Ya in the Base and relate these other forms to it by means of morphophonemic rules.

Now consider the third reason, which is an important one.

(iii) The rule of Ya to O conversion has its motivation independent of NP complementation, being a general rule of Igbo syntax; therefore its application in Noun Phrase complementation is but an exemplification of its general use.

This third reason needs some explanation. Both Ya and D are in this same system of one term (a system of one term in the same that it is ya and ya alone that can function as the head of Igbo sentential complements). It thus shares this characteristic with the third person singular pronoun Ya he/she, as the following Igbo pronominal system shows. In Igbo pronominal system, there is such a distinction as between Separable and Inseparable pronouns thus:

SEPARABLE			Inseparable		
1st	Sing.	th ý			
2nd	•	ei		1	
3rd	•	Ye	•	0	

There is no such distinction in the plural. Except for the first person singular, all other insparable forms harmonise with the vowel of the following werb thus:

- 5 (a) 0 gburu eka : .He killed a python.
 - (b) 0 heuru eke : " see " "
 - (c) 0 ziri anu: " ate some ment
 - (d) g shiri sshir stold a lis-

The quality of the D therefore depends on the quality of the womel of the verb ston, this is what we mean by womel harmony. Such facts as these must be reflected in a transformational account of the language. There is no other choice than to derive the inseparable forms from underlying separable ones by means of phonological rules. 6(a-) must be seen as deriving from either underlying or intermediate structures in which the NP is Ya thus:

- - (c) * ríri any O riri any
 - (d) apjri spi

These two forms of Ya are positionally determined:

The harmonising $\underline{0}$ is always in subject relation to the verb, never in object relation, whereas the Ya form can be in either relation depending on the type of construction concerned. In other words, whereas the \underline{Ya} form may be either subject or object, the $\underline{0}$ form can only be subject as the following examples illustrates

- 7 (a) Aleuna a ya ...
 I have seen him/hez/it
 - (b) Ya bys, anyi again.

 If he comes we shall set out.
 - (c) 0 byaza tán. He casa warly.
 - (d) "Ya byers fam : He came early.

The ungrementicality of 7(d) above is the the non-application of the obligatory rule of Ya' to U conversion.

The Ya form can function as subject only in the following construction types.

- (i) Imperative Construction
- (ii) Conditional
- (111) Narrative

He give only one example of each construction type:

- 8 (a) Imperative : Ya bya : Let him come.
 - (b) Conditional: Ya heu a, ya agbaa

 If/whenever he sees me, he runs away.
 - (c) Narrative : Anyi gakhmuru ya, ya akwa ibyani Wa met him and he consented to come.

In 8(c), we see Ya' (him) as object of gakhouru and Ya'z as the co-referential subject of the conjunct - Ya skee ibyeni.

Sentences such as 7(a) show that Ya is neutral as to gender, there being no grammatical gender in Igbo. This fact, however, leads one to the next important consideration about a Deep Structure Ya. In Igbo, there is only one homonym, Ya; consider the following sentences:

It will be observed from 9(c) that ye represents the pronominalised form of the locative phrase of the house).

All these uses of ye have a lot of similarities in that ye in all the examples so for given is definite and pronominal; these seem to be the core meaning shared by ye and other personal pronouns in Igbo. Whether ye stands for a person or thing depends on its anaphoric relationship in any sentence.

We therefore regard other attributes such as personal, abstract and locative as distinctive. For these reasons, we analyse Ys as a complex symbol (cs) of the following features

From this feature analysis, it follows that Ys in (9s) will have the following matching reading:

+ pro + def + hum

+ plurel

will be Thus eny! Bu 'I' will be: 4DTO + pro + def + def - plurel + hun . 1st pers + 1st pers means + singular + plural - plurel - loc - loc . Anyt

and so on and so forth. We have so far concentrated on Ye bacause it is the various uses of Ya which ought to be distinguished by their distinctive features:

In Igbo, the distinction between Expletive and Anaphoric

it such as is made in English obtains, but under a different set
of constraints, in view of the fact that every sentence of the

language has a subject to which subsequent pronominal forms refer
thus:

For 10(b) to make sense, it must be related to 10(a) in a discourse, or refer to some other item previously mentioned, and this applies to 3(a) on page 281, but not to 4(c), while 10(c) and (d) show conclusively that the English Expletive "it" is represented in Igba by distinct lexical subjects.

Summery

In the foregoing section we have argued for a Deep Structure abstract proform ye in the enalysis:

¹ The shows feature analysis applies to Ya se such as to other personal pronouns. For example; all personal pronouns can be fully specified for features as follows:

.....on the following groundes

- (i) It remains present in surface structures
- (ii) It pronominalises sentences and locatives (prepositional phrases), while ya personal pronoun pronominalises MPs.
- (iii) Its specification in the Base enables one to state some T - rules in Igbo very economically, and thus capture necessary paraphrase relationships among sentences of Igbo.
 - The rule which converts ya to the harmonising D in the appropriate contexts is independently motivated in Igbo, therefore its application to the proform ya in NP complementation is not its raison d'etre but merely en illustration of its general applicability in Igbo syntex.

In view of the foregoing reasons, we shall stick to the ya compensation of the state of the same complementation.

We take no issue with the view that Mominalisation is primary to the analysis of complement sentences; all we say is that complementation is a special case of Mominalisation which deserved a detailed treatment in its own right.

5.0.2. Order And Cycle In Syntax

In order to reduce the excessive power of Transformational theories of language and increase their empirical content, T = G grammarians have proposed that, in addition to placing some constraints on the form of the Base, general restrictions should also be placed on the form and operation of possible transformations. Thus the Boolean condition on enelysebility (Chousky, 1965: 143-4), the recoverability of deletions (Chousky, 1964a: 71), the A = gver A principle (Chousky, 1964 b: 930-1)

And Ross's movement constraints as originally proposed (Ross 1967) are all proposals of this kind. Such constraints as these are described as 'local' in the sense that they restrict the matching of Base and Surface structures by limiting the ways in which successive stages of derivations may differ. In addition, various GLOBAL constraints have also been put forward to block derivations which have been permitted by local constraints if the output of transformations is a derived structure which differs from the corresponding Base structure in certain ways. Thus the Cross-over constraint (Fostal 1971) and the Lowering constraints (Lakoff 1971) are examples of this second type. These constraints are global because they make the applicability of a rule at a given stage in the derivation dependent, not only on the structure of the tree st that stage, but on what has happened at earlier stages in the derivation, that is, on the derivational history of the tree. Another type of derivational constraint considered essential in Transformational theories of language is Extrinsic rule ordering, although a lot of doubt has been recently cast on its validity. " " If Extrinsic Ordering is a derivational constraint, them one would naturally expect it to be applicable to languages other than English. for instance, the Igbo language.

As of now, too little is known about the Igbo lenguage to warrant any rigid assumptions about the principle of Order and the Cycle in 4 transformational grammar of the language since, to be valid, such assumptions must swait more facts from detailed studies of Igbo. This has to be so in view of the following facts:

Any assumption or hypothesis about a phenomenon is bound to interact with a hypothesis about other phenomena in the same language; swan an exact formulation of each may depend, to some extent, on the form of other rules.

Add to this, the fect that in any evates of ordered rules, the the form and order of such rules must reflect the ceneral form and order in the language. We are as yet in no position to give such forms and order: they are still far from clear. But what we are clear about is what the rules do and, approximately, what structures they operate on.

However, the hypothesis of Extrinsic Ordering has been called into question even for English, a language so much described and studied by both native speakers and foreigners. Koutsoudas (1972. 1973) has taken the extreme view that transformational rules ere unordered. Having demonstrated that some T - rules are not strictly ordered, he goes on to argue that along with Fartial Ordering no order must be taken as two possible alternative hypotheses until there are facts to falsify the No-Order hypothesis. Twils Lehman (1972) writing in the same vein claims that a Barking convention is as effective as an Ordering one and, in fact, explains certain things which the Order hypothesis fails to explain. Such a marking convention had earlier been advocated by Kenstowicz and Kisseberth (1970). Very recently, Bonney (1974) has around that invoking the obligatory precedence crinciple (that is the precedence of obligatory over optional rules) and such well established constraints as Ross's Sentential Subject Constraint slong with Intrinsic ordering, one can do without the principle of Extrinsic crder.

Oxford University D.Phil thesis

(1974)

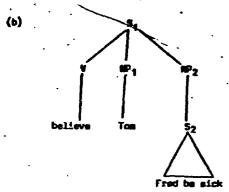
However, there is no denying the fact that some order is necessary in generative transformational grammer for the derivation of some sentences and the blocking of some deviant ones. What is generally debated is shether the order is Extrinsic or Intrinsic. Order is extrinsic if it is explicitly stated as part of the formal properties of language. For example, EXTRAPOSITION is extrinsically ordered before FRONCEINALISATION, and this ordering is based on the assumption that there is a rule of pronominalisation which substitutes pronouns for full NPs, and that the rule which moves that clauses is Extraposition and that the movement is rightward.

Bonney (1974: 85ff) points out that if the movement were leftwards. if for example, EXTRAFOSITION were replaced by Tmonds rule of INTRAFOSITION (Emonds, 1969) the ordering argument would fail. because one can still account for the data of the following 11(a) -(d) without any recourse to extrinsic order. In other words, 11(a) - (c) can be shown to derive from a common Base form, while 11(d) does not.

- was elected surprised Fred. (e)
 - (b) That elected surprised him.
 - (c) that was elected. Ιŧ surprised
- (d) surprised him that Fred elected. INTRINSIC _Order, on the other hand, is determined by the structure of the relevant trees and the structural description of the rules. For example, in standard analyses, there are many cases where the applicability of a certain rule is contingent on the prior application of some rule that creates an input structure for it. In Emalish, for instance, SUBJECT RAISING creates the input structure for PASSIVE in the derivation of 12(a) from 12(b).

² Koutsoudes, Andreas (1974) "On the Non-Sufficiency of Extrinsic Ordering. Indiana University Linquistic Club, Fimeo (1972) "The Strict Order Fallecy" Language 48. 3 Lehmen Tuile "Some Arguments Against Ordered Rules" Language 48 Kenstowicz end Kisseberth "Rule Ordering and the Asymmetry: Hyrothesis Papers from the 5th (1970) Regional Feeting of Chicago Linguistic Society 5 Bonney. W L

12 (a) Fred is believed by Tom to be sick



The same applies for the ordering relationship between FASSIVE and AGENT DELETION in the derivation of 13(b) from 13(a):

- 13 (a) He was caught by the police
 - (b) He was cought.

So far as our investigation goes for the Igbo language, there has been no case where extrinsic ordering is required to ensure the blocking of some ungrammatical sentences of the language. Rather, it seems that no fixed order, except in the case of intrinsic ordering, as defined above, is necessary in the derivation of Igbo complement sentences. As we show in section 5.1.0 p.259ff, what happens is that some rules, if applied early in the derivation, result in an early termination of such a derivation, whereas the same rules, if left unapplied, make the derivation of whole paradique acquentially possible. This situation obtains in cases where the (derivad) structure meets the structural description for two possible rules, and the application of one rule yields one type of grammatical sontence, while the application of the other yields a stylistic variant of the same sentence.

But once this optional rule applies, it creates an output structure which becomes the input to the rules of Infinitivization and Complementizer Deletion. These two rules are, therefore, contingent on a prior application of EUI. Similarly, the application of Passudo Cleft creates an input structure for the rule of Seletivization which has to apply, in some cases, vacuously, or else grammatical deviance is the consequence. Revertheless, any order which we establish in this investigation can only be tentative, being specific to the construction type being investigated here— Nown Phrase Complementation.

THE PRINCIPLE OF THE CYCLE

The formulation of the principle of the Cycle depends crucially on an important fact about Transformational rules, namely, that they (the T - rules) are defined over sentence (s) nodes. Thus REFLEXIVIZATION and FASSIVE can apply only to nodes which are immediately dominated by the same S: node, but ECUI, SERVET RAISING and NEG-RAISING are explicable only to structures in which one sentence is embedded in another. In most versions of TG, T - rules are also defined over strings such as NP (cf Chamaly 1972)

Convincing arguments have been brought forward in support of the principle of the Cycle in syntex - that is, the fact that some transformations, but not all, apply in a block, first, to the most deeply embedded sentence in a tree, then to the most sentence up the tree, and so on up to the main clause - more recently by These (1967 & 1969)⁶, Pobin Lakoff (1969)⁷.

- (1969) "On the cyclic nature of Emplish
- Froncominalisation (Fines) ETL

 7 Lekaff, Robin (1969) *A Syntactic argument for Degative
 Transportation 5th Chicage Ling. Soc.

Ross, J. R. (1967) Constraints on Variables in Syntax Fh.D. Thesis. EIL

Although Grinder (1972)[©] has challenged this principle on the grounds that there are no primary solivations for it in the syntax of English, he, nevertheless, coses to the following conclusions

(cases of primary motivation for the cycle) it is not impossible that one could bring forth a number of second order arguments for the cyclic principle of rule application. George takoff, for example, has argued (in classes at the California Summer Linguistics Institutes, University of California, Sancta Cruz) that given the cyclic principle, one can dispense entirely with extrinsic rule endering. If a number of such arguments could be sustained, their cumulative weight could distate a relatively unambiguous choice between the two alternatives. (Kimball (ed) 1972 p 110). Summing up Grinder's argument for an iterative (bottom to top) principle as a legitimate rival to the cyclic principle, Lakoff observes:

"In short, Grinder's paper provides us with some good remember seintaining the cyclic principle, though they are not iprimary. motivations' in his sense." (Ibid p. 115) There is, therefore, wary little doubt that the principle of the cycle has a strong basis in a transformational theory of language.

But there seems to be no need for such a principle in a transformational grammer of Igbo for the following reasons:

One of the classic cases in favour of the cycle comes from the interaction between the Fassive and Raising rules in English. But there is no Passive construction in Igbo, and so there can be no Fassive rule in the language.

The nearest that one gets to a Passive construction is found in the following 14(s-c) with Indefinite pronoun subjects:

- 14 (a) E gouru saghi One killed person: A person was killed/ Lives were lost.
 - (b) A sera iou: A las una made.
 - (c) E kauru si () füry og'y

 One said that it resulted fights

Although there is some evidence of Raising in Igbo with a small subset of Emptive verbs, one cannot talk of the interaction of FASSIVE and RAISING in Igbo in the sense that one talks of the interaction of the same rules in the production of the following English sentences (Raising in Igbo is discussed in 5.2.1:3/6ff).

It is reported to have resulted in a fight.

- (d) Lucy believes that Harry kissed Baxing.
- (e) That Harry kissed Maxine is believed by Lucy (by PASSIVE)
- (f) Eaxing is believed by Lucy to have been kissed by Harry. (by PASSIVE-RAISING-FASSIVE)

In view of the fact that the notion of derived subject (see 14(f) where Maxine is the Surface Subject through RAISING though an underlying Object of the that clause in 14(d) and the notion of the cycle establishing the order as FASSIVE-RAISING-PASSIVE - ere crucial to the derivation of 14(f), then, these two notions - derived Subject and the Cycle - do not seem to have a place in Igbo transformational grammar. Throughout this investigation, there has been no need to invoke these two notions in order to account for the derivational history of any Igbo sentence.

B Grinder, John (1972) "On the cycle in Syntax" in <u>Syntax and Somentics</u>, Kimball (ed), Seminar Press, Bee York and London.

The other case that argues for the cycle is the interaction of PRONOMINALISATION and ERUI (Rose 1969) in the generation of the following English sentences:

- 15 (a) Discovering that he, was sick disturbed Harry,
- (b) Discovering that Harry, was sick disturbed him,

 The chain of co-reference in 15(a) is that the terms he, Harry

 and the missing subject term of discover refer to the same in
 dividual, whereas in 15(b) the same co-referentiality cannot be

 established between the three terms. And the principle of the

 cycle is invoked to explain the two readings, though Postal (1972)

 has shown that PRONOMINALISATION is post cyclic. But unlike English,

 Igbo has two morphologically distinct third person singular pronouns,

 ong of which is always co-referential thus:
 - (c) Ogu icofuta na ya turu ashi na emute ya.

 Ogu realising that he told a lie pains him.
 - (d) (gu icoruta na O turu sahi na seute ya.

In 15(c) the ye pronoun is co-referential with the antecedent noun, Ogu, whereas the O form in (d) is not; furthermore the Noun Ogu and the pronouns Ye or O cannot be switched. The problem does not therefore erise in Igbo.

English, (Lakoff observes that "given the principle of the cycle and independently motivated analysis, all known cases of extrinsic ordering disappear" (Kimball (ed) op. cit. p. 114), such a principle seems to have no basis in Igbo syntax. Since these two rules PASSIVE and RAISING) do not interact in Igbo, one cannot talk of their interaction with such minor rules as Reflexivization and There-Insertion.

5.1.0. NA NP-Complementation

Igbo NP sentential complements can be generally represented by the following Deep structure configuration in Fig. 2

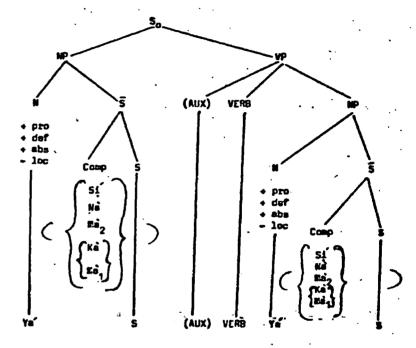


Fig. 2

The above figure shows that an NP-complement in Igbo is dominated by an NP node which is itself directly dominated by \$ (if it is in subject relation to the verb) or by VP (if it is in object relation to the verb). Let us begin our investigation into the process of Noun Phrase Sentential Complementation in Igbo by examining the steps involved in the formation of the following paradigm of Igbo sentences, beginning first with Subject, and then, Object NP-complements.

- 15(a) Nà ựmyākā në agá akwykup bhêra úrů. That the children are attending achool is usaful.
- (b) \$\overline{0}\$ bhere uru ne umuoka ne egé skeukeo It is useful that the children are attending school
- (c) Here bhare uru sự nh ựn hiệ nh agá Mongleso Thing which is useful is that children are attending school:

 What is useful is the fact that the children are attending school.
- (d) He's bhara uru by akwukeo umuaka na ags.

 What is useful is the schooling that the children are doing.
- (e) Áksukso upúskā na agá mỹ heé bhāra uru.

 Schooling children are doing is thing that is useful

 The fact that the children are schooling is what is useful.
- 17(a) Anyl anuna na ha byara abya.

 Na haya hard that they did come.
 - (b) Hire anyi na anina au na ha byara abya.

 I miruna

 that we have heard is (the fact) that they came.
- (c) Obyibye he byers of her my ne enime norms from they came is thing so have heards.

 The fact that they came is what we have heard.

The sentences 16 (a-e), like those of 17 (a-c), are derived from one common underlying structure such as Fig. 3. They are stylistic varients of the same Deep Source, being derived sequentially from either derived structures or from well-formed sentences through the application of some optional rules.

In other words, one does not need to go back to the Base Form in order to derive, say, 16(c) or (d), but can do so directly from structures (or at times well-formed sentences) which have been priviously derived from the Base Structure. Admittedly, there is some rather subtly difference of meaning between 10(c) and (d) on the one hand, and 10(a) and (b) on the other. This difference is due to focus of emphasis brought about by the application of Pseudo Cleft. But this is a low order difference of meaning which does not disqualify the paradigms 15 and 17 being treated as such.

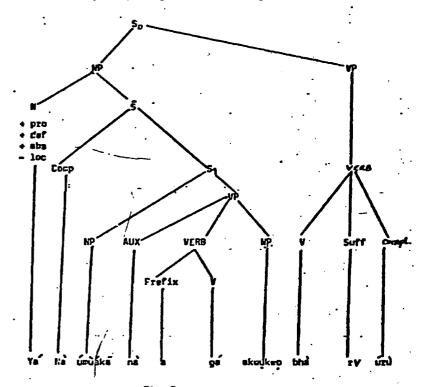


fig 3

The application of only one T-rule - the Ya Deletion, and the relevant phonological rules yields the acceptable sentence 16(a).

(i) Ye' Deletion

As the name, Ya Deletion, implies, this rule deletes the abstract proform ya, thus yielding 16(a) as the output:

16(a) Na uniaka na aga akuuken bhara uru.

If ya Deletion applies, then no other rule is applicable; if it does not apply, other rules are applicable since their application depends on the presence in the structural description of the proform ya. Assuming, therefore, that ya deletion has not applied, we can go on to show how sentences such as 16(b-e) as well as 17(b-c) can be derived via the application of the rule of Extraposition from subject, the structural description of which is given as follows:

(ii) Extraposition from Subject

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Process : attach 2 as the right sister of 3 Condition : optional The output of the above rule is 18(a), which is not well-formed:

- 18 (a) Ya bhara uru na ymyska na aga akuukup At this juncture, we are faced with another choice between
 - (i) Ya to D conversion, or
 - (ii) Ya to hee " in Pseudo Cleft sentence formation.

The choice of the first alternative plus the application of the relevant phonological rules yield 16(b), while the second alternative, the Pseudo-Cleft rule - entails the substitution of here for ya and this makes the derivation of 16(c) - (e) sequentially possible. As was the case in the first set of choices, the selection of any particular rule depends on the particular member of the paradigm that one mants to derive, and not on any rigid order.

Again, as with ya deletion, the application of ya to 0 conversion means that ya is not available in the structural index for such other rules as Pseudo-Cleft which entail its substitution with here——e-process which is productive.

The output of this rule is 18(b).

18 (p) 0 pustA nin we h

18(b) becomes the surface sentence 18(c) by the application of the rule of vowel harmony and other PHONOLOGICAL RULES.

18 (c) 0 bhare uru ne úmuska na aga akeykse.

Se now take up the second alternative above which involves the application of Facudo-Cleft on the derived structure 18 (b).

SOs 4 VP Comp & Ya

1 2

Frocess:

- (a) Insert wy before Comp \$.
- (b) Substitute hee for ye.

SC: 1 2 mg :

The output of this rule is 18(d) which is by no means well-formed.

18 (d) Hee bhare urul-eu na umuaka na aga skuukuu.

Recall that in 5.0.1: p. 207, we justified the substitution of the for Ya in Fseudo-Cleft sentence formation on the grounds—that he is a special member of an open class, and shares the same distributional relationship with ya, both of them being nominal items. The second reason for this substitution is that Pseudo-Cleft sentences in Igbo are precisely of the same syntactic characteristics as embedded Kedu questions, (the Igbo equivalent of English SH - Questions):

They are all Relative clauses, a conclusion arrived at from the syntectic characteristics of Igbo relative clauses. Since the output of EXTRAPOSITION is a structural configuration which meste the structural description for Pseudo-Claft, and since Fsaudo-Cleft is intrinsically ordered after Extraposition and entails the change of Ya to Hwe, we feel justified to relate the deep atructure ya to hee by means of a morphophonemic rule applying after the Facudo-Cleft rule. Recall from section 5.0.1 p. 23% that a transformationally inserted hee in Pseudo-Cleft rule application is optional with such matrix verbs as have inherent object, igha agugo 'to doubt' for example, for the simple reason that the deep structure ya is obtionally present in the surface. Pagudo-Cleft transforms of their complements. It is generally the case that whenever ye is sentence - initial in the type of construction being considered here, it must undergo one of the following morphophonemic rules:

- (i) Ya to 0 Conversion
- (ii) Ye to hee Conversion, if it is followed by a qualifying structure.

Observe that as a result of the insertion of the copula win Pseudo-Cleft sentence formation, the relation of the subject her to the following deep structure VP bharvuru now becomes that of head and modifier.

⁹ Kedy Cuestions are fully discussed in chapter 6 (6.2.0 p. 347-351) where it is further shown that have is substitutable for the interrogative word, girl just in case it is being qualified by a defining or relative clause.

That the embedded sentence 5; above is realised at the surface as a VP is proved by the fact that this VP can be modified thus:

Hee' bhars uru nks úkeu sự nh ứmhákā nh nga aksukso what is very useful is the fact that the children do go to school, where nks úkeu is an adverbial modifier.

In other words, the application of the Pseudo-Cleft rule to an Igbo complement structure has the effect of converting the underlying matrix structure into a complex nominal of a head and modifier.

This fact is best brought out by the following tree diagram of Fig. 4 which represents the output of the Fseudo-Cleft rule. The obligatory application of the appropriate Tone rules (cf. 3.6 p.155-163). ensures, among other things, that the tone pattern associated with Igbo relative clauses is established. The output of Fseudo-Cleft rule in Igbo is subject to the Tone rules which belong to the phonological component of grammar. It is the application of such rules that yields 18 (a):

18 (a) Here there were as 16 (c).

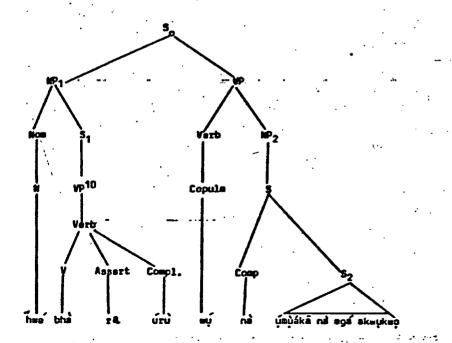


Fig. 4

Although the process of relativization is, strictly speaking, outside the scope of this investigation, yet a word ought to be said about it here, since, at least, some of the rules associated with that process in Igbo are relevant to the output of Pseudo-Cleft. Relativization demands the presence of two co-referential NP's in its structural description; it is the deletion of one of these two co-referential NP's (that dominated by the embedded S) that triggers the following rules:

- (1) Relative Deletion, then
- (2) Object NP Movement (the Igbo equivalent of Eng LH movement)
- (3) Either Na Aux Attachment (Morphophonemic rule)

 Or -rV Infixing
- (4) Tone Rules (Fhonological rules)
 Rules 1-3 are given and discussed in the following pages 267-76, while Tone rules form the subject of chapter 3, (cf especially 3.5 & 3.6,(p. 140-165).

 However, not all relative structures are subject to all these rules of relativization, since there are specific conditions for their application, and these ere specified after each rule.

But in the derived structure of Fig. 4, there are no coreferential NFs as one would expect from relative atructures. Rather,
what we have is a tree diagram which corresponds to the output of
Relative deletion on a putative structure such as 18 (f).

18(f) Hwei hwe bhart uru a wu na usuaka na aga skaukan

When Relative Deletion applies to delete twe2 under identity with twe1, we get the structure represented in Fig. 4.

Shat seems to happen is that the application of EQUI on a Relative structure and of Pseudo-Cleft on a complement structure produces two derived structures which are similar, if not identical.

Perhaps, the hypothesis of TARGET STRUCTURES might throw some light on this apparently strange coincidence. The phenomenon of target structures has been noted in Generative Fhonology (Ross 1969. Kisseberth 1969 (a) & (b), Kim 1969), and in Generative Semantics (Lakoff 1969 (a) & (b), and Green (1970). This hypothesis states that "Each language has a relatively small set of Target Structures a set of constraints which apply at some relatively superficial level, as a sort of filter on derivations. Awoyale (1974: 1 - ff) tries to account for the multiple ambiguity of Yoruba Gerundive constructions by invoking the above hypothesis. That is interesting about his account is that the two structures relevant to the derivation of Yoruba Reduplicated Gerundives are Relative and complement structures, the same types of structures involved here. In view of the fact that Igbo and Yoruba balong to the Kwa group of Languages, it is possible that the phenomenon being described about Yoruba also obtains in Igbo where EQUI on Relative constructions and Pseudo-Cleft on complements produce identical structures which are subject to the same rules of relativization.

hypothesis, it is clear that the output of Pseudo-Cleft on complement structures is subject to the same rules as the output of ERUI on Relative structures, and at the surface they are all relativized clauses inspite of their different deep structure origins. Let us take the wall-formed sentence 18 (6), for example:

- 18 (e) Him bhara urù mu nà umuaka na aga akmykmo
 Any appropriate lexical item can be substituted for home
 in the above sentence, and the result still remains a
 mell-formed relative construction in Igbo, thus:
 - (g) Atumatu there urù mu nà umuake na aga akeykeo The plan which is useful is that children are going to achool
 - (h) { lika } bhara uru ey na umuaka ga aga akeukeo

Talk which is useful is that children will attend school:
The useful proposal is that children will attend school.

Although it is a fact that, in some cases such as 18(c), only Rule'4 —
the rule which generates relative clause tone patterns — is applicable,
(and this may be seen as a phonological rule) in other cases which
we shall show shortly, all the other rules consequent on EQUI, that
is, Rules 2-4, are applicable. There is, therefore, sufficient
syntactic evidence to justify the claim that the output of the
Pseudo-Cleft rule in Igbo is the input for obligatory relativization.

Having argued the case for relativization in Igbo HP complementation, let us now complete the derivation of paradigm 16.

To the sell-formed sentence 18(2), we say now apply the following two optional rules in the order given, the order being intrinsically determined:

- (a) Nominalisation of the Na complement and
- (b) Reverse Cleft.

To nominalise 19(@), we need to apply Rule 2 of the Rules of
Relativization which entails the movement of the object MP to a
position where it functions as head of the resultant relative clause.

As a consequence of this movement rule (which is the Igbo counterpart of English will sovement) the Complementizer has to be obligatorily deleted.

(w) <u>Noninalisation of MA Complement (T-Galat optional)</u>
Wis

SD : MP COFULA COEP MP VERS MP up 1 2 3 4 5 6 Process : (a) Attach 6 as the right eister of 2 (b) Doleta 3

This rule is optional, and lexically specified for factive predicates.

SC 1 126 \$ 45

The output of the above rule is 18(h), which is the same as 15 (d)

18(i) Hee bhars und se skeeken undikks na age.

Thing which is useful is schooling children are doings that is useful is the fact that the children are schooling.

Thus, the effect of nominalisation on Igbo Na Complements is the same as the application of Fsaudo-Claft as discussed above — both rules result in the formation of relative clauses, and this is why we describe this nominalisation rule as Relativization (Relat₂), which is lexically specified for factive predicates as opposed to Relat₁, which is a consequence of the application of Fsaudo-Claft — a much more general rule. In other words, while all categories of Igbo NP complements may undergo Relat₁, only a small sub-category of Na complements are subject to the optional rule of Relat₂.

The next optional rule which 18(4) can undergo is the Reverse Cleft rule, and this accounts for 18(j). We give a tentative formulation of this rule as follows:

Condition: Both NP₁ and NP₂ must be of the structure

NP_{__} NS , that is a complex nominal. The

output of the above rule is 18(J), which is the same
as 16 (a)

The fact that the children are schooling is something useful.

18(1) Akwukwo umuaka na aga wu hwa bhara uru.

In the foregoing examples, we have explored the form and order of application of the T-rules in the generation of sentences such as 16(a-e). The order which has been established from successive well-formed derivations of the language is fundamentally intrinsic, and need not be stated explicitly because a T-rule which depends for its application on the output of a previous rule cannot have its structural description set until the relevant rule has applied. In some cases, we have had to operate on a system of choice of one rule or the other,

And we have pointed out how the application of the one rule terminates a derivation, while the selection of the other leads naturally to the derivation of other sentences of the paradigm.

The choices involved are the following:

- (1) Either (a) Ya Deletion
 Or (b) Extraposition
- (2) Either (a) Ya to 0 Conversion (Forphophonemie)

The choice of 1(a) results in a derivational 'cul de sac' while the choice of 1(b) opens the way to the second choice — that between 2(a) & (b). As with 1(a), the selection of 2(a) terminates the derivation, while the 2(b) option leads on to the generation of other stylistic variants of the paradiom.

Fseudo-Cleft.

For their derivation on the presence of Ya in their structural description; if this abstract proform is deleted early in the derivation, then it has to be re-introduced transformationally in order for the derivation of other variants to be possible. But to delete it and then re-introduce it through a transformation is not only circular, it constitutes a negation of the gain in economy which its generation in deep structure guarantees. For this reason, we have adopted an ordering system that ensures its presence in the derivation for as long as is necessary.

But the reader must not go away with the impression that the rules given below are strictly ordered. As a matter of fact, the T-rules are unordered; but for intrinsic reasons, the only derivations nowakible will be those which conform to the following scheme:

- Either 1. Ya Deletion (T .- Ya Del.)
- Or 2. Extreposition (T Extrep.)
- if 2. Thus
 - Pseudo-Cleft (T Pseudo-Cleft)
 - 4. Relativization of Eatrix S (T Relat₁) oblig.
 - Nominalisation of Na Comp. (T Relety) opt.
 - 6. Reverse Claft (T Reverse Cleft) opt.
 - 7. Ya to 0 Conversion (Eorphophonemic)

Before am gap can to some those many of the above T-rules are applicable in the generalizator than Chipact MP complements given in paredigm (17), let um, first, miss manus examples of the Subject NP complement and their derivational history, the wise thering to show how the generation of various /pes of Subject MP complements mesults in the application of additional rules.

- ezับก็ไม่ ohi (By T-Extrap)
- chi. (By Ye to 0 applying to both Estrix & Compl. It is movinus that the did not steal. structures)
- mme n zuhii chi. (By Phonological rules) 19(d) in a grammatical sentence of Igbo.

Now starting mil: 15(t) and applying Pseuds-cleft, we can derive 19(h) through the following stages:

- ya ezuñii ', oĥi (By opt. Pseuds Cleft).
- ye ezuhii chi(By T-Relat_:oblg=)
- na o žuhii ohi. (by T-Ya to 0) (oblig).
- na o žuhii ohi.(By Phonological rules). What its minimum in what he did not steel. 19(h) is a well-formed Into seriors.

From 19(fi) was during 19(5) through the following stages:

- (1) by the anilication of the Object NP Movement rule given on page 267, ue get 19(1) fire 19(h).
- ohi o Iuhii had some some and

19(1) im not well-formed and therefore unacceptable in the dislect being described. To it we want apply Rule 3(e) of the Rules of Relativization The Ma sux strengent culton, in order to derive 19(1) These tules was given as Stillings-

attach the No sux. element as the left sister of 5.

Condition: obligatory, and 5 must be a Negative Verb form.

Either 1234 Na 5

1 2 3 Ma 45 if 4 is the monosyllabic Pronoun 0 or A. The output to this rule is 19(j), which is provided for by the above structural chance.

thing which is obvious is theft which he did not steel: What is obvious is the fact that he did not commit any thaft.

Now, suppose that our underlying werb in the above rule were in the Perfect form, rather than in the Negative. In that case, we would apply the -rV - INFIXING rule as a second alternative to the Na aux. attachment. Because this -rV - infixing rule presupposes that the rule of Affix Hopping. that is, the rule which organises the constituents of the verb, has not yet applied, we provide for it in the following rule:

The -rV - INFIXING RULE (Morphophonemic)

Process: Either attach Wa as the left eister of 5 6 7 worb

Or insert -ra - se infix before 6 and 7 and delete 5

if the preceding NP is not/0./

The above rule is obligatory, and the verb must Conditions be in the Perfect Forma

The application of this rule yields sentences such as 19(k) in which the verb is in the Perfect form:

Note that if the NP of the relativized clause were any nominal rather than the third person pronoun, 0, or the second person I only two variants sould be possible as 19(1) shows:

What is obvious is the fact that Ogu has stolen.

To the above 19(k) and (1) and sentences of their type, the optional rule of Reverse Cleft (see page 37) can apply to yield sentences such as 19(m) and (n):

The theft which he has committed is what is obvious.

The theft which Dgu has committed is what is obvious.

A brief discussion of those rules is necessary here since the derivation of sentences like 19(j-n) introduces some new elements in the structural index of the Na complement Nominalisation rules. First, we must not confuse the Na auxiliary element with the Na complementizer; although they are featurally related, they are, nevertheless, distinct in their syntactic behaviour. A detailed discussion of the Na's in Igbo and their relationship with one another has been given in 10.4.0-12.4.5. It was also pointed out (cf 2.4.5) that in all Relative Clauses, whose verbs are in the negative, the Na Aux. element is obligatory. It is facts such as these which the foregoing rules are designed to capture.

Secondly, with these two rules - Na Aux attachment and -ry - INFIXING - now given, we have completed the list of rules necessary for characterising Igbo relative clause formation. As we have previously pointed out, (cf p.264), these rules are consequent on a prior application of Relative Deletion to an underlying relative structure, thus:

- (1) Relative Deletion (T-rule) (obligatory)
- (2) Object NP Movement .
- (3)(a) Either Na Aux attachment)Morphopho-
- (b) Or / -rV INFIXING)nemic rules
- (4) Tone Bules Phonoligical rules

These rules are intrinsically ordered, since the application of one creates an input structure for the application of the other. Whenever we talk of Relativization with regard to Igbo complementation, we shall specify which of the above set of rules is or are applicable. Bearing in mind that Relative Deletion never applies in the relativization of Igbo NP complements for reasons which we have given on pages 264-6, we should point out that only rules 2-4 above are relevant here in NP complementation, and from the derivational history of sentences such as 19(j-1), all the rules 2-4 are needed for the following reasons

- (a) the NP to be qualified is in object position and therefore needs the object NP Movement rule which is the Igbo equivalent of the WH-Movement rule in Enclish
- (b) the verbs_involved in the Na complements are either in the Negative or in the Perfect form, hence the need for either Rule 3(a) or (b):
- (c) the Tone-rules are needed in relative clause formation to ensure
 the right tonal relationship among the constituents of the relative
 clause. This subject is fully discussed in 3.6(p.155ff).

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5.1.1 Object NP-Complementation

In 5.1. p. 25%, we gave the following paradige of object NP complements:

20(a) Ogu anuma me ha byara shya

Dou has heard that they did come.

(b) hee Ogu nuruna yeu na he byere abye

What Dou has heard is that they di come.

(c) hee Ogu nuruna mu obyibym he bymre

What Ogu has heard is coming they came:

What Ogu has heard is the fact that they came.

(d) Obyibye ha byara wu hwe Ogu nurune

Ogu na anuna

The fact that they came is what Ogu has heard.

The paradigm 20(a)-(d) derive from the following underlying structure

21. Ogu snuna ya na ha byera sbye na ha byera sbye na na ha byera sbye na ha bye na ha byera sbye na ha byera sbye na ha bye na ha

20(a) derives from 21 by the application of the ya Deletion transformation. But as has been pointed out in 5.1.0, the early application of this rule can only yield sentences of the 20(a), and not any of the other types in 20(b)-(d). For this reason, we make on to show how these other varients can be derived from the same 21.

The underlying form 21 is not subject to ETRAPOSITION, since the MP complement is already in object position. Yet the transformations which produce 20(b-d) from 21 depend crucially on a sentence-initial Ye proform, a fact which necessitates the following movement transformation called Ya Movement rule.

THE YA MOVEMENT RULE

SD 1 MP VERS TA Comp S

Process : Bove 3 to sentence-initial position.

SC + 31245.

The output of this rule is 21(a), which is not well-formed.

21(a) Ya Dgu anuna na ha byaza abya.

From 21(a) we derive 21(b) by an obligatory application of Pseude-Cleft, which, with Subject MP complements is an optional rule. (see 5.1.8:26)]-

- 21(b) her Ogu enum ou no he byers abye.

 Now 21(b) will obligatorily undergo the rule of Relativization Relativization before it can become well-formed. The specific rule of Relativization relevant here are Rules 3 and 4 that is, the Ne eux or the -rV INFIXING and Relative clause Tone pattern rules respectively (see 5.1.0: 272.

 The sequential application of these two rules yields the sentence 21(c) or 21(d).
- 21(c) hee Dgu ne anune my ne he byers abye.

 21(d) hee Dgu nyruna my ne he byers abye.

 Both 21(c) and (d), are the same as 20(b).

It is necessary to point out that the same intrinsic order is very much in evidence here. For example, the Ya movement rule creates an output structure to which Pseuds-Cleft is obligatory, and as we have seen in the previous section, relativization is both obligatory and contingent on a prior application of the Pseuds-Cleft rule.

Optionally, Rominelisation may apply to 21(c) or (d) to yield 21(e).

But nominalisation in this case will proceed in two stages, wire first a
movement rule like that already given in 5.1.0. p. 267, and the second,
a lexical substitution transformations

The Verb-Complement Movement Rule

SD r heef Ogu nuruna eu na ha byara abya m mp Verb copula comp MP verb compl. 1 2 3 4 5 6 7 8

Process: (a) attach 8 as the right sister of 4

(b) delete 5

SC : 12348 # 67 21(e)

21(e) hee Ogu nuruna wu abya ha byara

But 21(e) is not a well-formed Igbo sentence because the item abya is a verb complement to shich has no existence independent of the intransitive verb to shich it is bound in structure. This output would have been perfectly well-formed if 7 in the above structural description were a transitive verb, in which case its noun object would be moved into a position where it becomes the head of the resultant output which is a relative clause. The following lexical substitution rule is therefore necessary to ensure the well-formedness of 21(e).

The Lexical Substitution Rule

Process : Substitute an appropriate derived nominal for the verbcomplement, 5.

SC 1 1 2 3 4 bbyibys 6 7 --- 21 (r)

- (e) free verb complements such as those given in 4.2, these ere lexical items of 19bo which meraly specify the meaning of neutral verbs (cf footnote 11, 4.2 4.2 p.205).
- (b) bound verb-complement efter intransitive verbs such as the underlined in the following examples:
- 1) g negru <u>aneu</u> · He died.
- 11) O jhere eihe . He did go
- iii) g loro alo . He did return.

- 21(f) her Ogu nurune ou obyitys he byers.

 thing which Ogu has heard is coming which they came:

 What Ogu has heard is the fact that they came.

 By applying the optional rule of flavorse Claft, we derive 21(g).

 From 21(f).
- (g) Obyibya he byare wu hee Ogu nurume.

 The fact that they come is what Ugu has heard.

means clear yet, since this syntactic process has not been studied in the language. The rules given in this chapter with regard to Kominalisation must be seen as tentative. It seems that there are some semantic constraints on Nominalisation which are not yet clear to us; for example, some metrix verbs do not permit the nominalisation of their sentential complements, while factive verbs generally do so, and the output of such a process is a relative clause. We shall take up the factive - Non-factive distinction in 5-1.2.

From the foregoing examination of the process of object MP complementation, we establish the following set of intrinsically order ruless

- Dr (2) Ya Hovement (T-Ya movement) (opt.)

 If 2, then (3) Pscude Cleft (obligatory here, but optional with Subject MP complements)
 - (4) Relativization of Eatrix S (T-Relat₁) obligatory
 - (5) * Complement S (T-Relat_ options)
 - (6) Reverse Cleft (optionel)

A comperison of this set of rules with that given in 5.T.O: 370 shows some interesting similarities as well as differences. It will be observed from either set that we begin with a choice, an Either - Or - eituetion. In either case, the first option leeds to a derivational blind allay, whereas the second choice opens the way to the generation of other semantically related sentences. It is interesting to note what the Ya movement

¹⁰ of with the werb-complement string given by the Ps-rule 4 in 4.2.
Two types of verb-complement need be recognised in Igbos

rule does for object complements: It moves Ye to such a structural position as to make the derivation of other members of the peradigm , 17(a-c) and 20(a-d) possible; in other words, such a movement transfermation results in a derived structure similar to the Deep structure of subject NP complements. Coming as it does, as the second of the set of rules, it means that subject NP complements are marked for Extra-position, while Object NP complements meet the structural description for Ya movement. While Pseude Cleft is an optional rule for Subject complements, it is obligatory for Object complements. After these few differences and similarities, the two sets of rules fall together in their order and conditions of application. Us, therefore, set up the following intrinsically ordered rules for both subject and object Na complements in Igbos

Either (1) Ya Deletion (T-Ya Del) (oblig for Subj NP Compl

- OR (2) Extraposition (T-Extrap) opt. for subject MP compl.
 - (3) Ya Movement (T-Ya move opt.(for object compl.)
 - (4) Pasude Cleft . (T-Pasude Cleft (opt. for subj. NP compl.)

(oblig = obj. NP compl.)

- (5) Relativization of Matrix S (T-Relat, oblig)
- (6) Nominalisation of Na Compl. (T-Relat, opt)
- (7) Reverse cleft (T-Reverse Cleft opt)
- (8) Ye to D conversion (T-Ye to D oblig)

5.1.2 The Parameters of NP complements: The factice and Non-factive distinction.

The Kiparsky's (1971) provide a set of syntactic evidence in support of the above distinction for English viz:

- (i) Complement-taking predicates divide on semantic grounds into factives and non-factives, and on the strength of this, they essign two distinct base structures to explain the syntactic differences between these two classes.
- (ii) The S-ing complementizer occurs only with fective predicates,

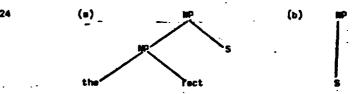
and is the result of a transformation which applies only to factives, and not, as Rosenbaum (1967) had assumed, of a Complementizer Placement transformation.

- (iii) Although some to + infinitive constructions originate from underlying for-to complements by the deletion of for, this is not the only source of such constructions in English. A lot of to + infinitive constructions are the output of Equi-NP deletion or Subject-Raising
- (iv) The distinction between <u>for-to</u> and <u>that</u> complements reflects the semantic differences between Emptive and Non-Emptive predicates.

