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## PHONOLOGY OF MOKPWE

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## $\triangle \mathrm{DDICAPION}$



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|  | LIST OE ABPREVIATIONS AIDD SYMBOIS |
| :---: | :---: |
| V | Vowel |
| C | Consonant |
| sing. | singular |
| pl. | plural |
| 1 | Low tone |
| H | Fiigh tone |
| $<$ | comes from |
| /..../ | phonemic data |
| L......] | phonetic data |
| $\rightarrow$ | Pecomes, is realized as |
| N | Noun |
| D | Determinant |
| A.i. | Associative Marker |
| Adj | Adjective |
| C.i.e | Concord liarker |
| jem. | Demonstrative |
| Poss. | Possessive |
| Al'R | Advanced tongue root |
| Syll. | Syllabic |
| $\neq$ | horpheme boundary |
| $\neq 1$ | Word boundary |
| 0 | $\Phi$ (voiceless bilabial fricative) |
| B | $\beta$ (voiced bilabial fricative) |

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## GENERAL INTRODUCTION

This work is aimed at a phonological description of Mokpwe, a language spoken by the Bakweri people in and around Buea, which is found in the South West Province of the Republic of Cameron.

When we talk of a phonological description what do we mean? Phonology is the study of how sounds are structured and how they function in languages.

The phonological description of any language is of a great importance because it is through such a study that distinctive sounds in the language are revealed. The goal of phonology is then to study the properties of the sound systems which speakers must learn to internalize in order to use their language for the purpose of communication. Thus when analysing the sound system of a language it is necessary to study not only the physical properties of the attested sounds but also the grammatical printions of these sounds.

In addition, the phonological description of a language constitutes the first stage towards putting the language into writing. It is therefore the most basic description any language needs. The phonology of the language will therefore lead to its subsequent standardization. Also a phonological study will provide an important basis for further studies on the language, like the morphology and ultimately the grammar.

This dissertation is based for the most part on the structuralist approach to phonological analysis, though at iimes we are forced to turn to the generative perspective
to solve certain problems. As mentioned earlier, our concern is with the sound system of Pokpwe, their possible combination into syllables, morphemes and words. We will also be looking at suprasegmental phonobegy. The unit of description that will be used in this work is essentially the word.

As a result of the time factor being against us we are aware of the fact that this work can neither be exhaustive nor definitive. But we intend to ensure that our efforts should pave the way into more studies on the language.

In this first chapter we will situate the Bakweri people geographically and historically. Furthermore the language is looked at in relation to its classification and its linguistic situation. Finally the goals and methodology of the work are outlined.

### 1.1 GENERAL INFORIATION ON THE BAKWERI PEOPLE

### 1.1.1 Geographical situation of Bakweri

Bakweri comprises by far the largest individual clan of the Fako Division in the South West Province. This province is bounded to the West by the Eastern Provinces of Nigeria, to the East by the Mungo River, to the North by the Widikum highlands and to the South by the Bight of Biafra. It is the fourth largest province of Cameroon, with a total population of about 600,000 inhabitants with Bakweri numbering about 20,000 inhabitants. (Archive Office Buea)

The Bakweri occupy 104 villages which lie to the east and south east of a line dividing the Cameroon Mountain along its axis. The majority of villages lie between 1,500 and 3,000ft above sea level, but settlements are found as far afield as the lungo river, the Creeks near Tiko, and the Coast at Ngeme. At their northern and southern extremities the Bakweri are neighbours of the Mboko, while in the Creeks at Ewonji and on the Mungo River at Mondoni, they are neighbours of the Mungo. They are bounded to the north east by four villages of the Dalong who line the River Mungo and to the north between Balong and Mboko, by the Kundu and Lombi.

Although the Buea district is normally regarded as the Bakweri area, many of their villages are found to be in the neighbouring limbe and Tiko divisions. The area of land occupied by this tribe measures about 100 square miles. Large portions of the territory originally regarded as their property now belong to various plantations.


#### Abstract

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The dominant feature that one finds in this area is the Cameroon Mountain. Several series of hills set on gradual slopes break the area into valleys and fissures, the vast majority of which are covered with thick forest. Lava rock is found every where and the soil is seldom deep. The paths are thereby rendered rough and travelling by foot is tedious and hard.


### 1.1.2 Historical Situation

Oral tradition holds that the Bakweri originated around the great lakes lying between the Nile and the Congo about $400 \mathrm{~B} . \mathrm{C}$. The race then broke up within a series of emigrant groups which then spread throughout Southern Africa, East Africa and Cameroon.

Thlsepeople regard themselves as an offspring from a much older stock of their race known as the Bomboko's. From Bomboko therefore, the Bakweri came and when they had finally entered and settled in their present home they called themselves "Vakpeli" 'those who have settled" (the 'v' is a bilabial [B]). The leader of the group that split from Bomboko and founded Buea was called Eye Njie and from him the town derives its name Buea which means the children of Eye.

Ardener (1956) elaborates on this tory of Eye Njie. According to Ardener the people of the Kpe tribe (Bakweri) believe their ancestor to be Eve Njie who came from Womboko village to hunt on the eastward side of the Cameroon Mountain with a friend Nakande. Nakande used to hunt near
present day Wokanda while Eye Njie remained at Mosole near present day Buea. He called his new place his "ligbea" that is place where work is in hand. They later on brought their wives and relatives and settled in this new found 1and.

There are many other stories concerning the descendants of this tribe. Bridges (1935) in his report states that the name "Bakweri" is a corruption by Douala traders from the original "Bakwe" which the members of the Bambuko clan of Kumba Division who first settled south of the mountain had adopted. This word signifies that the bearers dwelt far from the sea. An alternative explanation put forward by the village of Soppo is that it means the desdendants of one "Mokweri" who came from Pitti near Douala.

Another version of Kale (1959) holds that most of the people of the South West, Littoral, Centre and South provinces have a common ancestry. According to him the father of the Bakweri, Douala, Basa, Bakoko, Bassossi, Ewondo and Bamboko is Nambongo. He is said to have migrated from Uganda.

### 1.1.3 Socio-economic situation

In the past the Bakweri race is reported to have been daring and warlike but during the present century they have finally laid down the sword and taken up the tongue.

The economy of the Bakweri people is greatly agriculturally oriented, though most of their land has been
taken up by the plantation. The women do all the farm work while the vast majority of men do nothing. They do not trade and cannot even be bothered to collect palm fruit from which to extract oil but hire their trees to strangers for this purpose. There is some sort of a division of labour amongst this people, because while the women do the agricultural work, the men are involved with the pastoral work. They carry out the breeding of livestock which constitutes most of their entire wealth. The pig is regarded as the symbol of wealth.

Apart from the agricultural activities that the women do, the Bakweri have no known arts.

Socially, the area comprises of heterogenous people. This maybe as a result of the fact that Buea is the administrative capital of the province. Moreso, the presence of the CDC plantations has brought in labourers from different regions who have now settled in the area. The consequence of this immigration is that the Bakweri have now become a minority in their area.

### 1.2 THE IANGUAGE

1.2.1 Linguistic Situation

The language spoken by the Bakweri is known by the indigenes as "mbosa Mokpe" or simply "ifokpe". Ardener (1956) gives an account of this name as follows: kpè (sing.) mò-; (pl.) và-

The $V_{\text {is }}$ bilabial and as such we have "bàkpè" which is
 Lel to the Douala "Hikwedi", the name of these pecile is also known as Wojua by the Mboko and Isuwu of the coast. The name Bakweri is based on the Douala form.

The speakers of this language are for the most part polyglot. Most of the people do speak Duala and are gradually assimilating this language into theirs. This can be accounted for by the fact that during the colonial days Douala was used as a lingua franca by the missionaries and traders. As a result the other coastal towns and villages had to learn this language, whose effect is felt up till the present day.

Generally, people have the tendency to believe that Mopkwe is a dialect of duala. This is a false assumption because though they have certain similarities they are classified into different groups. This will be discussed detailly in section 1.5 .