The factive and non-factive distinction is a semantic one, though it has its syntactic reflexes: Factive predicates entail the truth of their complements, while non-factives do not. Among the predicates which take object complements.regret and resent are factive, while believe and say are non-factive. Thus, whereas the complements in 22 are presupposed to be true, those in 23 are not.

- 22(a) I regret that it is raining at this time .
 - (b) I resent the fact that he is so rude to me.
- 23(s) I believe that he is guilty of murder.
 - (b) He mays that he has been to his doctor today.

Since this sementic difference is essociated with syntactic differences, the Kiparsky's propose to account for these facts by means of two distinct base structures, 24(s) for factive and 24(b) for non-factive complements.



As the Kiparsky's further point out, the factive/non-factive distinction is not the only valid one that can be made. There are also what they describe as emotive and non-emotive varbe, a distinction which cuts across the factive/non-factive one since some amotive varbs are also factive, ______.

Emotive verbs "include in general all pridicates which express the subjective value of a proposition, rather than knowledge about it or its truth value", (Paul and Carol Kiparaky 1971 p.363). In view of the fact that such emotive verbs as <u>embarrass</u> and <u>annoy</u> are factive and therefore entail the truth of their complement, the Kiparaky's description of emotives is not strictly true. Emotive predicates are discussed in section 5.1.3.

How do all these distinctions apply to the Ighn language? In order to answer this question, we need to point out that of all the categories of NP-complements which our investigation has revealed, it is only the Na-complements which can be factive if their matrix predicates are factive. The other three categories - the Interrogative, the Subjunctive and Imperative complements - are all associated with non-factive predicates. This semantic compatibility is to be expected from the fact that, spart from Na-complements, the other categories lack a propositional contents, in other words, none of them makes any explicit claim, be it true or felse, about the truth value of their respective complements. For example, Interrogative complements ask for information, the subjunctives express-

If the Na complement is the only category which may be factive, how does one distinguish a factive Na complement from a non-factive one? For one thing there is no such Igbo expression as the fact that, which in English serves to distinguish factive from non-factive complements in base atructure (cf 24(a) & (b)).

Nevertheless, this necessary distinction is possible in Igbo since lexical items form part of the deep structure of any language. Because factive predicates will have as part of their lexical entries the feature specification [+ fact], this provides the information as to factivity or absence of it, though not in a configurational way as in English.

In order to discover the syntactic evidence in support of the factive/non-factive distinction in Igbo, let us start by examining the following predicates in 25 and the complements which come after them.

25.	isute:	to bother, worry
•	ime ihmers	* shame, embarrass
	ikps uhwa	* be pleasant, delight
	ito obi uto	" give joy, pleasure, delight
	igbagwoju anya	n confusa
	ime n'anya	* happen in the presence of
	im enya	• be obvious
	ive ive	" annoy.
26.	ind	a found
•	imote	* recognise
	icofute	• discover, find out
	izhi	* show, demonstrate
	igoshi	• • •
	icete	remember, recollect.

(25) and (26) above represent two sample lists of factive predicates:

Those in (25) take sentential subjects, while those in (26) take sentential object complements. For each of the predicates in (25) the following types of sentence 27-28 are possible:

27(a) Na ara gbara ya sutera s.

The madness can him/her pained me: That he/she ment mad pained me

- (b) Are goars ys enters m.

 Madness which ran him/her pained me: The fect that she/he went mad pained me.
- (8(a) No diskps s turu ashi ga sme inwere

 That responsible men this told lie will be shameful

 That this responsible men lied will be shameful.

28(b) Ashi dimpe s tury go eme immore.

Lie which responsible person this told will cause change:

The fact that this responsible man told a lie will be changed.

The transformational processes involved in deriving 27-28(a & b) have been discussed in 5.1.0 and 5.1.1. The T-rule responsible for 27(b) and 28(b) is shat we have characterised as Nominalization of Na complements (T-Relat; page 267ff).

With the verbs of 26, which take object complements, the situation is not as clear cut as it is with those of 25. The reason is that some of these verbs require the item make in their relativised Ne complements, while some do not. For example, the Epistemic verbs -

ime to know
imata = recognise, reslice

behave in this way, as 29(a) and (b) shows

- 29(e) Unye çewle me ne ç eç onye ofil-Everybody knows that he/sh is a thief.
- (b) Snys out a make one off o wo.

 Everybody knows about the fact of his being a thief.

The worb icofute behaves like the epistemic worbs, too, in requiring an obligatory make in the relativized form of its na complement. But other worbs in the group do not do this, their complements relativize like the complements of the predicates in 25 thus:

- 30(a) Đầu échtéle nà Mung'o kuất ikho Ogu has remembered that Naug'o committed adultry.
- (b) Dgu ecetale ikho Neug'o kears.

 Dgu has recelled the fact that Neug'o committed adultry.

Now contrast the mell-formedness of the foregoing 27(b), 28(b), 29(b) and 30(b) with the deviance of the following 31(b), 32(b), 33(b), & 34(b) in which the Na complements have been relativized:

- 31(s) Anyi guters as Ogu wu anys ems.
 - (b) Anyl gutere make tinye ame tigu mi.
- 32(a) Anyi keers no lbs meruru mls.

 So balisve that lbs defiled the land.
 - (b) *Anyi kwere win ibe meruru -
- 33(a) O kwuru na iwu nde bekee shiri ikha.

 He said that law of white people is strict:

 He said that the whiteman's laws are strict.
- (b) *0 kwuru iwu nde bekee shiri ikhw
- 34(a) Anyi were ya ne nna ya bara ube.
 - (b) *Anyi sare nne ya bare uba.

The deviance of the starred sentences is due to the fact that their matrix predicates:

iguta to read from

iguta to read from

ikee "believe
ikeu "esy
iwe "-teke

ere not factive verbs. Not being factive, these verbs block the relativi~ zetion of their Na complements. From this fact emerges the first syntactic characteristics of factive predicate complements:

(1) Injurative predicates alian the relativization of their Ne complements to form factive relative clauses; non-factive predicates block the application of this rule. Such factive relative clauses are the Igbo equivalent of the English expression 'the fact that'.

Il There are some verbs, such as inu - to hear, which take object complements and allow the relativization of these complements, although they could not be described as factive in the sense defined here on page 280. Karttunen (1970) argues that "the simple factive/non-factive dichotomy is inadequate to cover all the facts, and that it is necessary to recognize a class of somi-factives." What seems to happen is that there is a class of putently factive verbs, and another class of obviously non-factive verbs, and "in between these two-classes, there are some works which tend to share the qualities of both classes.

In Igbo, or at least in the dielect being described here, the popular method of indicating that the proposition of a Na complement is an accomplished fact is by the use of factive relative clauses transforms, especially with predicates such as those of 25 which take sentential subjects. Thus, one will hear sentences of the following type rather than their Na complement counterparts:

- 35(a) Exhi umu m zara toro m obi uto.

 Compound my children smept gladdened me heart glad.

 The fact that my children smept the compound pleased me.
 - (b) Arityo o ryngha na abya m ise.

 Begging he is begging donnoys me annoyance.

 The fact that he is begging annoys me.
- (c) Ezhi okeŭ o keŭru turu mádhu nils n'anym.

 Truth he spoke struck everybody in eye:

 The fact that he told the truth surprised everybody.

The second characteristic of factives will emerge from an examination of the following predicates and their complements in 37s.

- 36. imeme anya to convince
 ikuzhi to teach
 igoshi to show, demonstrate
 izhi to revesi, show
 ifuts to mean
- 37(s) No Ogu goro ago emembel snyi anya na o subii

 That Ogu denied has convinced us that he is not
 onye no 5 tukwasa obi.

 person that one places heart on.

 That Ogu denied has convinced us that he is not a person to be
 trusted.

- 37(b) No ye ruru als a go skuzhiri unu na that he defiled lend this will teach you that a dight have no o mechafus.

 it does/exist thing which he cannot do:

 The fact that he committed this abomination will teach you that there is nothing he cannot do.
 - (c) Na nezanyi a gaghakwa shya du gbua agashila

 That woman this is still going worket reach now has shown

 na o gbashiri ikhe.

 that she is strongs

That this woman still trades till now has shown that she is strong.

(d) No ha kwuru okeu di otho o futara na

That they said word which is like this means that

ha coro mmezhi.

they ment reconciliation:

That they said such words means that they want reconcilistion.

Each of the examples of (37) has a sentential subject and a sentential object, and for each of the subject 12 complements there is a corresponding factive relative clause of the type shown in 35. It has been observed (The Kiparsky's 1971) that all two-place predicates in English taking subject complements are factive, the same seems to be true of Igbo, as 36 and 37 show. From these examples, we arrive at the second differentiating quality of factivess

(ii) Only fective predicates may take a sentential subject followed by a sentential object.

¹² To observed on page that whereas all subject NP complements which are factive are nominalisable to yield factive relative clauses, factive object complements are not always so nominalisable, and that some of them, if nominalised require a transformationally inserted preposition make. The same constraint is at work here with those factive predicates which can take a sentential subject followed by another sentential object.

We have pointed out that EXTRAPOSITION is an optional rule for all factive complements in subject position, but this is not the case with all non-factive complements in the same structural position, hence the third test for the factive/non-factive dichotomy:

(iii) whereas EXTRAPOSITION is an optional rule for all subject factive complements, it is obligatory for some non-factive ones.
The two werbs that easily come to mind are

in the following examples:

If EXTRAPOSITION were optional with these two warts, one would expect the alternative rule of ye Deletion to produce grammatical sentences. But this is not the case, as the deviance of 38(b) and 39(b) shows:

But the application of ENTRAPOSITION to the Base structure-38(a) and 39(a) - will produce the well-forward sentances 36(d) and 39(d) through 38(c) and 39(c):

These same varbs which are marked for obligatory EXTRAPOSITION block the rule of Pseude Claft, and they are among the few predicates in Igbo whose complements are subject to the optional rule of Subject-Reising in the language, (cf 5.3.0 for a fuller discussion of RAISING).

Fourthly, only Factive Na complements (which seem to be generally in Subject position) allow the derivation of what we choose to describe as (Factive) Carunds as opposed to Infinitival nominals which are non Factive. We take up the above distinction in the immediately following section 5.1.3. As avidence in support of this assertion, consider the followings

- 40(a) Wa o moghakwa nwa ya iri du ghuo zhiri na that who is still denying child her food reach now show that obi tara ya akhu.

 heart eat her kernel:

 That she has continued to deny her child meals shows that she is very unfeeling.
- (b) IFI o moghakwa name ya du ghun zhiri na obi tara ya akhu (by Relet₂)

 The food which she has continued to deny har child shows that she is vary unfeeling.
- (c) iso nee yo iff du ghub zhiri na obi tere
 Refusing his child food up till now shows that she is
 ye akhu.

 very unfeeling.
- 41(e) Ne jiche ceduru neie ya efo iri mewere a That Uche weited for wife his years ten convinced me anya ne o neere ndidi. that he has petience.

That Uche waited ten years for his wife convinced me that he is patient.

¹³ The problem with these two verbs is that it is not clear whather they should be respectively cited along with ke and no as some sort of verb particle, or without them. The disquieting espect of such a citation form is that it has no other parallel alseshers in the Language, moreover the concept of verb particle seems foreign to Igbo. For the mean time, we leave the question open.

- 41(b) Nuis ya UcRe ceduru mfo iri memore m anya

 His wife that Uchs maited for ten years convinced me

 on o neere ndidi.

 that he is patient.
 - (c) Icedu neie ya mfo iri mewere m anym Wmiting for him wife for ten years convinced me nm Uc m neere ndidi. that Uce impatient.

Each of the above sentences is grammatical; 40(c) and 41(c) derive from 40(b) and 41(b) respectively via a transformation rule (details of which are not clear) which derives Factive Gerunds from Factive Na complements; the types of Na complements involved being Subject NP complements. Observe that the relative clauses have been optionally deleted in either case. These forms (celled I + verb stem forms) can only have factive interpretation if they derive from a factive Na complements. Contrast, for example, the foregoing 40(c) and 41(c) with the following 42(a).

To give respect to the elders is important.

Respecting

42(a) lacks a factive interpretation; it merely expresses an obligation, and is transformationally related to 42(b).

- 42(b) Ne enyi ga enye nde okhe medhu nsopuru di mkpa.

 That we should give elders respect is important.

 Although 42(b) is an exemple of Ne complement, it differs from the previous examples in the following way
 - (i) the predicate involved is not a factive one and this is further borne out by
 - (ii) the use of the model of for expressing obligation.

Concluding summary:

In this short section, we have brought syntactic evidence to show that the Factive-Non Factive distinction is valid for the Igbo Language on the following syntactic grounds:

- (a) Factive predicates generally permit the optional relativization of their Na complements to form Factive relative clauses, and it is these Factive relatives which correspond to the English expression the fact that -; Non-Factive complements block this optional rule.
- (b) Only factive predicates may have a sentantial subject and a sentential object; when this happens, the Ya deletion rule, if applied early in the derivation, does not necessary result in a derivational cul de sac since it is possible, with factive Na complements, to derive Factive Relative Clauses even after the deletion of Ya. With non-factive complements on the other hand, an early deletion of ya makes the derivation of other semantically related sentences difficult, if not impossible.
- (c) Although the rule of Extraposition from MP is optional for all Factive Complements, it is obligatory for at least a handful of Non-Factive predicates.
- (d) Only Factive complements can be reduced to (Factive) Garunds
 by a rule (as yet unclear) of Garund formation in Igbo.

 The distinction between Garunds and Infinitives are made first
 on syntactic grounds, and then supported with the sementic
 interpretation of the homonyms involved.
- (a) Whereas a handful of non-factive predicates are subject to the rule of Subject-Reising (of 5.3.0), no factive predicate is subject to the same rule.

Let us now consider the next category of complement-taking predicates, as the syntactic characteristics of members of this category provide additional support for our enalysis.

5.1.3. Emotive Predicates

In 5.1.2, we argued that 42(a) is semantically and transformationally related to 42(b) and that such Na complements are not introduced by factive predicates. However, the key factor in sentences such as 42 is not factivity since some emotive predicates are also factive (see page 259), but smotivity. Having argued for the Factive/Non-factive distinction in section 5.1.2., let us now examine the Emotive/Non-emotive dichotomy. In view of the fact that some emotive verbs are factive, the difinition of amotive predicates given by the Kiparskies as "all predicates which express the subjective value of a proposition rather than knowledge about it or its truth value" ought to be modified for Igbo and English as follows "all predicates which express the subjective value of a proposition, which may or may not include knowledge about it or its truth value."

The case we shall present in this and the following sections is set follows:

- (i) lobo is full of constructions such as 45-49.
- (ii) These sentences and others like them are associated with emotive predicates.
- (iii) The emotive predicates involved are all one-place predicates taking sentential subjects as ergument. These sentential NP subjects are either the antecedent of a conditional construction (hence conditional clause) protho-headed complex NP's, these two clause types lack any truth value.
- (iv) Factors (i)-(iii) are not random or due to chance, we therefore make the claim that emotivity and the lack of any claim about the truth value of such subject complements constitute both necessary and sufficient conditions for the derivation of Igbo infinitive complements which are the equivalent of English for-to complements.

In support of this hypothesis, we shall show that other non-factive werbs which are not also sective do not take infinitive complements as subject.

Let us now consider the following list of verbs and the constructions in which they occur in 45-49.

In mile	Tiley decar 211 40-420	
43.	iai 👝	- be good
	• njo	be good
	• skpa	* important, necessary
	inya aka	be helpful
	ieu ehihi	• ominous
	ito_shi (stoshi)	
	ikwashi (akwashi)	<pre>appropriate, worthy</pre>
44.	idi mfe	- be assy
	ira ohy	. • difficult
	ieu mekpa-ahu	* trouble, problem
	inya nsagbu	* the worry, trouble
	isu ishioksu	" crux of the matter, the problem
45(m)	Diekpa imovo onwe	ya nicha jogburu ones ya.
	. For a responsible man t	o disprace hisself in public is very bad.
(b)	Ituru ha ashi di	6 ≕ .
•	To lie to thes is	acceptable to me.
(c)	Radhu ihwu ewi n'	ahiha wi shihi.
	for a man to see the g	iant rat in broad day light is a bad comen.

There are two possible ways of analysing the underlined infinitival constructions: the first mathod, which is the easier of the two, is to see them as nominals which derive from the verb through the prefixation of the harmonising I. This analysis equates each of the Infinitives to such English nominals as <u>dercing</u> in 'Dancing is a form of entertainment'. We are not interested in this type of analysis; though it is possible, it can only explain half the truth. The second alternative is the one relevant here – this is the analysis which links these surface infinitives with some enterlying conditional construction, an analysis which is examined and justified in the following 3.2.0.

- 45(d) Numítakiri <u>ikwű coro coro</u> jaro njo for a child to talk very much is bad.
 - (e) <u>Itu takishi</u> kwashiri ekwashi.

 To pay tax is appropriate
 - (f) <u>Irī iři</u> n'og'e ne enye ake. ...

 To est food in time gives hand:

 Esting regularly is good for the body.

From our analysis of the Igbo language, there can only be on type of sentential source from which 45(a-f) are derived: this is the antecedent of a conditional construction, especially the generalised conditional construction of the 46 type:

- 46(a) D jogburu onwe ya ma dimkpa mevoo onwe ya

 It is very bad if a responsible person should

 n'oha.

 disorace himself in public.
- (b) D di m me m tuoro hi mehi.

 It would planse me if one told them m lie.
- (c) 0 wu whith me midhu hav ewi nothing

 It is a bad own for a person to see a giant rat in

 broad day-light.
- (d) 0 joro njo me mećtekiri na ekwú coro coro.

 It is bad for a child to talk very much .
- (e) O kweshiri ekweshi we s na stú takishi
 It is appropriate for one to pay tax.
- (f) 0 na anye aka ma e na eri ñee n'og'e.

 It does help one's health for one to est regularly.

The claim we are making here and which we shall substantiate in the following section 5.2.D is that 45 and 46 are transformationally related and derive from a base structure of the following type in which the predicate of the consequent is emotive; thus:

46(g) EOND. Ye' muru se' S Ye Predicate

The second type of subject infinitival complements with emotive predicates is illustrated by 47(a)-(a)

- 47(a) [fuchs are of ga ere enyi she .

 To finish this piece of work will be difficult for us.
- (b) Imechilahu uzo o mukwani ishi okuu

 To close afterwards this door is really head of matwer.

 Re-closing this door is the real problem.
- (c) Igʻidhə ya mu mmekpā ähu umu`.

 Cetching it is your headachs.
- (d) loots uzo ébe ke hi adihii mfe .

 Trecing the way to their home is not easy.
- (e) Iphochi ele ke e nyere neogbú.

 Refilling hole this gives trouble.

 Refilling this hole is a problem.

that are the most likely paraphrases to 47(a-e)? It would be farfatched to relate any of the above to conditional constructions of any type,
since there is a wide gulf-syntactic and semantic-between these on the one
hand and conditional constructions on the other. The proposition expressed
in them is not conditional, but one that is essociated with clauses beginning
with 'how' or other (manner) in light. De therefore propose the following
paraphrases for 47(a-e):

- 48(a) Otho anyi ga eji ruchae oru o ga ara anyi ahu.

 Manner we shall employ finish work this will be for us difficult

 How we shall complete this piece of work is the difficulty.
- (b) Othe anyi go ejí mechilahu uzo o eukwani ishi okuus Now we shell reclose this door is really the problem.

48(c) Otho unu ga sahi g'idhe ya wu mmekpa Shu unus

eji }

How to capture it is your headache

(d) Otho e ji scote uzo ébe ke hi edihii

How to trace the way to their home is not essy.

(e) Otho e shi sphochi ala ke a nyere naogbus How to refill this hole is a problem.

These paraphrases 48(a-e) match perfectly well the meanings expressed in 47(a-e). We therefore maintain that mahner MP structures are the appropriate source of this subset of what has been described as Igbo Infinitives. In support of this c'aim, we cite the following additional examples:

Age of the state of the sta

There is no doubt whatsoever about the transformational relationship existing between 47 and 48 as well as between members of 49 above. Infinitives,
in so far as they can be shown to originate from a sentential source, are
sluwys associated with emotive predicates in general and, in particular, with

non-factive and non-indicative complements. By non-indicative complements we mean such conditional clauses (the entecedent clauses) and other-headed (Manner) NPs as we have seen in the foregoing examples; other non-indiginative complements also include such complement types as we have described in chapter 4 (4.1.1-4.1.5): The Interrogative mag Complements, the Imperative si complements and the Subjunctive ka/ma complements. As we have pointed out earlier on, none of these complement types makes any explicit claim about the truth or otherwise of its proposition. Only Na complements make such a claim, and this explains shy infinitives are never associated with Na complements in Igbo, except in the very few cases like 50(a)-(b) where the emotive predicate idi mkpa the necessary is involved and where the indicative mood has been cancelled by the use of the model auxiliary ga - tahould, must, ought.

- 50(e) No enyi ga enya ndi okhe modhu neopuru That we should give the slder people respect di mkpe.
 - is necessary: That we should respect the elders is necessary.
- (6) Înye ndi ekhe madhu nsopuru di mkpe. - Respecting the elderly is necessary.

In view of the fact that chapter 6 (564-376) of this themie is devoted to the Igbo equivalents of embedded English EM-Questions of which otherwarded Marker MP's are a subset, we defer further discussion of it till that chapter, while we take up conditional (the antecedent) clauses in emotive predicate complementation in the following section 5.2.0.

Briefly, what we have argued here is that infinitival complements are associated with emotive verbs and that their underlying sources are either of the following:

- a) the antecedent of generalised conditional constructions, or
- (b) Otho-headed.Henner MP(s. Infinitive complements, including these

with ka/ma1 Subjunctive complements (of chapter 2), must be distinguished from factive nominals or garunds such as are associated with factive relative clauses (of p.229-9). Although both infinitives and nominals have the same phonatic shape, their different origins and memantic interpretations justify the distinction we are making here.

5.2.0 Emotive Predicates with Conditional Clause Subject MP complements

At the moment, there is no detailed eccount of conditional construction in Igbo, except a more or less passing reference to them in Green and Igwe (1963 p.78ff). This being the case, it is necessary here to give a brief analysis of this construction type in view of the fact that subsequent reference will be made to it in the rest of this section.

The Green and Igwo account of Conditional expressions in Igbo cites sentences of the following type:

If/when he has come, (you) call me: Call me when he has come.

- (b) Og's meches ngwangwa, enyi agawa faa .

 If og's finishes quickly, we set out surly.
- (c) Onys neuo, è lié yé .

If person dies one buries him: Anyone who dies will be buried.

Sentences of the above type represent but one subset of conditional constructions in Igbo — what we describe as the Open Condition with a dependency relation between the conditional clause (the antecedent) and the main clause (the consequent). However, any analysis of conditional constructions in Igbo which is limited to the above data tells but helf the story, since there are two distinct types of conditional expressions in the language, viz:

- (b) the Unfulfilled Condition.

 In order to appreciate the form of 51 sentences and their relationship

with 52 it is necessary to give the full forms thus:

52(a) and (b) are exactly synonymous inspite of the formal difference between them: 52(a) is introduced by the entrix sentence A si(i), while (b) is introduced by Yawuru. But this formal difference has no corresponding semantic difference, the two matrix sentences being frozen expressions which simply amount to the English conjunction 'if'. In both examples, the two verbs involved are complement-taking verbs —

isi in the one case, and the copularies in the other.

It is, however, customary for the above 52(a) and (b) to be given in the form of 52(c) in which both the matrix sentence and the complementizer to the enteredent have been optionally deleted thus:

If he comes, I shall see him.

With the Open Conditional Construction, the deletion of the matrix sentence is always optional whatever tense of the verbs of the entergent and consequent clauses. But the deletion of the complementizer mu, though optional, is determined by the tense of the verbs of the entire constructions the optional deletion of comp. in type 1 (open) conditional construction is subject to the constraint that the tense of both the enteredent and consequent clause verbs be simple present/future. 52(c) above with both the matrix sentence and the complementizer deleted is grammatical because the verbs of the construction satisfy the above tense constraint.

from the examples of conditional constructions given by Green and Igue (1963, p. 78-83) and by Swift et.el (1962 p. 274-280), it has been

the consequent is in sentence initial position in Igbo conditional constructions, but obligatory only if the consequent is preposed. What really happens is that the conjunction ma is generally deleted (more often than not) whenever the above tense constraints are met. The same conjunction cannot be deleted if the tense of the verbs in both the consequent and antecedent clauses is not the simple present or future.

Consider the following 53(a-k) as examples:

- 53(a) (Ya wuru) ma unu jhere ejhé,o magburu onwe ya l If it be that you went it be good kill self its
 - (b) (Ye wuru) ma o kwuole okwu ojoo, uka emebiele.

 If it be that he has spoken words bad matter has spoilt

 If he has spoken in harsh term, the telk is ruined.
 - (c) (Ya muru) ma unu aganii, unu ga mere onee unu.

 If it be that you went not you did selves your:

 If you did not go, you have yourselves to blame.
 - (d) (Ye wuru) mà Ogu erubèle ulò du thas,

 If it be that Ogu has not built house reach today,

 o gañii iru odo.

 he will not build enother: If Ogu has not put up m

 building till now, he will not build eny.
- (e) (Ye wuru) me erighe hi hwe, loghekume.

 If it be that seting they thing, do come back.

 If they are having their seal, do come back.
- (f) (Ya'wuru ma) gi machas ngwangwa, byakhwuta'm n'oru.

 If it ba that you finish quickly come join me in farms

 If you finish quickly, come and join me in the farm.

- (g) *(Ya muru ma) erighe hi hwe, loghakwaa
- (h) *(Unu jhere sjhe, o magburu ones ya.
- (1) 0 kmuole okau ojoo, uka ambiela.
- (j) Ha erighe hi heé, loghakwan.
 If they are having their meal, do come back.
- (k) its unu jhere ejhe, o megburu onwe ye.
 If you went it was commendable.

Observe from 53(a-e) that the matrix sentence <u>Ya wuru</u> is optional; secondly note that in (f) both the above matrix sentence and the following conjunction <u>ma</u> are optional because the tense of the relevant varbs is the simple present. By contrast, (g-i) which are respectively (f), (a) & (b) with the conjunction deleted are ill-formed. However the deviance is rectified in (j) & (k) (which are respectively (g) & (h) by the presence of the conjunction <u>ma</u>. From these date, it is obvious that the optional deletion of the deep-structure comp (what turns up in surface structure as a conjunction) is strictly governed by the tense of the relevant verbs.

There is, therefore; some syntactic motivation for establishing a transformational relationship between any pair of the examples 53(e-e) on the one hand and 53(j) & (k) on the other. While (j) & (k) can be accounted for in terms of the optional deletion of the antecedent-matrix sentence, forms such as (f), are related to the paradigm through the optional comp. Deletion rule which must be sensitive to the tense of the verbs in the conditional construction. Moreover, the paraphrase relationship between these examples is thus captured elegantly.

Observe elso that only the Ye wuru matrix S has been consistently used throughout 53 for the simple reason that the other form, A = I(I) does not co-occur with the open conditional constructions once any other than the simple present or future tense is involved.

Sut with Type 2 - the Improbable and Unfulfilled Conditional construction, the picture is different. To begin with, the only permissible matrix sentence is A ei(i), and it is never deletable. Secondly, the verb of the consequent in this type 2 conditional construction is restricted to an unvarying form which corresponds to the English model construction " ... would (not) have been ... ". There is also snother formal difference - the presence of the function word [mma] which is a kind of clause [mma]

marker to the consequent. Consequently, there is very little, if any, formal link between the two types of conditional constructions, and no affort is being made here to derive both types from one underlying source. We give some examples of Type 2 below only to complete the picture because it is type 1 conditional construction that is relevant to emotive predicate complementation.

54(a) A si ha Ogu neuru ansu, neis ya gasta ama .

If one were to say that Ogu died, wife his would know:

If Ogu died his wife (would know)

hed died

(b) A si na ofe agbeels Uks, I gaars end ishi ya

If soup has gone sour, you would hear smell of its

If the soup had gone sour, you would have smelt it.

(c) A si na mírī edoóle, (sma¹⁵) ala srúruóla

(d) ______ ale geers [nruru]

if you had not been careful, you would have blinded him.
The enterment clause is generally omitted, being understood from the context
Note that English Pluperfact is echieved by a juxtaposition of igbo Parfact
and a clause introduced by cha/ama.

If rain has fallen soil would have softeneds
If it had rained, the soil would have become seft.

54(e) Á si ne áneu áchaela, fo gazra fegbako agbako agbako ya ágbakoola

If sun has shone it would have dried:

If it had shone, it would have dried:

- (f) A si no mentre édii, mezhi aganiiri idini
 If offence were not reconciliation would not be:

 If there were no misunderstanding, there would be no need for reconciliation.
- (g) *Áney achaele, o geare égbeko .)
- (h) "Ofe Sobsels Uks, I gaure amu ishi ya".

From the deviance of 54(g) & (h) in which the matrix sentance of (e) and (b) respectively has been deleted, it is obvious that in type 2 conditional construction, the matrix sentence to the enteredent is obligatory.

The verb of the consequent clause is restricted to the form given in 54.

Having given a complete picture of Igbo conditional constructions, we leave conditional Type 2 slone and concentrate on the Open Conditional Type 1 which is immediately relevant to emotive predicate complementation. But before we do this, we shall give what we consider the deep atructures underlying both types.

Observe, too, that throughout these examples, we have essumed an primitive the order of the clauses given as the enteredent (conditional clause) followed by the consequent (main clause). The assumption is erbitrary, and no crucial argument is based on it; it just happens to tally with the order of constituents in Predicate calculus.

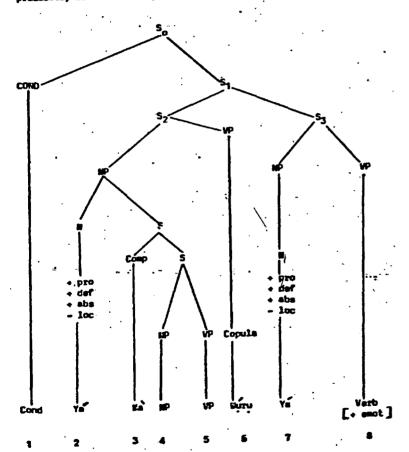
The meaning of most is not clear; it seems tied up with the entire consequent clause meaning in this category of conditional construction. The function of the morphame in the above examples is related to its use in the following expression in which an entecedent clause meaning is generally understood, thus:

you would have blinded him. You nearly blinded him. The full form of the above example could be something like

A' ai ne i kpachanii snys, man gi aghykpoo ya anys.

If you had not been careful, you would have blinded him.

We suggest the following deep structure (Fig. 5) for the sattement of the Open Conditional Construction (Type 1) which is introduced by Ya'suru, the deep structure underlying the entire conditional construction, with an emotive verb as the matrix predicate, is shown in Fig. 7.



e1- 'E

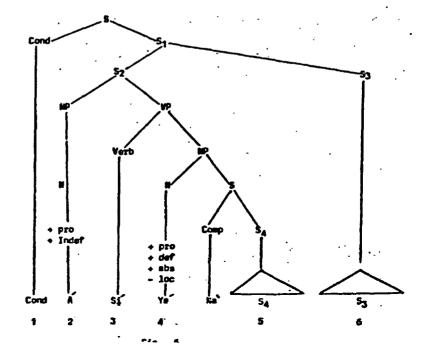
The above represents the deep structure of conditional constructions beginning with \underline{Ye} wury. To structures such as these, an obligatory rule – the Copula Rovement rule – applies to produce 55 (a).

The Copula Fovement Rule (obligatory)

Process : Attach 4 as the right sister of 2.

The output of this obligatory rule is 55 (a)

The second type of conditional construction introduced by the antecedent matrix sentence, A si na is an instance of Object-MP complement, and has the deep structure shown in the following Fig. 6.



that

The above structure must undergo the Ya Daletion rule thus: 1 123#56 The output is 55 (b)

55 (b) A

8878 The presence of the node Cond(ition) serves as a trigger for these obligatory transformations.

The two transformations may seem ad hoc, and such a charge is inevitable in the absence of any previous transformational account of 1gbo complementation in relation to Conditional constructions. However, it seems that if Conditional constructions are to be captured within the framework of NP complementation in the language. and this seems valid from the syntactic evidence at our disposal. then certain transformations must be made sensitive to the presence of the node Cond. in deep structure. Such T-rules are the obligatory Copula Envement and Ya Deletion rules.

From now onwards, we assume that a case has been made for the analysis of contitional clauses as an instance of MP: complements.

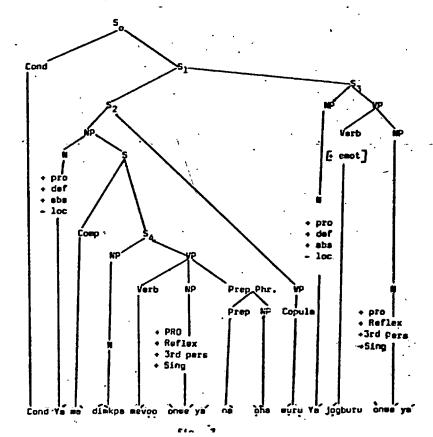
In 5.1.3 (p.295f), we pointed out that the Subject MP complements of emotive verbs may be conditional clauses. What we are going to argus in the following section is that the antecedent of Conditional Construction Type I functions as subject #P te smotive verbs. In other words, we mean to show that 56 (a) and (b) are transformationally related.

56 (a) Ya wutu diskpa a responsible person disgrace that urudo ot If a responsible in phulic it is bad kill self it: person disgraces himself in public, it is very bad.

Dinkoa for a responsible person to disprece himself jogburu onwe

It could be argued that the relation between 56 (a) & (b) is better left to-semantic equivalence rules rather than captured transformationally. Before we counter this objection, let us first examine the transformational process involved since part of the justification for our analysis will amonge from such a process.

The deep structure of 56 is shown in Fig. 7 below - which represents the full underlying structure of Fig. 5 to which-reference was made on page 30% -



To the underlying structure represented by Fig. 7. the obligatory Copula Movement rule given on page 304 applies to produce 56 (c) thus:

Process: Attach 4 as the right sister of 2

56 (c) Cond. Ya wuru ma dimkpa mévoo onwa ya n'oña, Ya jogburu onwa ya.

If the morphophonemic rule which converts Ya to 0 and appropriate phonological rules were to apply to 56 (c), the output would be the well-formed sentence 56 (a) on page 305. Note that the node, Cond. is delated only after the application of the above rules, since its presence ensures that the first Ya is not affected by the rule of Ya to 0 conversion. In other words, COND Ya never becomes COND 0 by this rule as far as this dislect is concerned.

However, 56 (c) meets the structural description for the optional rule Antecedent Matrix S Deletion, thus:

The Antecedent Matrix S Delation

Process : Delete 2

Condition : The tense of Verb₁ & Verb₂ must be future/

SC: (1) # 3 4

The output of the above rule is 56 (d)

56 (d) (Ea) diakpa mevoo onme ye n'ohe,

ya jogburu onwe ya.

Observe that the mode CCND. may be deleted along with the enteredent atrix sentence or later after all relevant T-rules have applied.

Now 56 (d) in its present form is subject to either of two optional rules, namely:

- (a) Infinitivization or
- (b) The Consequent-Preposing rule.

If none of these two rules applies, then the application of phonological rules to 56 (d) yields the sentence 56 (e): 56 (e) (Ma) dimkpa mevop once ye nothe.

0 jogburu onwe ya.

Since the complementizer ma in 56 (e) is optional because it is sentence-initial, let us apply the Consequent Preposing rule, which makes ma obligatory:

The Consequent Preposing Rule

SC: 1+423**s**

The output is 56 (f) which becomes 56 (g) by the Ya to 0 conversion and relevent phonological rules:

- 56 (r) Ya jogburu omze ya ma diakpa mevoo omze ya niona. 56 (g) O jogburu omze ya ma diakpa mevoo omze ya niona.
- 56 (g) is well-formed.

Alternatively, we can apply the other optional rule of Infinitivization to the same 56 (a); there is no order relationship between these two rules.

Infinitivization (optional)

SD : Comp NP Verb (NP) (PP) Ya Verb (MP)

[· emot]

- 1 2 3 (4) (5) 6 7 (8)
- Process : (a) Prefix the Infinitive marker I¹⁶ to 3 and delete any time suffix on the werb.
 - (b) Delete 1 and 6
 - (c) Delete 2. obligatorily, if it is the Indefinite pronoun A, optionally otherwise.

Contition: The tense of the verbs 3 & 7 must be simple present/
'future.

SC : \$\ \mathbf{g} 2 1+3(4)(5) \ \mathbf{g} 7 (8)

The output of the above rule is 56 (h) in which the necessary phonological rules have also applied.

56 (h) Dimkpa imevo onme ya nº oña

For a responsible person to diagrace himself in public

jogburu onwa ya.

is very bad.

Observe that Infinitivization here does not depend on a prior application of Equi-NP deletion, as is the case with subjunctive complements (cf 8.2.0). This explains the syntactic difference between the two types of Infinitives in this as in the English language, namely:

- (a) Subjectless Inifinitives deriving from Subjunctive Complements via Equi-NP deletion, and
- The Infinitive prefix is given in its phonological form 1, and has ten possible phonetic realisations; based on vowel harmon y., (cf 2.1.1. p.36). For a detailed account of Your Harmony in Igbo, see Carnochan 1960 p. 155-163.

(b) Infinitives with Subject deriving from ma²₂ emotive predicate complements.

The subject of the (b) type of Infinitive is obligatorily deleted only if it is the indefinite pronoun \mathbb{A}^{17} . As examples of those sentences where the Indefinite pronoun \mathbb{A} must be deleted, consider the following 57 (s-d).

- 57 (a) Ya wuru ma e meruo ya ahu, 0 ga enye naogbu lf it be that one wounds him it will give trouble:

 If he is in jured, it will complicate matters.
 - (b) Es a meruo ya ahu, o ga enya nsogbu (By opt. Antacedent Matrix S del.)
 - (c) 0 ga enye nsogbu ma é meruo ya mhu. (By Consequent

 It will complicate matters if he is injured. Preposing)
 - (d) lmeru ya ahu ga enye nsogbu. (By Infinitivization)
 To injure him will complicate matters.

The deletion of this third person indefinite pronoun a/e is obligatory in the process of infinitivization, whereas that of other indefinite or unspecified nominals is optional thus:

(e) (Madhu) they ewi n'ehiha my mhihi.

(For a person) to see the giant rat in broad daylight is a bad peen.

It is necessary to point out that the rule of Antecedent Matrix
Sentence - deletion is ordered before both the Consequent Proposing
and Infinitivization rules, if devient sentences such as 57 (f) are
to be blocked.

A luru ogu s One Fought/some people fought:

See 2.1.1 for more details.

¹⁷ Like the Infinitive prefix, the phonological A for the Indefinite pronoun singular is harmonising, and has two phonetic realisations as in:

E kwuru okeu: One telked/someone telked

57 (f) *Yá wuru mà dimkpa imévo onwe yā nº jiha jogburu. onwe yā.

Observe that Inifinitivization with emptive predicate

complements does not depend on a prior application of Equi-NP deletion,
but crucially on

- (s) The emotivity of the predicate and
- (b) The tense of both antecedent and consequent clauses.

We shall take up the issue of tense constraints in chapter \$\(\mathbb{S}.2.6 \)
p. 317-323) where we discuss the applicability of Equi-NF deletion in subjunctive (Ka\mathbb{A}_1) complementation.

Although the rule of Infinitivization applies, in these examples, after Consequent Preposing, ordering is not necessary, as we have observed earlier (cf 5.1.0:p. 269:). As a further illustration of this fact, let us examine the following sequence of derivations in which the subject RP of the entecendent clause is an unspecified agent nominal. The application of relevant phonological rules is taken for granted.

58 COND Ya se machu huý sul n'ehihe súru ya aŭ ehihi Pase

- (a) Ya wuru ma madhu hau au n'ehiha, ya wu shihi.
 - (By oblig. T-Copula Evt.)

(By bolig Ya to O conversion)

(b) Ya wuru na mechu hou sel n'ehihe, ç ou shihi

If a person should see the giant rat in broad daylight, it is a bad

- -58 (b) is well-formed.
 - (c) Ea madhu hwy swi n'ehihe, 0 wy shihi.

(By opt. Antecedent Matrix S deletion)

(d) D su shihi sa sadhu hau sai n'shihe.

(By opt. Consequent Preposing)

It is a bad omen if a person should see the giant rat in broad daylight.

Both 58 (c) & (d) are well-formed.

(e) Hwe wo chihi wo ma madhu hwy cwi n'chihe.

(By opt. Pseudo-Cleft followed by obligRelat;

What is a bad ocen is for a person to see the giant rat in broad daylight.

- (f) Hee eu chihi eu (madhu) ineu cui n'chihe.

 (By opt. Infinitivization)
- (g) (Madhu) ihwu ewi n'ehihe wu hwe wu ehihi.
 (By opt Reverse Cleft)
- (h) (Badhu) ineu emi n'ehihe mu hem mu shihi.

 (By opt. De-cleft)

To see the gient rat in broad-daylight is a bad omen.

Each of 58 (c)-(h) is well-formed, and their generation follows a different sequence of rule application thus confirming that rules are simply intrinsically ordered. Observe also that the unspecified nominal, and is optionally deletable, as 58 (f-h) show.

If the unspecified agent nominal mathu is optional in sentences such as 58 (f-h), the indefinite Pronoun, A, is obligatorily deleted in 59 (f-h):

59 (a) Ya´ mà Á cọc ya acco n'ọng úsékhau kả à múry,

Va ga enyé nsogbú] (Base)

- (b) Ye suru sa a coo ya acoo n'onu usekhau ke e.
 C ga enye nsogbu. (By oblig. I-Copula Bove & Ya' to 0 Cone)
- (c) Ra s coo ya scoo n'onu usekheu ke e, 0 ga enye nsogbu. (By opt. Ante. Matrix S del.)
- (d) 0 ga enye nsogbú es a coo ya acoo n'onu üsekheű: ka 🚵 (By T- Conseq. Prepose-opt.)

It would create a lot of problems if he should be missing from this family.

- (e) Hee ga enve nsogbu eu ma é cop ya acop n'onu usekhau ke e. (By opt. Paeudo-Cleft & oblig. Relet.)

 mat will create a lot of problem is for him to be found missing from this family.
- (f) thee ca enye nsogbu eu ico ya aco n'onu usekheu ke e. (By opt. Infinitivization & oblig. Indef. Pronoun del.)
- (g) Ico ya aco n'onu usekhau ka a au haa ga anya nsogbu.

 (By T-Rayarsa Claft)
- (h) Ico ya aco n'onu üsekheü kë a ge enyé naògbú.
 Te find him missing from this feeily mill create a lot of problems. (By opt. De-Clefting)

Each of 59 (b-h) is well-formed, and the deletion of the indefinite pronoun, A, is obligatory, as otherwise as would derive the 111-formed 59(i) which is 59 (f) with the indefinite pronoun undeleted. 59 (i) there ga enve neogby wy A ico ya eco n'ony usethan ka e. Having shown how open conditional constructions with smotive werbs in the consequent (main) clause can be transformationally related to their infinitival counterparts, let us now try to ensure the question raised on page 306 as to why we should relate infinitives and contitionals transformationally, especially as only a small sub-category of conditional constructions is involved in the examples under examination: If the T-rule which relates sentences such as 58 (b) & (f) or 61 (a) & (b) does not apply to all open conditional constructions, then the gain of such a transformational relationship is minimal, and the paraphrase relationship existing between such pairs as 61 (a) & (b) is better left to semantic equivalence rules.

In order to counter the above argument, it is necessary to point out that the verbs involved in the consequent clause of the conditional constructions and their infinitival transforms are complement-taking predicates belonging to the sub-category of emotive verbs, a semantic class which has been justified on syntactic grounds (of \$.1.3.) Secondly, it will be observed from Figs. 5 & 7 and other relevant examples that the co-referentiality of the abstract proform Ye in the entecedent and its morphophoneme 0 in the consequent is a unique characteristic of this type of conditional construction, and is possible only with emotive verba chich take sentential subject. As in other subject-NF complements, Ya is deletable along with the antecedent - matrix sentence, but only obligatorily converted to 0, if it is the subject of the consequent (of examples 57 (b), 58 (c) & 59 (c)). Thirdly, there is the very important consideration of the tense constraint on the applicability of the rule of Infinitivization: Very similar. If not the same tense constraint on the applicability of Equi-NP delation and Infinitivization on the complements of forwardlooking predicates (cf §.2.0) are at work here in the infinitivization of the verb of the entecedent clause which,

consequent. Just as the verb of a ka/ma subjunctive complement is always future in relation to the tense of the matrix sentence, so is the verb of the antecedent always future in relation to that of the consequent, which is generally future or simply present. The only difference in the two situations is this: The matrix verbs to Ka/ma subjunctive complements are generally inherently forward-looking predicates such as

ico to wish, desire
ikwadho prepare, plan
ikwa nkhwa promise

while those involved in emotive predicate complementation here are not inherently forward-looking, but must be future in order for Infinitivization to apply. Coonsequently, the paraphress and transformational relationship between the following 60(a) 1 (b) parallels the relation between 61(a) 1 (b), except in so far as 60(a) has a subjectless infinitive complement, while 61 (b) has an infinitive complement with subject 18.