Ardener (1956) shows us some sound correspondences between duala and mokpe.

| sound | duala | sound | mokpe | Gloss |
| :--- | :--- | :--- | :--- | :--- |
| $/ \mathrm{b} /$ | bònà | $/ \mathrm{w} /$ | wònyà | "descendants" |
| $/ \mathrm{bw} /$ | bwàm | $/ \mathrm{gb} /$ | gbámù | "goodness" |
| $/ \mathrm{d} /$ | dinà | $/ 1 /$ | lìnà | "name" |
| $/ \mathrm{kw} /$ | kwédi | $/ \mathrm{kp} /$ | kpéli | "death" |

In vocabulary Mokpe and douala have a great deal of common origin but related words very of ten have sounds that appear in different contexts of reference．

| Mokpe | Gloss | duala | Gloss |
| :---: | :---: | :---: | :---: |
| mb6à | ＂village＂ | mbóa | ＂home＂ |
| mweli | ＂moon light＂ | m欠̛̇i | ＂month＂ |
| mwindi | ＂dry land＂ | mùndì | ＂village＂ |
| ygbènde | ＂moon／month＂ | ngふ̀ndè | ＂war disk＂ |

Mokpwe and her neighbours have a high degree of mutual intelligibility and genetic relation as we are going to see with the languages spoken in the inland Bakundu group．

| Mokpe | Balundu | Balong | Gloss |
| :--- | :--- | :--- | :--- |
| molánà | mwáránà | mwalân | woman |
| mòleli | moléli | modyè | food |
| àsá | sáká | sák | to want |
| Èndè | kéndé | kénd | to go |

Pidgin English in this area is almost the sole lingua franca．It is the most active linguistic influence at work at moment in the heteregenous community resulting from the interaction of indegenes and settler elements． The bakwe are fast assimilating pidgin English into their vocabulary．Ardener（1956）gives some few illustrations of this assimilation．The pidgin English＂king＂has become＂kiŋge＂，＂na fiti＂，＇I can＇from pidgin English＂I fit＂has led to the formation of＂lifite＂which means ＂＋の そ h！＂

### 1.2.2 Classification

Mokpwe is a coastal Bantu language which constitut is only a minute portion of the main language family occupying the southern third of the African continent known as NigerKordofanian. This language family is one of the four major language families into which the languages of Africa have been divided. These include:

Niger-Kordofanian
Nilo-Saharan
Afro-Asiatic
Khoisan.

According to Guthrie (1948) Mokpwe is a Bantu language of the North-west group, Zone A of his classification. Guthrie places the languages of the Kpe-Mboko and the Duala-Limba in the same category (A20).

Zone A

## Group 20

21 Mbuku
22 Kwiri (mokpe)
23 Subu
24 Duala

Although Mokpwe is generally classed with the Duala group as earlier said, the languages of Mokpwe, Mboko, Isuwu and Wovea form for practical purposes a clear subgroup. This is the reason why Ardener (1956) separates it from the duala group. He classifies it into the group he calls "Kpe-Mboko Group" which comprises of Mboko, Isuwu and Wovea.

Atlas Linguistique du Cameroun also classifies Mokpwe as a distinct language area from Duala. According to ALCAK Mokpwe falls under zone 6 which consists of languages spoken along the coast and also in some areas in the hinterland. Furthermore Mokpwe is given the number 621.

### 1.2.3 Review of Literature

The languages of the coastal Bantu group with the only exception of duala has not been the object of linguistic studies for quite a long time. As a result there are rather few, if any written materials about these languages. Mokpwe as a language of this group faces the same problem. This language has not been an object of much devoted linguistic exploration.

Ardener (1956) in his "Coastal Bantu of the Cameroons" is the only available source of written facts about the language and the people. Linguistically the book is not exhaustive because it is essentially on sociological study. Although Ardener makes mention of certain written texts by Ittman, this is not available.

All the same some natives from this area undertook a project in which they published diaries in their mother tongue, but the project is no longer in existance. There is also a dissertation on the noun class system of the language written by Bate B.B. (1987).