If a responsible person starts talking too much, it is a shame.

For a " to start talking too much is a shame.

It seems, therefore, that by capturing transformationally the paraphrase relationship between pairs of sentences such as 61 (s) & (b), we are merely invoking an independently motivated constraint, and this, coupled with the first two reasons given above, constitutes sufficient justification for not leaving this paraphrase relationship to semantic equivalence rules. The tense constraint on infinitivization explains why infinitives generally have a future meaning in most lenguages.

Igbo and English, for example.

5.2.1 Emotive Fredicates And Maising

Just as emotive predicates are the only sub-group of verbs which take infinitival complements, some of them are similarly the only verbs in Igbo which allow their complements to undergo the Raising Rules (Subject and Object Raising). Only non-factive emotives are involved. Subject - Raising accounts for the transformational relationship between 62 (a) & (b), while Object - Raising is responsible for the paraphrase relationship between 63 (a) & (b).

- 62 (a) It appears that John is a shy character.
 - b) John appears to be a shy character.
- 63 (a) I wanted for John to be present at the conference.
- (b) I wanted John to be present at the conference.

 In 62(b), the subject of the that complement has been raised into the subject position of the matrix mentence (hence Subject Raising or Raising Subject MP into Subject position), while in 63 (b) the subject of the for to complement has been raised into the Object position of the matrix clause (hence Raising from subject into object position). Raising is a fairly wide-spread phenomenon in English, and is one of the Sources for deriving the prolific infinitival complements in the lenguage.

¹⁸ See the rule of infinitivization (p. 3/0) where it is argued that only indefinite nominals (nouns or the pronoun A "one") can be deleted. Infinitivization in emotive predicate complementation is not triggered by Equi-NP deletion as is the case with Ka/sa subjunctive complements.

But it seems a vary restricted syntactic process in Igbo, and so far, only a handful of emotive predicates are known to be subject to the rule of Subject - Raising; Object - Raising does not seem to be a rule of Igbo syntax, and even in English, its status is questionable.

By subject - Raising in Igbo, we mean that the subject - or object - NP of a complement clause can be raised into the subject position of the main clause. Igbo, unlike English, does not raise subject into an object position. As 65 & 66 show, Raising from Object Into Subject position in Igbo is very similar to Tough-Movement in English, as illustrated by the following English examples:

- (a) .It is tough for any champion to beat Arthur Ash.
- (b) Arthur Ash is tough for any one to beat.

The verbs involved in the Subject - Paising rule in Igbo include:

Of these, the first four are those which are subject to obligatory
Extraposition, as illustrated on page The following 64-66
illustrate Subject - Raising in Igbo:

- 64 (e) 0 di ke nwa a dhare adha It seems that this child had a fall
 - (b) Nea a di ke O chare sche-Child this seems that he fell falls This child seems to have had a fall.

- 65 (a) 0 {toshiri} ka m luwn nem agbogho (kmeshiri} ka m luwn nem agbogho (
 - (b) Nea agbogho o {toshiri} ka m luma ym .

 This young girl is fit that I should marry her:

 This young girl is fit for me to marry.
- 66 (a) 0 di skpa na anyi heuru Dike.
 - (b) Dikhe di ckra na anyi hauru ya.

 Dikhe is necessary for that we should see him:

These examples are enough to illustrate what happens in Subject Raising in emotive predicate complementation in Igbo: when the object of the complement is raised into the subject position of the main clause, its pronominal copy is left behind. This explains the presence of the object pronoun ya (her) in 65 (b) and ya (him) in 66 (b) where these two homonyma stand for "New - agbogho o' (this young girl) and Cikhe respectively. Unlike what happens in English, RAISING in Igbo does not give rise to infinitives, rather Infinitivization is independent of RAISING, as the above examples conclusively show. The rule of Subject Raising will apply whether or not the emotive predicate complement has undergone the rule of Infinitivization:

67 (a) Nwa - agbpghō o kweshiri a silū(ni) to lūlų.

This young girl is fit for me to merry .

(b) Dikhē di anyi mkpā ihwū(ni)

mkpā ohwuhwu

Dikhe is necessary for us to see.

These examples are the output of RAISING and INFINITIVIZATION. Note that in this form, there is no pronoun copy of the raised object left in the complement, rather we optionally have the __ni_Suffix. No members of any other semantic class of verbs than emotive predicates are subject to either Subject Raising or Object Raising in the Igbo language.

CONCLUSION

the language.

In this final section of the chapter, we have examined the motivation for the distinction into emotive and non-emotive predicates (a distinction which cuts across the factive/non-factive one since there are factive and non-factive emotives) and we have justified such a distinction on the basis of the following syntactic evidences

(a) Only emotive predicates take either conditional (antecedent) clauses or otho - headed complex MP*s es subject, and permit its infinitivization.

The status of the -ni suffix, like that of many non-inflectional

- (b) Only such emotive predicate complements are subject to the optional rules of Infinitivization and Subject Raising, these two rules are not subually dependent, as is the case in English where RAISING gives rise to infinitives.
- (c) Infinitivization in these complements is a consequence of the emotivity of the predicates involved and the fact that the verbs in both the antecedent and consequent clauses express no more than the simple present/future time, a fact we relate to ECUI and forward-looking verbs in chapter 8.
- (d) RAISING in Igbo means the raising of either the subject or object of the complement clause into the subject position of the matrix or main clause. In the case of raising from object position, a pronominal copy of the complement object is always left behind, unless the complement in question has previously undergone the rule of Infinitivization.

We also distinguish the above infinitival complements from the gerunds which we associate with factive. We complements; this distinction is justified on syntactic and sementic grounds.

5.3.0 %a - Complement Verbs

The great majority of MP - complement - taking verbs in Igbo take Na complements either as subject or object. Henry of these may also take Ka/ma subjunctive, or mm Interrogative complements; they mill also take mi Imperative complements if they are verbs of saying. In where of this fect, cross - classification of verbs is inevitable.

Only a representative sample is given, and the list is by no means exhaustive. We give, first, Wa Subject - MP verbs, and then Object - MP ones.

and non derivational suffixes in Igbo, is not clear. It seems. however, to be associated with objectless werbs as in the shows sastcmexe pniwoflob bns Únye byarani, kpuo ya obia. Choever comes . entertain him. Contrast this with Daye ŽUTU DŘÍ, MĚVÓD VĚ . Choever steals. disgrace him. Although the werb come is intransitive in English, and steal may be used intransitively, the Igbo verb (zu ohi is transitive. The presence of the inherent complement, ohi explains the absence of the -ni suffix as the two ere autually exclusive in

List of Verbs	
jbha úru	- to be useful
lai ·	- to be
ído anya	- to be clear (of facts, argument etc.)
iga enya	- to pass through the eye
ighagwoju anya	- to be confusing, to confuse
ikpa uhwa	- to please, delight
ikudha obi	- to cool the mind, calm down
ikuju obi	- to pacify, calm down the mind
ikweshi	- to be worthy, appropriate
imashi	- to please, delight
ime ihwere	- to shame, to cause to become ashamed
imewe anya	- to convince, cause someone to be convinced
ira ahu	- to be difficult
itughā obi	- to cause to change one's mind -
itu n'anya	- to surprise, astonish, to cause to change
ime anys	- to be evident, to be convincing
ice	- to think, conjecture
iconit .	- to discover, find out
ide	_ to write
igbā agugo	- to ergue, debate
igba akaeba	- to testify, give testimony
igba ama	- to disclose
igbe izu	- to whisper
ighasha	- to apresd, circulate
igha ugha	- to lie, tell a lis
ighota	- to understand, comprehend
190	- to deny
igoshi	- to demonstrate, show

•	•
100	- to read
iges	- to tall
iheu	- to see
įjū	- to refuse
ika	- to say, relate etc.
íko	- to guesa
iko	- to marrate
ikota	- to recognise
ikowa	- to explain, elucidate
íkuzhí	- to teach, instruct
ikuafe	- to veceive, to benter
ikee	- to agree, consent
1kwe nkae	- to promise, make a promise
ikuu	- to say, relate etc.
ikoufuta	- to confess
ile anya	- to expect, swait
ina	- to know, reelise
ina ebe	- to wager
ina iw	- to legislate
inota	- to know, resline
imita	- to learn, understand '
iro aro	- to dream
irutu eka	to point out
iara	- to reply .
i•i	- to say, relete, allege etc
iti mapu	- to shout
ięń,	- to plan
îți auta	- to expect, smalt
įtugha	- to discuss
ten nio	- to be afraid, feer
ine	- to take se, to take that,

izm - to ensuer

izhi - to show

izhi ozhi - to send a message, word

Chapter 6

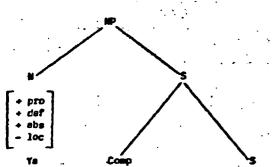
MB₂ NP - (Embedded Yes/No Question) Complements And

Embedded Kêdý - Questions

6.0 Introduction

This chapter is divided into two major sections, the first part (6.1 - 6.2) is concerned with Interrogative complementation, that is, the embedding of questions demanding the snawer Yes or No (hereafter referred to as Yes/No Questions) as NP, while the second part (6.3.0 - 6.3.1) is devoted to the Igbo equivalents of embedded English LH- Questions. We have decided to describe the letter as Kedu - Questions to avoid any wrong impression which might be created by talking of LH- Questions in the description of a language where the form LH- has no morphological basis. The decision to treat the two types of questions together is made on the need to facilitate comparison and contrast. Section 6.4 considers in detail the syntactic uniqueness of other headed NP in so far as they relate to other NP - complements in the language, while in 6.5. we give a sample list of verbs which take Interrogative complements.

In 6.1 - 6.2 we show that ma2 clauses are instances of NP - complements while their Kedú counterparts, though NP's, lack the structure characteristic of sentential complements such as we have given in this thesis. Rather, Kedú - Questions, of which othe - headed NPs form a sub-part, have the structure of a complex nominal (Nom. 5) (cf 4.2, PS-rules 6 & 8, p. 206) while an NP - complement is characterised by the following internal structure:



where the nominal head must have the above feature specifications which the N of a complex Kominal structure does not have. In addition, sentential complements are characterised by complementizers in their structure, whereas complex Kominals (relative clauses, for example,) are not.

In vice of the fact that there is no detailed analysis of .

Question constructions in Igbo to which reference can be made, we have considered it helpful to supply the necessary background in the following section 6.1.

6.1. Types of Tobo Questions: 1. Yes/No Questions.

- 1 (a) Đgu, Đ¹ byara áhya?

 Ogu, he came (to) market? Did Ogu come to market?
 - (b) Kdom ya ha nochakwa ya?

 Wives his they stay all at home in it

Are all his wives at home?

- 1 (c) Dimkps, I na agbaiges?

 Ban, you are trying also?

 Man, are you doing fine?
- (d) Unu envisole mai efo?

 You have drunk fill wine stomach?

 Have you taken wine to your satisfaction?
- (e) Come m, m hourd ya anya?

 Self mins, I saw him sye? (Rhetorical)

 I did not even see him myself.
- (f) Anyi gburu ochu? (Idiomatic)

 We killed ochu? Did we commit murder?

 2. Kedu Type:
- 2 (a) Ogu, D mere { giri } ?

 Ogu, he did what? What did Ogu do?
 - (b) The, 0 gidhers onye?

 The, he wrestled down who? The did The throw/best?
- (c) thu ndom, he jhe n' olee?

 The women, they are going where?

 Uhere are the women going?
- (d) Enyi, I mene { olia}

 Friend, you have done how?

 Friend, how do you do? (A greeting)
- (e) Nenna, I loro { ole mobu ole)

 Nenna you returned what time?

 When did you return, Nenna?

Throughout these examples, we have deliberately departed from our convention of not marking the tonus of successive syllables unless there is a contrast or change of pitch. For example, all the pronoun subjects have been marked as low or low - low regardless of whether the preceding syllable is also on the same pitch. So have done this in order to highlight the low tone pattern of pronouns in Question constructions in the Language.

2 (f) Unu jiri ole mobu bya?

You used what time come? When did you come?

It will be observed from examples 1 & 2 that question format'on in Igbo demands that -

- (a) There be a pronominal copy of the subject of the sentence, unless such a subject happens to be a pronoun; this is in contrast to statements, which co not demand any such pronoun copy;
- (b) This pronominal copy must have a low (if monsyllabic) or low - low tone pattern, (if disyllabic).

Secondly, examples 1 (a-f) differ from 2 (a-f) in that the former lack what the latter have, the following question morphomes which are always present in this type of questions

These question morphemes constitute the major difference between Yes/No and Kedu- Questions in Igbo. Examples 1 (a-f) represent the Yes/No-Questions, shile those of 2 (a-f) are instances of the Kedu types, which are the Igbo equivalents of the Questions in English. If the examples of 2 represent that we have described as Kedu - Questions, how does the morpheme Kedu come into our discussion?

In order to ensuer the above question, let us admit the following additional date:

- 3 (a) Girī mere?

 What happened?
 - (c) Onye byars?
 - (d) Kedu onye byarani?
- 4 (a) { Kedú | hee Ibe mere? | Dide | hee Ibe mere? | Dide | Dide | What thing Ibe did : What did Ibe do?
- (b) Kedu or ye Ogu g'idhere?

 Which person Ogu defeated in wrestling:

 Whom did Ogu defeat in wrestling?
- (c) Olee ebe unit nation jie?

 Which place women are going:

 Where are the women going?
- (d) Nenna, ndíí agbu l loro?
 - Enyl. kedú atho I, mere? : Friend, how do you do?

what time did you return?

(f) Kedu og'e {unu } /jiri bys?

What time you used come: What time did you come?

Observe from the foregoing examples that 3 (b) is the kedy or periphrastic version of 3 (a), just as 3(d) is that of 3 (c). In 4 (a) Kedy is given as one of a closed set of items which may introduce the appropriate variant of Type 2 or Kedy - Question. In other words, kedy is a cover term for these lexical items which always function in initial position in this form of Type 2 questions. We have chosen it as a descriptive label because of our liking for it as a shortened form of greeting which is fast gaining popularity.

Strictly speaking, kedy is an Onitable dislect word which is now used non-dislectably, while hdi and olse are Overri in origin. Then we talk of kedy - Questions, we mean that category of questions (Question Type 2) which do not demand a Yes/No answer. They have two variants - the form without the item kedy, such as are shown in 2 (a-f), and the form with kedy (the periphrastic form of kedy - Questions) as revealed by 3 (b) & (d), and 4 (a-f). As we shall show in 6.3.3, it is the periphrastic form which are analysable as relative clauses whether or not they are accedded as complex MP's to complement - taking predicates. Any further details about this sub-category of Igbo questions are deferred to the above section.

Despite the superficial similarities of Yes/Ko and Kedy
Questions, we do not process to derive the two types of questions from
atructurally
one common underlying form, the main reasons being that/the Yes/Ko

type requires the trigger Q, which Kedy - Questions do not require
since they have an interrogative morpheme in deep structure. Secondly,
it is theoretically more sound to derive the non-periphrastic form of
Kedy - Questions from the periphrastic form via a reduction rule,
rather than involve oneself in a structure - building process by
attempting to generate the periphrastic version from the more basic,
non-periphrastic form. Fig. f below represents the deep structure
of Type 1 (Yes/Ko) Question in Toba

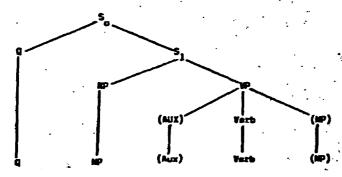


fig. 1

To the above figure we apply the following obligatory T-rule for Yes/ko Question formation in Jobs:

The Q - Substitute And Pronoun Cory Rule (Oblig.)

Process : Substitute 2 for Q and leave a pronoun copy of 2 behind.

It is the application of this rule which produces sentences such $\frac{1}{2}$. 5 (b) from 5 (s).

- 5 (a) Q Hdi ulo ya diche ene
 - (b) Nci ulo ye, ha ciche mai:

 Fembers of house his, they are all well:

 Are his family all well?
- 5 (b) is represented by the following tree-diagram, fig. 2

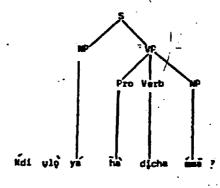
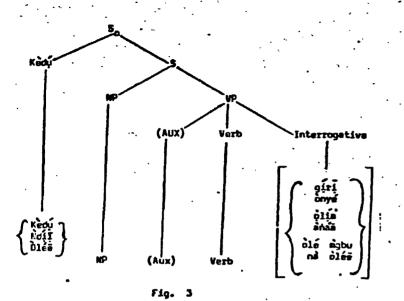


Fig.

Kedy - Questions

Kedý Questions (Type 2 Questions) have the following underlying structure:



It is observable from the above fig. 3 that Kedu and its substitutes constitute a pre-sentence in the deep structure of Type 2 (Kedu -) Questions, and that the VF is expanded into verb and interrogative, instead of verb and NP (aux being an optional element). The derivation of both the non-periphrastic and the periphrastic versions of kedu - Questions follows the following rule applications

Process : Attach the pronominal copy of 2 as the left sister of 3, or of 4 if there is no 3

Only this T-rule slong with the relevant phonological rules is needed to derive sentences such as:6: (b) from 6 (a) thus:

- ; (a) Kedu Ogu mera giri (Basa)
- (b) Dgu, O mere giri : What did Dgu do?

But in order to generate the periphrastic version of 6 (b), we need to apply the following rules some of which are transformational, others morphophonemic, to the base form 6 (a) :

- (c) Kedú girī Dgu mere (By Interrogative EVT. oblig.)
- (d) Kedú hwe Dgu mere (By hwe for giri Substicute morphophonemic & oblig.)
- (e) Kedű hwe Ogű mère? (By Tone Rules oblig.)
 The above 6 (e) is a well-formed Igbo sentence.

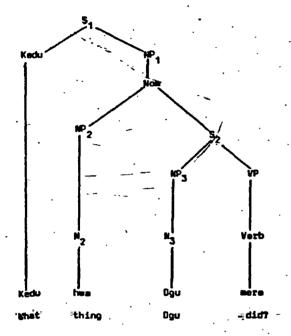
Observe that the Interrogative Ecomment rule above is similar to, if not identical with Object (NF) Ecomment given in 5.1.0 p. 267 in connection with the relativization of factive Na - complements, or the Verb complement ecomment rule in the case of intransitive varba (cf 5.1.1 p. 277) All these rules are subject to one and the same constraint, namely, that the item moved must be directly dominated by VP and be a right sister to the verb; they can, therefore, be subsumed under one movement rule in Igbo, which is relevant to relativization in the language.

All interrogatives are subject to similar morphophonemic rules thus:

- (1) hwe for girl
- (11) onye a onye
- (111) otho " [0110]
- (iv) ébe " na ôléa
- (v) Reduction of <u>als mabu</u> to mabu.

Examples 3 (b) 4 (d) and 4 (a-f p.32g) illustrate the use of these forms occurring in the periphrastic versions of Kedy - Questions.

· 6 (e) has the following derived constituent structure, Fig. &



Fin. 4

What did Ogu do?

The details of the rules which produce sentences such as that shown in the above Fig. 4 belong appropriately to Section \$.3.0, and are deferred to that section.

Summary: In the foregoing section, we have demonstrated that there are two categories of Questions in Igbo - Yes/No and Kedu - Questions and that each of them has a different underlying structure, as shown in Figs. 1 and 3 respectively.

In Kedu - Questions, the periphrastic and non-periphrastic forms are related by a transformation which deletes kedu in the non-periphrastic vorsions, but not in the periphrastic ones.

The non-deletion of kedy triggers a movement rule which moves the interrogative to a position where it is immediately preceded by kedy, thus giving rise to a set of morphophonemic rules whose output becomes the input to the Tone rules which are needed in reletive clause formation.

So far, our discussion of Interrogative Sentence formation has been confined to Direct Questions. In what follows, we shall see how the process of embedding these questions affects the rules so far discussed. That we have described throughout this thesis as Ea_2 (Iinterrogative) complements are instances of Indirect Yes/No Questions embedded as NF after a subset of matrix verbs.

6. 2. Ea_2 NP Complements: Embedded Yes/No Questions

The following sentences contain instances of ma_2 Interrogative complements:

- 7 (a) Đgủ jựrụ mà₂ ảnyị ga ejhékwe ahyā. Ogu asked whether we shall go still market.
 - Ogu asked whether we should still go to market.
 - (b) Ma2 0 turu ashi aa2 0 kwuru ézhiokeû

 Thether he told lie whether he told truth

 na agbagwoju a anya.

 is confusing me eye:

 Thether he lied or told the truth is still confusing to me.
- (c) Anyi na agba agugo ma î heykeara ya n'anya.

 We are arguing whether you really love him :

 We are debating the issue as to whether you really love him.
- (d) Agala chephakes m ma_ 0 ga akwa thyant

 Still thinking am I whather he will consent to come.

 I am still wondering whather he will consent to come.

7 (e) Anyi anubels se 2 Ego (0) lucia di.

We have not heard if Ego she has serried husband;

We have not heard whether Ego has married.

The structure underlying the above sentences is given below in Fig. 5.

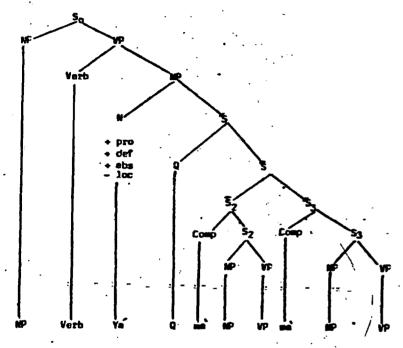


Fig. 5

The deep structure of mag NF complements is not different from that of any other NF - complement except in terms of the node present and the necessity of having double questions ambedded in such a structure. Chapter that it is the pre-sentence Q which triggers the Q - substitute and Pronoun - Copy rule discussed in 6.1. page 350. This T-rule is still very relevant to mag complementation in view of sentences such as 7 (a) repeated here with its variant:

7 (a) Anyi anübele mag Eg o f Q lupta di.

what happens is that for some dialect speakers, the T-rule is obligatory for both embedded and non-embedded Yes/No Questions; for others, it is obligatory for all non-embedded Yes/No Questions, but optional for embedded ones. This is the situation in the dialect being described here. Whether this Q substitute and Fronoun Copy rule applies in Ea₂ complementation or not is immaterial to the transformational processes involved in this subset of Igbo complementation, although its application serves to maintain the essential unity between Yes/No questions on the one hand and Ea₂ NP complements on the other. The need to maintain this unity of treatment is the overriding reason for the application of this T- rule throughout this chapter.

In order to see the derivational processes involved in the generation of the sentences of 7, let us examine the following paradigms 8 and 9:

- 8 (a) Iba júry a sa 0gu 0 neúry aneu n'ezhi okaŭ.

 Iba asked sa wnether Ogu ha died in true sord:

 Iba asked sa whether Ogu really died.
- (b) Hee lbe jury m wu sa 0gu 0 neury annu n'ezh:

 ckeu.

 ghat Ibe asked me is whether Ogu really died.
- (c) Ka Dou D neutru ansu n'ezhi okeu eû has Ibe jûru m .
 Uhether Cou really died is what Ibe asked ee
- 9 (a) Anyi gbagha agugo ma₂ úmuaka a ha hautu me are arguing whether children these they associate ohi-

thieves.

(c) Hwe anyi gbagha agugo ya au ma umujika a Uhat wa are arguing about is whether these children ha hauru ndi oni.

saw any thieves.

(d) Ea Çeşêkê a ha heyru ndî ohî bû hee Ehother these children saw any thieves is what any; ghagha aguso ye.

The derivation of paradigm 8 is as follows:

- (b) Îbe juri a ya a ûgû û neuru aneu mezhi-okaŭ:

 (By T-Q substitute & Fro Copy, opt-)
- (c) Îbe jûry m mê Dûû û rmûry mney n'ezhiokwû.

 (By abstract Ya Deletion- opt)

10(c)above is the same as 8 (a). As was made abundantly clear in chapter 6 on to complementation, an early deletion of the abstract pronoun you blocks the derivation of other semantically related—sentences of the paradigm. It is for this same reason that the reader is asked to ignore 10 (c) for the meantime.

We therefore continue the derivation with 10 (b) as input, giving to (d) Ye Ibe jury a meg Cgu 0 mauru army n'exhi-close c

(By abstract ya fvt opt.)

10 (e) Hwe Iba jýry m my mà Ogù ŷ neýzy aney n'azhi-okeŭ.

(By T-Pseudo-Cleft - Oblig.)

(f) Hwe lbe jūru a wu mag Ogu û neuru aneu n'exhi-okeu.

The application of the necessary Fhonological rules to 10 (f) yields the acceptable sentence, 10 (g), which is equivalent to 8 (b).

- (g) Hwe lbe jury a ou as tou 0 neuro aneu n'ezhi-oxeu.

 10 (h) is the output of an optional application of the Reverse Cleft
 rule on 10 (f):
 - (h) Ea Ogu O neuru ansu n'ezhi-okeŭ eŭ hea Iba juru a.

 Whether Ogu died in truth is shat Ibe-asked me:

 Unether Cou really died is what Ibe esked me.

From the derivational history of the sentences of paradige & given here, the following facts emerge:

- (a) Apart from the first of these T rules the Q substitute and Pronoun Cory rule which is unique to mag complements—tion, the rest of the T rules involved here are those that we have established in chapter 6 in connection with Ma complementation.
- (b) The ordering of the rules remains exactly the same, with the abstract Ya' Enverent rule preceding the Facudo-Cleft rule, and Relat, and Reverse Cleft rules following in that order.
- (c) The members of the paradigm are comparatively fewer in number because of the semantic fact that Ka₂ MP complements never undergo such transformations as the Nominelisation of the Complement sentences (T -Relat₂) which Factive Na - Complements generally undergo.

(c) The explanation is that Ma2 Interrogative Complements, not being factive, cannot undergo such definitization transformations as T-Relat2 (cf 5.1.2. p. 28.5 ff).

However, the number 9 paradigm present a slightly different picture from what was observed with regard to paradigm 8, as the following exposition shows:

11 (a) [Anyi ghágha agugo yá [0 sa úmuskā a hmuru ndi chi]]

(b) Ányi gbagha agugo ya mà ựm phákā à hà hauru nơi chi (By T = Q-Substitute & Fro Copy - opt)

As is the case with derivation of paradigm 8, the deletion of the abstract pronoun ya has been ignored for reasons which are now obvious; 11 (b) is, however, a well-formed sentence, the necessary phonological rules having applied.

From 11 (b) we derive 11 (c) by a T-rule which we describe here as complement Object \$ Preposing.

Schematically, the rule of Complement Object \$ Preposing is given as follows:

Complement Object & Frecosing (Opt.)

sentences such as 11 (c) as output.

50 : NP - Verb - N - Pa2 S

: Attach 4 as the left sister of 1

Process : Attach 4

SC : 1 + 4 3 #
Nots : It seems that all ma_2 complement verbs permit the
application of this rule to their Object Complement. The
temptation to make it a lexically specified rule has been
resisted for want of evidence in support of such an analysis.
It is the application of the above rule to 11 (b) which produces

11 (c) Es úmijákā à ha hairu ndi ohi, anyi gbagha egugo yas
Whether these children see any thieves, we are still debating
about it.

The following examples illustrate the same fact:

- (d) Anyi tughakwa anya sa2 ha gaduru agadu We are expecting still whether they arrived.
- (e) Eà ha gacuru agadu, anyi tughakwa anya ya.

 Whether they did arrive, we are still expecting to hear.
- (f) Anyi ceghekwe mag udho ga adi we ere still pondering whether peace will be:
- (g) ma udhó gà adí, anyí ceghekwe ya.

 Whether there will be peace, be are still pondering about it.

Although all the foregoing examples have their matrix werbs in the present progressive tense/aspect, it does not mean that this rule of Object Complement 5 Freposing is blocked if the tenses of werbs were other than the progressive present. The following examples are well-formed, regardless of the tense of the mag - complement werbs:

Similarly, all verbs which in the Negative Form take the mag Interrogative Complement are also subject to this rule. In this respect, most Ma - Complement taking verbs will take Mag Interrogative Complements when they are in the Negative form.

As an illustration of this fact, consider the following examples, in each of which the Matrix Verb is in the Negative:

- 12 (a) Madhu amahii mag E kwuhyers ya ekwuhye.

 Person knows not whether One offended him by talking:

 No one knows whether people offended him by their utterences.
 - (b) ma2 E kwúhyère ya' ekwuhyè, madhù thether people offended him by their utterances, ne one amahii.
- 13 (a) Dikha aghōtabala ma₂ 0 mu ya jhès Dikha understand not have whether is it he goes ma₂ 0 mu ya nodi n'ulo. or is it he atay at home:

Dikhe has not understood whether he is to go or remain at home.

- 14 (a) 0 dil onya gears umu ndhom mag

 There is not person (who) told the women whether

 ha go eshi iri mag 0 wu revisi.

 they will cook food or it is rice:

 Nobody told the women whether they should cook native food or rice.
 - (b) We imp ndhom go eshi ifi me D wi rayisi,

 Whether the somen should cook food or rice,

 D dii onys gwers he.

 nobody told them.
- 15 (e) Agwa gi egőshibele mag mái gbüghe gi.

 Manner your reveal not have whether wine is killing you:

 Your behaviour has not revealed whether you are drunk.

- 15 (b) Be mai ghughe gi, ague gi @goshibels ye Shether you are drunk, your behaviour has not revealed it.
- 16 (a) Dde Eksyksp akanii ma anyi abyazuole.
 Writer of book said not whether we have come complete:
 The secretary did not say whether we have all come.
 - (b) Ho2 anyi abyazuble, Ode akaukan akahiji.

 Whether we have all come, the secretary did not say.

These exemples 12 - 16 demonstrate conclusively that any verb in the Negative which takes \mathbb{R}^3_2 Interrogative Complement will permit the optional application of the Complement Object \overline{S} Preparing.

from 11 (c) 11(e) 11 (g) and 15 (b), it will be further observed that the ye abstract pronoun is retained along with the Fatrix Sentence after the proposing of the complement object S. Se have not yet discovered any syntactic explanation for this. The abstract pronoun head may still be present in Surfece Structure even if one goes through the alternative set of T - rules such as the Yé Abstract Fovement rule, Pasudo Cleft and Réletivization (cf 10 (e)-(b), and (d)-(h).

9 (c) Her anyi ghagha agugo ya su se papela a he heuru ndi ohi for a santence such as this, Psaudo Claft must have consisted in a transformational insertion of her in view of the presence in surface form of the ye which should have been moved to initial position and replaced by her through a morphophonemic rule. But this insertion of her is optional in Psaudo-Claft sentences like 9(c) since 9 c(i) without Ya in surface form and, consequently, without a transformationally inserted her is equally grammatical.

9c(i) Hwe anyi ghagha agugo wu me umuaka a ha hauru ndi ehi.

So fer, the structures we have examined involve either single or double questions embedded as an NP. Closely related to double questions in structure is the Either - Or - Construction in Igbo.

We illustrate this point with a few examples:

I want either a knife or a hos.

17 (b) is related to 17 (a) by some form of Conjunction reduction, the details of which are not relevant here. But it is necessary to point out that the reduction rule deletes, maio. will provided that what follows it is an NP, and not a santence. This explains the reason why 18 (a) cannot be so reduced.

know whether he sats mest or fish.

18 (b) Anyi coro ima ma O ji eri mnū

We want to know whether he eats meat

ma O wu ezu
whether it is fish:

De want to know whether he eats weat or fish.

18 (b) cannot be described as a reduced form of 18 (a) because one expression was o wu has merely been substituted for another - ma 0 ii eri.

Whatever the nature of the deletion rule relating 17 (b) to 17 (b).

it must be very restricted in its application.

Observe, however, that in both 17 & 18, the tone pattern of the may - complements is that of an interrogative sentence. The Igbo equivalent of English either - or - construction is in the form of simple Yes/No question in the second disjunct thus:

- 19 (e) i ga anú bia (si) 0 mú wiehlki?

 You will drink beer or is it whisky:

 Will you drink beer or whisky?
 - (b) Goters a mai nkey mai ngood.

 Buy for me oil palm wine or / refis pelm wine
 - (c) Ma 0 eu m, ma 0 eu ya, otu ga año ya.
 Whether it is I whether it is he, one will be in:
 Either he or I will be in.
 - (d) Đgủ ma Q mộ nhiề yế gà mọi thể bya-Đgu or it is wife his must endeavour come: Đgu or his wife must endeavour to come.

It is obvious from the foregoing examples that the Igbo equivelents of English either - or - constructions are Yes/No questions.

Summary

In this section on me interrogistive complementation, we have demonstrated the close relationship between this sub-category of NP — complements and their Na Indicative counterparts the same set of T-rules apply to both types in the same order (of p. 239 at seq.) We have brought out the uniqueness of $8a_2^2$ NP — complements by showing that the following T-rules

- (a) The Q-Substitute and Pronoun Copy
- and (b) The Complement Object S Prepasing are peculiar to them. It has also been pointed out (p.342) that for such verbs as icha aguop 'to doubt, argus', which have inherent complements the application of Pseudo-Eleft to their sagrouplements involves an optional insertion of hus for the simple reason that for some speakers the ys proform remains unconverted to hus in the Pseudo-Eleft transform. Thus, the following 20 (a) and 20 (b) are both grappatical and acceptable in the dislect being described here.
- 20 (a) Hoe anyi ghara agugo au sa C guru oni.
 - (b) Hue anyi chara agusp ya mu ma U miru ohi.

 Thing we argued it is whether he stale :

 That we argued about is whether he stale.

6.3.0 Embedded Kedy Questions

In 7.1, we demonstrated that the two types of Questions in 1gbo - Yes/No and Kedy - Questions derive from two different underlying structures figs. 143. Each of them is subject to a different T- rule: the Q-Sbustitute and Pronoun Copy rule for Yes/No Questions, and Pronoun Copy and Kedy Deletion for the non-periphrastic version of Kedy - Questions. The deep structure specification of Kedy in Kedy - Questions makes the derivation of the periphrastic transform easy and elegant.

In this section, we shall demonstrate that it is the periphrastic transforms of Kedy - Questions which are embedded as MP to complement-taking predicates. It will also be demonstrated that although Kedy - Questions do function as NP's, they have a completely different internal structure from NP - complement such as Na Indicative or Ea Interrogative Complements. For example, with Na and other NP -complements, the NP has been shown to be of the following internal structure (a)

- (a) NP ------- Ya Comp S
 whereas with Kedy NP, the structure is that of a complex nominal such as (b)
- in which N must be co-referential with another N which is directly dominated by the embedded S, as is shown in Fig. 6 where N is co-referential with either N, or $N_{\rm q}$.

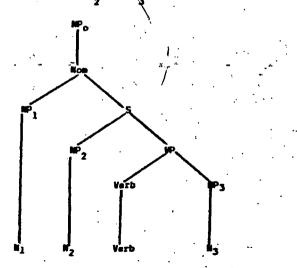


Fig. 5

In other words, while the N in (s) is the only term in its system, the N1 in the above figure is one of an open set.

As we pointed out in 6.1. p.350 , the first T-rule to which the structure underlying Kodu-Guestions is subject is either of the Pre-noun Copy and Kedú Deletion rules(which yields non-periphrastic Kedu-Guestions) or a Eovement rule which is the first step in the generation of the periphrastic transforms. Only the second alternative is relevant here, and we give the rule we follows.

The Interrocative Envement Rule

SD : Kedú NP Verb Interrogative

Process : Attach 4 as the left sister of 2

SC : 14+23#

Note : This rule is blocked where 2 is either of the

interrogatives onye and giri

The Interrogative Movement is the last T-rule to apply to structures such as the above in the derivation of the question type under discussion. As we pointed out earlier on (cf 6.1. p. 352) it moves the interrogatives to a position where they are immediately preceded by Kedu, thus triggering the following obligatory morphophonemic rules which effect morphose changes, thus

SC : (i) 1 $\begin{bmatrix} 2 \\ heri \end{bmatrix}$ 3.4 Condition: 2 = girl

What happens in this particular subset is a reduction of the interrogative generated by the Base. The output of these morphophonemic rules is the input to the Tone rules discussed in 3.5.

Before we discuss these rules any further, let us see their application in the derivation of some sample sentences of the language:

21 Kedu hwe {unu } ga irī n'enyasy?

What (is) thing you will eat in evening?:

What will you eat in the evening?

Chyé byara? I hwuru anyé? Onyé enwùna :

Who came?
Thom did you see?
Let nobody die. Onyeanenna
is an Igho proper name.
Let everybody come out!
other hand, occure whenever

Onyé fûté, onyé fûté: Let everybody come out!
The high-high tone pattern, on the other hand, occurs whenever the lexical item is modified as in

Onys can - A good fellow/person
Onys c - This person
Onys shys a - By customer
Onys na škou užu - a blecksmith

The only observable difference is in terms of the tone pattern which changes from low-high to high-high. Because of this fact, it is possible to analyse items such as once as toneless morphemes whose tone pattern is structurally determined. For example, the low-high tone pattern occurs in Questions and Imperatives, thus:

P. Kedu onys Ogu ghakhmijhere ke agbu sci?
The (is) person Ogu ren meet since time yesterday:
To whose protection has Ogu run since yesterday?

Kêdû otho enyî di thee?

What (is) sonner es are today? : How ere you today!

Kedu ebe uzugbu umuaka a khwojhe?

Bhich is place all children these are trooping:

There are all these children trooping doen to?

25 Kedú { mgbu } ogo byars?

That is time inlaw _case?

then did our in-les come?

The Deep Structure of these sentences is as shown in Fig. 3 p.372.

To this we apply the optional rule of Interrogative Movement thus:

21 (a) Kedu unu ga eri giri n'anyasu (Base)

- (b) Kèdụ giri ưnu ga eri n'anyâsu (By opt. Interrog. Myt)
- (c) Kedu Twe Uni ga erí n'anyasu? (By: oblig. : Morphophonemic.
- (d) Kedú hao (und) ga erí n'anyasuṇ(By oblig. Tone rules.)
- 21 (d) is the same as 21 and is well-formed.

Now let us apply the same set of rules to the following 22 (m)

- 22 (a) Kedy Ogu ghákheujhare onyé ka mgbu éci ? (Base)
 - (b) Kedu onys Ogu gbakheujhere ka agbu eci? (By opt.Interrog.
 - (c) Kêdý ónyế Ogữ ghákhmujhere kế mgbu áci ?(By oblig. Morphophonemic rule)
 - (d) Kedú ónyé Ogú gbákheújhere ké mgbu éci? (By oblig. Tone rules)
 - 22 (d) is well-formed and the same as 22.

- 23 (a) Kedu anyi di ahaa thaa? (Base)
 - (b) Kêdú mhán mhyị dị thán ? (By opt. Interrog Myt.)
 - (c) Kedu otho anyi di thes ? (By oblig. Morphophonemic rule)
 - (d) Kedu otho enyi di thaa? (By . Tone rules)
 23 is the same as 23(d), both are well-formed.
- 24 (a) Kedý vzughu úmůáká a khenjhe n'oléš ?(Base)
 - (b) Kêdự n'ôlés vzugbu ựm vákā à khwojha?(By opt. Inte rog.
 - (c) Kedy ebs uzugbu ymuaka s khamajha ? (By oblig Morpho-
- (d) Kedú ebe úzugbu úmúákā á khwojhe? (By oblig. Tone rules)
 24 (d) is the same as 24, en acceptable Igbo sentence.

 Going through the same process, we will derive 25.

From the foregoing examples, it is obvious that all lexical items
with final low tones in deep structure behave tonally in either of
the following mayer

- (a) They either develop as a rising glide, or
- (b) Have their final low tone raised to a high one whenever they are in subject relation to the verb.

This tonal behaviour is characteristic of relativized clauses, as we have shown in 2.4.2., 3.5 and 3.6.

Observe the stages through which we have derived sentences such as 21-25. We have likened the Interrogative Movement rule to the object NP Movement rule given in 5.1.0 in connection with the nominalisation of factive Na - complements, and we have argued on page off that the three movements rules given here:

- i) Object NP Movement (P.267)
- (ii) Verb Complement Edvament (p. 277) and
- (iii) Interrogative Movement (p. 332

can all be subsumed under one Movement rule since they are subject to the same or similar constraints, namely: they all operate in relativization; each of them moves a constituent from an object to a subject position, and the constituent moved is an object Mp, if the verb involved is a transitive one; a verb complement, if the relevant verb is one which takes an inherent complement as part of its citation, form, or an intransitive verb, as in the following sentence:

O neury aneu - he died where aneu is a verb-complement or what has been traditionally
described as a participle; the same rule moves an interrogative
directly dominated by VP, if the structure in question is a Kedý Question. In other words, we can say with regard to the periphrastic
transforms of Kedý - Questions that when we relativize the underlying
structure in which the item kedý is specified, the result is a wellformed periphrastic kedý question - a relative clause.

The pertinent syntactic facts about Kedu are as follows:

Its immediate constituent is always an NP, and this may be expanded
by an S which is always a relative clause. And the tons patterns
which we have generated in examples 21-25 justify the above sasartion,
being such as one normally associates with Igbo relative clauses.

The decand that any sentential structure immediately after Kady must be relativized entails, therefore, the movement rule described here and the obligatory morphophonemic rules triggered by this movement rule, as well as the Tone rules which generate the tone patterns of all Nominal constructions in the language (cf 3.5 & 3.6 where it is shown that all Igbo MP's - N + N or N Det or NP 5 (relative clauses) - are all subject to the same tone rules).

Furthermore, Kedú ndíl olém

ere unique in Igbo in being the only lexical items, to our knowledge, which can question an NP without the need for any Copula: 26 (a) Kedu gī?

Where you? : Where are you?

- (b) Ndii nna unu?

 Uhere father your (pl): Where is your father?
- (c) Ndii akhwa ware awa?

 Where is the broken woo?

How do you do?

It is for this reason that we suggest that sentences such as 21-25

be represented by the following surface structures Fig. 7 with a zero copula - that is a copula node for which no lexical insertion ever takes place irrespective of the tense of the would-be copula.

(a) Ndil otho i mere? Central Igbo (b) Kedu ka i melu? Onitsha

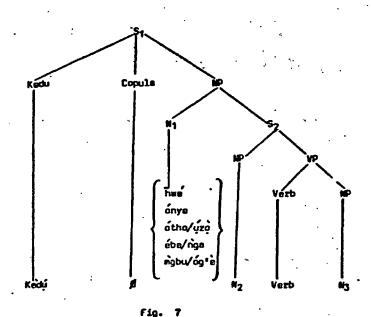
The shortened form of (a) and (b) above for most urban dwellers is simply Kèdú; this is the Igbo equivalent of the French 'Ca va?' or the English 'How'? But for the more conservative speakers who do not want to 'powder their tongue with Ijekoebee' (I jeko èbes the derogatory name for Onitsha dialect) the following forms of greetings persist:

0 méne anáa? (Mbaise - Central Igbo) How is it?
0 mé agáa? (Nsukka) - Northern Igbo) How is it?

Ndas (Qhafis etc -Southern Igbo) How is it?
Ndes (Enugu/Udi - Northern Igbo) How is it?

It is the popularity of Kedú both as greating and marker of Type 2 Questions that determined its choics as the descriptive label for Igbo Equivalents of English WH- Questions.

³ It is this uniqueness of Kedu and notif which has made these popular Igbo greatings:



If this suggestion is accepted, then the problem of what to do with some Kerry questions for which there are no corresponding non-periphrastic versions is resolved. For example, 27-31 have both (e) and (b) versions, but 32 & 33 have only the (b) forms:

77 (a) Dnya mère gi⁴?

(b) Kèdú onya mëra gini⁵?

28 (a) Giri aers ya? Chat happaned to him

29 (a) I mene anaa?

(b) Ndii otho I mere? How do you do?

30 (a) O byers ole mgbu?

Ndii mgbu O byars? Then did he come?

31 (a) Ano hi n'olee?

(b) Kcdu ebs ano hi? There are they?

32 (a) ? ?

(b) Kedu by ano hi? There are they?

34 (b) Shich road leads to the market?

- 33 (a) ? ?
 - (b) Ndii otho E ji akpy užy?

 What manner one uses blacksmith:

 "How does one learn to blacksmith?.

In order to show that sentences such as 27 (a) and (b) are complementary to each other, it is necessary to point out that only the (b) (Kedú) versions can be negated, never the (a) forms:

- 34 (a) ? Giri na čmenii ?
 - (b) Kedu hee no emphimi? What didn't happen?
- 35 (a) 7 นิกงต์ กอ ฮิวงลกัไไกโ
 - (b) Kedý onye na šbyahijní?
 Who did not come?
- 36 (a) · Cgu O mehit giri?
 - (b) Kêdý hoe Ogŷ né ēmēnii? What didn't Ogu do?

⁴ This is the normal question that one puts to a crying child; the full form is something like this:

Onyé mere gi ébee akhma?

Lino made, you cried cry : Uho made you cry?

The deletion which has been made in 27 is always recoverable from the context of situation, that is, it is not a technically recoverable deletion.

^{5 -}ni is a copular suffix in this dialect; its use with the verbs of relativized clauses is determined by the following syntactic facts: If the verb of the Relative clause is an Intransitive one, then a -ni suffix is obligatory as in 34 (b) and 35(b) - where the verbs are inc Intr - to happen, and ibys Intr - to come. Lith such obviously transitive verbs as inc Tr. - to do - (36) and inc to see (37), the -ni suffix is uncalled for.

- 37 (a) . Dou 0 nmunit onie
 - (b) Kedy onye Ogu ma alieunij Eno did Ogu not see?
- 38 (a) 0 byāĥii ole egbu?
 - (b) Kedű egbu né Ü bysňij?

 Bhat time did hm not come?
- 39 (a) · Ibe 0 bihii n' olee?
 - (b) Kedu ebe lbe no sbihii?
- 40 (a) * Anyi aganii ima กพล อก็น์ อกัลด์?
- (b) Kedy other any; has agenii into non ahi?

 How should me not treat the child?

 34 (a) and 35 (a) are merely questionable as opposed to being totally deviant like 36 (a), 37 (a), 38 (a), 39 and 40 (a) because of the fact that the question words are sentence initial. What this shows is that only the periphrastic versions of Type 2 Questions in Igbo can be negated without any resultant deviance.

The negation of the above Kedy questions is another strong syntactic piece of evidence in support of our analysis of this question type as relative clauses. Recall that in 2.4.5 we made it clear that all relative clauses, Negative in this dislact have an obligatory No auxiliary element. The sentences 34 (b), 35(b), 36 (b), 37 (b), 38 (b), 39 (b) and 40 (b) would be deviant without this obligatory no element.

Now consider the following 41 (a) and (b) sentences in which the werb is in the Perfect Forms:

- 41 (a) Unu shiéle n'ôlés n'ôlés?

 You have lived in what place in what place?

 Where and shere have you lived?
- (b) Kedy ebe na ébe unu { birile?. na ébiele? }

Shat are the places in which you have lived?

If we recall that one of the morphophonemic rules of Relativization given in 6.1.0 p.313 ff allows for the optional insertion of the muxiliary no just in case the verb of the clause being relativized happens to be in the Perfect, then we can understand the choice of verb forms in 41 (b) which, being a kedu question, has been shown to contain a relative clause as MP.

SUMMERY

In this section, we have shown the transformational processes necessary for the formation of the periphrastic version (kedy forms) of Question Type 2 - that is the Igbo equivalent of English Mil-Questions. We have made a case for analysing kedy constructions as Kedy 9 - Copula N S - a complex Nominal structure in which the mand S are in the relation of head and qualifier. Both the T-rules involved in generating kedy questions and the tone pattern of the resultant output support the relative clause analysis which we shall hanceforth assume to be proved.

⁶ This high-high tone pattern is due to low-tone assimilation; see 2.2.3 on low-tone essimilation.

In the following 6.3.1, we shall demonstrate that the same type of MP which follows kedu in Kedu - Question are also found with certain complement-taking predicates. In the course of this section, it will be come obvious that, apart from the structural differences between kedu MP's and NP - Complements, there are other formal distinctions between them - namely, each of them is subject to a different set of T-rules.

6.3.1 Kedu - Questions And NP - Complementation

Bresman (1971) has convincingly demonstrated that Mi- is one of the complementizer morphemes of English. This suggests the possibility that equivalent constructions in other languages might be instances of NP - complements. But it happens not to be so in Igbo, a fact which will become more obvious as we examine the following sentences:

- 42 (a) Únye a hwyru n'ana núcha na dí gi Person (whom) I saw on road resembles completely husband you
 - |The person I saw on the road very much resembles your husband.
 - (b) / Hes 15s keuru gbs anya siri akhes
 Thing Ibe said can run aya mater:
 Uhat Ibe said can make one meep.
 - (c) Otho O kpars ages mashiri m.

 Manner he behaved pleased me:

 The way he behaved pleased me.
 - (d) Ebs 0 bi di ya shu sma.

 Place he lives is to his body good:

 Where he lives suits him.

- 42 (a) Og'e O byers so og'e enyest.

 Time he came is time of evening:

 The time he came was in the evening.
- 43 (a) Anya a shi di uthi.

 Barket I am returning is far.

 The market from which I am returning is far:
 - (b) <u>Iri unu righe</u> ga emebi unu afo.

 Food you are eating will spoil you stomach:

 The food which you are eating will upset your stomach.
 - You have ever seen type of wine we are drinking before?
 - (d) Aheubels m anu wa t zutasra m.

 Have not seen I meat the you bought for me:

 I have not seen the meat you bought for me.
- (e) Oken Oqu keuru na see m iee.

 Talk Ogu telked is causing me anger:

 What Ogu said is annoying me.
- 44 (a) Anyi ga sjú ya hws Aboki Ogu wère.

 We shall ask him thing Aboki/Ogu/Nkata did:

 We shall ask him what Aboki/Ogu/Nkata did.
 - (b) Jufuta one byareni n'ishi ututu .

 Find out person (who) came in the head of morning:

 Find out who came early in the morning.
 - c) Anyi amanii angbu ndi oni byere.

 We know not time thiswes came:

 We do not know when the thiswes came.

- You say have not place he died:

 You have not seid where he died.
 - (e) I ge akowaniri anyi otho eq'o ohi

 You (5g.) will explain to us manner money that

 jiri gev n'abali sto got finished in days three:

 You will explain to us how that money got finished within three days.

A look at the underlined constructions shows how closely related in form to the periphrastic version of Kedu - Question they are : Apart from the absence of the item Kedy itself, the structures are identical with the complex NP's which we associate with keduquestions. 42 (a)-(e) are simple sentences, although their MP'S are complex in structure. Their nominal heads are those with which we are already familiar. In 43 (a)-(e), on the other hand, we have equally complex NP's of a similar structure to those in 42, but in this case, the nominal heads are Igbo nouns taken at random - shya, iri, mai, any, and okwo. The verbs involved in both 42 & 43 are not, strictly speaking, complementizable verbs of the Language. But in 44 (a)-(e), the verbs have been carefully chosen because they are complement-taking (complementizable) verbs. Although the formal properties of the underlined complex NP's are similar, if not identical, in 42 and 44, those in 44 (a)-(e) must be associated with kedu questions in the sense that those of 42 (a)-(a) must not, a fact which is reflected by the following 45 (e)-(e) :.

45 (a) Kedy her Abok! Ogu Bers?

What did Aboki etc. do?

- 45 (b) Kèdý onye byžra n'ishi űtűtű? Who came very early in the morning?
 - (c) Kedy og'e ndi ohi byera?

 When did the thieves come?
- (d) Kedý ebe O neúry?
- (a) Kedu otho eq'o ohi jiri gwu n'abali ato?

 How did that money get finished within three days?

 The matrix verbs involved in 44 (a)-(e) are such that they demand an answer to each of the above questions.
- Despite the fact that these matrix verbs are, strictly speeking, complementizable verbs, and the complex NP's express the questions—what, who, where, when and how?—they are not instances of Noun
 Phrase complements: they lack the structure of NP complements,
 having been shown to have a Relative Clause Structure; they do not
 have any transformations in common with NP Complements except
 of course, the Pseudo-Cleft rule which applies to Relative Clauses
 as well as to NP Complements. For example, for each of the sentences of 42-44, there can be only this type of transform, which is the
 output of the Pseudo-Cleft rule:
- 46 (a) Hwe anyi ga aju ya wu hwa Aboki mere.

What we shall ask him is what Aboki did. From sentences such as the above, we can derive other stylistic werients such as 45 (b) and 46(c):

- (b) Hwe Aboki mere wu hwe anyi ga eju ya.
- ·(c) Hwe wy hwe enyi ga sju ya wy hwe Aboki mere.

The derivation of 46 (b) and (c) is tied up with the Subject of Topicalisation or focus, the details of which are not relevent here.

Observe that although these sentences in 42-44 are subject to the optional Pseudo-Cleft rule, the rule in these cases consists of a transformational insertion of hee rather than its derivation from a deep structure pronominal head $\underline{Y_0}$, as in the case of NP Complementation. This, again, is a consequence of the structural differences between the two construction types, NP - Complements and Relative Clauses.

In view of these differences in underlying structure, and the

fact that the two Clause types do not have the essential T-rules in common, except the optional Pseudo-Cleft rule, the complex Nominal

Structures we have been examining here can never qualify as KP -Complements. That seems to be the true picture is this; Bost, if not all. Tobo verbs can take a complex Nominal as Subject or Object. and these include the sub-category of verbs involved in Nown Phrase Complementation. It is reasonably accurate to make this assertion with regard to Complex Noun Phrases in Igbo: Any complex Noun Phrase in Igbo which is not an NP - Sentential complement is a Relative Clause. Since most, if not all verbs will take Relative Clauses as subject or object while comparatively fewer will take NP - Complements, it follows that the ability to take RP - Complements rather than Relativa Clauses is the appropriate criterion for sub-categorising some varbs in the language. Although the matrix varbs involved in 44 (a)-(a) are marked for Ma2 Interrogative Complements, they may also take any other type of Complex NP, that is, relative clauses, for example. In these examples 44 (a)-(e) the verbs, though complementizable, are to be seen as taking relative clauses as Subject or Object. Thus, 44 (a)-(e) and other sentences like them are the Igbo equivalent of English TH- Questions, yet in structure they are unequivocally . relative clauses, as has been demonstrated throughout this and the foregoing sections.

For example, the following sentences 47 (s) and (b) are embiguous as between the Ingerrogative and the mon-Interrogative meanings, but their internal structure is the same - that of a Nominal and a qualifying clause, in other words, a relative clause:

47 (a) Amahii m hee O riri.

Know not I thing he ate:

I do not know what he ate.

(b) 0 guanii anyi nwe eze kwuru. He did not tell us what the king said.

These two sontences are ambiguous between the following readings:

(i) okpa her 0 riri
the type of thing he ate

(ii) 0 riri giri
he ate what : what did he eat?

The first reading (i) entails the meaning : 0 riri fime - 'he ate
something', whereas the second (ii) does not. The same explanation

But the above type of explanation is possible only for those: questions which have both the non-periphrastic as well as the periphrestic forms such as 48 (a) and (b) :

- 48 (e) Giri mere?
 - (b) Kedy has mereni? what happened?

can be given for the ambiguity of 47 (b).

But for those Type 2 questions which do not have the 47 (e) version, the above type of analysis does not hold. This type of ambiguity in Igbo cannot be disambiguated by a resort to two underlying structures, such as is the case in English. In Igbo it seems that this type of ambiguity is traceable to the different matrix verbs involved, and not nocessarily to different underlying structures because the ambiguity openes to exist if a different matrix werb is introduced:

- 48 (c) Acoro m iri Nee 0 riri

 Bant I to set the thing which he ate:

 I want to sat the same thing that he ets.
 - (d) Ame m hee 0 keezu.

 Know I thing he said: I know what he said.
 - (a) Njoku zhiri a { hea class 0 zutara class 1 anu }

 Njoku ahowed se { the plot of land } he bought.

the worbs involved express specific meanings. At times, the same worth which in the affirmative expresses an unambiguous meaning will in the Regative express an ambiguous meaning; this observation is true of worbs like ima "to know" and many other Na - Complement - taking worbs which are also Ka2 Interrogative worbs in the Negative. Therefore the ambiguity with Complex Noun Phrases in Igbo such as we have been discussing here is due to the lexical worbs involved, and not necessarily to different underlying structures, except in so far as choice of a particular lexical item is part of underlying intention.

Kedu Questions are not instances of NF - Complementer their internal structure as relativized clauses argues very much against such an analysis, and they do not share any essential transformations with NP - Complements, rather the T-rules they undergo are limited to Pasudo-Cleft - rules which are rules shared by both NP - Complements and Relative Clauses. It is because they are relative clauses that kedu questions do not discriminate as to their matrix predicates. In other words, Kedu Guestions do not sub-cotegories verbs as NP -

However, when these Kedú Questions function as Subject of Object of Complementizable predicates, an ambiguity arises which is traceable not to different underlying structures, but to the lexical werb involved.

6. 4 Otho - Head MF's And Emotive Fredicates

Of the complex Noun fhrases in New-Guestions, we would like to consider in more detail those with Otho as their head. These othoheaded NF's are generally found as Subject to Emotive predict'rs, or Object of Epistecic verbs, that is, verbs of Learning, Teaching and Knowing and their compounds. We have made an earlier reference to this Subject in 6.1.3 under NF Complementation and Contive Predicates. We repeat here some of the examples already cited there :

- 49 (a) Otho E ji akro moto ragburu^B onee ye n°ahy .

 tanner one uses drive care is very difficult;

 Driving a car is very difficult.
 - (b) Otho A ga {eshi} ruchas oru o wu mkpa d.

 Bay one will use work finish work this is problem mys
 How to finish this piece of work is my problem.
 - (c) Nois a na amu otho E ji akao moto Uife my is learning may one uses drive car:

 By wife is learning to drive (a car).
 - (d) 0 ga mache otho E ji em nom.

 He/she now knows manner one employs make soaps

 He / she now knows how to make soap.

You talk kill self your in talk: You are very talkative.

gbagburu ones ya na egbé:

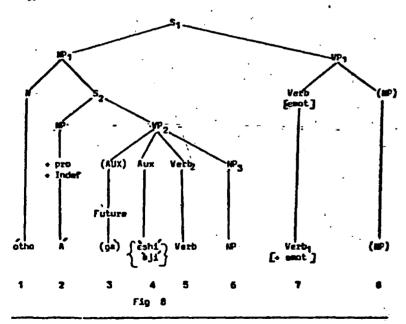
49 (a)-(d) have the transform; 50 (a)-(d):

- 50 (a) jūmų moto ragburu onma yā mahų. Driving a car is a very difficult thing.
- (c) Neis m na smy ikup moto.

 Ey wife is learning to drive (m cer).
- (d) 0 ga macha {nca end } 9

 He/she now knows how to make soap.

To do not claim to know the exact details about the underlying structure of othe-headed NF's, but the following Fig. 8 is m suggestion which suffices for the meantims for our purposes here.



⁹ The verb ise and its compound have this unique characteristic of allowing a choice in the order of their Infinitive Object Complement as 50 (d) shows. Thus we have

Equ as [gou siri]

But with other printenic verbs, there is no such choice.

miri : He is learning to swim.

coad:

In the above Fig. 8, the otho-headed NP is in subject relation to the main work which must be an Emotive work, hence the feature apecification [+ emot]. If the MP is in object relation to the work, such a work must be an Epistenic work in order for one to derive sentences such as 50 (a-d) from 49 (a-d). In addition to the above conditions, there is also the tense constraint on the applicability of the relevant transformations which yield 50 (a-d). As can be seen from the internal structure of VP2, there must be either of the two works shi and ji which we have described as auxiliaries. The future marker ga is optional as the parentheses show. Only these conditions - the appropriate category of work, the Habitual or Future Aspect of Verb2 - can guarantee the graematicality of the output of the relevant T-rule here.

The relevant T-rules here are:

(i) Either (a) Indefinite Agent Deletion (opt.)

Or (b) Definite Agent Deletion under identity (opt.)

(ii) Infinitivization (oblig.)
The rules are schematically represented as follows:

Agent Deletion Rule 1

SD :

Process : Delete 2 and 1

Condition : 2 must be indefinite, or definite and co-referential mith 8

Agent Deletion Rule 2 (ppt.)

SD: MP Verb N NP (Future) Aux Verb NP

[ptho] | fshi
] ji]

1 2 3 4 5 6 7 8

Process: Delete 4 and 3

Condition: (a) 4 must be indefinite, or definite and coreferential with 1

. (b) 2 must be an Epistemic predicate.

SC : 12 # # (5) 6 7 B

These two essentially similar rules are needed in order to account for what happens when the two sub-categories of Emotive and Epistemic predicates are involved in other-headed (Manner) NP constructions.

Only one or the other of these two rules need apply to the deep structure shown in Fig. 8.

Agent Deletion, like Equi-NP Deletion, is optional, but once it has applied, it is obligatorily followed by Infinitivization. In this way, Infinitivization here as in Subjunctive Complementation (of \$.2.0) is contingent on a provious application of a rule of co-referential NP deletion, or of Agent Deletion under the condition of indefiniteness. This situation must be distinguished from what happens in \$.2.0. (where conditional clauses function as subject of Emotive verbs) where Infinitivization is both optional and not dependent on a co-referential NP deletion. Observe, also, that here as in \$.2.0 and \$.2.0, the same tence constraint on the verbs of the matrix and embedded sentences is operational, namely that their tense be future or present, and never past.

We have ergued in justification of the transformational relation which we have established between such constructions and their infinitival counterparts in .2.0. Sentences such as 50 (e) & (b) are ambiguous; for example, 50 (a) has the following possible interpretations:

- (a) Now to drive is difficult. (to learn).
- (b) Driving (the process of driving) is difficult.

 This ambiguity explains the infinitivization takes place thether the relevant verb is simple present or future. Although the rule of Infinitivization in Igbo has been given in 6.2.0 p. 350, it needs repeating here because of the peculiar structure of the Verb Phrase in this type of construction:

SD: (future) Aux Verb NP Verb NP | NP Verb NP [-Emot]

Process : (a) Altach the Infinitive marker I- as the left sister

of 3, and delete its inflectional suffix, if any.

(b) Delete 1 and 2

Condition : Obligatory

SC : ##1+3456

Let us now see the application of these rules in the derivation of 50 (s)-(d):

- 51 Nois m na amu otho E ji akmo moto (Base form)
 - (a) Nuie a na amu ji akuo moto (By Indef. Agent Del. opt.)
- (b) Nais a na and lkep mata (By Infinit. oblig.)

 By applying the rules of phonology (Vowel Harmony rules) to 51 (b),

 we derive the surface form 51 (c)
- 51 (c) Naie a na amu ikao moto.

 This is exectly the same mentance as 50 (a).
- 52 Otho E ji akwo moto ragburu onwe ya na ehu.(Base Fora
 - (a) 31 akwo moto ragburu onws ya na mhu. (By Indef. Agent
 Del. opt.)
 - (b) Ikwp moto ragburu onwe ye na shu, (By Infinitiw. oblig.)
- (c) [kup moto regbury ones ya na shu. (By Phon. rules oblig.)
 57 (c) an acceptable sentence is the same as 50 (b).

Thus, these two examples are sufficient to illustrate the fact that only two stages are needed for the derivation of any of 50 (a) \leftarrow (d) from 49 (a) \leftarrow (d).

From these illustrations, it is necessary to emphasize the following fact about infinitivization in Igbos

Only the main warb carries the infinitive marker, the harmonising I- prefix. This means that all dangling auxiliary verbs become deleted as a consequence of infinitivization.

Next, let us turn our attention to those conditions which must be met in order for Agent deletion to take place in Igbo. We shall test these conditions in turn. First, the categories of verbs in the matrix sentence must be either Emotive or Verbs of Learning and Knowing and Teaching, and the verb which undergoes Infinitivization must be future or Habitual in Aspect.

Consider the following sentences:

- 53 (a) Anyi ahmuna otho oke ji stu onu Be have seen how rat makes hole : We have seen how a rat makes its hole
- 54 (a) Anyi aheuna otho E ji egeu ji
 Ua have seen how one digs up yees.
 We have seen how yees are dug up.
- 53 (b) Anyi ahayna oka itu gny
- 54 (b) * Anyi ahuuna iguu ji

53 (b) is deviant because of the violation of the following two conditions: the noun oke - 'rat' in the otho-NP in 53 (e) is definite, but without a corresponding co-referential NP in the matrix sentence.

Secondly the matrix werb inw - to see - is neither an emotive nor an empirical werb.

54 (b), on the other hand, is deviant because of the violation of only the second of the above two conditions. Observe that the Tense/Aspect condition is set in both 53 and 54.

Now examine 55 - 56:

- 55 (e) D na akowa otho E ji agba mgba. He is explaining how to wrestle.
 - (b) Q na akowa igba woba
- 56 (s) 0 gighs otho E ji eme nahi egbe.

 He is reading how one metes gun powder.
 - (b) 0 g'ệgha ime nahi egbe.
- 55 (b) and 56 (b) are daviant for the same reason that the two matrix verbs involved ikowa and $ig^*\bar{y}$ are neither Emotive verbs nor verbs of learning, teaching or knowing.

Now consider the following 57 - 59 in which every other condition has been met except that of Tense/Aspect constraints

- 57 (e) Otho E jîri gbúo yā tựrụ n'anya.

 How one killed him was a marvel.

 How they killed him was a marvel.
 - (b) 1 lgbu ya turu n'anya-
 - (c) Ogbugbu E gburu ya turu n'anya.

 How/the fact that they killed him was a merval.
- 58 (a) Otho E jiri gbushie hi ni ile di acc.

 How they killed them all is good.

 How/the fact that they killed all of them is good.
 - (b) · igbū ni niize di 🛶.
- (c) Ogbugbu E goughtel hi mile di men.
 How/the fact that they mere all killed is good.

- 59 (a) Otho E Jiri ghálaba anyi dì agaù.

 How one ran away/escapad from wa is terrible.

 How they escaped from us is terrible.
 - (b) Igbalaba anyi di egeu .
 - (c) Egbelebe A gbelebara anyi di egmu.

 The fact that/how they escaped from us is terrible.

In 57-59, the Tense/Aspect of the verb in the othor-readed P's is past rather than Habitual or Future. The violation of this Tense Constraint means that the rules of Agent Deletion and Subsequent:

Infinitivization are blocked, hence the deviance of 57 (b), 58 (b) and 59 (b). Observe that 57 (c) 58 (c) and 59 (c), on the other hand, are all well-formed; each of these has a lexically derived nominal head qualified by a Relative Clause whose subject MP remains the Deep Structure Subject - the Indefinite Houn Agent. The presence of this Indefinite promoun Subject in the transforms 57 (c) 58 (c) and 59 (c) is a convincing evidence that no rule of Agent Deletion ever applied.

The Infinitive form in Igho is always compatible with future meaning, wery rarely, if ever, associated with past meaning except in the case of fective nominals of the same Phonemic shape but which can always be shown to derive from an underlying Factive Na complement, (cf. 5.1.2 p.279 ff).

It is thus clear that the violation of any of the conditions being discussed here:— the requirement that the deleted nominal be indefinite, that the matrix verbs be either Emotive Predicates or Verbs of Learning, Teeching and Knowing, and, thirdly, that tense expressed in the complex other-headed NP be Habitual or Future, never Past — the violation of any of these results in a devient output.

So far we have talked of Indefinite Agent deletion as if the deleted agent nominal can only be indefinite.

It can also be definite and must be deleted only under identity with another nominal in the matrix sentence.

As swidence of this, consider the following examples:

- 60 (a) Điho Keokhō ga eji ruchaa pru p eviskpa m -How Kwokho is going complete this job is sy problem
 - (b) {?} Nwokhō irūcha gru g wú micha m .
- 61 (a) Otho Ggu ga eshi { nyaa goakhee} orya ke e rara ahu

 How Ogu is going to recover from thisi illness is

 difficult.
 - (b) {?} ogu {inya igbakhe} orya ke e rare ahu.
- 62 (a) Otho Ugo ga eshi lody n'udho tugha é ecice

 How Ugo is going to return safely is causing me some

 thought.
- (b) $\binom{7}{6}$ Ugo ilody n'udhó tygha á ecice.

The use of the above signs of question mark and astarisk both in braces shows that the relevant sentence is either devient or at least questionable. Observe that in 60 (b), 61 (b) and 62(b), the agent deletion rule has not applied. If these sentences of 60 (b), 61 (b) and 62 (b) are at least of questionable acceptability, 63 (b), 64 (b) and 65 (b) are perfectly well-formed for reasons which are soon to become obvious:

- 63 (a) $\left\{ \begin{array}{c} 0 \text{tho} \\ 0 \text{ zo} \end{array} \right\}$ any ga eshi gbudhe ya au uka any ga way/manner we shall fell it is our problem.
 - (b) Igbu one ya w w was sny;

 [Felling] it is our problem.

64 (a) Otho Ikhe ga eshi keyo ygeo onya odo cagha Hom Ikhe is going to pay debt of person another is -Ikhe ecics.

thinking Ikhe thought: How Ikhe is going to settle another person's debt is causing him some concern.

- (b) [km] ygwq onye gdq ceghe Ikhe ecice.
 Paying another person's debt is causing Ikhe some snxiety.
- 65 (a) Otho m shi emeri has ghaynes a How I am to overcome thing of temptation this rughm a ure is losing me sleep: How I shall overcome this temptation is causing me loss of sleep.
 - (b) imeri has onsumed a cughe a ura .

 (How) to overcome this temptation is causing as loss of sleep.

Observe that in each of 63-65, there are two co-referential nominals, and that the first of these two - that in the embedded sentence in the other-headed NP - has been deleted under identity with the matrix one before infinitivization could take place. This fact explains the grammaticality of 63 (b), 64 (b) and 65 (b) as well as the ungrammaticality of 60 (b), 61 (b) and 62 (b). Note that the substitution of a co-referential MP in 60 (e), for instance, results in a grammatical 60 (c) thus:

For Wwokho to complete this job is his problem.

From the two exemples in 60 (c), observe that it is Agent Deletion under identity which yields the first one, but a pronominalisation of the matrix, co-referential Np that produces the second sentence.

The deletion of the embedded nominal under identity with a definite nominal in the matrix sentence has been allowed for in our rule of Agent deletion on page 407-8. The same set of conditions that guarantee the well-forcedness of the output of Indefinite Agent deletion are also necessary for the grammaticality of the output of Agent Deletion under identity. Each of these deletions must be followed by Infinitivization.

In this final section of this chapter, we have examined in some detail the syntactic behaviour of othe-headed NP's when the matrix verbs involved in the construction are either Emotive verbs or the Epistemic verbs of Learning, Teaching and Knowing. It has been demonstrated that given the right conditions, one can derive the infinitival transforms of othe-headed NP's via one of the following optional rules which must be followed by Infinitivizations

- (s) Indefinite Agent Delation or
- (b) Co-referential Agent Deletion

 It has also been demonstrated conclusively that infinitivization heremeans the infinitivization of the main verb of this rather multiple
 verb end an obligatory deletion of any other verb which does not been
 the infinitive marker the harmonising I.

What is being stressed here is not that only Emotive Predicates and the Verbs of Learning, Teaching and Knowing may take othe-headed NP's as subject or object, but that only they guarantee that the output of the above T-rules are well-formed, given that other necessary conditions have been set. Verbs from all subcategories of NP - complement-tering predicates can take other-headed NP's as either subject or object, but they are not subject to the optional application of Infinitivization as Emotive and Epistemic predicates are

With the subcategory of Factive predicates, otho-headed NP constructions have a factive interpretation, as the following examples show.

- 66 (a) Otho O Jiri newo twru madhu nille nº mnya-Manner he used die struck people all in eye The(manner) of his death surprised everybody.
- 66 (a) may be transformed into 66 (b)
 - (b) Quant Q namery tury madhy nile namery Death which had died surprised everybody:

 The fact that 7 he died surprised everybody.

 How
- 67 (a) Otho O jiri mevoo once ya wutere m.

 { The fact that } he disgrace himself pained me
 - (b) Emerg O mergro once ye witere a fine fact that he disgraced himself pained me.

The above pairs of centences are semantically equivalent, if not syntactically related, and more often than not, it is the factive interpretation rather than the manner one that is entailed, though there seems to be very little to choose between the two possible interpretations. In 5.1.2, p.285, we referred to the preference of speakers of this dislect to express a factive meaning by means of relative clauses rather than by a Ma-complement. That preference also extends to other-headed NP's, which have been shown to be relative clauses. As can be seen from the few examples above, what one derives from other-headed NP's with other than Emotive or Epistemic predicates in not an infinitive transform, but another relative clause. For these other verbs Agent Delation and subsequent Infinitivization rules are blocked.

The above facts suggest that of all the complex nominal constructions which have been shown to be identical in structure with Kedu -Questions, Otho-headed NP's are unique: they have the structure of relative clauses, and, expectedly, are subject to such I-rules as are essociated with other members of their group, for example, hee-, ebeonyo-, and agbu- headed nominal constructions. But unlike these. otho-headed KP's are subject to the rules of Agent Deletion followed by obligatory Infinitivization, an aspect of their syntactic behaviour which strongly suggests that they may also be analysed as NP-complements as well as Relative clauses. But when one realises that this possibility. of two-fold analysis is restricted to certain categories of verbs, namely Emotive and Epistemic verbs, then the Conclusion becomes inescapable that this uniqueness is due, not to othe-headed MP's, but to the matrix verbs involved. It is thus understandable why only Emotive and Epistemic Werbs permit the infinitivization of otho-headed NP, eventhough most. if not all, verbs do take them as subject or object MP.

6.5 Ba - Complement Verbe

The following is a sample list of verbs which take Ma2 Interrogative Complements, they ell share the following core of features:

to examine, reason out, figure out
ile enys
its expect
ins othi to make out

In addition to the above, most Na - Complement Verbs take To Interrogative Complements whenever such verbs are in the Negative or Imperative form.

Chapter 7

Si Imperative Complementation.

7.0.0 Introduction

This chapter is very short, being concerned with the smallest of the categories of NP-Complements in Igbo - the Imperative Complement which is introduced by the complementizer morphome si.

The status of this complementizer has been fully discussed in chapter 4 (4.1.5) where it has been made clear that this specialised function of si is due to the fact that it is a form of the verb isi to say' which can introduce the actual words of the speaker as if in quotes.

In this chapter, we high-light the similarities and differences between the Imperative complements on the one hand, and No Declarative Complements on the other. We do this because both complement types draw from the same sub-category of verbs for their matrix predicates: specifically only werbs of saying, which are also Ma-complement - taking verbs, can function in the matrix sentences of si Imperative complements. One of these differences lies in the fact that it is only in si Imperative complements that we have a rule of Complementizer Deletion which is not triggered either by Equi-RP Deletion, as in Subjunctive Complementation (cf 8.2.0), or by Agent Delation under Conditions of indefiniteness, as in Interrogative complementation, (cf 6.448647). The conditions governing this optional delation of si complementizer are given in 7.2.0. Secondly, from the account presented here, it will be observed that the particular sequence of rules that one decides to apply determines whether the rule of co-referential NP Deletion is optional or obligatory. For exemple, the following sequence of rule applications,

- (1) Ya Dalation
- (ii) Comp. Deletion

- (iii) Consecutive co-referential NP Deletion (oblig.). creates an output to which the rule of co-referential NP Deletion is obligatory (cf 7.2.0. p.392), while the alternative sequence,
 - 1) Ya Bovement
 - ii) Pseude-cleft
 - iii) Relativization (oblic.)

produces a derived structure which does not meet the structural description for obligatory co-referential NP Deletion because the two co-referential NP's are no longer consecutive, but separated by the copula wu, (ci 7.2.0. p.392). This situation is unique to si Imperative complementation.

finally, in terms of the range of phenomena examined in this chapter, the analysis of Imperatives in Igbo is of a wider scope than an analysis of aquivalent constructions in English and, expectedly different. We recognise the following constructions which are used in giving commands:

- (a) Imperatives, and
- (b) Peremptory Declaratives

But we are only concerned with Imperatives, and for that matter with only a sub-category of Imperatives because only this sub-category has imperative verb-forms in both the Affirmative and Negative. The other sub-category with the modal, qa, (Ge - Imperative) sithough an imperative construction of a kind, behaves like Peremptory Declaratives in the Negative and under NP-complementation. These categories of construction - Imperatives and Peremptory Declaratives are discussed in the following section 7.1.0.

7.1.0 Igbo Imperatives and the Range of Phenomena Examined

Since we are going to be concerned in the rest of this chapter with Imperatives, but not with Peremptory Declaratives, we shall start with the latter so as to dispose of them and concentrate on the relevant subject.

Consider the following as examples of what we describe as Peremotory Declaratives; (the term is due to Stockwell at al (1973: 649 et seq)).

- 1(a) I nuffits ogau o goud. (vo inu cl.1)

 You drink must medicine this now: You must drink this
 medicine now.
- (b) Anyi jhéfute shya thás. (vb íjhé cl.3) We go must market today: We must go to market today.
- (c) { Ûgu ; zêfûta } ele víç à gouo. (vo iza cl.2)

 Oqu/he must sweep this floor now.

Observe from 1(a-c) that the verb-form involved in this type of construction is fixed: it is always the verb-stem plus the following compound suffix -futa. Because this suffix is on low-tones, the preceding verb-stem is uniformly high regardless of the class of werb involved. The compound suffix -futa corresponds to the English modal 'must' which occurs only with Perceptory Declaratives, but never with Imperatives. We employ the term, Perceptory Declaratives, to denote a construction type in Igbo with the type of werb-form described here. This construction type is used to perform the speech act of giving commands and issuing orders. In other words, the illocutionary force of Perceptory Declaratives is an order or command. As we shall demonstrate very shortly, the verb-forms involved in 1(a-c) are not imperative verb-forms as we know them in Igbo.

Having pointed out the distinctive characteristic of the above construction typs, let us now examine the next category - Imperatives.

This term is used here in the sense that 3 L Austin (1962) and 3 R Searle (1969) use it.

7.1.1 Imperatives

We also use the above term to denote a construction type with the following sub-members - Imperatives 1 and 2.

Imperative 1 - or Go - Imperatives

This sub-category of Imparative-Constructions is exemplified in the following:

- 2(a) Nwatakiri ga aruware one na nna ishi.

 Child will obey mother and father:

 A child should obey his fether and mother.
- (b) Onya o wula ga eme had a gwara ya.

 Person who it be will do thing one told him:

 Everybody should/will do what they are told.
- (c) 0 ga eniriri ezhi tupu ya agawa akwykwo.

 Ha must sweep compound before he goes school:

 He must (unfeilingly) sweep the compound before going to school.

Examples 2(s-c) have the modal, ga, which has been glossed as 'will' or 'should'. In addition, 2(c) has the emphatic verb suffix -riri which with ga has been translated as 'must unfailingly'.

Imperative 1 can be likened to Peremptory Declaratives in Igbo since both of them have the illocutionary force of command, and each of them has a fixed verb-form. But it should be ramembered that the modal ga is associated only with Imperative constructions and never with Peremptory Declaratives in the English language, and that this situation is similar to what obtains in Igbo.

However, the similarity between the two construction types Peremptory Declaratives and Ga-Imperative is further brought out by the
following examples where verbs are in the Negatives

3(e) Neotakíri agañii èrúsere nne na nna ishi-A child should not obey his mother and fether

- 3(b) tinya ç sula aganii em ne e geare ya Everybody should not do what they are told.
 - (c) g ganii eniriri ezhi tupu ya egawa akwykwo.

 He must not sweep the compound before going to school.
- 4(a) j gáhiji inülýta comu o obuo.

 You must not drink this medicine nom.
- (b) Anyi aganii ijhafuta ahya thaa-
- (c) Úgủ áganii izafûta ala việ ở giáo.

 Ogu must not sweep this floor now.

To a consider the Regetive version of 2(a-c), while 4(a-c) represent those of 3(a-c). Observe that the negation of both Poremptory Declaratives and Ga-Imperative entails the use of the same modal qd and the negative suffix -hII/qhI. This suffix which is associated only with the Indicative mood has been given and discussed in 2.3.4. It is distinct from the negative imperative suffix -IA = nA also illustrated in the same section. The fact that these two construction: types:are essentially the same in the Negative means that they need to be distinguished only in the Affirmative.

Now/contrast the verb-forms of both Peremptory Declaratives and Ca-imperative, on the one hand, with those of the following examples of imperative 2.

² With verbs of Tone classes 2 & 3, there is the choice of either the high or low tone unsuffixed imperative according to speaker's ettitudes. The high-tone form is generally abrupt and used only in momenta of anger or disgust, then it may be followed, after a pause, by a word of abuse thus fu - once only Cot out - requel This high-tone form of werb* classes 2 & 3 imperative never take 8 suffix in our dislect.

5(d) Ga/Ga s go (vb cl.3)

So far, we have not discovered any class I werb whose imperative form is mithout a suffix in constructions such as S(b-d). However, the unsuffixed imperative form of this group of verbs is possible, provided there is a following lexical item or phrese, as in S(e).

- 5(e) Ri ngwangwa: Eat quickly/8e quick with your asting.
- 6(a) Ras ubhe: Est some pears (African pears) (vb. cl.1)
- (b) Zas sma: Sweep the road.
- (c) Gaa ozhi : Run the errand. (= = 3
- (d) Hyochamacham one mile.

 Dust complete well clean seats all: Dust all the seats throroughly clean.

(The werb in 6(d) above is a compound one with the following constituents:

ihyo - to dust (cl. 3) icha - to be cleen (* 1) ima - to be nest, clean (* 1)

-Compound werbs are as yet unclassified).

Negative Imperative

The above examples have their corresponding negative varaions with a distinctive suffix -1A, which has also been illustrated in 2.3.4.

- 7(e) Árele ubhe : Don't est pesre
- (b) Azele _ ema _ _ Don't sweep the street/road.
- (c) Agale ozhi s Don't run any errand
- (d) Ahyperchals one miles Do not dust all the seats thoroughly class 7(a-d) are the negative counterparts of 5(a-d); to these may be added the following 8(a) & (b) in which the phonesic shape of the Mag.

Imperative suffix -1A is phonologically determined: $\ \ .$

- B(e) Anume majs Dan't drink (wine).
- (b) Amuna iZu ohis Don't learn to steal.

 From 7 & 8, it will be observed that the negative imperative

form of the werb is morphologically distinct from other magative suffixes such as -hII/ghl. In other words, the Indicative negative suffix -hII/ghl co-occurs with the verbs of Paramptory Declaratives and Imperative 1, while Imperative 2 werbs take only the -LA suffix whose tone is determined by that of its werb stem.

Admittacly, the affirmative imperative form of Igbo werbs, such as we have given in examples 5 & 6, is not distinct from, say, the Subjunctive or conditional form of the same verb, as the following 9 & 10 shows

- 9(a) Acoro w ke Ogu <u>rie</u> hee.

 Want I that Ogu est thing: I want Ogu
 to est something.
- . (b) Acoro m ka Ogu <u>zaá</u> mobe.

 1 mant Ogu to seeep the parlour.
- (c) Ugu ne agháií ka únu gás n'og'é.

 Ogu is trying that you go in time: Ogu
 is struggling to see that you go in time.
- 10(a) Di ya rie hee, ya abyasa.

 If husband her este thing, she starte comings If her husband ests, she will start coming.
- (b) Ci zèe uic, obi adi a mesIf you sweep the house, heart will be to se goods
 If you_sweep the house, I shall be happy.
- (c) Ye' gam, my anodi n'ulo.

 If he/she goze, I stay at home:

Examples 9(e-c) are subjunctive constructions, while those of 1D(e-c) are Conditional ones. The relevant warbs have been underlined. A look at them reveals that, spart from gen in 9(c) and 10(c), the other warbs are neither morphologically nor tonelly distinct from their

imperative form in 5 & 6. This might . Apt one into an analysis which recognises a general Subjunctive Mood for Igbo verbs, which may be used either to give orders or make requests. This is the situation in English and other Indo-European languages where the imperative and the Subjunctive are not as clear-cut as they are, say, in Latin, where the following distinct forms axist side by side:

Veni (Imperative) come (sc.)

Venite " come (pl.) plural
and

Venias (Subjunctiva) you (sg.) may come.

Veniatis you (pl.) * *

But the existence of the distinct Neg. Imperative suffix -1A argues against such an analysis.

Moreover, there are syntactic distinctions, too, which support the recognition of a separate Imperative mood of the verb. We have seen, for example, that Tone class 3 verbs, $\underline{\hat{1}98}$ for example, have two distinct tone patterns -

gas for the Imperative and

gas " " Subjunctive & Conditional.

Although verbs of this Tone class could be seen as exceptions to the rule, their tonal distinction in the two types of constructions being considered here - Imperatives on the one hand, and the Subjunctive and Conditionals on the other, is to be recognised. Secondly, Peremptory Declaratives and Ga-Imperative constructions behave differently from Imperative 2 under NP embedding: Shereas Imperative 2 can be introduced only by si complementizer - the sole marker of Imperative complements.

Peremptory Declaratives as well as Imperative 1 may be introduced by either Na or si complementizer. In the case of Peremptory Declaratives, Imperative NP-embedding results in a change of pronoun subjects from the non-emphatic to the emphatic forms, thus:

(b)
$$0 \text{ kars si}$$

$$(c) \text{ for said that } \begin{cases} a a \\ b \\ b \end{cases}$$

$$\begin{cases} a a \\ b \end{cases}$$

$$\begin{cases} a a \\ b \\ b \end{cases}$$

$$\begin{cases} a a \\ b \end{cases}$$

$$\begin{cases}$$

But with $\frac{Na}{2}$ as the complementizer, the above change in pronoun forms does not obtain, as 11(d) shows:

(d) 0 karm na m jhēfuta shya: He said that I must go to market.

The fact that Peremptory Declaratives and Ca-Imporatives can be introduced by either si or Na means that they belong to the other categories of complements, rather than to si Imperative complement.

Thirdly, although in the Affirmative, Subjunctive and Conditional verbforms are not distinct from the Imperative one, in the Negative there is a sharp distinction, as the following examples reveals

- 12(a) 0 kwuru si anyi anwune

 He said that we die not: He wished us well/

 He wished us a long life.
 - (b) 0 genrs ha shele:

 He told them go nots He saked them not to go.
 - (c) 0 sī madhū mona n'efu .

 He said person stay not idle: He said that no one should stay idle.

In the above 12(a-c), the Imperative verb-forms have been underlined; the only permissible complementizer is at and the matrix verbs are those of saying. But in the following 13(a-b), the underlined verb is a periphrestic verb construction involving the verb ighs and a following nominal complements; furthermore, the verbs involved in the superordinate sentences are not verbs of saying:

- 13(a) Ácoro a lea anyi ghaza (na) iga ahya.

 Want I that we seemid (from) going markets

 I do not want us too go to mandatt.
- (b) Eneighe a continuo and anyi ghere inc leath;
 an doing I quickly that we evoid going late:
 I am hurryling so that we may much be late.

If the verb-forms in Subjunctive and Inditional constructions were identical to those in Imperative constructions, then one would expect their negative equivalents to the also may distinct. In other words, one would expect the negative imperative verb-forms in 12(a-c) to have the privilege of occurrence in Duratructions such as 13(a-b). That this is not the case accounts for the unwiance of the following 13(c-d): imperative verb-forms do not function in subjunctive clauses in Igbo.

13(c) • Anyi coro km anyi aneuna.

Se want timet we dis not

(d) • Anyi kwadzogła (si) anyi sheuna

ere-preparing

Just as verbs in a Subjunctive on Conditional construction have their appropriate negatives, so do imperative ward-forms, a fact which argues for their analysis as distinct were-forms, despite their apparent identity in the Affirmative. Howeverman, we shall assume that the recognition of an Imperative dissistant of the worb in Igbo is well-motivated. _ _ ______

see not

So far, the exemples we have given consist mainly of second person imperatives. But there is much more to Equa Imperative Constructions than those examples show. For exemple, unlike English, Igbo has imperatives for all the three parames that singular and plural thus:

14(a) B game gboot (verb ips cl.3)

go start now? a Showld I start going now!

- 14(b) Gawa gbuo's Start going now.
- (c) . Ya' gawa gbud: Let him start going now
- 15(a) a nộc dưu? Am to be quiet? (vb. íno cl.2)
- · (b) Noo duu. Be quiet.
- (c) Ya noo duu. Let him be quiet.
- (d) Anyi " "? Are we to be quiet
- (e) Unu " duu. You, people, be quiet
- (f): Ha' " " Lat them be quiet
- 16(a) M rie neë? (vb irl cl.1)

 I est thing? Am I to est something?
 - (b) Ris hes Est something
 - (c) Ya' rie hwe Let him eat something
 - (d) Anyi " "? Are we to eat something?
 - (e) Unit " You, people, est something
 - (f) Ha' " Let them est something.

Paradigm with the verb in the Negative

- 17(a) Hý akwūla okwu? Am I not to talk.
 - (b) Ékwüle okwu. Do not telk.
- (c) Ya ekwüls okwu. Let him not talk.
- (d) Anyi " ? Are se not to talk?
- (e) Unu a okwu. You, people, do not talk
- (f) He " Let them not talk.

Those examples 14-17 are enough to show that the Imperative form of the worb is not limited to the second person, but extends to all the three persons both singular and plural. The only difference is that with the second person as the subject of the Imperative construction,

an optional deletion of the subject is permissible, whereas with any other than the second person, the deletion of the subject is blocked.