### 1.3 GOALS AND METHODOLOGY OT WORK

This dissertation is a phonological study of the Mokpwe language. Its ultimate concern is the establishment of an alphabet for the language. As earlier mentioned such a study will help provide a viable and scientifically reliable writing system of the language. An obvious consequence of putting a language into writing is that the people will be able to preserve their culture in written material. Furthermore a phonological study of the language helps in the description of the language. It will also set up a basis for comparative work on the language.

### 1.3.1 Methodology and Data source

This work has been realized on the basis of a corpus of about 1,200 words and some pages of transcribed texts collected from several informants some of whose names are mentioned below. The research was carried out in Yaounde and Buea.

Data on Informants

| NAME | DATE OF <br> EIRTH | LEVEL OF <br> EDUCATION | PROFISSION | RESIDENCE |
| :--- | :---: | :--- | :--- | :--- |
| LUNA Francis | 1935 | F.S.L.C. | Security Guard | Buea |
| NJOH Hans | 1955 | GRADE ONE | Teacher | Buea |
| EKOSSO Lucas | 1937 | GRADE ONE | Teacher | Buea |
| EKOSSO Esther | 1966 | R.S.A. | Secretary | Buea |
| EPOSI Lety | 1966 | 'A' Levels | Student | Yaounde |

We are going to follow the structuralist approach in our phonological analysis. In the framework of the structuralist theory Jean-Louis Duchet (1972) underlines the fact that:
"Les niveaux phonologique et morphologique d'une langue doivent rester distincts, même si un grand nombre de règles de la morphologie sont formulés en termes de phonologie."

As such our study will be focused on the sound system of the language and great attention will be geared towards the analysis of minimal pairs, so as to bring out distinctive sounds in the language.

Our step by step analysis is in conformity with the principles laid down by Pike (1947) and Wiesemann et al (1983). We will first of all establish a list of phonetic sounds of the language from which we obtain another list of similar pairs or even trios of sounds. We then examine their opposition in words. From the analysis we will be able to identify segmental and suprasegmental phonemes as well as the variants and/or allophones. In cases where the sound by virtue of its distribution will be a phoneme but we cannot establish an opposition in identical or analogical contexts with another similar sounds we will apply the principle of symetry.

Furthermore we will establish the different combinations of the phonemes with regards to the syllable, word and the phrase. All this constitute the syntagmatic section of the work.

Though structuralist consider phonology as the centre of language, the generative theory assigns to phonology a superficial place in relationship to syntax. The generative theory is concerned with the formulation of phonological rules from underline reprosentations of the language. Morphology has also been intergrated in phonology. Structural phonology is different from generative phonology in a certain number of facts, but if we look at the difference just mentioned above it will be difficult for us to pretend that we are strictly following the framework of a single theory. In effect we are adopting the structuralist approach, but faced with certain problems we shall use the generative method which in such cases seemed more explicit.

We are going to take the lexical unit as our basic unit of analysis, that is to say the lexical unit will serve in contexts in which we will identify phonological distinctive units. It is therefore important for us to define what a lexical unit is. This definition depends largely on grammar and not only on phonology. This cannot be otherwise because if we proceed firstly to the paradigmatic analysis it will be necessary to work with a defined element. In our subsequent analysis we will be considering our lexical unit to be the "phonological word". In Chumbow (1982) the phonological word constitutes of the stem or root and its dependent affixes (prefixes and suffixes).

### 1.4 OUTLINE OF WORK

This dissertation has been divided into six major chapters which are subdivided into various sections. which was
Chapter one $\lambda_{\lambda}$ the introductory chapter the geographical, historical and socio-economic situation of the Bakweri people. The languagewhs then discussed in relationship with its neighbours and its linguistic classification is given.

Chapter two treats segmental phonology using the structuralist approach in the analysis. It constitutes the analysis of minimal or near minimal pairs with the aim distinctive of bringing out the pertinent sounds (phonemes) of the language.

Chapter three examines the problems encountered in the course of the analysis.