Therefore, the observation by Chorsky (1955), Klima (1964),

Kiparsky (1963) Katz and Postal (1964), Lees (1964) and Hasegams (1965),

that Imperatives have you as underlying subject, true, though it is for English, does not hold for the Igbo language.

Observe also from 14-17 that the first person Imporative construction is in the form of Yes/Wo question. The full form of the first person Imporative is as follows:

Is it I/ws go out: Am I/Are we to go out?

The question marker here, o mu, is optionally deletable, and if it is deleted, the bound morpheme, m (hitherto called the inseparable pronoun) must become the free (or separable) form, mu, whenever a negative imperative verb is involved, hence the form we have in 17(a). With the first person as subject, therefore, an Imperative construction in Igbo has the illocutionary force of request. Stockwell et al. (1973) distinguish between Imporatives and Requests in English, the latter, they associate with Yes/No - Questions. In Igbo, the situation is alightly different: the language has a syntactic construction called the Imporative; which can be used to perform the speech act of making a request or giving commands. If a request, rather than an order, is intended, the language employs, in addition, such items as bikhō or kes 'please', as in the following exampless

18(c) Biktō etule.

Please, go out not: Please, don't go out.

5 Stockwell et. al. (1973: 639 et seq.)

18(d) Bikhō, nem m, mee has m gears gi.

Please my child, do what I told you.

It seems that Igbo is unique in having the imperative in all the persons, with the first person imperative being a sort of request.

Having argued the case for the existence of an imperative division of the worb, and demonstrated the form that an imperative construction can take in Igbo, let us now add that an interest in this chapter lies with Imperative 2 - that is those construction types with imperative werb-forms, and which can be embedded only as at MP-complements. The process of at Imperative complementation is discussed in the following section 7.2.0.

7.2.0 Si Imperative Complementation

Let us consider the paradigms 19-22 and how each of the members is derived:

The priest told you to follow his words, and not his deads.

- (b) Feda gesta unu soto okeu ya, esone ceuné ya.
- (c) Hed fada gwara und my si und Soró okwu yā eBons Daumé- yā: What the priest told you is to follow his words and not his desds.

⁴ We also recognise a Category of Subjunctive constructions which may be described as Let-Imperatives. These begin with the complementizer ka which we associate with $k\hat{x}\hat{a}$, 'please' (cf 10. 2.0.)
The following are illustrative examples:

Ke' envi lee: May we go: Lat's go. Ke' o'rie hee: May he eat: Let him est

Kd ha keuo hee he byerst Let them say what they came for. Our enalysis of this type of construction has been sketched in. 4.1.4:197.

- 19(d) Hisé fada geara únu sự unu soró okeu yã, ésone causé yā. (same as (c)).
- (e) Hwe fada gwara unu wý šoró okwu 1. ésone omumé yā. (same as (c)).
- 20(a) Ó sĩ Ogủ byauấ ngwañgwa. Ha told Ogu (to) stert coming quickly.
 - (b) Hwe o si Ogu wú ya byawa ngwangwa.

 What he told Ogu is that he should start coming quickly

 Hwe o si Ogu wú byawa ngwangwa.

 What he told Ogu is to start coming quickly.
- 21(a) O' tiri mkpu si Oti na neie ya mezhie.

 He shouted that Oti should be reconciled with his wife.
 - (b) Hwe o tiri mkpu yā ey si Oti na neie What he shouted about is that Oti should be ys mezhie.

reconciled with his wife.

- 22(a) Dnya nkuzhi škauola si onya çaula mechia onu.

 The teacher has said that everybody should be quiet.
 - (b) Hee onye nkuzhi {keurule na ekeurule wu si onye qeula mechie onu:

 That the teacher has said is that everybody should be quiet.
- (c) Her once natural [keurule] so once osule methic property of take each of these sets of paradigms in turn beginning with paradigm 19, the Deep structure of which is represented by Fig. 1 with non-essential details omitted.

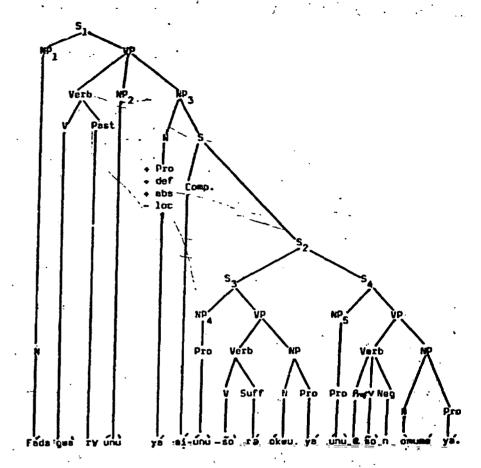


Fig. 1

Let us assume that co-ordinate Reduction and Affix Hopping have applied to Fig. 1 to produce the following 23.

23 Fada gwara ບົກນີ ya si unu Sozó ókwu ya

23 meets the structural description for either Abstract ya . Deletion or Abstract ya Movement: we apply the former first, and the output is 23(a)

23(a) fada Gwara unu si unu soro okeu yay esone omume ya. (By T. Abstract Ya Del). With the necessary phonological rules applied, 23(a) becomes the grammatical sentence 23(b), which is the same as 19(a).

23(b) Fada guara unu si unu soro olosu ya,

Now 23(b) can undergo the rule of optional complementizer deletion; since this is a new rule, we give it schematically as follows:

Condition:

- (a) 3 = 5, and 3 is the indirect object.
- (b) obligatory iff 2 is the worb isi, otherwise optional.

X is a variable.

SC: 123 Ø 5 6 7 8.

The output of this Deletion rule applying optionally here is 23(c), which now becomes the input to the rule of consecutive MP Deletion, the rule is obligatory:

The Rule of Consecutive Co-referential NP Deletion - (oblig.)

Process: Delete 4
Condition: 3 = 4

5Ct 123 # 5 6 7

The output of this rule is 23(d) in which the necessary phonological rules have been applied.

23(d) Féda geàre únử šoró okeu yā ešone oeusé yā.

This 23(d) is the same on 19(b).

Observe that this ruls which deletes the subject of the embedded si Imperative Complement is obligatory here because the two co-referential nouns follow each other consecutively. Note also that the sequence of the rules so far applied in the derivation of 19(a) and (b) is as follows:

- (1) Ya' Deletion (oblig.)
- (2) Comp. " (opt./oblig according to the matrix werb of p.437ff).
- for as long as this sequence is followed, so long with the deletion of the complementizer produce a derived structure in which the two NPs the matrix object and the [mbedded subject are consecutive.

 Now let us see how the adoption of an alternative sequence determines the obligatoriness or optionality of this NP deletion.

 This time, we start with the elternative rule the Ya movement rule on the same structure 23 repeated here for ease of references

 23. Fada gware unu ya si unu soro okau ya esone omume ya.

 23(e) Ya fada gware unu si unu soro okau ya esone omume ya.

 (By opt. Ya Mut.)
 - (f) Has feda gwere vinu wú si unu šoro okwu ya esone omuma ya. (By oblig. Pasudo Cleft)
 - (g) Hwe fada gwara unu wy si unu soro okwu ya esono omuwe ya. (By Vacuous Relat₁)
 - (h) Hwe fade quare und my ei und Eoró okwu yā ežone omumé yā. (by Phonological rules) 23(h) is a grammatical sentance and is the same as 19(c).

23(h) may now undergo the optional rule of comp. deletion since its matrix werb is not isi, and the output of the application

of this rule is 23(1)

บกม

fada gwara

23(1) is the same as 19(d).

hwe

23(j)

+Pro +def

It is observable from 23(i) that the two co-referential MP's - the object of the Matrix sentence, and the subject of the Embedded

sentence, the two unu's - are no longer consecutive because the rule of Pseudo Cleft has brought about the interposition of wu between them. This means that none of the conditions for the obligatory application of the deletion of the embadded subject is mat. However, the deletion may still apply optionally to yield 23(j).

gwara น์กน์ พน์ ธือro okwu ya ซรือก่อ hwe fada 23(j) is the same sentence as 19(e).

It is thus obvious that an obligatory or optional application of coreferential NP deletion depends on the derivational history of the structure in question, that is on the sequence of rules that yields

the input to this deletion rule. Recall the conditions for an obligatory deletion of the complementizer si: one of them is that the matrix werb has got to be

the verb isi itself, the stem of which is si the complementizer. In the derivation of the paradigm 20(a)-(d), this point is illustrated

thus: si Ogu ya si Ogu byawa ngwangwa (Base Form) +Pro +def Ogu sị Ogu byswa ngwangwa. (By oblig. Abstr. Yé Del.) (e) si Ogu Ogu byswa ngwangwa. (By oblig. comp. Del.)

Dqu byama ngmañgma (By oblig. Consec. Coref. MP Del.) (c) ši Ogu bysma ngmangma (By oblig. Ys - 8 Conv.) (d)

24(e) 0 sī Ogu byswa ngwangwa (By oblig. Phon. rules)

24(a) is the same sentence as 20(a).

It seems that we had assumed that the deletion of the comp. si is obligatory with isi as the matrix verb without proving it. How let us see the consequences of its non-deletion: 24(b) is the output of

the abstract Ya Deletion. Suppose that the deletion of si does not take place, then we will be left with 24(b) as the input to the

Phonological rule of Ya - 0 conversion, and this will in turn yield 24(f) Ogu si Ogu byawa ngwangwa. 24(f)

24(f) is decidedly deviant.

One may argue that 24(f) meets the SD for Co-referential

NP deletion which is optional in a case such as 24(f), above. Even

the application of this rule does not redoem 24(f) because the output of such a rule would be 24(g) which still remains deviants sī Ogu si 24(g)

It follows, therefore, that the verb isi must be marked in the Lexicon

for obligatory Complementizer deletion in si Imperative complementation. . If the complementizer is obligatorily deleted whenever isi is the matrix predicate, one will expect this characteristic to be maintained eve in Pseudo-Cleft transforms. This is, in fact, what happens, as the

starts with Ya movement and subsequent Pseudo-Cleft formation rule. The Base Form remains 24, which we repeat for the sake of conveniences

following derivations show following the alternative Rule order which

byews nowanges (Base) ei Ogu si Ogu byawa ngwangwa (By opt. Ym Mwt)

Dgu (1)(by Oblig. Pseudo-Cleft)

Dou bysus ngusñque have ye (by Vacguous Relat,) Suppose we were to apply the Phonological rules which convert Ya to 0 to 24(j), the output would be 24(k) which is derient with the comp. bi es yet undeleted:

24(k) ei Cou au ei Cou byese (by oblig. Ys - 0 conversion)

Even if the second occurrence of Ogu becomes pronominalised to give (1), the sentence would still remain deviant.

byana nowaniowa. (by Pronominalisation)

But the obligatory dolation of the comp si renders the resultant output grammatical.

(By oblig. Comp. Del)

Observe that 24(m) is the same sentence as 20(b), and is wellformed. This fact means that the deletion of the subject of the sebedded santance under identity with the matrix object is no longer obligatory but optional. If this optional deletion rule is applied to (m), the output is (n), which is the same as 20(c). susyd um upo is

nowañowa.

From the derivational history of paradigm 20 given here, it is conclusive that the matrix verb isi is mutually exclusive with the complementizer wi. The reason is felrly obvious: since the verb and the complementizer have a lot of characteristics in common (of their feature specifications in the Lexicon) to have the two of them in one and the same sentence is definitely repetitious end is not done by native speakers of this dislact. We have argued in chapter 5 that Igho function words, complementizers inclusive, ere verb-forms, ei is e typical example of such a verb functioning as subordinating conjunction.

One of the conditions which determine Comp. deletion is that there must be two co-referential NP's, the first of which must be the indirect object. In the peredigms 21 & 22, this condition is not met. Let us ses how this fect interfacts with the comp. deletion rule. The Base Form of the sentences of 21 is given in 25:

Yế từ skọu ya sị Oti na (Base form)

- Ya tiri mkpu si Oti na neis ya mezhim (By oblig. Ya Del.) Ď tiri mkpu si Oti na neje ya mezhie (By oblig. Ya-O conversion).
- 25(b) is the same as 21(a), we needed only two stages to derive it from the Base structure 25.

Observe that the matrix object - "#kpu" shout - is not co-referential with the Embedded subject - Oti, and the verb in the matrix sentance is 'iti expu' 'to raise a shout', but not isi, 'to say'. Therefore none of the conditions for comp. Calation is make. The application of this rule can only produce an ungrammatical sentence auch se 25(c).

- 25(c) +0 tiri mkpu Oti na muie ve mezhie. gut the Pagudo-Cleft transforms of 25(b) are not subject to the some constraint, as the following derivational history shows; the Base form is still 25.
- 25(d) Nee ya tiri mkpu ya mu si Oti na neie ya mezhio (By opt. Pseudo-Claft)
 - (e) had ye tiri akpu ye my si Oti na naid ya mezhio. (By Vectious Relat,).

This underlying form shows a Base coordination of MP's. We have not given any attention to Coordination in Içbo, which is irrelevant to Complementation. But a systematic investigation of the process of coordination in Igbo is very lively to recognise more than one mathod. Undowntedly, sows conjoined to a can be shown to derive from higher order coordinates of senturing in Page of C. ture, as it is bown a confidency demonstrated by Kouthoudra (1971e) But such an analysis will raise the question as to what to do with Igbo sentences such sea ะน์- na ya kwūrut

wont together: I went with/eccompanied him. For wentwhere like this, there can be no Base-coordinated sentential source

25(f) hee o tiri mkpu ya mu ai Oti na nele ya mozhie. (By oblig. Ya-O conversion - Phon rule

(g) heé o tiri mkpu yā eū Oti na neie yá mězhie.

(By optional comp. Del)

25(f) and (g) are the same as 21(b) and (c) respectively, and they are all well-formed.

Observe that the Pseudo-Cleft rule in the above example entails a transformationally inserted her contrary to our usual practice of deriving it from the underlying abstract proform ya which is still present in those surface structures 25(f) and (g). In this regard, recall also that in 6.2. (p.342f), the same phonomenon was observed with the verp 'icha aguge' - to doubt. Each of these two verbs have what we describe as inherent complement, that is two verbs must be cited as 'iti akpu' to shout, 'igha aguge' - to argue, debete in order for them to make any sonse. The Language is full of verbs like these.

For this category of verbs, Pseudo-Clefting entails a transformationally inserted hee - thing, and the retention in surface structure of the Deep structure abstract ye as the second object of the verb. A few more

26(m) Ezhiri m yé ozhi si ya zütére m enu.

Sent I to him messaga saying ha buy for me mest:

I sent word to him to buy some mest for me.

- 26(b) hee m zhîrî ye ozhî yê wû (si) ym thing I sent him word about it is that he zûtera m enu..

 buy for me meat: That I sent word to him about was to buy me some meat.
- niile fushia (c) isu savino all come out Das 150 people ก'น้ำน้ำเน O'ama ci. to the square in the decline of days A proclamation has been made that everybody must assemble et the (villege) square in the evening.
- (d) her A ware iou ya wû (si) rachû niîle fûshie n'ame n'uhuru ci: What has been proclaimed is that everybody must assemble at the square in the evening.

Secondly, observe that the comp. si is optionally deletable in the Pseudo-Cleft transforms, even though its deletion in the non-Cleft ones - 21(s) 25(b), 26(s) and (c) is blocked. It seems a fairly general rule that, except for those sentences whose matrix varb is isi, all Pseudo-Cleft transforms of si-Imperative-Complements, do permit the optional application of the rule of Comp. Deletion. This generalisation way even apply to 5i Complements whose matrix varb is isi. For us, however, the deletion of the comp. is obligatory provided the varb of the matrix sentence is isi itself.

The last of the paredigms, paredigm 22, are, in many respects, like those of 21, and their derivational history is similar to that of 21:

- 27 Únya nkuzhi ekwuole ya si onya čeúle mechie on (Basa Form)
- (a) Únya nkuzhi ékuupla ai onya paula aachia enu (By oblig. abatr. Ye del.)

⁶ We prefer to talk in terms of lat, 2nd,3rd objects in Igbo rather than in terms of Direct and Indirect Objects for the simple reason that there is no other formal way of distinguishing between these except in terms of their structural position. Consider the following Igbo sentences, for example:

⁽¹⁾ Cou nyere m enu.

Ogu gave me meat: Ogu gave some meat to me.

⁽ii) ປົດນີ້ zutara m ya anu -ປົດນ bought for ma (from)him meet.

Ogu bought some meat for me from him.

From these examples, we see that the order is: Indirect obj., the
Ablative - from KP, and Direct object; In Case Grammar: the Dative,
the Ablative and the object cases - in that order.

- 27(b) Onye nkuzhi ekwuole si onya omula mecnie oni (By Phon. rules)
 - 27(b) is the same as 22(a), and is well-formed.
 - (c) Ya onye nkuzhi ekwuole ai onye bejia mechia onu-(By opt. Abst. Ya Mvt.).
 - (d) hee onye nkuzhi ekwuole wu si onye owile sechie onu.
 (By oblig. Pasudo Cleft)
 - (e) hee onye nkuzhi { na ckeuole } eu si onye geúla keŭrule } en si onye geúla machie onu. (By ohlig. Relat.)
 - (f) hee onye nkuzhi { na ckwuole } eu si onya owule kwurule } eu si onya owule | mechie onu. (By oblig. Phon rules).

27(f) is an acceptable Igbo sentence, and is the same as 22(b).

- (g) hee onys nkuzhi { na okwuole } wu onys osula mechis gnu. (By opt. Comp. Del.).
- 27(g) is the output of the optional application of compadeletion to a Pseudo-Cleft transform, it is the same as the grammatical sentence 22(c).

From the foregoing exposition, the need for the following rules in Imperative Complementation has been established; the order is not extrinsic.

Either (1) Ye Deletion

OR - " (2) Ye Hovement

If 1, then (3) co-referential NP Deletion - (oblig. if

consecutive, otherwise

opt.)

- If 2, then (4) Pseudo-Cleft (oblig.)
 - (5) Relativization (Relat,) (obliq.)

- (6) Comp. Deletion (oblig. if si is mairix werb, otherwise
- (?) Pronominalisation of embedded subject MP (apt).

 7.3.0 Comparison & Contrast

Of these rules, the only unfamiliar once are 3, 6 & 7.

Rule 7 is a general rule of language independent of KP-complementation, while Rule 3 which deletes the embedded Subject MP when immediately preceded by a co-referential matrix object MP is unique to this category of MP complement.

But Rule 6 - the comp. Deletion rule - needs a bit more comment. for this is the first time that we have come ecross such a rule in lobo MP-complementation. It is reasonably accurate to say that comp. Deletion is relavant only to si Imperative complementation in the Language. Butside this category of NP complements, there is very little, if any, evidence for it. This situation is due to the fact that in the dialect being described here, it is very rare to hear a reported statement without an introductory word linking the main to the subordinate clause - the complementizer morpheme. In the generality of cases the complementizer most often heard is the all-purpose si which, as her been made clear throughout chapter 4, can and is very often used in addition to or in place of the Na Declarative, the ma, Interrogative, and ma, and ke Purpose (Subjunctive), with it always praceding any of these. But when it functions in its special capacity as the sole marker of Imperative complements, it is deletable under the conditions stated in this chapter.

Concluding Summary

After considering all the possible constructions in Igbo which may, plausibly, contend for analysis as Imporatives, this chapter focuses on those imperative constructions whose varies are in the imperative form. These are the imperative constructions which can only be embedded as ai - complements. The other categories of constructions - Peremptory Declarative and Ga - Importaives have been shown to differ syntactically from Imperatives and have not been analysed any further.

The process of si Imparative complementation has brought to light the following fects:

- (a) the choice of one sequence of rules creates a derived output atructure in which the deletion of the embedded subject NP is obligatory, when it immediately follows and is co-referential with the matrix object NP, while the alternative sequence yields another derived atructure in which the same rule is optional because the co-referential NP's are not consecutive.
- (b) the deletion of the comp. si is obligatory, if the metrix verb is is;
- (c) optional in all Pseudo-Cleft transforms, except those with isi in the matrix santence;
- (d) optional in all structures with a matrix indirect object MP (the addressed) which is co-referential with the embedded subject MP:
- (a) blocked, if condition (d) is not met.

Chepter 🔮

The Subjunctive (Ka/ma) Complements.

8.0.0 Introduction

Ea use the label, Subjunctive, to describe a construction type in Igbo that is neither Indicative, nor Interrogative, nor Imperative, (cf 4.1.4). Its markers are k2 and m2, and when embedded as an NP-Complement 1, (always in object position after a category of verbs to be fully discussed in this chapter) its propositional content is invariably a wish, some effort or determination the realisation of which is open. This construction type has been variously described: Green and Igme(1963) refer to it as the Subject-Verb Form, Conditional; Swift, Aheghotu and Ugorji (1962) described it as the Hortative, I a Bard (1936) does not mention it at all. That watters for our purpose is that all these labels reflect an attempt to characterise a clause type in which:

- (a) all pronoun subjects are on high tones;
- (b) all worb stems are high for classes 1 4 3 worbs, and low for class 2 worbs;
- (c) there is a general presence of a harmonizing vowel suffix which is invertably on a high tone.
- (d) the future marker ca does not occur, except with a handful of verbs which take no instead of ka ox ma (cf \$.2.0:#22), examples 16-22), though the time expressed by the verb of this complement is always future in relation to that expressed by the main clause verb.

Ka is also the marker of the following lgbo greatings:

Ka ci foo (Unitsha) Goodnight

(Ka) ci boo (Umerri)

Ka anyi boo ci (Central Igbo) Goodnight.

Although these greetings appear like independent sentences, they can be shown to be complements to some unexpressed verbs of wishing, thus making the Subjunctive Flood in Igho a dependent rather than an independent mood, (cf 4.1.4). However, the recomplementizer is restricted to Purpose/Causal Clauses, and never functions in this type of greating.

In this chapter, we shall show that the applicability of Equi-NP Deletion (Equi) to this category of predicates is a consequence of the semantic characteristics of the class of predicates involved in this complement type. The verbs are examined in datail and the constraints on the applicability of Equi discussed in \$.2.0.

As this is the last chapter on the mechanics of complementation in Igbo, we shall bring together in \$.3.0 all the known acuress of the so-called Igbo infinitives and provide some syntactic tests for differentiating between infinitives and numinals, though they have the same phonological shape.

I prefix + CV-stem.

In §.4.0, we give the two types of complements in Igbo based on I their structural position or relation with the main clause werb, and then go on to examine Rosenbaum's distinction between NP and VP complements which seems to depend crucially on the structural position of the complements. The NP-VP distinction is rejected as being untenable in the analysis of Igbo complement constructions.

8.1.0 Ke/me, Complement Constructions

The following are examples of ka/ma, subjunctive complements in 1gbos

l(a) Ogu coro ku umungbogho gbaera anyi nkwa.

Ogu wants that young girls dance for us dance

n'Orie

on Orie market day: Ogu wants the young girls to stage a dance

for us on Orie market day.

(b) Anyi coro ka onye omula kpunye aghu ya obhu me want that everybody hold goats his in rope.

De want everybody to get his goats tethered.

2(a) Acoro m {ke m dawa ya anya lidawa }

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Want I that I merely match him: I want to do no more than match him.

3(a) Ogbuéhi byera (khworó ma) ya gara m mirī.

Oghuehi came wenting/intending that he go for me water Ochuehi came to fetch some water for me.

(b) Ogbúðhi byara { ka } ya gara K mirī.

(same as 3a)

(c) Ogbúzhí byara igera m mirí (szme as 3a)

4(a) Îba gara shya ka ya zuta eghu sa (b)

The went to market in order to buy the gost.

5(a) Ndhu kporo a (oku) (ka) ya chaere a skpe.

(b) Ndhu kparo m oku ichere m ekpe.

Ndhu called me call so that he beg me begs

Ndhu called me so as to plead with me.

Let us start by discussing sentences 1-2 first. As can be observed, the matrix verb in these two examples is the werb ico 'to eart, wish'. Each of these two sentences derives from an underlying structure such as is represented in Fig.1.

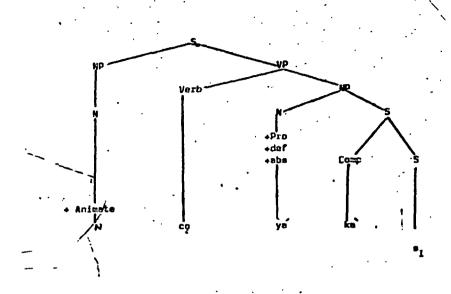


Fig.1

The above structure is like that of any other object MP complement, except for the fact that the main clause subject must be an animate one, that is, some creature capable of purposeful action, and the marker of the complement is ke and the matrix predicate is a verb of wish.

Example 1(s) has the following stylistic verients - 6(s & b).

In view of the fact that we have given the derivational history of such sentences in 5.1.1, we need not repeat the information here, but essume the application of the relevant rules to the generation of 6(s) & (b) from the underlying Fig.1.

- 6(a) Nee Ogu cara mu ke umumagbagha gbaere mnyi What Ogu wants is for the young girls to dence nkwa na Ories for us on Orie market day.
- (b) Ka unuaghogho ghaera any nkwa ne Orie
 wu hwe Ogu coro: That the young girls should
 dance for us on Drie market day is what Ogu wants.

The T-rules relevant to the derivation of 6(a & b) -

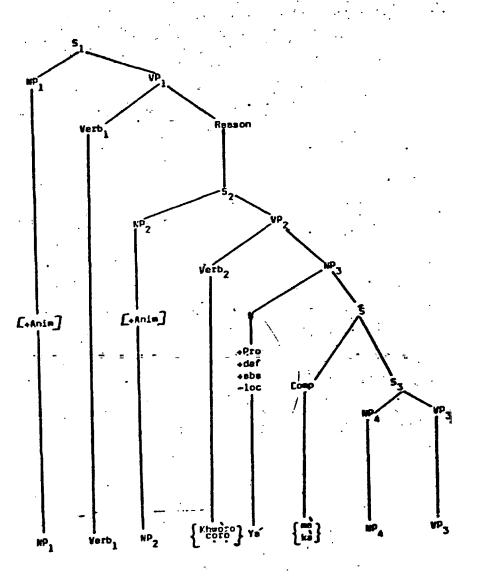
- (1) Ya Movement (opt.),
- (ii) Pseudo-Eleft (oblig.),
- (iii) Relat₁ = and
- (iv) Reverse Claft (opt.)

ere among the rules which all categories of NP complements have in common. The T-rule unique to subjunctive complementation - Equi- 2 Delation - which yields sentonces such as 2(b), 3(c) and 4(b) receives full treatment in \$.2.0.

Now let us consider examples 3-5. These sentences are more complax in structure than those of 1-2, as fig.2 shows. They are instances of Igbo Purpose Construction, the equivalent of English 'so that/in order that' Constructions. It will be observed that the aurface, main clause verbs of these complements are non-complement-taking verbs, such as:

- 7(e) byara from ibya to come
- (b) gara from iga to go
- (c) kporo from ikpo to call

and a host of other verbs which can be used to express a purposive action. Although none of these is complement—teking, nevertheless they seem, at least superficially, to introduce the subjunctive complement. In order to discover what syntactic evidence there is in support of the analysis of 3-5 as NP-complements, let us exemine Fig. 2, the structure underlying such constructions.



KP4, then Equi-NP Deletion is optionally applicable

In order to derive sentences such as 3-5 from the above figure 2. the following stages are necessary: First, NP, is deleted under identity with RP,, thus yielding an output which has the tone pattern of Igbo Marrative constructions whose second and subsequent verb-forms. like those of Imperative, have their suffixes on a high tone. The output of such a co-referential NP deletion is 3(a) whose structure is shown in Fig.3. 3(a) is repeated here for ease of reference.

The fact that Khuðró has the tomo pattern of a second or subsequent verb in a Narrative construction provides a reason for an alternative analysis of Igho Purpose Constructions. By this analysis, the structure underlying Purpose constructions in Igbo could be given as a co-ordinate. rather than the subordinate structure given in Fig 2. That Green and lows (1963) refer to as the Marrative construction is a form of co-ordination by means of verb serialisation, and this construction does not involve any conjunction whatsoever. Thus, from a deep structure such

byera] [Ogbúðní kheðró [Teè COobueni. pie?]], one can show that co-ordinate deletions yield 3(s), and that the resultant asymmetry between the first conjunct and the subsequent ones is a consequence of such deletions as well as the Optative verb deletion. We have not adopted this method because it involves other principles such as Tree-pruning conventions (cf Ross 1966). But it is not unknown in language for subordination to result from underlying co-ordinate structures. For exemplo, transformational grammarisms have around that the appropriate doep structure of relative clauses is co-ordinate rather than subordinate.

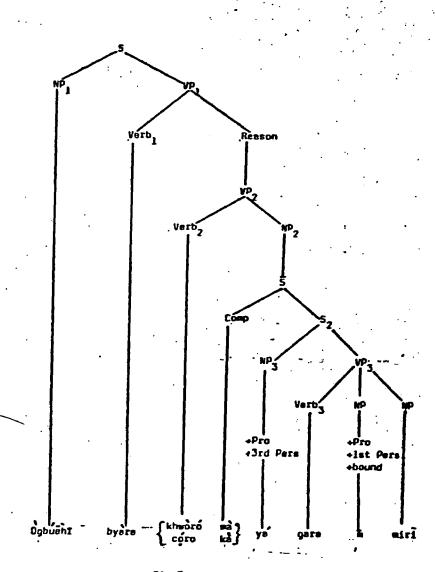
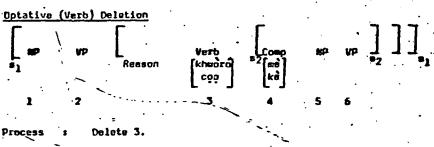


Fig 3.

Now 3s meets the structural description for the optional rule of Optative (Verb) Deletion.



Condition: 3 must be preceded and followed by Sta.

The output of the shove rule is 3(b) which is represented by Fig.4.

Observe that it is only after Optative Deletion that the two complementizers ke and me are in free variation; if this rule is not applied, then the co-occurrence restriction will continue to obtain that is, ico can only take ke, whereas ikhwo co-occurs with me in the dialect being described here. In other words, these two items can be used interchangeably only in a perfect structure which is the output of Optative Deletion. We shall dwall more on the syntactic similarities and differences between these two optative verbs in §.1.1. What must be emphasized here is that Optative deletion accounts for the surface form of sentences such as 3-5 and a host of similar Purpose constructions in which non-complement-taking predicates appear to introduce subjunctive.

³ Rev. Iges observes (personal communication) that in Ohuhu, the above two complementizers ka & ma are in free variation regardless of which of the two optatives is present in atructure. Thus, the co-occurrence restrictions between the two optatives on the one hand, and the complementizers on the other, do not obtain in Ohuhu.

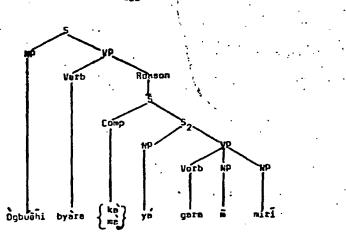


Fig 4.

Note that the applicability of Optotive worb Deletion is strictly determined by the structural position of the predicates. Consider the following as further evidence in support of our claim.

- 8(a) Ogu byara khworo as ye hwu a.
- (b) " " ma ya hwu m. (by Optative Deletion)

 Ogu came in order to see me.
- 9(a) Ogu kharo wa ya hay a bya

Dgu came to see me.

9(b) Dou me ye how a bys. (by Optative Deletion)

8(b) from which khaoro has been deleted is grammatical because this optative is the verb of the sentence imaediately dominated by Reason mode; it is not structure-initial. But 9(b), the output of the same deletion rule is ill-formed because it is the first verb of the construction, it is structure-initial. from 8(a) and 9(b), it is obvious that the Reason clause can be preposed to structure-initial position, and when this is done, the application of optative Verb Deletion is thereby blocked. Thus, the condition for the optional deletion of the optative ico or ikhoo is supported.

The foregoing exposition also demonstrates that Iobo Purpose clauses are subjunctive complements to a two-member class of optatives. and not, as examples 3-5 and others like them suggest from their surface form, to such non-complementizable predicates as those niven in 7. Thus, Robin Lakoff's analysis (1968: 202) is supported by facts from Igbo. But there is this minor difference: while she argues that the structure underlying English Purpose clauses includes an sbatract verb of wanting and the abstract verb cause, which takes a sentential subject and a sentential object, we have demonstrated that the situation is a bit different in Igbo only in this sense that the verbs in question are not abstract in Robin Lakoff's sense. They are real and existing warte of the Igbo language which are only optionally deleted from surface etructures given a definite structural position which has been clearly defined above. While the Deep structure for Inbo Purpose expressions in given as in Fig 2, Lakoff gives the deep structure underlying the following English santances

Although 8(a) &4(b) are, to all intents end purposes, synonymous, there are some observable formal differences between them. for example, it is khucro in 8(a), but khucro in 9(b) - that is, two contresting tone patterns - low-high and low-low respectively. The explanation for this comes from general and well-known facts of Igbo Narrative Constructions in which the verb of the second and subsequent sentences, have their suffixes, if any, always on a high tone, regardless of the preceding tone of its verb-stem. In Harratives, only the first verb bears the tense or aspect marker, while subsequent verbs copy their time from that of this first verb. This fect accounts for the absence of any suffix on bye in 9(a). The verb ikhwo is, horover, an exception, since it does not take the open worel suffix. For this reason, it becomes a bit difficult to distinguish the -rV Time suffix from the -rV non-Time with Ikhoo. But the tone pattern of the verb-form provides some clust if the tone of -re is in contrast with that of its vorb-stam, then, such is the non-Time -rV if it is the same as that of the verb-stem, it is the inflectional -FV Time.

⁵ Robin Lakoff's concept of abstract verbs is that they have no phonetic shape; they are "verbs with schape; they are "verbs with schape; and syntactic properties similar to those found in real verbs of the same semantic class, but with no phonological form" (Robin Lakoff 1968: 160ff).

The child fears the dark in order to get attention from his mether.

Thus, where in surface structure English and other Indo-European languages employ such function words ass

so that	English
in order that/to	•
ut _ and the Subjunctive	Latin
ne .	
pour que	French
ne que	

Igbo employs definite predicates that take subjunctive complements.

Let us now examine the syntactic and semantic similarities and differences between these two verbs.

8.1.1. The Optatives - ico and ikhwo

The structural differences between Figs 1 & 2 suggest some basic differences between the above two varbs. In Fig 1, we have a structure consisting of a main clause followed by a sentantial complement as object. In Fig 2, on the other hand, the structure is much more complex, being a Purpose construction which generally consists of three sentential units — a superordinate sentence whose VP is expanded as Verb and Reason, the Reason node — being in turn expanded as an S whose varb takes a sentential complement as object. Thus, the ke/ms complement is the object, not of the highest sentence, but of the next high sentence immediately

dominated by Reason. From this structure and examples 8 & 9 derived from it, one fact emerges, namely that the optative ikhuc functions only in a Purpose or Causal construction where it always requires a sentential object, whereas ico can function either in a Purpose Construction, or in a simple complement structure such as is shown by Fig. 1. The reason for this unique syntactic behaviour of ikhuc stems from the fact that this warb gives the explanation, cause or reason for the action expressed by the verb of the superordinate sentence, hence such a reason or cause cannot occur in the absence of this superordinate sentence.

Examples 3-5, and 8 & 9 clearly demonstrate this fact. The following additional data lend further support to the point being made here:

10(a) I khauru ya muō? (vb ikhau muō - abuse, swear at)

(h) sá . va. .

Did you swear at him?

- (c) I khworo gini? What had you in mind, why?
- (d) { kheôrô } why? For what reason?
- (e) Ekhworo a {si} o kuru a hee

 Had regard I that he beet me thing:

 I did so because he best me.

10(a) and (b) establish the discourse situation in which the following 10(c)-(e) can be used; the verb ico cannot be used to ask such questions be 10(c) and (d) even given the same conversational setting. From 10(e) it is also obvious that ikheo is one of those verbs which can take either a man subjunctive or Na declarative complement according to the intended meaning; ico, on the other hand, can take only the Ka Subjunctive complement, never the Na declarative one. The explanation for this syntactic difference is easy: ikheo being a verb which expresses purpose or reason for an action is capable of expressing the reason for past, present or future action in its complement whereas ico being strictly a verb of 'wish' can only express an unrealised

proposition in its complement, and as a consequence is syntactically restricted to Ka Subjunctive complement. Apart from these differences, the two verbs are very similar in their syntactic characteristics; that of them take the subjunctive complement and are subject to EQUI.

We shall now examine the conditions that determine the application of EQUI to these and other verbs which share the same or similar characteristics.

8.2.0 SUBJUNCTIVE COMPLEMENTS AND EQUI-NP DELETION (EQUI)

We have pointed out at the beginning of this chapter that apart from other distinctions, the subjunctive complements are the only complement type which are subject to the rule of co-referential Koun phrase deletion which triggers infinitivization in Igbo. It has further been observed (cf 6.4.) that Igbo infinitival complements are not deep structure forms but transforms of basic mag sentential complement to Emotive varbs; in this section we shall show that it is also the case that object infinitival complements derive from the basic ka/ma subjunctive complements and a few Nd complements that meat the essential requirement for EQUI, and subsequently, for infinitivization. That then, are the requirements which subjunctive complements meat but other categories of NP complements fail to satisfy? We begin the answer to the above question by examining the following 11-22 santances.

- 11(a) lbs coro ks ys wuru onys ishi oci (b) - isu Ibs wants to be the chairman.
- 12(a) Unu abyala (khaoro) na unu hwy dokita
- (b) * ihmu dokitm .

 You have come to see the doctor.

- 13(a) Đnũ na akwado ka ya gas shya
 - Onu is getting ready/preparing to go market.
- 14(a) Anyi gbalichera ka anyi kocasa he ikpema ha.

 Do struggled to reconcile them
- 15(a) Ogu shafula iça ehye
 Ogu has stopped çoing to market: Egu has given up trading.
- (b) Di ya akeushila ya (iru) oru .

 Hor husband has stopped her from working.
- (c) 0 gbaghears ishi has anyasu

 Ha/she owitted to cook food of evening: Ha/she
 failed to prepare the evening smal.
- (d) Bikhō, aghakwala (nž) ine hwe a gware gi.

 Please, do not omit from doing thing 1 told your

 Please, don't fail to do what 1 asked you.
- 16(s) 0 jula na ya ça ajhera a ahya
- (b) 0 jule 1 jhere m shys.

 He has refused to go for me market: She has refused to go to the market for me.
- 17(e) 0 kwēle ne ya ge alự Eg°ō.

 11ữ Eg°ō

 He has consented to marry Eg°o
- 18(a) 0 kasta nkas na ya ga ajha
- (b) _______ ijhe
 He has presised to go.
- 19(a) A Cduru a ishi na aga a akau azhiokau
 - (b) ______ilosu ezhi-olo
 I seore to speak the truth.

20(a) bhāra

(b) Her husband threatened

21(a) Ecefuru eqaare

I forest should have told him.

(b) Eccluru

I forgot

tell 22(a)

(b) nkhu-

> (that you should felch) soms firewood.

Apart from 15 which has only the infinitival complements, each of the examples 11-22 have either the ka/ma or the Ed complements in the (a) as well as their infinitival counterparts in the (b) sentences. Un represent the rule which deletes the subordinate subject NP under identity with the main clause subject MP as follows:

EQUI-NP DELETION - (EQUI) RULE: (optional VERB VERB

Process Conditions (i) 5 . 1

predicate.

SC: 123486

The output is 23(a) which is not well-formed until the new subjectless verb has been infinitivized and the complementizer deletade

23(a)

The application of the rule of Infinitivization and complementizes deletion to 23(a) yields the well-formed 23(b):

23(b) byare

for the purpose of seeing you.

In its present form 23(b) meets the structural description for the optional rule of Optative Predicate deletion (discussed on pages 453ff). which, when applied, yields the wall-formed 23(c)

Observe that this optional rule is independent of EGUL. • Infinitivization and Complementizer deletion rules which we shall henceforth refer to as Equi-AP Triple since all the three need to apply if the output is to be well-formed.

Let us now try to answer the question raised at the beginning of this section, makely, the requirements that need be met before EQUI can apply. From 11-22 it will be observed that all the warms involved in the main clauses are such as express an unrealised proposition in their complement, the only exception being 15(a)-(d). This is the sementic characteristic of all the subcategories of predicates which are subject to the EQUI-AP triple. For example, the main clause warbs in 11-14 are werbs which express desire, hope, expectation, efforts or determination, while 16-22 reveal a heterogenous class of werbs which have one thing in common: the fact that the verbs of their complements express a future time in relation to the time expressed by the main clause verbs. It follows from this that the occurrence or non-occurence of the proposition expressed in these complements must be left open. 5 and this

forward-looking prodicates in Igbo.

There are some exceptions to the above essettion in view of the ishi - to swear Those are verts which can take either Ha Indicative or ka/ma subjunctive complement, Enchavor they take a subjunctive complement, the proposition of such a co-plement is always open. In this sense, they are smong the

accounts for the fact that it cannot be past in relation to the meaning of the main clause warb. For example, we cannot wish for $(ic\bar{o})$ semathing if it has already happened, nor can we swear or threatern $(id\bar{u} ishi/ibh\bar{a} mbha)$ to do something nor refuse $(ij\bar{u})$ it if the occasion for doing it is already come and gone.

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That these verbs have in common can be informally expressed by referring to all of them as "forward-looking" predicates, a term used by Karin Ailmer (1972) and Bonney (1974). By this descriptive lebel was mean that the predicates which permit the Equi-MP triple to apply to their complements impose a sequence of tense constraint on the structures in which they occur, an observation which Boadi (1972) had made with rogard to sentential complementation in Akan, one of the languages of Chana. In sentences such as 11-22, there is a dependency relationship between the main and subordinate clauses which does not obtain between the main and subordinate clauses of other categories of NP-complement in Igbo. It is this dependency which explains the tense constraint on the complement verbs - the fact that the time expressed in the complement is always future with respect to that expressed in the main clause. EQUI is sensitive to these semantic characteristics, and this explains the fact that only verbs which must these conditions can have infinitives as complements. It becomes, therefore, understandeble that the subjunctive complements constitute a prolific source of Igbo infinitives via the operation of the Equi-NP triplet. Recall now that in .2.0:3/4we pointed out that infinitivization in Emotive prodicate complementation is also sensitive to this same requirement - that the time expressed by the complement verb be future/present, never past with respect to the that of the main clause verb, and secondly, that the main clause verb be smotive. We can now reconcile these conditions and those that determine the applicability of EQUI here thuss

The verbs which are subject to EQUI are inherently forward-looking, in other words, the conditions being described are part and parcal of their agmantic and syntactic features. But the predicates examined in 5.2.0 in connection with Exptive predicate complementation are NOT inherently forward-looking: they do not impose any sequence-of-tense constraints on the verbs of their complements. But in order to infinitivize the verbs of these complements must satisfy the above tense constraint. They do this by taking the antecedent of the Cpen type of Conditional construction as NP subject.

The tense constraint on the complements of examples 11-14 and 16-22 or the forward-looking character of the main clause verbs involved in these and other such examples constitutes a verb strong common factor to the different semantic classes of verbs involved in subjunctive complementation. It also accounts for the fact that all of them are subject to the optional rule of EQUI.

The different sementic classes of verbs in these examples being examined here express the future meaning of their complement verbs in various forms. For example, Optotives such as ico and ikheo and Exercitives such as ighali and ikwado express the future in their complements without the future marker ga. But predicates such as

	•
ijū	to refuse
ikwe	to consunt, agree
idu ishi	to swear an eath
1bha mbha	to threaten
íkuð nkhuð	to make a promise
icero	to forget
icète	to remember, recall -
íkil	to plan

such complements are introduced by the complementizer No rather than by ke/ma, as 17-22 show. Thus, when their main clause subject NP and the complement subject NP are co-referential, EQUI may apply to yield infinitival complements as 16-22 show. This fact further underscores the primacy of the forward-looking character of these predicates rather than the absence of any claim about the truth or otherwise of the propositional content of their complements. To formulate EQUI so as to be sensitive to this character of the verbs concerned here is to explain its applicability not only to ke/ma, complements but also to axamples such as 16-22 where the complementizer is No. These examples wish or resolve or determination to do something rather than his view about its truth or falsity.

from all these pieces of evidence, it becomes clear that Equi-EP deletion is by no means idiosyncratic, but regular and easily predictable from the semantic characteristic of complement-taking predicates. If such predicates are forward-looking, and if their main clause and complement clause subject NPs are co-referential, then EQUI and, subsequently infinitivization and complementizer deletion may apply to their structures to yield infinitives. Sonney (1974) reaches the same conclusion about the English language, and thus challenges the view that EQUI is a laxically governed rule in English, which can be handled by the theory of exceptions as suggested by George Lakoff (1970).

8.2.1 EQUI AND ICBO ASPECTUALS

Before we go on to examine the main clause verbs in examples 15 which we had deliberately left out of the foregoing discussion, let ue, first of all, point out that Equi-NP deletion is an optional rule in Tgbo - NP Complementation, unlike in English where it is obligatory

once the necessary identity condition has been met. For exemple,
like-subject verbs in English are subject to the sementic constraint
that their complement must describe semething which is sithin the control
of the main clause subject, (Janet Dean Fordor, 1974). For this reason,
English verbs such as

try

condescend and

refuse

can occur only in base structures in which main clause and complement clause subjects are co-referential, thus meeting the structurel description for EQUI. In cases such as these, EQUI is obligatory, as the deviance of 24(a) and the grammaticality of 24(b) shows

24(b) I { tried refused condescended } to resign.

. The same is true of the Optatives such a

want

desire

like

in the following 25.

25 1 \{ \text{want} \text{want} \text{to resign my appointment.}

It is therefore correct to say, with respect to English, that Equi-MP delation is obligatory whenever its structural description is met, except in very few cases where Equi or Roflexivization may apply as in 'I expect to go/I expect myslef to go.

But this is not the case in Igbo, for there exist in the language alternative or variant forms of the Igbo equivalent of the above sentences, thus:

26(a) And a aghali km a jhekhwuu ya n'ulo.

(b) ijhekhwu ya

I am trying/hurrying to catch him before he leeves home.

27(a) Ogu coro km ya nya na ag'u.

inya he

Ogu menta to give thom somo money.

28(a) O duola ishi na ya ga ama ya nehi.

ima ya

He hes sworn to poison him.

It needs to be pointed out, however, that the infinitivel versions in (b) are more popular, being shorter.

Although EGUI is an optional rule in Igbo, there is a small semantic class of worbs for which EGUI and Infinitivization seem obligatory. This class consists of the worbs shown in example 15, they are the following worbs which we had deliverately left out of discussion in examining 11-14 and 16-22:

inaru - to leave out, omit, forgive
igha - * abandon, omit, forgive
ighagha - * stop, desist, discontinue.

We have previously described the above veros as ASPECTUALS - or

Operative verbs. These verbs always take the I prefix + V-stem fore
as their complement, and it is not clear whether this fore is an
infinitive or a derived nominal of the same phonetic shape as infinitives.

Consider the following examples in the light of the above statements

29(a) Dgu shafula (jkuzhi) nkuzhi

Dgu has left teaching: Dgu has rezigned
from teaching.

- 29(b) Ug'o akwishichaala (igba) ughala akwa.

 Ugo has completely stopped to trade on clotha:

 Ugo has entirely stopped doaling in clotha.
 - (c) Aghakmala ineu m fam eci.

 Do not omit to som mo early tomorrow: Don't fail to see me carly tomorrow.
- (d) I ghāghaara (igā) ozhi m zhiri gi.

 You omitted to to go on errand I sent you:

 You failed to run the errand I sent you.

29(a)-(d) are representative of the type of constructions associated with this class of verbs. One unique characteristic of these verbs is that they have no corresponding finite complements.

This being the case, it is not easy to prove that their complements are infinitives deriving, like these associated with forward-looking predicates, from finite sentential sources. Furthermore, the I prefix + V-stem forms are optional in these and similar examples, and the verbs themselves are not forward-looking, but rather describe "a direct, immediate reaction to a simultaneously occurring or imminent event," — as Josephs (1974) points out. It seems, therefore, appropriate to analyse these I-forms as derived nominals or garunds, or the equivalent of the English -INC nominals as in

Stop singing.

Stert

And examples such as the following 30 lend further support to the above analysis:

doing what I saked

Sentenses such as 30(a) and (b) in which a verb in the Imperetive and the I-form are intorchanguable can never be analysed as instances of NP complements in the same way that an analysis of 31 as NP complement in English may find little favour.

It seems that the verbs involved here as well as their Igbo counterparts are Aspectuals or Operative verbs which require nominals as complement.

It is no more than an accident that English formally distinguishes between the Garund and the Infinitive thus:

Esting (Gerund)

To eat (Infinitiva)

whereas for Igbo, there is only one homonym for the above two form classes, that is, the I prefix + V stem form, in this case

ri hwe.

An alternative approach is to enalyse the type of sentences being considered here as having infinitival complements deriving from a deep sentential source which never shows up at the surface. Such an analysis would constitute this class of verbs into an idiosyncratic group for which EQUI is obligatory, as well as the only class of verbs without any empirically verifiable sentential source. Since the odds are so much against this alternative analysis, it is, therefore, rejected in favour of the first approach which, while describing the data accurately, makes possible the general statement that EQUI is an optional rule in Igbo complementation.

8.2.2 EQUI AND RECATIVE PURPOSE CONSTRUCTION

As a general rule, the Regative verb suffix -ghI never functions in the verb of the complement clause in Subjunctive and Purpose

constructions. This constraint accounts for the grammaticality of 32 and 33 and the devience of 34:

In 34 above, the negative verb suffix is in the embedded verb⁷ and they are ill-formed. Observe also that for as long as the Negative morphame is suffixed to the higher or main clause verb, EQUI will apply along with Infinitivization and complementizer deletion to produce the well-formed (b) sentences of 32-33. In order to express negation in the complement clause, the language employs the following alternative constructions:

(a) by the use of the operative/aspectual verb, igha and its

⁷ The existence of this restriction on the occurrence of the Negative particle makes one wonder whether Negative transportation in Igbo is from a main clause verb to the subordinate one(NEG-Lowering) or from the verb of the embedded clause to the main clause one (thus NEG-Raising). It seems that the occurrence of the Reg-particle in the higher sentence is the norm in Igbo, hence it is more appropriate to talk of Neg-Lowering rather than Neg-Raising, which some warbs parmit, but others do not.

⁸ The verb ighe has been fully discussed along with other Aspectuals, which have been shown to take nominals rather than infinitives as complement. The optional presence of the preposition no in these examples—lends further support to our analysis of the I prefix + v-stem form as nominal rather than verbal.

(b) by the use of a unique construction in which the verb form is always on low tones, and the complement pronoun third person subject on a falling glide.

The first type is illustrated by examples 35, and the second by 36:

35(a) Anyi lawara ma unu ghara (na) inuu anyi

daparted so that you omit from seeing us:

Be left so that you might not see us.

- (b) Rea ahi heturu (kwero) ma ya ghara (na) ikwere unu.

 Child that hid intending that he omit from greating yous

 That child hid so as to avoid greeting you.
- 36(a) Were nwayoo (khworo me) Ndidi etheta
 - (b) O thete.

 Take gentleness regarding that Ndidi/she not wake:

 Take time lest Ndidi/she should wake.
 - (c) Nine dhowears if Ogu aghera onu gawa shys

 Mother left food lest Ogu starve and go markets

 Mother left some food lest Ogu should go to market without
 esting.
 - (d) The gushiri ekwukeo ikhe ya adha ule
 The reed book hard lest he feil cet exem.

 The studied hard lest he should feil his exem.

Santances such as 35 and 36 in which the negative purpose is expressed in the complement clause are not subject to Equi-NP triple which produce Igbo infinitives as output. From these examples, we can state one of the constraints on the applicability of EQUI as follower:

EQUI may apply to a Negative Purpose construction in Igbo if and only if the werb in the negative is the main clause werb and not the

complement clause werb. Secondly, EQUI is blocked in all Negative

Purpose clauses which make use of the operative werb, igha, or employs
the alternative to the igha construction.

In addition to the above, there are some other constraints which block the application of EQUI even when its structural description is met. What these constraints are will become obvious as we examine the following examples:

- 37(a) Ogu <u>nyore</u> anyi oce ka anyi kporulate.

 Ogu gave us sents so that we might sit down and relax.
- (b) Ogu nyere anyi oce ikporulata.
- 38(a) Îbe nuru nahi ma ya nuuo kwam-kpim.

 Ibe drank somo poison so as to die unexpectedly.
 - (b) "Iba nuru nshi inwu kwam-kpim.

crying.

- 39(a) 0 $r\bar{e}re$ als ord ya ka ya zutafuo igaa . He sold his farm land so as to be able to buy a bicycle
- (b) •0 rere ela oru ya izutafu igue.
- 48(a) Nwônyí a cughe nes ys sïe ma o kwục chữ .

 Woman this is giving child her breast so he stop crying:

 This woman is breast-feeding her baby so that he might stop
- (b) *Nwânyị e cughe nwá yã ara ikmụ ọng

A look at 37-40 reveals that all the (b) sentences are ill-formed; this is due to the fact that each of the underlined main clause verbs is a transitive varb taking one or two NP objects. Now contrast the foregoing examples with the following 41-43 where the corresponding infinitival complements are well-formed because the main clause verbs are intransitive.

41(a) DQu byara · (b) Ugu CARM so as to great or walcome 42(a) Unu ihere dozhie (b) időzhi okwu to rasolve the matter? DIG YOU GO 43(a) lobhatare Ndi etu (b) The workers returned to cet.

Emile the presence of a direct object NP before the ke/ma; complement affects the grammaticality of the output of the Equi-NP triple, an intervening PP node does not have the same affect.

This fect is illustrated by the following 44-46:

- 44(a) Anyi gara shya ke anyi zuta aghu
 - (b) . įzūte eghu-

We went to the market in order to buy a goat.

- 45(a) Ecebiri byara n'ishi ututu ma ya nyera m aka
- (b) ______ inyere a ake.

 Ecobiri come vary early in the marning in order to help me.

in order to have e

- 46(a) Ug'o alemala n'ulo ma ya hitu urm
 - (4) ihity yes.

Uço

EQUI must therefore be blocked in all cases where the main clause werb is transitive as otherwise the output of Equi-NP triple will be deviant. It seems, therefore, that applicability of EQUI to Igbo Purpose construction yields the supplementary benefit of helping to distinguish between transitivity and intransitivity in Igbo, especially with respect to those verbs of Equament whose Deep structure prepositional phrase(PP)

complement appears in Surface structure as though they were direct

object MPs because they lack the preposition <u>na</u> at the surface.

Apart from the verbs of Sovement, the other group of verbs whose status seems clarified by the EQUI test are those verbs with inherent objects, such as

idu ishi - to sweet an oath ibha sbha - to threaten

It is the case that all such verbs which are forward-looking and thus satisfy the essential condition for EGUI do, in fect, undergo this rule once there are two co-referential subject NPs in their main and complement clauses. This class of verbs, cited on page 422 are covered by examples 18-20 which show that their infinitival complements are perfectly grammatical. It follows that such verbs, and light is full of them, may be considered intransitive inspite of their cognete objects. From all this evidence, it is not, therefore, resh to suggest that EQUI as a transformational rule of grammar yields the additional benefit of helping to distinguish transitive from intransitive verbs in light.

Just as EQUI is blocked in the foregoing cases where the main -clause verbs are transitive, so it is also blocked in all cases where one of the co-referential NPs is in object relation to the verb as in the following 47-48.

47(a) Ndhụ khọco á kả á chèáre onye nkuzi ekpe-Ndhụ called se so that I might ask teacher pardons Ndhụ called me to ask for the teacher's forgiveness.

⁹ The transitive/intransitive distinction among Igbo werbs is not as immediately obvious in Igbo as it is in English and other Indo-European languages for the simple reason that most Igbo werbs take one type of object or another. For example, we have the following verbs whose citation form must include an objects

lítų qnu to burrow

^{&#}x27; enya " expect ' eshi " tell e lis

n'anye surprise, be surprising to some of these can be used transitivaly and other intransitivaly. It see that a three-way classification is called in Igbo: Transitives, Pseudo-Transitives and Intransitives. To have only begun to investigate the matter, (cf Bangbosha 1966: 79-80) for a similar three-way classification

47(b) Midhu kporo si ichère onye nkuzi ekpe.

48(a) Ogu na aco si ka si lutera ya sai.

Ogu is searching for ma so that I might buy him some

(b) 'Ogu na aco m ilutere ya mei

In Igbo, Equi-NP triple-EQUI, Infinitivization and Complementizer deletion - produce well-formed sentences, if and only if the two co-referential NPs in the main and complement clauses are both in subject relation to their verba. It is worth pointing out that the deviance of the chove examples can be remedied by the use of the preparation, make as 49(a) and (b) shows

49(a) Kidhu kporo a make ichera onya nkuzi akpa.

- 49(a) Ndhu kporo m make ichere onye nkuzi mape.

 Ndhu called me for the purposo of asking for pardon from
 the teacher.
 - (b) Ugu no aco m make fluters ym me; .

 Ugu is looking for me for the purpose of buying some wine for him.

Although 49(a) and (b) are semantically related to 47 and 48 respectively.

we are hemitant to establish such a relationship transformationally.

We see the situation as no more than the use of alternative syntactic forms to express one and the same meaning as in the following English sentences:

We have come { in order to ascertain the facts of the case. with-the purpose of ascertaining # 55

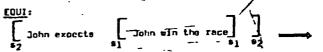
or in the following Latin equivalents:

Venious { ut vers cognoscereous. }

We have come to find out the truth.

The constraints which block the application of Equi-NP triple in Igbo can be fully appreciated if we examine the various syntactic processes involved in infinitive formation in the language. For ext ple, the infinitive in English can be derived from the following syntactic processes:

- (1) EQUI-MP DELETION (EQUI)
- (2) For ... to complementizer reduction
- (3) RAISING.



John expacts to win the race.

FOR ... to Reduction

We want for John to leave the room.

RAISI#C

The English language is prolific in infinitive constructions.

By contrast, the use of the infinitive in Igbo is much more restricted.

This situation is very relevant in Purpose Clause constructions in both languages. In English, it is perfectly natural and grammatical to hear the following:

- 50(a) Wa sold our car (in order) to buy a house.
 - (b) We gave them money to buy some drinks.
 - (c) We want him to be present at the meeting.
- (d) He worked hard (in order) to attain his position.

The Igbe equivalents of 50(e)-(d) can never have infinitives in their

¹⁰ The two construction types involved in the above Latin examples are:

⁽i) ut + the Subjunctive and (ii) Accusative of the Gerund.

complement or purpose clauses. The reason is simply this: 50(a)-(d) are the output of a transformational process which is lacking in Igbo - complementizer (for - to) Reduction shich is obligatory in cases such as 51 to produce 50(a):

51 We sold our car for to buy a house.

We sold our car to buy a house.

Since sentences such as 50 are the output of obligatory complementizer, deletion, and not of EUUI, we cannot expect to have their 7 bo activations in the infinitive, hence the ungrammaticality of 52(b) which is the output of EQUI on 52(a)

- 52(a) Ányi rére motō šnyi kà ányi zụrụ ụlộ.
 We sold our car so that we might buy a house.
 - (b) *Ányi réfe motő ányi izű ulo

We should recall that EQUI is blocked in Igbo if one of the co-referential NPs is in object relation to its verb. However, \$2(c) which is agmentically equivalent to 52(s) is mall-formed.

(c) Anyl rere moto anyl make (zū ulo.

We sold our cer for the purpose of buying a house.

For a similar reason, 53(b) is not an acceptable transform of 53(s)

in 19bo, although 54(b) which derives from 54(a) via the Raising rule

is a well-formed English sentence:

(b) *A coro m Ogu jbya -

(b) I sent igu to come

As we have pointed out in 5.2.1., Raising is a minor rul.

in lobo limited only to a handful of emotive verbs.

In concluding this section, it is necessary to emphasize the following points about Subjunctive complementation and the applicability of CGUI, and subsequently Infinitivization and Complementizer Deletions

- (a) only forward-looking predicates are subject to the optional rule of Equi-NP triple, that is, EDUI, Infinitivization and Ecoplementizer deletion. Of these forward-looking predicates, some take ka/ma, and others Na complements, but they all undergo the rules of Equi-NP triple once the identity conditions have been mat.
- (b) The identity condition is very much restricted in Igbos it must exist between the main clause subject MP and the complement clause subject NP in order for the output of Equi-MP triple to be soll-formed.
- (c) For Negative Purpose constructions to be subject to Equi-NP triple, the negative verb must be the main clause werb.

 However, EQUI is blocked for those Negative Purpose constructions which make use of the verb, ighe or the alternative to the ighe Negative Purpose construction.
- (d) EQUI is an optional rule in Igbo, despite the existence of e small semantic class of verbs called ASPECTUALS whose I prefix + V-stem complement has been shown to be nominals rather than infinitives.

In a recent article, Eckman (1974: 63-82) has argued that Equi-NP deletion "should be viewed as a rule which deletes the second of two identical NPs which are included within the same simple sentence, rether than as a rule of subordinate deletion. Thus Equi-NP Deletion is assumed to apply to the output of Subject Raising" (page 63).

\$.3.0 SOURCES OF IGBO INFINITIVES

The lgbo Lenguage is full of forms generally and collectively referred to as the Infinitiva. These forms begin in a characteristic may - always with a harmonising, high front wowel prafix I, and the stem of a recognisable werb. It is this similarity of form that gave rise to the name infinitive, regardless of whether the so-called infinitive behaves like a verb or not. The following are illustrative examples of the homonyms which are collectively called the Infinitives in lgbo, the relevant forms are underlined:

- 55 ACcoro m <u>izū</u> enu I went to buy some mont
- 56 Ogu gara ikpā nkhu Ogu went to fetch firewood
- 57 <u>Îkwû</u> ezhi-okwû na enye eka -To tell truth does help/is helpful: Telling the truth is helpful.
- 58 Inu okhu mai na emedna diakpa.

 Drinking too much (wine) dogrades: a responsible parson,
- 59 Ino nofu adii mme-Idleness is not good.
- 60 Énwēre m ikhe { byaibyā.}

I have the energy to come: I can come:

- Strength to work work today is not to men

 I do not have the energy for work to-day.
- (b) Enwehii m ikhe (ifu) ofu than .

 I do not have the strength for work today.

62 jgs sukkulu na ésuru umu gbuo.

To go school is the feshion of the present generation.

Going to school is the fishion for the present generation.

All these underlined forms are phonetically similar. Does this identity of form imply an identity of function?

The ensuer is an unequivocal no; although these surface forms are identical, there are two syntactic functions involved, each deriving from a distinct syntactic process. The two syntactic functions are:-

- (a) INFINITIVE or (VERRAL) Function and
- (b) NOBINAL/GERUIDIVE

INFINITIVES

Infinitives are, strictly speaking, verbs. In some Indo-European languages, for example, English and classical Latin, infinitives may have the perfective aspect or be tensed as follows:

- 63(a) I want to talk to him personally. (Prosent)
 - (b) To have ignored such hints from the unions was an open invitation to strike. (Perfective)

Latin

- 64(a) Te exire indet. (Present)

 You to go away he orders: He orders you to go away.
- 64(b) Ferunt Caesarem ad castra oppugnando <u>pervenisse</u> (Past)

 They report Caesar to the comp to be stormed to have arrived:

 They report that <u>Caesar has arrived</u> at the comp that needs
 to be stormed.

But in a language such as Igbo, the infinitive is tenseless or rather expresses no more than future meaning as in 65:

- 65(a) Acoro m <u>igua</u> n'og'e .

 I want to set out in time.
- (b) Ānyi byara <u>ścō</u> pru

 We came to look for employment.

 In other words, infinitives in Igbo are always potential in

mosning, rather than factual, and this is a reflection of the underlying source of such infinitives. For example, the Igbo equivalent of the English sentence 63(b) is the following 65(c) in which only the literal English translation has been given because it makes the point.

65(c) İkpochi nthi n'okhwa nke ndi oru mara
Closing ear to the waroing which workers gave
futara igwa ha kwushi oruemount to telling them stop work.

In 65(c), the form ikpochi nthi can only have a (factive) nominal interpretation such as is entailed by its English equivalent 63(b). This point has been argued in 6.1.2: 282-266.

In Igbo, one can distinguish between the following two types of infinitives

- (a) Subjectless Infinitives
- (b) Infinitives with or without Subject.

 Igbo Subjectless Infinitives derive from EQUI-NP Deletion applying optionally to the complements of a class of predicates which have been described throughout this chapter as forward-looking predicates. Their structural position is unmistakable: they are always found in object NP position like the object NP sentential complements whose transforms they have been shown to be. In Purpose clauses, however, these infinitives are immediately dominated by Resson node.

We distinguish the above subjectless infinitives from the second category of infinitives which may have their NP subject, such infinitives are associated with ma2 complements of non-factive amotive predicates, and these have been fully discussed in chapter 5 (5.1.3.)

Like the subjectless infinitives resulting from Equi-NP triple, they are also potential, never factual in interpretation. Their structural position is always subject, and they derive from generalised conditional

clauses functioning as subject NP complements to smotive verbs. These two types of infinitives are therefore in complementary distribution, Subjectless infinitives in object and the other in Subject relation to the verb. The following are a few more illustrative examples of both types; the infinitives are underlined.

SUBJECTLESS INFINITIVES

66(b) Ekwele m nkhwa ikwuchiri ye ugeo to pay for him the debt:

I have promised to pay the bill for him.

INFINITIVES WITH/WITHOUT SUBJECT

- 67(a) Okha mādhu <u>izu ohi</u> gwuru ikha
 Old man to steal thaft finishes strangthu

 for an old man to steal is disarming.
- (b) Mai igbu nmanyi adii mma ma otu ma ot Wine to kill woman is not good at all:
- (c) 0 wu ome neals any wu inve not okne

 It is custom our is to give the old

 sadhu naopuru .

 people respect: It is our custom to give respect to our
- (d) Theo ye anye do okhe mkpm.

 To see him eye is very important.

 It is very important to see him.

8.3.1 HOMINALS/GERUNDS VERSUS INFINITIVES

Our claim is that any I prefix + V-stem form which cannot be related vim any of the above syntactic processes which produce the infinitive in Igbo must be a nominal. Nominals of the above form may be due to either lexical derivation or to sentential nominalisation.

These nominals behave like some ordinary nouns in Igbo, while infinitives do not. Consider the following examples:

That the children are attending school gives pleasure.

The fact that children are attending school is a pleasure.

68(b) is transformationally related to 68(a) via numinalisation of the subject Na complement, (cf 5.1.2 for datails about the nominalisation of factive complementa).

The schooling of children - gives pleasure.

Observe that igs skeukeo is an NP and that the nominal, usuaka is a genitival relation to it. This noun usuaka can be replaced by any other noun so as to show the tone pattern indicating the syntactic relation thus:

- 58(c) [gs skeuken yw na enye obi shurf Schooling of his gives plessure: His schooling gives plessure.
- (d) jgs skwykep Okoro (Okoro)
 Okoro's schooling
- (e) 1 ga akwukwo Okoro gaghakwa na anya obi anuri Schooling which Okoro atill schools gives pleasure: The fact that Okoro atill goes to school gives pleasure.

reduction. The use of the relative clause in 68(s) is to further definitize the nominal head, 193 akuukup. But infinitives cannot be qualified by the same relative clause, their co-occurrence with infinitives such as those of 66 and 57 produces non-sense combinations of lexical items which can never be described as Igbo sentences. For example, subjectless infinitives cannot be definitized by either a noun in genitival relation with it or by a relative clause, and for infinitives with subjects to be so definitized, one must first of all change the word order. If for example, 67(a) core to be changed to 69(a), then we would be dealing with two different sentences thus:

67(a) Đkha mādhy izv ohi gwyry ikha.

for an old man to stool would be disarming.

69(a) Ξữ chi ckhe mādhỳ gwyry ikha

69(b)

The change of order, therefore, signals a change of grammatical relation and consequently a change of meaning. In its present form; 69(a) can now take relative clauses as 69(b) shows, whereas 67(a) cannot be qualified by a relative clauses.

12u ohi okhe mādhu 2uru gwūru ikhe
ne ežu
ge ežu
Steeling which old man stole steels
will steel
the fact that the old man stole steels
steels

The order of elements of structure is a key factor in the above interpretations of 67(a) and 69(a). Whenever this order changes, the meaning also changes. But, transformational rules as now formulated are not allowed to effect such redical meaning changes. Therefore, there can be no relationship, transformational or semantic, between 67(a) and 69(a). The above test shows that

(a) only nominals can be definitized by either an NP in genitival relation with it or a relative clause or both,

but never an infinitive since it is part of the complex warb.

The second differentiating test between the two homonyms infinitives and nominals in Igbo consists in the use of preposition
make; consider the following examples:

- (b) Anyi ma maka akwa o na evu -
- (c) Anyi na naka (ivu) akwa ya o

the know about his cloth trade.

Observe that in the nominalised forms in (b) and (c) above, the use of some some is obligatory, and this is normal with nominalised Na complements.

Observe also the use of the variant form of the derived nominal, ovunu - carrying. If the same preposition were to be used with infinitives, the result would be ungrammatical, as 71(c) shows:

- 71(b) Anyl coro imeshi ya ikha.

 Be went to deal hershly with him.

 (c) * Anyl coro make imeshi ya ikha.

 We may state the above differentiating test in the form of the following rules
 - (b) I prefix + v-stem forms which are nominals but not infinitives may take the preposition, make.

It must, however, be pointed out that some forward-looking predicates (that is, those that are subject to the optional rule of EQUI) do take make before what would otherwise be their infinitive complements, as the following examples demonstrates:

But 72 and 73 are neither semantically, nor transformationally related in the sense that 72(a) and (b) are, since the I prefix . v-stem form in 73 must be analysed as a nominal. One can liken 72 and 73 on the one hand to the following English constructions:

The above 74(a) and (b) sentences are not memantically equivalent in the same way that 72(b) and 73 are not.

Classical tatin 12 abounds in such examples where different constructions are employed in the expression of one and the same meaning, as in Purpose or final Clauses thus:

- (a) ut and-the Subjunctive
- (b) the accusative of the Garund
- (c) the Supine ending in -um.

¹² Letin expresses Purpose in either of the following construction types

75 Venerunt milites ut castra oppuggnarent.

ed e oppujignanda -

castre opponetum.

Eams the soldiers in order to stack

so as to

for the purpose of stacking

The soldiers ceme to atteck the camp.

It is therefore necessary to distinguish between two different form classes in sentences such as 72(h) and 73; in the former we have a clear case of the infinitive and in the latter, an example of the nominal, these two are not morphologically distinguishable in the language, though syntectically they are. Other formed-looking predicates which may take an optional make are those given on page 22, except iju (to refuse) and including the optative, ikhwo as in 76.

I came in mind — to see you. ____ and cames.

I came in order to see _____ you.

The above 76(a)-(c) have a parephrase relation, but only 76(a) and (b) are also transformationally related.

We therefore emphasize the two diagnostic tests for distinguishing the nominal and infinitive homonyms in Igba: Infinitives do not take make, whereas nominals do. Rominals can be modified by other nominals or a qualifying clause, but infinitives may not be so modified.

Infinitives in Igbo are laways potential or future in interpretation, while the same homonym functioning as a nominal may be factive, and the sentence in which it is functioning may express past, present or future meaning.

In addition to the foregoing examples, there is also the following type of constructions

77(s) and (b) can be shown to be different: 79(a) is the product of Coordinate Deletion of the following structions:

I could/may come (but I am not sure)

But 77(h), on the other hand, means that I have the strength/energy or means to come and no more than that, hence the nominal, ibya (coming).

Compare 77(b) with 71. for example:

He has the strength/energy for works He works hard.

He can work hard.

In the above examples, if of or and of must be analysed:

8.3.2 The EMICMATIC CASE

Apart from what has been shown to be either infinitives or nominals in the foregoing section, there remain few and isolated cases of the homonym which functions after the auxiliary verbs

tue,

Consider the following examples:

I shall go to marks

There is a choice of profixes in the above examples ranging from harmonising womels to homorganic massls. If the MP shys is deleted in the above 80, we get the following variants in 81.

Observe that what we have in the zhove examples in place of the deleted NP is a kind of cognate complement. This cognate complement may also be deleted to yield 82.

82(a) is very questionable. It seems that with the above I prefirform some complement - be it cognate or nominal - is obligatory. If this
is true, and there is as yet no evidence to the contrary, then one is in a
strong position to determine when an extra dimension of magning - such as
determination definiteness or commitment is involved: the commitment or
determination to carry-out the action of the verb, igs seems to be
dependent on the presence of a complement thus:

284(m) Aga m ibya.

It seems that the choice of the prefix is a dialect issue.

But this explanation does not constitute an answer to the question:
What part of speech is it that comes after the auxiliaries 100 and 1007
Infinitive it cannot be since it cannot be related to any of the two
well known sources of infinitives in Igho - Equi-NP triple and
infinitivization in Emotive predicate complementation. It is not a nominal
since it does not behave like one. It seems that auxiliary words such as

must be seen as verbs whose prosence entails the presence of other varb forms which are complement to them. We thorefore suggest that varbs much as

are not analisable. These verbs are called auxiliaries because they help other werbs to express the right meaning/time. In constructions such as

the underlined sequence is the verb which can only be seen as auxiliary plus complement or simply as complex verb form. Us do not go along with the previous analysis of the above underlined varb form as suxiliary plus participle. The term, participle, seems ill-motivated in the analysis of Igbo. It will be observed that ine and igs behave similarly, except that the former does not admit of any other vowel prefix to its complement than the harmonising A thus:

¹³ Rev Iges observes (personal communications) that there is a meaning difference between sentonces such as 82(b) and (c) on the one hand, and 81(a) on the other. Uncreas 81(a) is definite and aquivalent to first person 'will' in English which, in addition to expressing the future also implies a determination to carry out the action of the werb. (cf 'I will come' with 'I shall come) 82(b) and (c) express no more than the simple future. Units accepting this observation, we would like to base the meaning difference on some syntactic facts: the fact in this case being the presence of the cognate complement in which the warb is reported for emphasis. On the basis of this, 81 and 83 have the same meaning, while 82 has a mightly different meaning. Thus, the sementic interpretation of sentences such as these is pradictable from the presence or absence of the cognate complement, which serves to emphasize the verb.

85(a) Ans a sri ji: I am sating some yem

(b) are spe: " " " aranges

(c) " " irs spe

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Conclusion

from the exemination of the foregoing examples, one may conclude
that

(i) there are two form classes of the I-prefix + V-stee shape,
or

(ii) that there is only one form class which performs two

The criterial test for each function is this: If the form can take a preposition - no or make - for example, then it is functioning as a nominal, if not, it is a verbal. If it is verbal in function, it is also potential in meaning or interpretation.

8.4.0 THE NP and UP COMPLEMENT DISTINCTION

syntactic functions.

Rosenbaum (1967) distinguishes between Subject complements as in 86 and object complements as in 87:

- 66(a) That he came at all is a tribute to his courage.
 - (b) It is obvious that he was mistaken.
- (c) For the army to admit their inability to deal with the situation would help matters.
- 87(a) Is all know that he could not carry out the assignment.
 - (b) Early people wanted to meet him.
- (c) He condescended to be present at such a gathering.

 Although Rosenbeum distinguishes complement types by their specific complementizers, just as we do, he does not specify these complementizers in Base structure as we do, but introduces them transformationally.

 Robin takoff (1968) does the same. For Rosenbeum, all subject complements are RPs, but some object complements are MPs being dominated by a mode, MP in the Base, while others are VP complements and are under the direct

dominance of VP in the Base. That are his reasons for this distinction of Object complements into NPs and VPs?

Rosenboum's distinction is based on the following reason:

all NP complements behave like ordinary NPs under

Passive formation and Pseudo-Cleft, while VP complements

Thus 88(a) the passive form of 87(a), is well-formed, while 88(b) & (c) the passive counterparts of 87(b) and (c) are ungrammatical.

- 88(a) That he could not carry out his assignment is known by us all.
 - (b) . To meet him was wanted by many people. -
- (c) Id be present at such a gathering was condescended to by him; Similarly, the Pseudo-Claft transforms of 87(a) is grammatical while those of (b) and (c) are ungrammatical.
- 89(s) What we all know is that he could not carry out his assignment.
 - (b) * What many people wanted/was meet him.
 - (c) * What he condescended/was be present at such a gathering.

Dur main concern here is to see whether such a distinction would be well-motivated in the enalysis of Igbo; after all it does not follow that a distinction which fails to hold for English will necessarily full to obtain for the Igbo language, or any other language for that matter. For example, in a study of sentential complementation in Japanese. Nakua (1973) establishes that such an KP/VP distinction is necessary for an accurate description of this construction type thus:

As in the cese of Rosenbaum, the distinction is based on the following

Fig. 5(b)

- (a) in Fig 5(a), the directly dominating node is MP, as opposed to Pred. Phr. in Fig 5(b)
- (b) differences of complementizers: it is

 'to you' in NP complements, but

Fig. 5(a)

reasons:

'to or you ni' in VP complements.

As partial avidance in support of the above distinction, Nakes

demonstrates that the T-rules which move or affect simple MPs can also

apply to structures such as Fig 5(a), but not 5(b). The fact that

such T-rules as Topicalisation, Claft sentence formation and MP

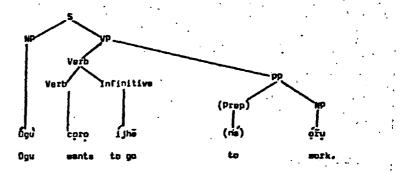
delation apply to the unit

indicates that it is an NP and that the S comp is a Noun complement embedded before a head noun. By contrast, the fact that no part of Fig S(b) can be moved or deleted by the very same syntactic processes shows that no NP is involved in this structure and that the S comp is a predicate complement embedded before a predicate.

But the situation in Igbo is different. First of all, there is no such thing as the Passive Rule in Igbo, since there are no passive

sentances in the language. Therefore, even if the Passive rule constituted a criterial test for the NP/VP distinction in English, it cannot be a disgnostic test for such a distinction in Igbo. Secondly, all sentantial complements in the language are subject to the same everent rules as Pseudo-Cleft and Topicalisation regardless of whether they function as subject or object, and although only one category of complements are subject to the optional rule of Equi-NP deletion, this fact is a consequence of the semantic characteristics of the main clause predicates involved. There is, therefore, no basis for distinction into Verb Phrase and Noun Phrase complementation in Igbo, hence all sentential complements in this language are under the direct dominance of an KP node in Base atructures.

What seems to happen is that a particular category of NP complements - the subjunctive ka/ma₁ complement may turn out at the surface as a VP-complement, if it is the output of Equi-NP triple. With the complement NP subject deleted under identity with the matrix (main clause) subject, the new subjectless were becomes infinitivized, and thus is in the relation of a complementary were to the main clause predicate, a fact which is shown by the tree diagram in Fig 5. Since only transforms of underlying NP sentential complements may have this surface structure, the NP/VP distinction in lobo is a derived rather than a Base one.



F19. 6

Chepter 9 Epilogue

One justification for undertaking a transformational analysis of a language is the expectation that it might give greater insight into language by showing how things fit together and by making some contribution to linguistic theory. This consideration has guided our approach to the enalysis presented in this thesis: strict chaervation of the language data has been our guiding principle, we have not tried to force the Igbo language data into a descriptive mould designed with Indo-European languages in mind, and which may not necessarily fit Igbo as well as it fits, say, the English language.

Yet, if linguistic traceries have any value, it lies partly in their general applicability to any human language, regardless of where it is spoken. For example, it is the case that all human languages have RP's and VP's, and that most, if not all of them, have such syntactic processes as Relativisation, Pronominalisation, Reflexivization, and probably Equi-NP Deletion. How each of these syntactic operations is formally characterised will surely vary from one language to empther.

furthermore, one of the claims of transformational generative theory is that grammar does not encerate sentence types, but also shows relation—ships among them, where these exist, and characterizes the tacit compentence of the native speaker in using his language. The native speaker referred to here is the native speaker of any human language.

The project research has been carried out with a dual purposes to provide an accurate account of Noun Phrase Sentential Complementation in Igbo, and from such an account make some useful, and possibly, general deductions about language and theories about it. In this concluding chapter of thesis, we would like to discuss some issues raised here and elements about the status of certain rules and concepts in transformational grammer. The issues concern the following transformational rules and related concepts:

- (a) Equi-NP Deletion.
- (b) Raising,
- (c) The Concept of Extrinsic Order, and
- (d) The Concept of the Cycle.

EQUI-KP DELETION

The conditions which determine the applicability of the above

T-rule have been discussed in 8.2.0:447-423. Only forward-locking

predicates are subject to this rule which in Igbo triggers Infinitivization:
and Complementizer Deletion. From the accounts of RP-Complementation

evailable to us - from English, Japanese, Akan and now Igbo - it is the

case that only verbs which impose a sequence-of-tense constraint on the

verbs of their sentential complements are subject to this rule of

Equi-MP Deletion, and the propositional content of such complements is

always open. Whether Equi-MP Deletion is optional or obligatory is

language specific, (in lgbo it is optional, but usually obligatory for

English) and does not affect the case we are going to make about the

universal status of certain rules of premaar.

What the above facts about the applicability of Equi-NP Deletion suggest is this:

Every language has got various categories of verbe based on syntactic end/or semantic characteristics, such as transitivity versus intransitivity, stative as opposed to Action verbs, at catera.

If any category of varba is characterised by a set of semantic features which have a corresponding syntactic reflex, then such a reflex is likely to be universal.

In other words, in every language, it is the category of forward-looking predicates which are going to be subject to the rule of Equi-NP Deletion and subsequent Infinitivization. We do not mean that the formal

characterisation of the above rules is going to be the same in every language, nor that every forward-looking predicate in any one language is going to be subject to them. On the contrary, it is to be expected that certain members of a category of verts may be idiosyncratic in their syntactic behaviour, and this is a common phenomenon in language. Rather what we meen is that there is a rule of language called Equi-KP Deletion, whatever form it may take in any particular language, only forward-looking predicates are going to be subject to it.

Put strongly, then the shove hypothesis amounts to saying that Equi-NP Deletion is a semantic rule, since it depends crucially on the predicates concerned being forward-looking. In other words, only semantically determined rules of grammar may have a universal status in its very wide sense, and Equi-NP Deletion is one such rula. Bach(1965:18) thuchas on this point when he speculates about the probability of Relativization as a universal syntactic process thus: "The device discussed above (the T-rules relevant to Relativization in English, Japanese and Swahili) presumably have their counterparts in every language since their function is essentially to provide a new ad hoc expression for any person, place or thing, experience, process, function or faeling that a human being may want to name."

Closely related to the infinitive complements which are the output of the Equi-NP triplet (that is, Equi-NP Delation, Infinitivization and complementizer Delation) are those infinitives associated with the antecedent of Open Conditional Constructions when they function as MP-Complements to certain Emotive varbs. But there are some basic differences inspite of obvious similarities.

With forward-looking predicates, Equi-MP Deletion triggers such other rules as Infinitivization and Complementizer Deletion. But with Emotive verbs, infinitivization does not depend on a previous application of Equi-MP Deletion, but on an Agent Deletion rule which is, nevertheless,

eptional, unless the indefinite Agent, A - "one" - is involved.

However, there is this similarity that the proposition expressed by
this type of subject-NP complement is an open one, as is the case cith
the complements of forward-looking predicates.

From the cruss-linguistic evidence from all these unrelated languages - English, Japanese, Akan and Igbo - one could conclude that any rule of grammar which is semantically determined in the sense of Equi-NP Deletion is likely to be universal.

RAISING - Raising Subject to Subject:

Subject-Raising is a rule of the Icho language, though a minor one, being restricted to a handful of non-factive Emotives which take Subject-NP sentential complement (cf 5.2.1.). There is no evidence for Object-Raising in the language, although Postal (1974) has argued for the existence of Object-Raising as a rule of English grammar.

EXTRINSIC DRDER

The argument generally given in defence of rule ordering is two-folds

- (a) that without rule ordering, certain grammatical sentences

 could not be generated;
- (b) that without rule ordering, certain ungrammatical sentences could not be blocked.

The first argument seems to lack validity (of Koutsoudas (1971, 1972, & 1973), tehmana(1972), Ringen (1972), and Bonney (1974). But in principle, there could be valid reasons for rule ordering based on the need to block certain ungrammatical sentences. However, as Bonney (1974) argues convincingly, even in such cases, rule ordering is unnecessary because there are other principles to ensure the correct results. Such principles include intrinsic ordering, the precedence of obligatory over optional rules and the concept of the cycle which upholds the precedence of cyclic over non-cyclic rules. Given these principles, the need for

extrinsic rule ordering is claimed to casse to exist, (of Kimbal, ed. 1972).

As far as Igbo is concarned, our investigation reveals that there is no mand for extrinsic rule ordering in order to block the derivation of cartainfill-formed sentences. The rules given in this thesis are unordered, and any ordering relationship emong them is intrinsic.

The analysis of Igbo presented here thus lends support to the hypothesis that transformational rules are not extrinsically ordered.

But extrinsic order is supposed to be a kind of global derivational constraint since it makes the applicability of a rule at any given stage of derivation dependent not only on the structure of the tree at that point, but on what has happened at earlier stages in the derivation.

Thus, if rule A is ordered before rule B, then after a point in a derivation where B has applied, A cannot apply even though a tree meeting its structural description is available. What prevents the application of A is something that happened at an earlier stage, namely the application of B. But given the cycle, it is claimed, extrinsic ordering can be dispensed with.

THE CYCLE

Since we have argued that given the cycle, it is possible to do away with extrinsic ordering, it seems to follow that the cycle is a necessary linguistic device in a transformational grammar of Igbo eithout extrinsic ordering. But we have argued that, although the cycle is a well motivated linguistic device for English, there is no need for it in a transformational description of Igbo. Reasons for this view have been given in the relevant section of this thesis/. En would like to deall more on this view and its consequences for linguistic theory.

It somes that the existence of certain rules of grammar can be typologically predicted. For example, Igbo, like most Kus languages, appears to have very little, if any, MP-Movement rules, spart from the rules of Extraposition, Ya Bovement and all such movement rules as are

relevant in Focus and Topicalisation. But those movement rules are distinct from NP - Movement in this important respect that they never change grammatical relations, (in the sense that Pessivization can change a deep structure object into a surface subject) and are not subject to the complex constraints such as Cross-over Constraint, the Complex NP constraint, and the Co-ordinate Structure Constraint.

The absence of Passive constructions from these languages can be predicted from the absence of the Complex NP - Movement rules.

Stablke (1970) has observed that the absence of NP-Rovement rules seems to correlate with the presence of verb serialisation for, according to him, "we find both Serialisation and the absence of NP - Movement transformations in the same languages," (Ibid. p. 95), a fact which leads one to expect that linguistic typology should enable us to predict what type of phenomena to expect from particular languages. Let us consider the above observation of Stablke in relation to what has been described as formal linguistic universals, of which the concept of the cycle is supposed to be one.

It has been shown that the absence of certain rules of grammer from a particular language makes certain linguistic devices unnecessary for that language (of 5.0.2:252-255). One such linguistic device is the cycle. The cycle is uncalled for because Igbo and typologically similar languages lack the Passive rule, and for them Raising is a very minor rule limited to a handful of intransitive verbs which take santential subject complement. This being the case, the above two rules-Passive i Raising never interact. The question then arises as to whether the existence of such rules as Pronominalisation and Reflexivization is sufficient justification for the Cycle.

However, it is also the case that the same languages which lack

MP - Movement but have Sgrielization are the once which have two

morphologically distinct second and/or third person pronouns.

one self-referring, and the other non-self-referring. Thus we have the following former

Singular		•	
√ Y• }	(1gba)	he/she/it	self-refferring
0		•	non-salf-referring
(Ye)	(Evia)	• • •	self-referring
{ ' }	:		non-self-referring
Plural	•	•	·.
{ ω <u>i</u> ∫	(1gbo)	they	inclusive !
J nun			non-inclusive
{ Yewo }	(Ewe)	•	inclusive
Leo J.			non-inclusive

R.G. Armstrong (1963) made a similar observation with regard to Idoma and Yoruba, while Kevin Ford has pointed out that Avatime makes such a contrast. It is rather surprising that the Akan group of languages do not seem to make the same distinction which is characteristin of the Kwa language group (cf Clements 1973), whereas languages outside the Kwa group - Efik, (an Eastern Nigerian language); "Eskimo, latin, "Korean and Japanese have at least partially parallel phenomena" (Clements 1973; 2).

It happens to be the case that the group of languages which lack

NP - Movement and have Verb Serialization also have two separate

pronouns for self- and non-self-reference, or for inclusive and noninclusive use. Since these languages lack the Passive and Raising rules,
and consequently have no need for the Cycle, they will not need the

Cycle to determine their chain of co-reference. It will not even be
necessary for the description of such a language to resort to the use
of referential indexes. A simple feature specification will ensure that
lexical insertion matches a superordinate NP with the appropriate
self-referring or inclusive pronominal form in the embedded clause.

For example, the Igbo third person pronouns will have the following specifications.

If lexical insertion is sensitive to these features, then the chain of co-reference will always be maintained, and the right meaning ensured. As far as Igbo is concurred, only the thirdperson is involved, whereas in other Kwa languages such as Ewe, both the second and third persons are involved. Admittedly, these features are semantic, and so is the problem of reference. The specification of these features as part of the lexical entries is in keeping with the view now held (of Keepson 1974, and Eccawley 1972) that if the so-called selectional restriction features are seen as inherent properties of lexical items, then the need to see them as a syntactic device will cease to exist. Since the chain of co-reference in Kwa languages can be effectively determined in this simple way, the need to invoke an otherwise unmotivated principle of the cycle will not arise.