Chapter four is concerned with the syllable morpheme and word structure of the language. The chapter goes on to look at the morphemes which can be combined to form words and also the examination of words that comprise just of roots and those that comprise both roots and affixes.

Chapter five constitutes the supra-segmental section of the work. It comprises of the analysis of prosodic features such as vowel length and tones.

In chapter six a proposal of an alphabet as well as orthographic principles of the Mokpwe language is presented. After this presentation comes the general conclusion.

The transcription signs used are those of the phonetic alphabet of the International African Institute (I.A.I.) that has been presented in the General Alphabet of Cameroon Languages (Tadadjeu and Sadembouo 1984).


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## OHHERTM

## SEGMENTAL PLIONOLOGY

In this chapter, our main concern is to brine out distinctive sounds in the language. That is sounds that have a phonemic status. The methods that will be constantly used will be the minimal pairs approach propnunded by Pike (1947) and Wiesemann et al (1983). As such we will examine pairs or even trios of words in either identical or analoguous contexts in order to establish the phonemic status of the sounds. If we cannot establish the sounds as distinctive units we will examine their distribution in words in which they occur, to see if they exist in complementary distribu tion in order to establish them as allophones of one phoneme.

### 2.1 COMSOMANCS

We will now proceed in the analysis of the consonant sounds attested in liokpwe, to see if some of them constitute distinctive units in the language or are simply allophones of other phonemes.

### 2.1.1 Phonetic Inventory

The chart which follows contains all the phonetic consonant sounds attested in Hokpwe. These sounds are classified according to place and manner of articulation. From the chart we have groups of suspicious sounds which exhibit phonetic similarities of one type or the other.
$\overline{\text { I BIGEU }}$

| M |  |  | $\hat{\kappa}$ |  |  |  | səptto |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | $T$ |  | sptrnbut |
| 93a |  |  |  | ¢u | pu | quI． | steseu－2xd |
| खu |  | ¢ ${ }_{\text {d }}$ | U |  | u | u | STESEN |
|  | MY |  |  | $\varepsilon u$ |  | ¢ $\Phi$ | ```pəoton SOMTTEOTME``` |
|  |  |  |  | － |  |  | $\begin{aligned} & \text { pəoton } \\ & \text { ssətəoton } \end{aligned}$ |
|  |  | \＃ | ， |  | 7 | Mq ${ }^{\text {q }}$ | $\begin{aligned} & \text { pəoton } \\ & \text { ssetəoton } \text { sdoqs } \end{aligned}$ |
| $\begin{aligned} & \text { SYGTEA } \\ & \text { OIEVI } \end{aligned}$ | $\begin{gathered} \text { SIVU } \\ -\mathbb{W O T}, \end{gathered}$ | STETEA | SIVUUTVX | SIVUVIVX <br> －क्ञTC | SWUTOEATV | SIVIQVIIE | UOT7ETVOTfTV <br> ェ๐ ォәиนен |
|  |  |  |  |  |  |  |  よO әoetd |

They therefore call for a close analysis in order to bring out the real nature of their similarities.

## Pairs of similar sounds

$$
\begin{aligned}
& (p, b)(p, \overline{0})(b, b w)(\overline{0}, B)(m, n)(m, m b)(m, w)(n, n d)(t, n d) \\
& \left.(n, l)(n, p)(n j, j)(p, y)(k, k p)(k, n g)(g b, \eta)_{b}\right)(h w, w) .
\end{aligned}
$$ -

These pairs of sounds exhibit a high degree of phonetic resemblance. It is these similar characteristics which will allow us to determine and justify the position of two sounds as phonemes or allophones. A phonemic analysis will now come in to determine the actual relationship between a pair of sounds.