The implications for linguistic theory of the foregoing discussion are as follows:

- (1) Languages which have no relation-changing NP-Movement rules have verb serialisation.
- (2) Languages which have no NP Movement rules have no need for the Cycle.
- (3) Languages which satisfy the above two conditions also have two distinct pronoun forms in the second and/or

third person for self- and non-self-reference, inclusive or non-inclusive use,

- (4) The Kwa Language group satisfy the above conditions.
- or it it is a universal principle, universal in this sense must be typologically defined.
- (6) It seems to be the case that universals of language are those which are semantically determined, such as Equi NP Deletion, Relativization and Pronominalisation.
- (7) The above observations call (or a distinction between 'Absolute' Universals that is, those universals which are likely to be found in all human languages such as Equi AP Deletion, Relativization and Pronominalisation, being rules of language which are semantically determined; and 'Relative' Universals, such as the Cycle and Extrinsic Order, which are likely to be either language specific, or language group specific.

Appendix I.

Chapter 18

Towards a Coherent Theory of 1960 Function Bords:
Conjunctions, Complementizers & Prepositions
10.0.0 Introduction

The proposals in this chapter are tentative; here we are only suggesting a possible analysis of most function words in Igbo based on the synchrchic evidence available to us. In particular, we offer some suggestions as to how to reconcile the apparently irreconcilable instances of No in Igbo: there is strong evidence in support of the view that the so-called here prefix and here relative are one and the same thing, being a form of the auxiliary verb ina which, along with a following verb-form expresses the Habitual or Progressive meaning. Similarly, here conjunction (i.e. no in the structure NP - NP) and No complementizer(i.e. no in the structure no S) along with No preposition are all associated with the same auxiliary inc. In other words, where we have made any distinction, it is a featural one. No have adopted the same method of approach for other conjunctions and complementizers such as man and analysis.

Our approach is supported by the following facts of Igbo syntax.

First, Igbo is a much more 'verb' language than, say, English. There the English language employs such function words as 'to', 'from', 'with', et cetera, Igbo uses definite verb-forms. Secondly, some of the conjunctions in Igbo, (the asmosyllables in particular) such as al', the and ma', and ma', and ma', can be shown to be associated with certain Igbo verbs, and for some of these conjunctions, it is possible to establish a transformational relationship between the structures where they function as conjunctions, and those where they function as pre-cositions, (cf:0.2.0: 472-77) Thirdly, certain verb-forms are increasingly serving a

¹ See Green and Tore (1963), p. 165 for this analysis.

prepositional function, that is, they occur in structural positions where English exploys prepositions. The forms in question are:

These, along with such other forms will be established as werb-forms in section 5.4.5. Their existence in the Igbo language shows that Ne is not the only preposition in the language. There are at least five other werb-forms which function in structures where English normally employs prepositions.

Dur argument in this chapter will centre on the following monosyllables:
si. Na ka, ma, & ma2

Although we have included $\frac{maks}{maks}$ on the basis of its substitutability for ma_1 , we have not generally considered such disyllable conjunctions as: $\left\{ \begin{array}{c} khaoa \\ thima \end{array} \right\} \quad - \quad \text{'rather than, instead'}$

which we consider to belong to a different subcategory... Their use is illustrated in the following examples:-

- I (a) {Khama} wka fug, anyi kwushi okwu d.

 Instead trouble come out, me stop talk this:

 Rather them provoke a row, let us suspend this matter.
- (b) {Khéza o na ekwú ezhi-okeŭ, ya abeme akhas Instand h he is telling truth, he stert crying:

 Instead of telling the truth, he started crying.
- (c) Anyi lawani, khama okeu na eru juka De start going, you people, instead trouble come out. Let us start going sway, you people, instead oftrouble ensuing.

- I (d) Khame ye, sadhy gwy.

 Instead of that, people finish: Rether than tolerate
 the mituation, let us all perish.
- (e) Khama ite shiri, nkhu gwù (idiomatic Instead of pot remain on fire, firewood finish: I had better find a solution to my problem, even if it means exhausting all my resources.

For these two conjunctions, there seems to be no traceable relationship, no matter how remote, with any Igbo werb.

10.1.0. function Words as Predicates

The term, predicate, is used throughout this dissertation to denote the class of items which, on the basis of morphological characteristics, can be called verbs or verb-forms. These include auxiliaries as well as non-auxiliary verbs. By verbs, we mean the obligatory element in the Category, VP, (Verb or Predicate Phrase), which can be inflected for tense or aspect (cf 2.3.0 et seq.) with such affixes (prefixes & suffixes) as are associated exclusively with verbs. However, auxiliaries in lgbo are tense or aspect markers, and in that sense are not obligatory elements in a VP, except when the tense or aspect they help to express is called for. In lgbo, the Category, Verb, is identified by the citation form beginning with a harmonizing, close, front, youel prefix, I-, as in the following examples:

This auxiliary is distinct from the other two suxiliary werbs in the language in that it never occurs as the main and only werb of an Igbo clause, rather its presence always presupposes the presence in the structure of a following werb-form as in the following examples:

- oshishi Dikhe Dikhe used to be a Dikhe
- drinking wines Do you mant to drink? Contrast (d) with the following (a)
- mai? wine?: Do you drink (wine)? drink You

êzhí

Naa NZ. Keep on sweeping the compound.

From 2(a-f), it is obvious that the auxiliary werb ina does take some of the inflectional suffixes which are only associated with Igbo verbs, such as -ry time and the imporative suffix - and the open vowel suffix symbolized as O (cf 2.3.2). It will also take the negative suffix -ghl/hII as well as the perfect suffix -1A

náhli 830 anvá

(h) 'Cgu' ena(na) (wine) has kept on drinking

(Greeting)

doings Wall done, Keep it up. Ibe o Has Ibe continued to keep up with ejhéle zhyā his trading?

Tobo Auxiliary Verbs (ii) ill and

There may be many more members of this class. They are distinct from suxiliary (i) - ins in the eggs that each of them can function in a nonsuxilizry capacity, that is, as the only verb of an independent clause in the languages

- Onuoha Qnuoha has/is holding
- (b) Njókhu ¥∫okhu Njekhu MOUBAT
- Noi . 4(a) madhu · aqachaala People go all have market: People have all gone to market.
- lbe (b) ekeukuo Gara lbe went to school.

Examples 3-4 show the above auxiliaries functioning as main and only werb in the sentence.

In addition to the above, they also function as auxiliaries as in the followings

- 5(8) Thing it is to you good? Do pleasant things give you pleasure? Are you attracted to things that are worally upright?
- (b) You eat cocoyami Do you est cocoyam?
- 6(a) Aga shys W111 1 market tomorrow: I shall go to market tomorrow.

In this type of construction involving the perfect form of na, the following verbform is also in the perfect. However, as (h) above shoes, the perfect marker, -na can be optional.

6 (b) $\widehat{\text{Dgu}}$ gs $\left\{\begin{array}{c} \widehat{\text{ETU}} \\ \widehat{\text{TU}} \end{array}\right\}$ which is the place this:

Our will build his house here/in this place.

It is to capture this dual function that these two werbs and any others like them will have the lexical entries:

• aux

whereas the other auxiliary ina has

+**V** + aux

In other words, these syntactic functions are described in terms of feature specifications which indicate whether these werbs can be used only as auxiliaries (as in the case of ina) or as non-auxiliaries in one capacity (i.e., -aux) and as auxiliaries in another (i.e., -aux).

Having defined ina as an auxiliary werb, we shall devote the rest of this chapter to a justification of our claim that all the instances of ma in Igbo are associated with this auxiliary werb ina, and that Igbo monosyllabic function words are associated with certain Igbo werbs. We start from the more obvious cases to the less obvious and more difficult ones.

The Complementizer Si

In chapter 4 (4.1.5) we have argued that the complementizer signs the unsuffixed stem of the verb isi - 'to say, declare, ellege', and that its function as the only permissible complementizer with embedded imperative structures is due to the fact that it is a verb of saying, and that it can introduce the actual words of a speaker as though in quotes (once the necessary pronoun changes have been made). Let us now examine ke and the likely verb associated with—it.

10.2.0 Ka & Ma Subjunctive Complementizers

Now consider the complementizer <u>Ke</u> and its relationship with <u>Kes</u>, which meens 'please, be willing.' In order to see them in their true perspective, let us cite the following three forms of the auxiliary warb <u>ine</u>.

Citation form	Imperative form	<u>Stem</u>
ina	Nam (+ verb form)	. No.
, _	Kan	. Ka

Note that the imperative form of ina never occurs alone as does kee, but only in the following type of example:

- 7(a) Naa dza ulo (vb iza class 2)

 Go on sweeping the house.
 - (b) No(a) er! hwa (vb. irī clasm 1).

Go on esting (something).

The low-tone vowel suffix is obligatory with Tone class 2 verbs, but optional with Tone classes 1 & 3 verbs.

The identity of tone pattern of the imperative form and stem of the above two items does not strike us as mere coincidence, especially as their Imperative/Hortstive tone pattern is not one that we would normally associate with the generality of Igbo verbs. The reverse is, in fact, the norm, as the following examples shows:

The above examples show that for some speakers, it is a uniform low tone for all verb-stems, be they class 1, 2 or 3 verbs; for other speakers like us, it is a low-tone stem for classes 2 & 3 verbs, and a high-tone stem for classes 1 verbs. But for all apeakers, the vowel suffix (where there is one). Is always on a high-tone, never on a low one. Obviously Non and Kon behave

irregularly with regard to their tone pattern in the Imperative or Horistive. But whereas ina exists as an auxiliary werb (established as such on the basis of its morphological and syntactic characteristics, [of p.23]fd Kee is defective, surviving only in this imperative form, with the meaning 'please, be willing'. Thus, it lacks the citation form 7ika which would correspond to ina above. Kaa has the following equivalents:

> In English please

veuillez French

· Cerman Ritte

In dischronic, if not synchronic, descriptions, the above are verb-forms.

Let us now exemina the following sentences in which Kea and Ke function.

- B(a)(i) recover: Please God, let him recover/may he recover.
- Káa, ya (i)(d)obakhee

· (11)

bring about, please he recovers Kay God bring about, his recovery.

- (c)(i)
- (11) please, he return I wish him a safe/peaceful return.
- (d)(i) . Cere
 - (11) please. I come back: Wait until I return. Wait.
- Kas (e)(i) start going: May I got Please. I

from these examples in B(s)-(s), it is observable that kan and ka function in similar, if not identical structures - each precedes what me have described as the Subjunctive Complements, the only difference being that kan is used generally in clauses of direct entreaty, whereas ke is used elsewhere. Furthermore, kee generally takes the separable pronoun subject - mu, ya et cetore, whereas ke is normally associated with the inseparable ones such as \pm , and the harmonising 0, at least in my dialect.

It is important to point out that if nouns rather than pronoun subjects are present, and if the pronoun subjects present are in the plural, there is no difference whatsoever between kewand ka clauses, as 9(e)-(c) shows

Please, we start going: Let's start going.

- Please Ogu romember what I told May Ocu remember what I told him.
- (c) . I wish Dou to remember what I And lestly, the meaning of the structures is not affected whether kas or ke is the conjunction.

From the above syntactic and semantic facts, we conclude that there is a very close relationship between kee and ke. We suggest that ke is a defective verb lacking the citation form ike, and existing in its Hortative form in the sense of the English word, please.

Our hypothesis is that it is this same ke (associated with kee) whose syntactic function has been extended to the following

- (1) EXTRAPOSED CLAUSES:
- 10(a) Dikhi that Dikhe is looking for. the white sheep

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10 (b) 0 wykwani okwu di mkpa ka e na ekwu.

It is an important matter that is being discussed.

For speakers of our dislect, however, the popular equivalent of 10 (a) and (b) are 10 (c) and (d).

- 10 (c) 0 mg athyry oca wy hee Dikhe cooha
- (d) 0 wukweni okwu di skpa wu has a na ekwu.

 Thus in place of ka our dislect uses the verb isu followed by the proform nee. The gradual spreading of the ka versio is, wever, a noticeable phenomenon.

(ii) TECHERAL CLAUSES

The following use of 'ka in Clauses of Time should also be noted: >

I saw those people { while when they were returning as

As in the previous examples, this dislect employs the alternatives to ke enclosed along with it in braces in examples 11, and this explains the fact that in this dialect ke never occurs in sentences such as 10 & 11. To may also point out that the distributional characteristics of ke and kee is likely to vary from one dialect to another.

Thus far, we have shown that the conjunction ka is associated with the defective verb kaa, and that they function in similar syntactic structures with a definite and consistent meaning. Since there is no ka preposition in this dialect, the question of relating the conjunction to the preposition does not arise.

ma, Complementizer & Preposition

We now come to consider the complementizer $\underline{na_1}$ with which \underline{ka} is in free variation in certain Igbo Purpose constructions. The following exemplify such constructions:

- 12(a) Abyara m ka enyi kwuzhie

 Come I so that we talk right: I came for us to
 enort it out.

 - (c) Azuru hi ndi eze spiriko ka ikpe lasta hi sa spiriko k
 - (d) Gadeara a ozhi a { ka } a zutara | gi igec

Run do for me errand this so that I buy for you cycle:

Do go on this errand for me so that I might buy you a bicycle.

As can be observed from the foregoing examples, ke and me are in free variation. Now compare 12(s-d) with 13(s-b).

- 13(a) Nwa-aghogho o na acokwani ka i luwa ya Young girl this is desiring that you merry here This young girl wants you to marry her.
 - (b) 0 kheo se anyi lemaches ya

 She intends that we look well complete her:

 She wants us to have a thorough look at her.

In sentences such as 13(a) and (b), ke and see are not interchangeable in this dislact. The explanation for this is the presence of the verbe ion and ikhwo in 13(a) & (b) respectively. In this dislact, the former is marked for ke and the latter for me. The free variation of the two complementizers therefore has its constraint: they are in free variation in surface structure just in case neither of the predicates is present. The optional deletion of these two optative verbs and the constraints governing such a deletion are discussed in chapter 8(8.1.0)

It is the violation of the co-occurrence restrictions between ico and ikhwo on the one hand and ke and me on the other which accounts for the deviance of 13(c) & (d).

Apart from the fact that each of these two verbs selects a different complementizer, their syntactic behaviour is similar; each of them introduces a subjunctive complement as object expressing the same type of seaning these

I came so that the doctor might see me.

In view of the identical behaviour of ka and ma in subjunctive complementation, we assign the same status to both of them. Since ka has been shown to be essociated with an erstwhile verb kab, we also essume that may must be dischronically described as a verb.

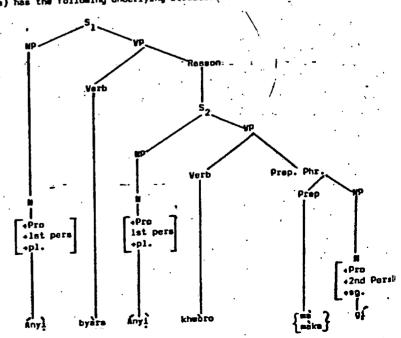
Be, in Prepositional function - (Mb NP).

Our Pa-rule 10 (cf 4.2 p. 208) shows that Remmon can be re-written as

Examples of Igbo sentences illustrating the first of the above structures -

to above. The second alternative is the structure which involves an S; it is this atructure that is relevant here. The following are illustrative examples:

15 (m) has the following underlying structure:



fimire 1

kheorá

From the above string, we

(by obligatory Equi-M deletis 15(6) byers (by optional optative verb deletion) (c) eske_

gī (by optional Comp. delation) 15(b-d) are each mell-formed, and (d) is the same as (a). Thus, with kheoro as the verb of the sentence directly dominated by the Resson mode, after the obligatory deletion of the subordinate subject NP under identity with the main clause subject NP, we can optionally dolete either kheoro to derive 15(c) orrma) to derive 15(d).

Similarly, the following 16 & 17 (b-c) are the output of the same transformational rules:

16(.) & harries

(b) khwará

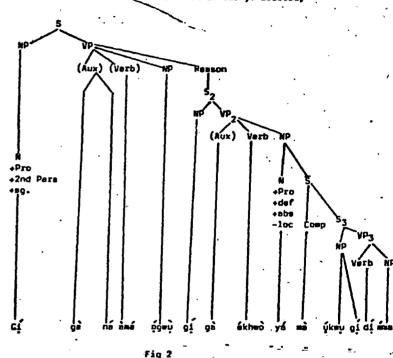
regarding stomach bananas

17(0)

(b)

(c) You will keep rubbing medicine this regarding foot yours You will keep rubbing this medicine for the sake of your foot.

It must be pointed out that, sentences such as 16 & 17 are derived from a deep structure such as fig 2 in which the work khworo takes a sentential complement (of \$.1.0: 409). But the VP of this embedded subjunctive complement has been deleted, given the appropriate contexts that is, VP3, the verb phrase of the lowest sentence Sq. This type of delation (the constraints governing it are not yet clear) does take place in a number of Igbo structures: in causative constructions and in Purpose clauses. It is the WP that is sleave deleted.



a curious situation in view of the fact that Capping in Igho rarely involves verb deletion. However, from these examples, it is obvious that surface Prepositional phrases as in 16 & 17 do, in fact, derive from underlying subjunctive complements efter the optative warb ikheo. In other words, the ma subjunctive complementizer and the ma preposition are one and the same thing in underlying structure.

The implication of the foregoing analysis of ke and me is that we are: making a definite distinction between the Causal/Purpose ma and the other homonym me sesociated with Yes/No questions when sebedded as NP-complements. This is precisely what we are claiming: judging from the different moods which their respective structures express in both formal and semantic terms, one is justified in treating them as two separate items, hence the use of the subscripts 1 \pm 2 to distinguish them. Moreover, the interrogative $\frac{1}{1000}$ has no corresponding prepositional function as $\frac{1}{1000}$ has.

10.3.0 Ma Interrogative Complementizer

It seems that, unlike ka & man for which we have argued a case for verb status, man interrogative complementizer is only a verb complement to a known light verb. Consider the following examples:

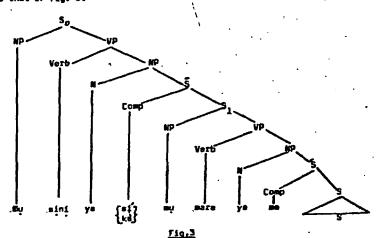
- 18(a) Asini m (mara) ma o laala.

 Say I know whether has he gone: I am wondering shether he has gone.
- (b) Akponi m (si) (marm) mb i mu enys

 Thinking I may know if you are awake:

 I am wondering/considering whether you are musks.
- (c) Eceni m (si) (mara) mà unu gara agai Think l say know if you ments l was trying to figure out whather you did go:

The above examples 18(s-c) derive from an underlying structure such as that of fig. 3.



To the above strings, we apply the following T-rules in order to derive manteness such as 18(s-c); non-essential details have been omitted:

- (i) Asini m ya sai au marm ya ma S (ka) (by obligatory Pronoun Post-position)
- (ii) Asini m ka mu mara ma S (by oblig. ya Deletion, 2 applications
- (iii) Asini m mu marm ma S (by obligatory Comp. Delation)
- (iv) Asini m marm me 15 (by optional Identical AP deletion)
- (v) Asini m sara ma S. (by phonological rules)

 From examples 18(a-c), it will be observed that mere is optional; in other words, it can be deleted without any loss of meaning to give (vi)
- (vi) Asini m see S.

 What we have just illustrated is the derivational history of mag interrogative complements in Igbo. In our dislect, the following sentences transformationally related to those of 18 are commonly used to express doubt.

 19(a) Ma o lable : Could be have gone?
- (b) (Mars) ms o navions r Perhaps, he is dead.

 In embedded Yes/No questions, however, the shorter version with mars deleted is generally preferred, thus:
- 20(a) I cani (ai) ma m m abiri gi?

 You think then saying whether I am age your Arm you then wondering whether I sw your age/Are you presuming that I am your age?

Our hypothesis is that ma interrogetive (ma_2) , like $ks \ 4 \ ma_1$, is also a predicate which complements the verb $\frac{ms}{2}$ 'to know' and in combination with it express such assnings as doubt. 19(a & b) show this fact. The fact that

such an expression as mars me can be used independent of a matrix clause is an indication of the closeness of the two items. It enems that me was first and foremost a complement to imp before this syntactic function spread to other verbs of the language which can take yes/no questions me complement. Once this syntactic function got extended to other verbs, of the language, it then ceased to be the unique complement of imp that is originally eas, and as a consequence, mars became optional, hence the possibility of deleting this verb of 'knowing' in interrogative complementation.

All this explanation may sound far-fetched, but at times irregularities in synchronic data do make sense if seen in their historical perspective.

In the remaining part of this section on maginterrogative complementizer, we want to see whether this complementizer has any relationship with such other homonyms in the language, as

Disjunctive

103.1 Ma Conditional & Temporal

Consider the following sentences:

(b) Ya bya, gua a .

If he comes, tall as.

What shall I do, if I see him?

21(d) <u>M hou ya</u>, m go ime girî?

If I see him, whet shell I dc?

Note from the foregoing examples that as is obligatorily deleted whenever the conditional clause is preposed - that is, whenever it appears in initial position as in (b) and (d). Now let us compare the above conditional constructions with the English counterpart: "I shall punish him, if he comes late". This can be paraphrased as "I shall punish him, depending on whether he comes late or not". Here as in the Igbo examples, we have a dependency relation as between an antecedent and its consequent as in logic, thus

$x \longrightarrow Y$ (if x, then Y).

Although the tone pattern of the underlined Igbo conditional clauses (in 21) suggest the contrary, (of the fact that all pronoun subjects in ma interrogative complements are on low tones) there is a lot of syntactic reasons to justify relating ma conditional with ma interrogative. In order to establish these syntactic reasons, it is necessary to give the full form of conditional constructions of the type given in 21 above.

- 22(a) A si(i) na o ga abya, kadu has a ga sad If one says that he will come, what thing I shell do:
- (b) A si na o byers abye, kedy hee a gers enf?

 If he came shat should I have done?s

 If he had come, what should I have done?
- (c) A ai no o byele, kedú hez m gers eme?

 If he has come, what am I going to do?

 If he had come, what should I have done?

It will be observed that with what we describe as the full form, various warb forms (tenses/aspects) are possible in the as conditional clauses; in the absonce of the full form, only the open condition 3

³ Conditional constructions are discussed further in chapter 6(6.2.0) when the relationship between questions (Yes/No type) and conditional constructions is expained in greater detail.

(simple present/future tense) is possible. Note also that from these full forms, what we underlined in 21 as the conditional clauses represent Na sentential complements which are the NP objects of the warb isi 'to eay' but with this difference that the propositional content of this Na-complement has been cancelled by the fact of the construction being conditional. The fact that these conditional clauses are some sort of Na-complements explains the tone pattern difference observable in pronoun subjects in mainterrogative complements on the one hand, and conditional clauses on the other. However, despite this tone pattern difference, if the conditional clause is embedded as an NP, then it is realised as a main S structure in which pronoun subjects, if any, have exactly the tone pattern that is associated with Yes/No questions, that is, low or low -low tone pattern. Thus, 23(a) & (b) are both realised as main interrogative NP complement.

23. (a)



(p)



As we observed in 4.3 (p. 214) mood and complementizer selection are mutually dependent, we can predict one from the other.

In addition to the above evidence, there is yet another syntactic justification for relating conditionals and Questions; this evidence is furnished by the way that <u>origin</u> 'any' co-occurs with interrogative, conditional and negative atructures generally, but not with affirmative constructions.

24(b) Gem e se onye oeule kuru éko
Tell se { if } enybody knocked.

25(a) 0 nwere onye owule byaraleni? t

It has person who it be who has come: Has anybody come?

Is there anyone who has come?

(b) Ajugha m ya ma o nwere onya owula no n'ulo.

I ma asking him if there is enyone et home.

If the above 24-25 are compared to the following 26, the deviance of the latter are thus understandable.

26(a) • 0 nears once outs byersland • There is - anybody who has come

(b) • Ahsuna m na o nears once osule no n'ulo.
• I have seen that there enybody et home.

(c) • Ges a na onya oeula bya.

* Tell me that anybody come

Unlike 24 & 25 which either question or seek for information, those of 26 make an effirmation, and their deviance can be corrected by deleting from the sentences the item <u>orule.</u> On the basis of the foregoing syntactic

⁴ It is necessary to point out that there is much more to the syntax and semantics of <a href="https://oranje.com/oranje.

⁽i) Gea m na onye ownle kuru ske n'uzo Tell me that everybody knocked et the door.

⁽¹¹⁾ Ahwyna m na onya owula no n'ulo l have seen that everybody is at home.

⁽iii) Gwo e na onye owile byers.

Tell me that everybody came.

These examples show that in Affirmative constructions, the same item means 'every', but 'any' in negative, conditional and interrogative structures.

The specific meaning is thus determined by context.

characteristics, we therefore group as conditional together with as interrogative. It is not a were coincidence that 'if' and 'shether' are complementizers in English, as Bresnam (1978) has convincingly argued, although one might counter by claiming that there are two 'if's' in English — a position which would make a general statement about English conjunctions difficult, if not impossible.

However, the Igbo conditional & temporal conjunction ma and the Interrogative ma can all be subsumed under ma, on the basis of syntactic similarities, and paraphrase relationship - the fact that none of these two clause types - Conditional and Interrogative clauses - affirms or asserts a fact.

N.3.2 The Disjunctive 🗪

The $\frac{n^2}{n^2}$ conjunction being considered here is found in the following type of sentences:

One called them call (but) they refused to come:
They were called, but they refused to come.

(b) Meanyi s tofuru stofu [mans] ihu ya joro njo

Moman this is tall come/out (but face her is ugly.

This woman is pretty tall, but her face is ugly.

As can be seen from 27 (a & b) we and mena can be used interchangeably just in the same way that ma and make are in free variation with each other. The meaning expressed by ma in 27 is what Robin Lakoff (1971) describes as "denial of expectation", a meaning which is not necessarily due to the conjunction as much as to the juxt position of the two clauses in 27(a) or (b). The obvious question to ask is whether ma in 27 is related to mag interrogative conjunction.

We would like to enswer positively that they are related, despite the fact that examples 27(a) & (b) contain co-ordinate structures, while the down of mag is subordinate constructions. This being the case, the reader with an analytical knowledge of English might wonder at our attempt to equate a subordinating conjunction with a co-ordinate one, since such a distinction happens to be for English the right peg on which to hang the corresponding distinction into co-ordinate and subordinate clauses.

The traditional distinction between co-ordination (conjoining) and subordination (embedding) is syntactically motivated and, most probably, a universal one. In most languages of the world, especially the Indo-European group, the above distinction happens totally with the subcategorisation of conjunctions into co-ordinating and subordinating sets. Thus, while the co-ordinate-subordinate clause distinction may be universal, the corresponding distinction into co-ordinating and subordinating conjunctions may only be language-specific, and therefore lacks a universal status.

Igbo distinguishes between co-ordination and subordination, but a corresponding distinction into subordinating and co-ordinating conjunctions is not necessarily the right peg on which to hang such a distinction in the language for the following reasons:

- (i) there are only two conjunctions in Igbo which may be described us co-ordinating; they are ma 'but' and na 'and'. These are homonymous with the corresponding subordinating ones (complementizers); moreover, they have an identical tone pattern all being low-tone monosyllables. It is not mere coincidence that this is the situation in the Isnguage.
- (ii) There are other criteria for distinguishing between co-ordinate clauses and their subordinate counterparts viz - the symmetry between co-ordinate structures on the one hand, and on the other, the asymmetry between a main clause and the subordinate one

depandent upon it.

- query)

 (111) Igbo subordinate constructions are characterised by the general presence of specific conjunctions, while co-ordinate ones are not so-characterised. For example, sentence conjoining in Igbo is by means of serial constructions involving no conjunction whatsoever either in deep or surface structure, but subordination does obligatorily involve one conjunction or another in both underlying and surface structures, elthough some of these conjunctions may be optionally deleted in surface structure given certain conditions (cf.7.2.0 p.347ff & 8.2.0 p.447ff)
- (iw) A knowledge of the specific conjunction involved in an Igbo construction is not a sufficient indicator of the construction type in question, it is still necessary to know whether this construction type is a co-ordinate or subordinate one. This contrasts with the situation in English where "end" & "but" will always introduce co-ordinate structures, and "if", although" et cetere will invariably mark subordinate clauses.

Se conclude, therefore, that there is no need to distinguish in Igbo between co-ordinating and subordinating conjunctions.

Our conclusion, though tentative, is as follows: There are two types of me in Lobo

(i) Ba __Purpose conjunction in free variation with ka. This ma conjunction is transformationally related to the preposition mail.

(ii) %a' interrogative conjunction; under this conjunction are subsumed an conditional conjunction.

en'temporal " , and

mana. Both mana are optional elements in conjuined

10.4.0 The Na's in Icho .

Having first disposed of less complex cases, we now come to a thorough examination of the various Na's in Igbo - a much more difficult task.

Our claim is that all the Na's in Igbo are associated with the auxiliary verb, ina (cf. 1.0 p.). Before we go on to the task of justifying this claim, let us first of all try to reconcile all the apparently irreconcilable instances of Na'in the language. After we have shown them to have one underlying source in deep grammar, then we shall go on to justify the view that the auxiliary verb ina is the most probable source of these na's and suggest how the grammar should cater for them.

10.4.1 The Auxiliary: Verbring was a

In addition to examples 2(a-h) (cf f0.1.0 p.4.64) the following help to bring out the auxiliary function of the above auxiliary verbs 28(a) 0 na abya. (Na present progressive, affirmative)

He is coming

- (b) u nahii sbya (Na present prog., negative)

 He is not coming
- (c) 0 naers szú shya (Ne past prog. affirmative)

 He used to buy market. He used to be a treder.
- (d) 0 nonitri ezu enve (Na past prog. negative)

⁵ There is, however, a cetagory of co-ordinate sentences which involves the conjunction Na 'and' as in the following:

Ogu and his wife came
The derivation of the above Igbo sentence is fully discussed in
[0.4.3 p.149] ff , where NP na NP structure is shown to derive from
deep structure conjoined sentences.

28(e) Ye no age shye, o ga izufu umu ye(Na conditional)

If she keeps going market, she will be able to train children hers

If she keeps on trading, she will be able to bring up her chi iren.

- (f) Gi na eme otho o, o dii mma (Ne conditional)
 If you keep doing manner this, it is not goods If you keep on behaving this way, it is not good.
- (g) Ma oʻ mehii agaʻ ahya, oʻ gehii izufu

 If she does not go market, sha will not be able to train

 www ya. (Ma conditional Neg.)

 children her: If she does not go on trading, she will not be

 able to train her children.

In the foregoing exemples, it will be observed that the tone of the auxiliary verb na has waried from one clause/sentence type to enother: It is low in progressive (past & present) affirmative, but high in the corresponding negative. It is uniformly high in conditional constructions (affirmative and negative). Despite these tone variations dictated by context, we are still dealing with the same underlying verb ine.

Now consider the same auxiliary in relative clauses:

He sho goes to market in time returns in time.

Note that there are two permissible tones on ma in 29(a) above; a low tone ma followed by a low tone prefix, or a high-tone ma followed by a high-tone prefix on a downstap.

The clothes which Ogu wears are usually clean;

29(b) reveals yet another permissible pettern - a high-tone me

followed by los tones on both profix and the following verb-fore, regardless of the class of verb concerned. (of examples 31-32 for explanation).

The tone on <u>na</u> will vary according to the type of relative clause being considered. For example, in Relative A type, we consistently get a high-tone <u>na</u> followed by a downstep vowel prefix on the following werbform, as in 30(e-e):

Rel. A

-30(a) Dikhe na agbe agba . : Dikhe who wrestles/Dikhe the

- (b) Neokho na ezu chi ... : A san sho steels ...
- (c) Okha madhu na sru ela .. : An old man who defiles the land: a dishonest old man
- (d) Onye ukwu na <u>ezu</u> oh<u>i : A big man who steals.</u>
 In Relative B, on the other hand, the tone on <u>no</u> is penerally low,

and the vowel prefix will be high for Tone class 2 verbs, but low for members of Tone classes 1 & 2 thus:

Rel. B

- 31(a) Use m no eti ... The clothes that I wear ...
 - (b) Ébe Ogu na aga (The place) where Ogu goes ...
 - (c) Ogle Dikha na afu (The time) when Dikhe goes out ...
 - (d) Vio " aza The house which Dikhe is seemping.

But a certain degree of variation is also possible in Rel.B clauses, though it carries with it a semantic shift. For example, any of 31(s-d) may have a habitual or progressive interpretation; thus, 31(s) can be translated as either (i) or (ii) below:

- (i) The clothes which I wear (habitually) or
- (ii) " " I am mearing (on-going action)

 But with 30 or the following 32, in which the auxiliary is on a high tone,
 only a habitual meaning is possible:
- 32(a) Dee a na eti (vo cl.3) the cloth which I wear
 - (b) Ebe Day ne sas (" " ") where Day goes ...
 - (c) Okeu na o keu (= =) what he says/the way he telks.

32(d) Ulo ne o zz (vb cl.2): The house he sweeps

(e) Iri no o' ri (" " 1): The food he este

Observe that in this type of relative clauses in which Ma is on a high

tone, all the three classes of verbs are on low tones as if they were

all members of tone class 2. This tonal behaviour of verbs occurs only
in Relative B Affirmative, never in the Megative counterpart.

In the following idiomatic expressions in Igbo, the same tone pattern is observable:

- 33(a) (Na) ebe no o byale, snyi . lawani

 In place where he has come we go away then:

 Since he has come, let us go away, then.
 - (b) (Ne) ebe Ada m na aheuna m, ya gawa Since daughter my has seen me, she start going: Since my daughter has seen me, she can set out on her journey.
 - (c) (Ma) ebe na o mutachaela, ya kworoni gawa Since she learnt complete, she drive go on:

Since she has mastered the art of driving, let her drive on.

Note that in the idiomatic expression, <u>Ha ebe</u> 'since', the <u>Ne</u> is optional.

In Conditional as well as in Relative clauses <u>Ne</u> is generally on a high tone. This fact does not make it different from the low-tone Na elsewhere any more than the high and low-tone <u>qa's</u> are different verbs in the following 34s

- 34(s) 0 gare shyer He/she went to market .
- (b) Ya ga ahya ...: If she goes to market ...
- (c) Onve gars shys : He/she sho sent to market
- (d) Koki na aganii ofus Koki who did not go to work.

 The essence of Green and Igwa's (1963) study of Igbo verbs according to

subject werb forms is to cepture the tone patterns required by specific clause types in the Içbo language. One and the same werb manifests different contextually determined tone patterns; therefore, what we have been examining here is not two different Na's, an auxiliary Na' and a relative Na', but one underlying auxiliary verb whose tone patterns, like those of other verbs in Içbo, are structure-specific. The high-tone Na' in relative clauses is one and the same verb as the auxiliary Na'. We have shown in 6.1.0 page 313—that relativization in Içbo will include, among others, a morphophonemic rule of Na' insertion in the appropriate structure.

10.4.2 _ The So-called Na Prefix

From our paradigms of relative clauses, negative (cf 2.4.5. it has been shown that what had hitherto been analysed as a Na prefix is indeed the same auxiliary verb ina, which is an obligatory element in negative relative clauses thus:

- 35(a) Ndi mera her a guare hi nodi ebe a
 Those who did thing one told them stay place this:
 Those sho did what they were told, let them stay this side.
- 35(u) Mdi na smehii hwe a gwara hi nodi aba shi
 Those who did not thing one told them stay place that:
 Those who did not do what they were told, stay that side.
- 36(a) Onya na eru ala, ya neukwaa.

 Person who desecretes land, he die off:

 Whoever desecretes our land, let him die.
 - (b) Doys no shell sru sle, ys ensuing

 Person who does not desecrate land, he do not disc

 Whoever does not desecrate our land, let him not dis.

⁶ For a detailed examination of Rel. A & 8 clauses see Green & Igws (1735 p. 102-104 & 130-133).

It will be observed from 35(b), which is the negative counterpart of 35(a), that relative clauses negative require an obligatory ne sumiliary, relative clauses whose warb is the sumiliary werb-form are no exceptions to the above rule, as 36(b) shows. We therefore conclude (i) Na relative, and the so-called thet

(ii) We profix

ere not distinguishable from Na the suxiliary werb. In the dislect being described here, the auxiliary Na is an obligatory element in the varbform of all negative relative clauses, although it may be cotional in the Ohuhu dialect described by Green and Igue (1963).

10.4.3 Na Conjunction and complementizer

In section 10.3.2 p.484.485. we have argued that there is no need to subcategorise igbo conjunctions into co-ordinating and subordinating. sets because of the overlapping in their syntactic behaviour: while some conjunctions such as ai and ka function only as subordinators, others such as No and ma may function as either co-ordinators or subordinators. for the same reasons given in the section referred to above, the distinction between complementizers (subordinators) and conjunction(co-ordinators) is not a revealing one.

We observed (of foot note 5 p.485) that only one category of conjoined structures in Igbo requires the conjunction ma; this category of conjoined sentences is illustrated by the following examples 37(a-b) 37(*)

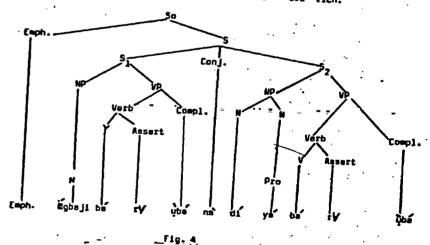
father and

37(b) Joy laughter

Although 37(a) & (b) show that the conjunction na occurs in the structure NP - NP, the above examples represent only surface forms which can be shown to derive from deep structure conjoined sentences via Conjunction Reduction. For example, the following 37(c-d) in which there are conjoined NPs functioning as subject have the deep structure represented by Fig.4.

37(c) Ecba ii Mgba ji and her husband rich.

(d) Ħ8 Moba ii bhara Both Ecbaji. her husband ere rich.



The application of the rule of Conjunction reduction to the string represented in the above figure yields 37(a).

In Onitsha, as in Ezimihitte, the use of this Wa suxiliary is obligatory. In addition to ina, there is also enother suriliery werb. idi with about the same meaning and syntactic function as the following examples show:

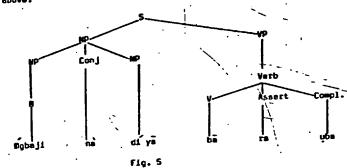
⁽¹⁾ I am esting (Onitsha)

⁽¹¹⁾ ifela One mtho ashamed: One who has no shame.

For a detailed discussion of the rule of conjunction reduction and milied rules, see Kontsoudes (1971) "Capping Conjunction reduction and Co-ordinate reduction" in Foundation of Language .7. See also Hudson, R.A. (Feb. 1975) "Conjunction Reduction, Gapping, Hacking, and the Preservation of Surface Structure" Indiana University Linquistic Club, who points out the cimilarities and differences between conjunction reduction and Capping and argues that the two processes cannot be subsumed under one rule (P.6-12).

37(e) Emph. Hobaji na di ya bara ube

If the Emph mode is not selected (because not necessary/to the derivation of 37(c)), then the application of the relevant phonological rules to the surface structure 37(e) yields 37(c) which is given above.



In order to derive 37(d) from Fig.5, the following processes are needed:

37(e) (Emph.) Mgbaji ne di ya bara uba (f)

- (r) mà mgbaji na dí ya bara uba ---- (9)
- (g) En Egbeji en di ya bara uba.

37(g) is the same sentence as 37(d).

Observe that the substitution of max for the node Emph. necessarily...

means that no is also changed to max, in order to ensure the meaning of

"both and " If we were to terminate the derivation at 37(f)

we would get the following meanings

The Mgbaji no di yo bars ube

Even Mgbaji and her husband are rich.

Thus 37(f), is well-formed, though not the desired 37(d).

By adopting the foregoing method, it is easy to show that there is a

transformational relationship between max NP (max) NP and NP nax NP structures

in Igbo; the mementic relatedness is also captured.

Thus far, we have argued that a distinction between co-ordinating and subordinating conjunction in Igbo is not revealing and therefore unnecessary. We have also shown in ID.2. 0 p. finat $\frac{1}{100}$ complementizer and $\frac{1}{100}$ preposition are one and the same thing in underlying structure. With regard to the $\frac{1}{100}$ in Igbo, we have demonstrated (IO.4.0-IO.4.2 p.486-91) that the so-called $\frac{1}{100}$ prefix and $\frac{1}{100}$ relative are all instances of the auxiliary verb $\frac{1}{100}$. There remains one instance of $\frac{1}{100}$ the prepositional $\frac{1}{100}$ which we examine in the following section.

10.4.4 Na Preposition

In 2.2.0, p.44 - 55) we have given enough examples to illustrate the tonal behaviour of the preposition <u>Ha</u> - the fact that it essimilates to the initial vowel and tone of the following item, if such an item begins in a vowel, or to its tone only, if it begins in a syllabic nasel. The preposition maintains its inherent low tone, if the following item begins in a consonant other than the syllabic nasel. It is only in prepositional structures that <u>Na</u> displays the above characteristics, a fact which marks a departure from its tonal behaviour elsewhere.

We suggest the following reasons to account for this difference of tonal behaviour. First, Igbo Prepositional phrases, unlike co-ordinate and complement structures, lack any sentential source. Secondly, a Prep. Phr. structure by its very nature is both semantically and syntactically very cohesive - the presence of the preposition head presupposes a nominal or nominal phrase, whereas the relation between a conjunction and its conjunct is much less cohesive, in fact, it is much more loose. It is also possible that the tonal peculiarity of No. as a preposition is an indication of the change which the item has undergone from one lexical category to another. To this effect, Li & Sandra

Thompson (1973) have ergued that present day prepositions in Mandarin Chinese were transitive verbs at earlier stages of the language. We shall take up this argument & its relevance to the Igbo language situation in section 10.44.5.

Heanwhile we easume that \underline{Na} conjunction and \underline{na} preposition must be related in the same way that \underline{na} conjunction and \underline{na} preposition have been shown to be related.

10.4.5 The Auxiliary Verb Na and Na Conjunction and Preposition

The claim we made at the beginning of this chapter is that all these <u>Ma's</u> in Igbo are associated with the auxiliary verb <u>ina</u>. Such a claim as this is only a working hypothesis impossible of substantiation in the absence of any historical data. Buch of our proof will consequently be inferential and never conclusive.

Why have we singled out the auxiliary werb ina as the most likely sources of the M2s in 1gbo? Phonetic similarity?

This is the least holpful and weakest of the criteria on which to base such a hypothesis. With its limited number of vowels (8 of them in number) and very limited pitch contrasts (two basic ones - s high and s low pitches, the third - the downstep being a marker of syntactic relation) the Igbo language abounds in homonyms. Any judgment about Igbo lexical items based on sound identity is consequently morthless. If sound identity were an important criterion, the following homonyoms.

ine - to backbite

ina - to take, receive

might have become obvious candidates. Despite their phonetic identity with the auxiliary verb in question, the two verbs above are ruled out of consideration for other overriding reasons: They are regular Igbo verbs, each with a specific meaning which is independent of context. The auxiliary verb ins, on the other hand, does not share any of these characteristics; on the contrary, it is irregular, never occurs without another werb as complement and takes a limited range of verb inflectional suffixes. Above all, it is polysemous; any specific meaning of this auxiliary werb is in

relation to a given linquistic context, and in some contexts, it cannot even be pinned down to any particular meaning as in the following examples:

38(a) I ga na egbu ya agbu?

You are going killing him kill: Are you then going to kill him?

and self my have not heard: I myself have not heard.

(c) Ebe na o reele, lufuo ya

place that it has rotten throw away it:

Since it is rotten, throw it sway.

The meaning of <u>na</u> in these and similar sentences depends on the totality of the meaning of each individual construction. Polysomy seems an important factor in the manifold meanings that this auxiliary verb-form Na displays from one context to another.

Recall that we have demonstrated in 4.1.5 p.198 - 203 that <u>ef</u> the complementizer is always the second of two verbs in a serial verb construction. We have also argued in 10.2.0 that the complementizer <u>ka</u> must be a verb-form of the erstwhile verb kas which lacks a citation form in synchronic description. We have made a similar case for <u>mal</u> and <u>mal</u>. Now let us see what synchronic evidence there in support of the foregoing analysis.

Our present approach of treating conjunctions and prepositions as verb-forms reflects a general trend in present day Igbo language. There is a lot of evidence that what passes as semantically empty morphemes in other language are verb forms in Igbo sharing a lot of syntactic and semantic characteristics with existing Igbo verbs. These verb-forms which serve as relators include:

bhanyare from the compound warb ibhanye gbase

39(a) E keuru okeu banyare utu e ga atu One talkad talk concerning levy one will pay about

aaka úlo ákuukup.

for house of school: A levy to be made about the school building was discussed.

- 39(b) Chasara obyibya bishopu, a cdro ka

 Bhanyere

 About visit o bishop, one wants that

 umu nwaanyi niile tuo akhwa abuo abuo

 women all contribute eggs two twos

 Concerning the bishop's visit, it is intended that women should

 contribute two eggs each.

Heard complete have I thing about manner bad hiss
I have heard all about his deplorable behaviour.

Observe that from being the verbs of relativized clauses in 39(s) & (c), the teo verbs observe and bhanyare have come to function as sentence modifiers in sentence-initial position just like the English prepositions 'about' and 'concerning'. So far, only a handful of verbs are known to have mon this 'syntactic freedom' and such verbs belong to a sementic class. Verbs of activity, and generally those which can function in the Harrative form are excluded from this class. Note also that those verbs have what we have described as the Assertive-r suffix (cf 4.2 ± 2/5).

The following examples are equally interesting for what they reveal about Igbo, and the support such a revelation lends to the present arguments

40(e) Shi(te) than gove nihu, anyi ga seu enyi

Start today go in front we shall be friends:

From today henceforth, we shall be friends.

Note the apparent Hortative/Imperative force of shite and game. But in the following 40(b), the same verb-form lacks such an imperative force.

- 4D(b) 0 na egbú omme ya shite na inu okhe mai He is killing self his going through from drinking a ch wine: He is ruining himself by drinking too much.
- If <u>shite</u> in 40(b) were imperative, one would expect a reflexive pronoun of the appropriate person, as in 40(c);
- 40(c) Na(e) egbu onee gi shite ne inu okhe mëi

 Go on ruining yourself by drinking too much.
- 40(d) is derient because the reflexive pronoun is not in the appropriate person.
- (d) *Nae' agbu onwa ya shita na inu okha mai Kaap on ruining himsalf by drinking too much.

Co-referentiality is a necessary, though not sufficient, condition for Equi-RP deletion and Reflexivization. That matters for our argument is that shite is a verb-form, and that it functions in initial position before a nominal as in a prepositional phrase.

- 41(a) Shi (na) Ngeuru du (na) Laagea e di uthi?

 Start from Ngeuru reach to Laagea it is far?

 Is it far from Ngeuru to Laagea?
- (b) Anyi shiri Onice du Enugu ne uksu ele
 We went from Onitsha reached Enugu on foots
 We went on foot from Onitsha to Enugu.
- (c) I wa no shi (no) Aba du (no) Umuahya wu og'u waini abu You know that start from Aba reach to Umuahya is twenty miles two Do you know that from Aba to Umuahya is forty miles?

The underlined items in 41(e-c) above are forms of the verbe ishi (c1.1) to go from, pass through idu (c1.3) reach, arrive at.

These are werbs which take underlying prepositional phrase as complement, though the preposition no can be deleted in surface form. In 41(a) the underlined verb-forms are being used as prepositions, in (b) the form shiri is the first verb of a serial verb construction and carries the appropriate tense suffix -rV. As is the norm in serial verb construction, any subsequent verb (in this case du) does not bear any tense suffix since it copies its tense from the first verb of the series. In (c) as in (a) the two verb forms are prepositional in function. In either function, the sementic relatedness as well as the syntactic properties of the source verbs are maintained.

Now consider the following examples involving a different werb - ibys 'to come'

42(a) Emechana m hwa nile bya filme

Finished complete I things all

I finished everything before going out.

42(a) can be transformed into 42(b) in which the underlined verb comes first in the series and consequently bears the tense suffix.

(b) Abyers m meches here niits fuse Came I - finished thing all went out I came and finished everything and went out before going out

Observe that in (b) there is no choice as between <u>func</u> and <u>ifune</u> as in(s). This choice is possible only before the form <u>bys</u>. Note also that <u>ifune</u> is a derived nominal, a fact which conclusively demonstrates the prepositional function of this serial worb <u>bys</u> in 42(a). The following (c) & (d) are more examples of the same phenomenous

(c) Kmozhie ekwezhie bya firini zie Admit come ests Make end homest admission before esting.

(d) Kwomas sks bye fris have iri free at ing and then est

It has to be pointed out that the foregoing examples are the product of the conjunction Reduction rule which deletes, obligatorily in this case, the subject NP's of all subsequent sentences in a serial construction.

If, on the other hand, the subsequent NPs are not co-referential with the first of the series, then there is no co-referential NP deletion, and we get the alternative examples 43(a-b)

O richare hee (tupu) anyi abya nuo mai He finished eating (before) we come drink wimes He finished eating { before } we had some drink.

Any adequate analysis of Igho must reflect the fact that bye in all these exemples is a form of the werb ibye and that like all the second and subsequent warbs in a series, it does not bear any terms marker.

In Indo-European languages, the comparison of nouns and adjectives is by means of morphasse 'more' and 'most' or the inflectional suffixes -er and -est. In Igbo, on the other hand, a specific warb ike 'to surpass' is used, as in the following 43(s-b).

43(a) Akpa m ko okpa gi (ne) mms.

Seg my surposses beg your in besuty:

My bag is facre beautiful; then your beg.

prettier

43(b) (N)ke ye kechs

That of him surposess all in beautyr His is the most beautiful of all.

In Igbo and, probably in all typologically similar languages, werb-forms perform the most syntactic functions. Igbo syntax, one suspects, may sell centre on its complex werb system and how certain werb-forms are used in various syntactic functions.

The cumulative effect of all the synchronic evidence so far given is to show that Igho is very much a 'verb' language, that is, a language where verb-forms perform the functions that in Indo-European languages are carried out by largely meaningless function words. Such conclusive evidence as this has been made possible by the fact that all the verbs concerned are existing, regular verbs with specific meanings.

However, it can be argued, rightly, that the prepositions and conjunctions which we have shown to be verb-forms maintain the consistent meaning and syntactic characteristics of the source verbs, whereas No in its various functions lacks such a-consistency. That this is the case with No is due to the polysomy of the auxiliary werb with which this conjunction is associated - the fact that in order to exhibit a specific meaning No has got to be in a linquistic context.

But the suxiliary worb ins is not the only Igbo werb with this characteristic. Igbo shounds in worbs which may be considered polyaemous and need a linquistic context, say an inherent complement, to specify their meaning. It is to ceter for worbs of this class that our Phrasa structure (PS-) Rule 4 (cf 4.2. p.2p.4) provides for the exampasion of werb as (Prefix)+V+(Suff)+(Compl.). We give a few of such werbs in order to illustrate what we means

itu y to pay a lawy itu anya to expect

•	itu	. chi	to b	• cold
	. •	eshi.	to	lie
	•	n*enys	•	surprise
•	•	-	•	sweep 8 food
	•	≕i	•	pour libation
	•	lkpe	■.	make ellegation, to insinuate
	•	11		plant yams .
•	•	oun	•	burrou
45	loba	7 '	•	
	igba	050	•	triu .
	•	moto	•	drive a car, travel in a car
	•	ig se	•	ride e bicycle .
	•	ele:	• •	spread rapidly (as of rumour)
	. •	nkpe	. •	mourn
	•	egba .	•	wrestle
	• *	athythy	•	discriminate
· ·	•	vohala ahya	• g:-	trade
	• ,	a)ja	• .	devine
•	•	กฎบรด์	. • .	loiter

We have randomly picked on two verbs and made as many entries as we can remember after each of them. It would be difficult to talk of the meaning of verbs such as inba and itu independent of their inherent complements. It is for this reseon that we maintain that the citation form of such verbs must include their inherent complements. If verbs such as these had any definite meaning independent of the above linquistic contexts, (their inherent complements) they have surely acquired many more by combining with as many noun complements as possible. The tendency to maximise the use of any one lexical item, especially if such an item is a verb, is normal in human innguage; it is irresistible for a language

such as Igbo which does not possess the apparatus for unlimited .

sorphological derivation. Indo-European languages, and English in particular, are fortunate in having their derivational affixes ready—

sade from the classical languages, which are highlysynthetic. Igbo lacks such a historical relationship and is, in any case, a different language altogether. One can only wait to see how for the Igbo situation is borne out by facts from other members of the Kwa subgroup of languages.

Ansre (1966) gives a list of prepositional verbs which he describes as 'Verbida'. These are forms homophonous with and related to existing verbs in meaning. 'Verbid' is just another name for a verb-form which has taken on a prepositional function. Cur contention is that certain verb-forms take on not only prepositional functions but also conjunctive ones. Coming as it does from Ewe, a member of the Kwa group, the above fact suggests that the phenomenon we are describing here is not an isolated incident or peculiar to 19bo alone.

Eross-linquistic evidence from Mandarin Chinese is definitely in line with our thinking-about Igbo conjunctions and prepositions. What is significant about the Chinese situation is that the argument draws its support from both dischronic and synchronic evidence, whereas our argument about Igbo relies heavily on synchronic data. Nevertheless, the two conclusions are very similar.

As we mentioned serlier on (cf/0.4.4 p.494) Li and Thompson (1973) have argued that present day co-verbs (propositions) in Mandarin Chinese were transitive verbs at earlier stages of the language: "The development of complex verb structures into simplex prepositional phreses is highly significants it is the most important factor in the shift which Mandarin is presently undergoing from SVO to SOV language. In particular, we hypothesize that in the transition from verbs to prepositions, some of

these morpheses have progressed farther than others. This hypothesis enables one to account for certain types of non-homogeneity in this class of function words. (p.)

The striking parallel between Chinese prepositions (co-werba) and the Igbo ones is that both sets originate first end foremost as serial verbs. In Mandarin Chinese, it is the first verbs in a serial verb construction which developed into prepositions. In Igbo it is never the first, but the second or subsequent verbs. In Chinese as in Igbo, the lack of homogeneity in the forms of the propositions is an observable fact. Some Igho propositions, for example, still behave very such like varbs in taking cartain inflectional suffixes (-ry, for example) which are only essociated with verbs. Such prepositions include <u>qbasare</u> end bhanyers and shi(te) with its optional -tA suffix. It could be argued, however, that the presence of these verb suffixes is not necessarily a reflection of differential rates of change, as Li and Thompson observe, but rather an indication of the semantic class of verbs involved. Being what we have described as Stative verbs (cf 4.2. p. 218-216)ighass and ibhanye will always take the -rV Assertive suffix in the present tense. Another common factor between the two languages being compared here is the fact that for some of these propositions and conjunctions there are no existing nomophonous verbs, while for most of them there are existing verbs of the same phonomic shape and the same meaning. In the chaence of any historical data, it is not easy for us to say whather or not some lobo conjunctions and prepositions have acquired a meaning different from that of their source verbs, But what one can positively say is that the polysomy of the sumiliary werb ina makes it possible for Ma to have different muanings in different contexts.

How best, then, can the relationship between certain Igbo verbe and Igbo conjunctions be ceptured in the analysis of the language? We are not

for such non-verb pairs in English as dance / dance, thus:

taking a stand on the issue whether a verb and a corresponding preposition or conjunction are one lexical item or two. According to particular theories of the lexicon, they may be described either ways the facts are that in some sentences a word of certain phonological shape is a verb, while in others it is a preposition or conjunction, and that the two forms are historically and semantically related. A similar remark can be made

I dance every friday evening.

I go for a dance whenever I like.

That we have done here is to cepture this essential relationship in the lexicon by means of feature specifications, thus acknowledging the syntactic differences between them while at the same time recognising their similarities. For example, words such as ina have the following lexical entries:

+ V

+ sux

+ verb compl.

+ conj

+ prep

Correspondingly, the Na preposition and conjunction are featurally specified respectively as follows:

+ V
+ sux
- varb compl.
- conj
- prep

[- verb compl.] seems [- Prep | - Conj]

features prep or conj is positively specified.

Similarly, the prepositions gbesars and bhanyere have the following features:

• stative
• Prep

[• stative] is rewritten es

[• rV] assertive suffix.

whether the items being considered here are entered in the lexicon as one or two items, the assential relationship with certain verbs is still reflected in the above features.

Concluding Summary

Igho monosyllabic conjunctions and prepositions are associated with certain Igho works. Of these werbs, some are still in existence, while a few others are not. The verbs in existence include

ghasara verbs ighasa to concern ibhanyera ibhanye

Those conjunctions and preposition for which there are no existing homophonous verbs are:

- (i) Na Purpose conjunction which is transformationally related to the corresponding ma preposition.
- (ii) Ea Interrogative conjunction under which we subsume as conditional conjunction as well as the co-ordinating homophone.

We have argued (cf p.484-486) that no distinction need be made in lgbo between subordinating and co-ordinating conjunctions.

Attention has been drawn to the parallelism existing between Igboand Mandarin Chinese with regard to prepositions and conjunctions. In
both languages, it is serial verbs which are involved: In Mandarin
Chinese, historical evidence points to the fact that the first of
serial verb constructions developed into prepositions, while in Igbo
it is the second or subsequent verbs which have become sither
prepositions, or a conjunction as in the case of Si.

It has also been shown that Igbo is very much a 'verb' language where verb-forms perform the syntactic functions which in Indo European languages are carried out by sementically empty morphames.

These observations call for further research into languages which are typologically related to Igbo in an affort to discover how far the situation in Igbo is reflected in such languages.

APPENDIX

SAFFLE LEXICON

This section does not represent a fully worked lexicon of Igbo, nor does it contain an exposition of any theory of the lexicon. For such theories end their inherent problems the reader is referred to Chomsky (1955) and Stockwel et al (1973: 718 - 810), the latter contains a good number of references to articles on the lexicon in a transformational grammar. A sample lexicon is also provided by Carrell (1970: 32 - 46), although her entries need up-dating to reflect advances in transformational theories.

that we present here is, therefore, very short, and our lexical entries have been dictated by the examination of Igbo complementation which we have undertaken and the analysis of other aspects of Igbo which have been found relevant to Sentential complementation in Igbo.

The base of a transformational grammar is made up of the Cătegorial sub-component sind a lexicon. The categorial sub-component consists of a context free phrase-structure grammar whose output is a string of symbols (which mark the position of lexical categories) and grammatical formatives. The lexicon is made up of an unordered set of lexical entries, each of which is an ordered pair of matrices (D,C). D is a phonological matrix which gives the necessary and sufficient information for the phonetic realisation of the items via the phonological rules; while C, represents a syntactic-semantic matrix, consisting of a collection of feature specifications of the following kinds:

- (a) Category Features
- (b) Contextual
- (c) Inherent
- (d) Rule

We are not concerned with the chonological matrix D, but with the syntactic-semantic features (that is, the C matrix).

Lexical Substitution

The lexical items are inserted by a substitution transformation, where the complex symbol in the lexical entry is the structure index for the transformation. The lexical substitution rule is based on the criterion of distinctiveness, as follows:

Two sets of features are distinct if and only if they contain at least one feature with opposite values.

In principle, each vocabulary item has associated with it a complex symbol containing the features enumerated above:

Category Feature

A category feature denotes a lexical category such as noun [.w], or a verb [.w]. In this sample lexicon, each complex symbol contains only one positive specification for each category feature.

However, we adopt the following method for the categories Adjective, Freposition and Conjunction.

In the absence of any distinctive morphological and/or syntactic criteria to justify a separate lexical category. Adjective, we have decided to have only one major Category Rominal [+N], chose members will fall into either of the following sub-categories:

(a) These nominals (traditionally described as adjectives) which do not occur alone but always restricted to the second position in an MP of the N₁ + N₂ structure,

(b) Those nominals which can function in the structural position of N_1 or R_2 given the appropriate context. Since only a small number of nominals belong to sub-category (a) above, they constitute the exception, which are consequently marked as

The same of a \$10 get and have a place and the relation of the same

+ N + 2nd position

The majority of nominals belonging to category (b), being the rorm, are unmarked.

Secondly, Frerositions and Conjunctions have been shown to be verb-forms (cf Chapter 5), they are therefore, positively specified as [+V], differing from co-verbs by such features as [+Frep] or [+Conj]. The disyllabic conjunctions thunk / khama, mans and make are not covered by the foregoing analysis, their relation with any Igbo verbs not being known.

Contextual Features

These features denote the linguistic context in which a lexical item occurs. For example, verbs such as ino 'to be, stay' always have the contextual feature

[--- + Locative] .

which denotes that they take only Locatives which are generally prepositional phreses.

Inherent And Rule Features: Inherent Features.

These denote qualities such as animate, human, and abstract, while Rule Features refer to the transformations to which a lexical item is subject, such as Equi, Infinitivization and Extraposition.

Inherent features may be syntactic or separatic.

Feature Specification

- + means positive specification
- " negative
- obligatory with regard to T-rules.

Redundancy rules apply before the insertion of a lexical item in a tree.

Sample Lexicon

Koninals			
Eghu	- goat	50LÒ	- bad, ugly
+ #		+ N	
- hum		• abs	
+ anim		- count	•
+ count		- pars pro	
+ common		+ 2nd position	<u>-</u> .
- pera pro			
		Njo	- badnasi
Mahy	- life		
+ N		+ abs	· · · · · · · · · · · · · · · · · · ·
+ abs		- count	
- count		- bets bio	
- pera pro			• أ
		Óma -	- pood
Oshishi	- tree	-	- ,
· — <u>.</u> -	-	_ ,+ H-	·
+ count	· •	+ abs - count .	
- snie		- pers pro	
+ concrete		+ 2nd position	• .
+ Epinhofi		and postagen	:
- pers pre		flee	
. 			- good/goodnasa
Dcha	- ahite	• N	
_	=112 00	+ 858	
• #		- count	i
+ sbs count		- bets bro	
- pers pro			
+ 2nd position		Contadpara -	- round/roundness
		+ N	i i
Hebe	- white/	+ abs	
yche .	- unite/ whiteness	- count	
• 1	mil #4(4)	+ measurement	'
+ abs		- pers pro	!
- count	•		
- pers prø		-	short

```
512
                     short/
 Mkpuskpu
                     shortness
 + abs
                                       + def
 + measurement
                                       + 29
 - pers pro
                                       + pers pro
 - count
                                       + 3rd
                                       - self-ref.
 Ogologo
                  - tál1/
                                       + bound
                    height
 • #
 + abs
                                                     - 1t
 - pers pro
 - count
                                       . #
                                      + pra
                                      + 805
                                       + def
                                       - loc
 + N
 + hus
+ def
                                      Ya
                                                       in it.
+ 80
                                                        there
                                       + N
old stad +
                                      . + pro
- bound
                                      + abs
                                      + loc
                                      Anyl
                                     . . .
+ def
                                      + hup
+ 89
                                      + def
+ lst
                                      + pl
bound
                                      + pers pro
                                      + 1st
                  - You (sg)
                                      Unu
                                                       you (p1) .
+ hum
+ def
                                      + hum
+ 80
                                      . def
+ Ders oro
+ 2nd
                                      + pl
                                      + pers pro
- bound
                                      + 2nd
                 - You
                                      Ha"
                                                       they
                                                      (inalusiva)
                                      + #
+ pro
                                      + hus
+ hum
                                      + def
+ def
                                      + pl
+ #9
                                      + pera pro
+ pers pro
                                      + 3rd
+ 2nd
                                      + inclusive
+ bound
Yé
                                      'پڪڙا
                                                    - they
                 - he/she
                                                      (exclusive)
                   him/ner
                                      + hus
+ hum
                                     + def
+ def
                                      + pl
+ 80
                                      · pers pro
+ pere pro.
                                      + 3rd
+ 3cd
                                      - inclusive
+ self-ref
```

```
514
```

```
Verbs
                                                                                      lny
Ikwu
                                       ina nthi
                                                        to listen, to
                     declare
                                                                                      - fact
                                       - · fact
- fact
                                                                                      + enat
 . activity
                                       + S - Interroo
                                                                                      + S~ Subjunct
          /Indic _
                                       + object 5 prepose
                                                                                      * Extrap
     S ~ (Imp
                                                                                      + Subject-Raising
          (Subjunct)
                                       Ico ..
                                                      - to eant, wish
                                                                                      ira shu
Isi
                                       . V
                  - to say
                                       - fact
                                                                                     . .
                                       + forward-looking
                                                                                     - fact
. .
                                       + 5~ Subjunct
                                                                                     · emot
- fact
                                       + Equi
                                                                                     . Saliterrog
+ activity

    Infinitivization

    Infinitivization

- coni
          Indic
                                       Ikhao
                                                     - to have in mind.
     S ~ ₹ 1 = 0
                                                                                     Igbacha
                                                         regard for
         (Subjunct)
                                                                                     + V
                                       - fact
                                                                                     · activity
                    to learn
                                       + forward-looking
Ĭ œų
                                                                                     + aspectual
                                       + S Subjunct
                                       + Equi
. .
                                       + Infinitivization
· epistemic
                                                                                     lhafy
+ otho MP
+ Infinitivization
                                                                                     + V
                                       Ikwa nkhwa - to promise
                                                                                   · + activity
                                                                                     * aspectual
Igoshi
                    to show.
                                       - fact
                                                                                     . (na) Infinit Rom
                    reveal
+ V

    forward-looking

. fact
                                       + 5 Subjunct
                                                                                     Ikevshi ·
+ S~ Indic - S~ Indic
                                       + Equi
+ Relatz. .

    Infinitivization

                                                                                    . V
                                                                                    + activity
Ive enya
                                                                                    + aspectual
                    to be obvious
                                       lkweshi
                                                       to be worthy.
                                                                                    . ___ Infinitive Kom
                                                        appropriate
. .
                                      - fact
+ fact
                                                                                    IJų
+ S - Indic
                                      + emot
+ Reletz
                                      + S~ Subjunct
                                      . Subject-Raising
                                                                                    - fect
íœ
                                                                                    + 5~ Interrog
                   to think
                                      Ítoshi
                                                                                    + object 5 prepose
                                                     - to be appropriate,
. .
                                                            right .
- fact
                                      + ¥
                                                                                    Copulas
                                      - fact
         Indie
        l Interrog (
                                      · emot
                                                                                    1012
                                      + 5 - Subjunct
                                                                                    . .
                                      . Subject-Raising
                   to arque.
                                                                                    + copula
                     doubt
                                                                                    . stative
. .
                                                     - to seem, resumble
                                      1011
- fect
                                      ~ fact
• 5~ Interrog
                                                                                   ing
                                      + emot
+ object 5 prepose
                                      + S ~ Subjunct
                                                                                   . .
                                      * Extrap
                                                                                   + copula
                                      + Subject-Raising
1ju - (see Page 509 )
```

```
.to seem,
                       resemble
                                         + cooula
                                         . stative
                                         Auxiliaries
                                        Isi
                    to be difficult
                                                       - shall/will
                                        + ¥
                                         + aux
                                        + werb compl
                                        + future
                                                         should
                    to leave, obendon,
                                        . .
                        perden
                                        - EUX
                                        • codal
                                        · verb compl
 + - (na) infinit flom
                                        III .
                   to leave, abandon,
                                        + BUX
                                        + verb conol
                                       .+ habitual
                   stop, desist
                                       . .
                        from
                                       + BUX
                                       · verb compl
                                       - conj -
                                       - Dreo
                                       + progressive
                                       + habitual
                                                    Prep
                                       - verb compl
                                       - conj
                                       + PTED
                                                   Conj
                                       + 843
                                       - Astp combj
                                       - 0100
                                       + cons
                   to be, etay in
+ stative
```

Enos +

```
Conjunctions & Prepositions
sí'
                                                         go from, from
. v
- fact
                                                 (nå) NP
+ activity
                                                                                                + definitizer
+ conj
                                                      - prrive at. to
     Conj (see P.514 )
                                        + V
                                        + prep
                                                 (ne) tip:--
                                                                                              Quantifiers
Na'
      Prep (see P.584 )
                                                                                              uiile ·
                                        Byá
                                                     - before
                   that. in
                                                                                             [+ quant]
                  order that
. V
                                        + conj _
- octivity
                                                                                             Olcrable
                                                                                                                fcs. several
+ conj 1
                                        Gbásara
                                                     - concerning,
                                                                                             [+ quant]
                                                         about
Ea`ı
                    that, so
                    that
                                        + stative
+ V
                                                                                             Ptyty
                                        + prep
- activity
                                                                                                              MANA
+ conj
                                         Bhan yare
                                                        concerning,
                                                                                             [+ quant]
- prep
                                                          about
                                         . V
                                                                                             r
Uzugbu
sa)
          Prep
                    for, on
                                         . stative
                    behalf
                                         • prep
. .
                                                                                             L+ quant 7
- activity
                                         Determiners
Loos -
+ prep
                                         (N)ke
                                                                                             Numerals
                                          + det
2 a 2
                                                                                             Čtu
          Coni
                                          + substantive
                    whether
 + 4
                                          . 50
                                                                                             C+ dig7
 - ectivity
                                         Nat
 + conj
                                                                                             Abyo
                                          + det
Baka
                 - for, on
                                          + substantive
                  behalf of
                                                                                            [etb +3
                                          + pl
 + prep
Sana.
                                                                                             ALO
                                                      this.
                 - but
                                                                                                             three
+ conj
                                                                                            C+ dig ]
                                         ÁĪW
Thusa
                 - rather than
                                                             that
                                                                                             Àno
                   instead of
                                                                                                          - four
 + conj
                                                                                           [ + dio]
Khone
                 - rather than,
                   instead of
+ conj
                                          + definitizer
                                              Pronoun
Τύρυ
                 - before
```

•	818	LIOGRAPHY	Bach, E.	(1964)	An Introduction to Transformational Grammar,
Abbreviationss	٠.		•	•	New York: Holt, Rinehert & Uinston
ALS	-	African Lanquage Studies		(1965)	"On Some Recurrent Types of Transformations", Georgetous University Monograph Series
<u>BSOAS</u>	-	Bulletin of the School of Oriental and			On Languages and Linguistics 18: 3-18
<u>cls</u>	-	African Studies Papers from the Recional Electings of		(1968)	"Hours and Koum Phrases" in Bach and Harms, eds., (1968).
•		Chicago Linguistic Society		(1971a)	"Questions", <u>L1</u> 2: 153-166
<u>fl</u> .	 -	Indiana University Linguistic Club	-	(1971ь)	"Syntax since Aspects", <u>Georgetown</u> <u>University Monograph Series on</u> Languages and Linguistics 24: 1-17
JAL	-	Journal of African Languages		(1974)	Syntactic Theory, Hew York:
<u>JUAL</u>	-	Journal of West African Languages	٠.	•	Holt, Hinehart & Winston
<u> 21.</u>		Journal of Linguistics	Bach, E. and Harms, R.T. eds.,	(1968)	Universals in Linguistics Theory, New York: Holt, Rimehart & Winston
LI ·	•	<u>Linguistic Inquiry</u> <u>Studies in African Linguistica</u>	Bagari, Dauda M.	(1971)	RP - Complementation in Hausa. 8. Phil thesis, University of London
CUP	- ·	Combridge University Press	Bell-Gas	(1963)	<u>lje Odumođu Jera,</u> Longmans, Nigeria.
<u>oup</u>	_	Oxford University Press		•	"Notes on the Description of English
	•		Baker, C.L.	(1970)	Questions: The role of an Abstract \ Question Eorpheme*, <u>FL</u> 6: 197-219
Abraham, R.C.		(1967) The Principles of Ibo, Ibaden:			these class worth seems 4 11 or 197-219
5 20 may 1860 - 198 BY		Institute of African Studies, University of Ibadan	ay in <u>mar</u> ak		
Achara, D.N.	•	(1964) Elelia na lhe O Mere.	Bierwisch, M.	(1969)	*On Certain Problems of Semantic Representation*, <u>FL</u> 5: 153-184
• • •		Longmana, Nigeria	-		"On Classifying Sementic Features"
Adams, R.F.G.		(1932) A Modern Ibo Gremmar, OUP		(1971)	in Steinberg and Jakobovits, eds., (1971)
Aijmer, Kerin	•	(1972) Some Aspects of Psychological Predicates in English,	Boadi, L.A.	(1968)	"Some Aspects of Akan Deep Syntax", JUAL V: 83-90
Ansre, G.		Stockholm: Almquist and Wiksell (1966) "The Verbid - A Caveat to Serial Verbs'		(1972)	"Sentential Complements in Akan", Lingua 29.2: 128-172
Arnott, D.W.	,	(1964) "Downstep in Tiv Varbal System", ALS S: 34-51	Bolinger, D.L.	(1968)	"Enteilment & the Econing of Structure", Glossa 2: 119-128
Austin, J.L.	ı	(1962) How to Do Things With Words, OUP	Bonney, W.L.	(1974)	Problems in the Grammer and Logic of English Complementation, Oxford University D. Phil. thesis.
Amoyale, Y.		(1964) "Yoruba Gerundive Structures and the Notion of Target Structures" Studies in Linquistics Sciences 4-1: 1-31, University of Illinois	Sowers, F.	(1968)	"English Complex Sentence Formation" <u>JL</u> 4: 83-88

•	519			520	
Bresnan, J.	.(1970)	"On Complementizers: Towards a Syntactic Theory of Complement Types", ft 6:297-32!	Clements, G.N.	(1973)	"Assertions and Self Reference in Ewa", Paper presented at the Fourth Annual Conference on African Linguistics,
Burt, M.K.	(1971)	From Deep To Surface Structure, Harper & Ros	•		New York, Mimeo.
Carnochan, Jack	(1948)	"A Study in the Phonology of an Igbo Speaker", BSCAS 12: 417-26	Davidson, D. and Harman, G. eds.,	(1972)	Secantics of Natural Language, Dordrecht: Reidel
	(1960)	"Vowel Harmony In Igbo", ALS 1: 155-63	Dean-Fodor, J.	(1974)	"Like - Subject Verbs and Causal Clause in English", <u>JL</u> 10: 95-110
	(1961)	"Pitch, Tone and Intenation in Igbo", Proceedings of the Fourth International	Eckman, F.	(1974)	"On Subordinate Deletion", Clossa 8.1: 63-81
	÷	Congress of Phonetic Sciences: 547-554, Helsinki	Emonds, J.	(1972)	"A Reformulation of Cert.in Symtactic Transformations", in Stanley Peters, ed., (1972)
•	(1962)	"The Category of Number in Igbo Grammer", ALS 3: 110-15	fillmore, C.J. & O).T ₍₁₉₇₁₎	Studies in Linguistic Semantics,
	(1963a)	"Towards a Syntax for Igbo", <u>JAL</u> 2: 222-6	Langendoen, eds.		Holt, Rinehart and Winston
 	(1965)	An Outline Analysis of Igbo, Skrivomaskintua, Oslo	Fodor, J.A. and Katz, J.J. eds.,	(1964)	The Structure of Language: Readings in the Philosophy of Language, Englewood Cliffs, New Jersoy: Pretince - Hall
	(1966)	"Word Classes in Igbo", Linqua 17: 1-23			"Tone Features and Tone Rules"
ernochan, J. end Buchukwu, Belonwu		An Igbo Revision Course, Ibadan: GUP	Fromkin, V.A.	(1972)	Working Papers in Phonetics 21: 50-7: University of California, Los Angeles reproduced in <u>SAL</u> 3: 47-76
errell, P.L.	(1970)	A Transformational Grammar of Igbo, DUP		••	Review of Robin Lakoff's
homsky, M.	• • • • • •	Syntactic Structures, The Hagues Bouton and Co.	Green, G.	(1970)	Abstract Syntax and Latin Cooplements Language 46: 149-66
· · · · · · · · · · · · · · · · · · ·	(1964a)	"Current Issues in Linguistic Theory" in Fodor and Katz, edse (1964)	-	(1971)	"A Study in Prelexical Syntax: The Interference of Syntax and Semantics", A University of Chicago Ph.D. thesis
	(1964b)	"The Logical Basis of Linguistic Theory" in H. Lunt, ed.,	Green, M.B.	(1964)	"Suffixes in Igbo" <u>ALS</u> 5: 92-114
•		Proceedings of the Ninth International Congress of Linguists	Green, W.W. and Igwa, G.E.	(1963)	A Descriptive Grenmar of Igbo Berlin: Akademie Verlag & Lendon: CUP
	(1965)	Aspects of the Theory of Syntax, WIT Press	Green, M.A.	(1964)	A Short Grammer of Igbo, London: OUP
	(1970a)	-*Remarks on Nominalisation* in Jacobs and Rosenbaum, eds., (1970)	Greenberg, J.H.	(1963)	The Languages of Africa, second, revised ed., (1966), The Hague: Eouton
:	(1970ь)	"Deep Structure, Surface Structure and Semantic Interpretation", in Steinberg and Jakobovits, eds., (1971)	Grimshaw, J.B.	(1975)	"Evidencs for Relativization by Delet: in Chaucerian Middle English" to app in New England Language Society
•	(1972a)	"Some Empirical Issues in the Theory of Transformational Grammar" in S. Peters ed., (1972); also reproduced in	Grinder, J.T.	(1972)	"On the Cycls in Syntax", in Kiebsll ed., (1972).
je	(1972Ь)	Studies on Sementics in Generative Grammar, The Hague, Bouton & Co.	Grinder, J.T. and Elgin S.H.	(1973)	Guide to Transformational Grammers History, Theory and Practice, Holt, Rinehart and Uinston

•		
Haiman, J.	.(1974)	"Concessives, Conditionals and Verbs of Volition", <u>FL</u> 11: 341-359
Hudson, R.A.	(1975)	"Conjunction Reduction, Gapping, Hacking and the Preservation of Surface Structure", <u>IULC</u> , memeo.
Hyman, L.M. and J Skip Robinson	.0 ₍₁₉₇₄₎	Review of P.L. Carrell, A Transformational Grammar of Tobo, JL 10: 143-152
Igwe, G.E.	(1974)	The Role of Affixation in the Grammar of labo. A University of London Ph.J. thesi
Igwe, G.E. and Green, M.D.	(1967)	Igbo Language Course BKS 1-III, Ibadan: DUP
Jacobs, R.A. and Rosenbaum, P.S.	(1968)	English Transformational Grammar London: Ginn and Co.
eds.	(1970)	Readings in English Transformational Granmar, Waltham, Mass:
Jackendoff, R.S.	(1972)	Semantic Interpretation in Generative Grannar, Cambridge, UIT Press
Jeffers, R.J.	(1975)	"Remarks on Indo-European Infinitives", Language 5: 133-148
Josephs, L.S.	(1974)	"The Syntax and Somantics of Japanese Complementation", <u>Working Papers in</u> <u>Linguistics</u> 6.2: 1-68 University of Hawai
Kerttunen, L	(1970)	*On the Semantics of Complement Sentences CLS 6: 328-339
/	(1971a)	"Some Observations on Factivity", Papers in Linquistics 4: 55-69
	(19716)	"The Logic of English Predicate Complement Constructions", <u>IULC</u> , mimeo
	(1973)	"Presupposition of Compound Sentences", L1 4: 169-193
Ketz, J.J. and Postal, P.M.	(1964)	An Integrated Theory of Linquistic Descriptions, Cambridge, Mass: MIT Press
Kenstowicz, M.J. an Kieseberth, C.J.	^d (1970)	"Rule Ordering and the Asymmetry Hypothesis", <u>CLS</u> S: 504-519
Kim, Chin - Wu	(1969)	"Two Phanological Notes: A # and 8", University of Illinois, mimeo
Kimbel, J.P. ed.,	(1972)	Syntax and Semantics Vol. 1, London and New York: Seminar Press

•		
King, R.D.	(1969)	Historical Linquistics and Generative Grammer, Englewood Cliffs., Ken Jersey
Kiparsky, P	(1968)	"How Abstract is Phonology?", Unpublished Paper
Kiparsky, P. and Kiparsky, C.	•	"Fact" in Steinberg and Jakobowits, eds., (1971)
Kitagawa, C.	(1974)	*Purpose Expressions in English*, Lingua 34: 31-46
Koutsoudas, A.	(1966)	Uriting Transformational Grammars: An Introduction, FoGram-Hill
•	(1971 a)	"Gapping, Conjunction Reduction and Co- ordinate Deletion", <u>FL</u> 7: 337-386
•	(19716)	"On the Non-Sufficiency of Extrinsic Order", <u>IULC</u> , mineo
	(1972)	The Strict Order Fallacy*, <u>Lenguege</u> 48: 88-96
	(197 3 a)	"Extrinsic Order and the Complex EP Constraint", <u>L1</u> - 1V: 69-81
	(19736)	"Unordered Rule Hypothesis", <u>IULC</u> , mimeo
Lakoff, G.	(1969)	*On Derivational Constraints* <u>CLS</u> 5: 117-139
	(1970)	Irregularity in Syntax, Holt, Rinehartgand Winston
••	(1971a)	"Presuppisition and Relative Bell- formedness" in Steinberg and Jakobovits, eds., (1971)
	(1971ь)	"On Generative Semantics", Ibid.
Lakoff, R.	(1968)	Abstract Syntax and Latin Complementation. Cambridge: Mass, MIT Press
	(1971)	"If's, and's, but's about Conjunction", in Fillmore and Langendoen, eds., (1971)
Lengacker, R.W.	(1969)	"On Pronominalisation and the Chain of Command" in Reibel and Schane, eds. (1969)
•	(1974)	"The Question of Q ", ft lis 1-37
Langendoen, T.D.		"Presupplisition and Assertion in the Secentic Analysis of Nouns and Verbs" in Steinberg and Jakobovits eds., (1971)
tess, R.B.		In Steinberg and Jakobovits eds., (1971) The Grammar of English Hominalisation The Hagus: Eduton and Co

				** 1.
Leheann, T.	(1972)	"Some Arguments against Ordered Rules", Language 48: 541-550	Perlautter, D. (1971)	Deep and Surface Structure Constraints. Holt, Rinehart and Uinston
Lesson, E.J.	(1965)	Beginning Logic, London: Helson & Sons	Peters, S., ed., (1972)	Goals of Linquistic Theory, Prentice-Hell
	- (1966)	"Sentences, Statements and Propositions" in Eilliam, 8 & A Contefiore eds.,	Pike, K.L. (1948)	Tone Languages, Ann Arbors University of Eichigan Press
		British Analytical Philosophy, London: Routledge and Kegan Paul	Postal, P.B. (1970a)	"On Coreferential Complement Subject Daletion", <u>L1</u> I: 439-500
Li, C.N. and Thempson,S.A.	(1973a)	"Serial Verb Construction in Ecodarin Chinese: Subordination or Co-ordination" Papers from the Comparative Syntax	(1970ь)	*On the Surface Verb 'Remind' *, LT 1: 37-120
•		<u>festivel:</u> Chicago Linguistic Society, Chicago.	(1971)	Cross-Cver Phenomena, Holt, Rinemert and Ginston
	(1973ь)	"Co-Verbs in Eandarin Chinese: Verbs or Prepositions" in <u>Papers from the Sixth</u> <u>International Conference on Sino-Tibetan</u>	(1972)	"A Global Constraint on Pronomina isation <u>tl</u> 111: 35-60
•		Language and Linguistics, University of California, San Diego	(1974)	On Raising: Eng Rule of English and its Theoretical Implications, Combridge, Eass, 217 Press
Liang, J. Chao- ping	(1971)	Prepositions, Co-Verbs or Verbs: A Commentary on Chinese Grammar Past and Present, A University of Pennsylvanis Ph.D. thesis	Quine, U.V. (1970)	"Tethodological Reflections on Current Linguistic Theory", Synthese 21: 386-391
Loflin, M.D.	(1968)	* A Note on VP Complementation*, <u>JL</u> 4: 285-286	Reibel, D.A. and (1969) Schane, S.A., eds.,	Fodern Studies in English, Prentice-Hell
Lyons, J.	(1971)	An Introduction to Theoretical Linguistics CUP	Ringen, C.	*On Arguments for Rule Ordering*, FL 8: 265-273
.ScCawley, J.D.	<u>=</u> (1968a)	"The Role of Semantics in Grammar", in C: Bach & R:T. Harms' eds.; (1968)	Rivero, M-L (1971)	*Bood and Presupposition in Spanish*, FL 7: 305-336
· . /	(1968b)	"Lexical Insertion in a Transformational Grammar without Deep Structure".	Robins, R.H. (1971 ed.)	General Linguistics: An Introductory Survey, London: Longoran
		<u>CLS</u> 4: 71-80	Rosenbaum, P.S. (1957a)	"Phrase Structure of English Complex Sentence Formation", <u>JL</u> 3: 103-118
	(1970a)	"English as a VSO Language", Language 46: 286-299, reproduced in Seuran 1974	(1967b)	The Grammar of English Predicate Complement Constructions, Cambridge, Eass: GIT Press
	(19705)	TA Note on Tone in Tiv Conjugation*, SAL 1.1: 123-130	Ross, J.R. (1966)	"A Proposed Rule of Tree - Pruning" is Reibel and Schame, eds., (1969)
	(1971a)	There Do Noun Phrases Come From, in Steinberg and Jakobovits, eds., (1971)	(1967)	Constraints on Variables in Syntax, Ph.D. thesis, MIT
	(1971ь)	*Prelexical Syntax*, Georgetown University Conggraph Series on Languages and Linguistics 24: 19-33	(1969a)	*On the Cyclic Nature of English Pronominalisation* in Reibel and Schene, eds., (1969)
Rwanz, Pita	(1951)	Omanuko, Longmana, Migeria		"Auxiliaries as Fain Verbs" in Studies in
Obi, S.N. (trans	lated) (1963)	Oksu Igbo Hka Mbu, Longmans, Nigeria	(1969b)	Philosophical Linguistics, Series 1, J. 1 ed., Evanston, Illinois: Great Expectations.

		A A
Ross, J.R.	(1969c	*A Proposed Rule of Tree-Pruning* in Reibel & Schane, eds., (1969)
Rutherford,	W.E. (1970)	"Some Observations Concerning Subordinate Clauses in English", <u>Language</u> 46:57-115
Schachter, P	(1961)	"Phonetic Similarity in Phonenic Analysis Language 37: 231-38.
Schachter, P Fromkin, V.	and (1968)	A Phonology of Akan: Akuapem, Asante and Fanta, Working Papers in Phonetics, No. 9, University of California, Los Angeles
Schön, J.F.	(1961)	Oku Inho - Grammatical Elements of the language, London
Searle, J.R.	(1969)	Speech Acts, Cambridge: CUP
Seuren, P.	(1969)	Operators and Nucleus: A Contribution To the Theory of Grammar, CUP
	(1972)	"Autonomous V5 Semantic Syntax", FL 8: 237-264
	- ed.(1974)	Semantic Syntax, London: OUP
Sinha, A.S.	(1970)	Predicate Complement Constructions in Hindi and English, D.Phil. thasis University of York, England
Spencer, J.	(1901)	An Elementary Grammar of the 150 tenguace Society of Promoting Christian Knowledge, London
Stahlke, H.	(1970)	"Serial Verbu", SAL 1.1 : 60-96
Steinberg, D. Jakobovits, A.	eds. (1971)	Semantics: An Interdisciplinary Reader in Philosophy, Linguistics & Psychology CU
Stockwell, Scha Partee	chter (1973)	The Major Syntectic Structures of English, Holt, Rinehart and Winston
Swift, L.B., Ah Ugorji E.	aghotu, A & (1962)	Igbo Basic Course, Foreign Service Institute, Washington, D.C.
Yaarhoeva, Jan, Deeussen, A.E. de Blois, F.K.	and (1969)	"Ner Proposals for the Description of Tons Sequences in Igbo Completive Phrase", [DMAL 6: 79-84
Pagner, H.K.	(1968)	"VP Complementation: A Criticism" <u>JL</u> 4: 89-91
lard. I.C.	(1936)	An Introduction to the Ibo Language.
slmers, V.E.	(1959)	"Tonenics, Morphotonemics and Tonal Eurphenes", General Linguistics 4: 1-9

Welmers, B.F. and Welmers, W.E.	(19688)	Tobo: A Learner's Dictionary, Los Angeles: The African Studies Centre, University of California
	(1968ь)	Igbo: A Learner's Fanual Private Publication by the Authors, UCLA
Welmers, D.E.	(1970a)	"The Derivation of Igbo Verb Bases"
·	(1970ь)	"Igbo Tonology", <u>SAL</u> 1.1: 255~78
Westerman, D. and Bryant, E.A.	(1952)	The languages of West Africa,
Vesterman, D. and Ward, T.C.	(1933)	Practical Phonetics for Students of African Languages, CuP
Williamson, Kay.	(1966)	"The Status/of /e/ in Unitsha Igbo". JUAL 171.2: 67-70
	(1968)	"Deep and Surface Structure in Tone Languages", JEAL V.2: 77-81
	(1971a) [,]	"Downdrift / Downstep", Research Notes Vol. 3 parts 283: 22-33, Dept. of Linguistics and Higerian Languages, University of Ibaden, Higeria
	(19716)	"Some Alternative Proposals for the Igbo Completive Phrase", Ibid, pp. 63-90
	(1972)	<u>ligho - English Dictionary</u> , Benin City, Rigeria: Ethiope Publishing Corporation
Wilkinson, R.	(1970)	"Factive Complements and Action Complements", CLS 6: 425-444
Winston, F.D.D.	(1960)	"The Midtone in Efik", ALS 1: 188-92
	(1973)	"Polarity, Ecod, and Aspect in Chuhy Igbo Verbs," <u>ALS</u> 13: 119-178