### 2.1.2 Phonemic Analysis

## Labials

The sound $\left[p_{-} 7\right.$ (voiceless oral bilabial plosive)

| (i) $\underline{p / b}$ | póngठ | "south" | libáè | "to lend" |
| ---: | :--- | :--- | :--- | :--- |
|  | pub | "kidney" | libslènè | "loss" |
|  | piaf | "pear" | lib | "to rot" |

$\underline{p}$ and $\underline{b}$ are sounds which are not common in the language. From the data collected we could lay hands on only the above examples illustrating the occurrence of this sound, $\underline{p}$ and b are in complementary distribution. $p$ appears where b never occurs. It occurs in the intervocalic position and takes the voiced quality of the vowels. Therefore the phonoetic quality of $\underline{b}$ is conditioned by the vowels. $p$ and $\underline{b}$ are therefore allophones of the same phoneme.
$[\mathrm{b}]$ in between vowels (intervocalic $\begin{gathered}\text { position) }\end{gathered}$

$$
/ \mathrm{p} /[\mathrm{p}] \text { elsewhere }
$$

| p/ 1 | pong | "south" | ¢ゝ ng | "grain" |
| :---: | :---: | :---: | :---: | :---: |
|  | púo | "kidnes" | @á | "matchet" |
|  | piè | "pear" | ¢éa | "sore" |

$\dot{p}$ and 0 are separate phonemes since they contrast in analoguous environments. The status of /p/as a phoneme is thus established.
(ii) The sound /bl (voiced bilabial plosive)

| b/bw | libale | "to lend" | bwángo | "to take care op" |
| :---: | :---: | :---: | :---: | :---: |
|  |  | "loss" | bwítàko | "swelling" |

bw and $\underline{b}$ are in variation. $\underline{b}$ occurs intervocalicly and bw at word initial. They are therefore in a mutual exclusive environment and are therefore allophones of the same phoneme.
b/p see (i)
From the above analysis of $p$ and $\underline{b}$ we discover that they are all allophones of the same phoneme $/ \mathrm{p} /$.
(iii) The sound $/$ (voiceless bilabial fricative)

| Q/B |  | "hope" | 1aßite | "wish" |
| :---: | :---: | :---: | :---: | :---: |
|  | 1i¢̣áneà | "to destroy" | liß̧óngà | "to forget" |
|  | 1ì¢àèà | "broom" |  | "to coagulate" |
| \$/p | ¢3 nej | "grain" | p $\quad$ ¢g | "south" |
|  | Óó | "matchet" | pus | "kidney" |

0 is realized in all environments as the voiceless bilabial fricative. It's contrast with $\mathcal{B}$ and $p$ establishes its phom nemic status. It occurs oily at syllable onset position of words.
(iv) The sound $/$ B (voiced bilabial fricative)

```
L| see (iii)
```

The status of $B$ as a phoneme is seen through its contrast with 甲. . It occurs only in syllable onset of words. It is $^{\text {. }}$ realized in all environments as a voiced bilabial fricative.
(v) The sound /m] (bilabial nasal)

| $\mathrm{m} / \mathrm{n}$ | Ifmà | "jaw" | línà | "name" |
| :---: | :---: | :---: | :---: | :---: |
|  | winmà | "baobab" | lùná | "to be old" |
|  | İtobmà | "to bark" | Iitònà | "mistake" |
|  | İıne | "to swallow" | IEnè | "to look" |
|  | jème | "tongue" | jòns | "finger" |
| $\mathrm{m} / \mathrm{mb}$ | mólì | "wealth" | mbóli | "goat" |
|  | İ̀témè | "debt" | 1itèmbé | "to lick" |
|  | Ifmà | "jaw" | lùmbà | "to stink" |
|  | ย̇દิmè | "habit" |  | "to blow one's nose" |
| $\mathrm{m} / \mathrm{w}$ | múná | "flame" | wíne | "of twenty-four hours" |
|  | mà̀ná | "names" | wánà | "mouth" |
|  | màwâ | "marriage" | wòwe | "medicine" |

m is established as a phoneme in the language through its contrast with $\underline{n}, \underline{m b}$ and $\underline{w}$. It is realised as a bilabial nasal in all environments.
(vi) The sound [mb] (prenasalised voiced bilabial plosive) $\mathrm{mb} / \mathrm{m}$ see $\mathrm{m} / \mathrm{mb}$ in (v) above.

The status of mb as a phoneme is established through its contrast with m. It occurs in syllable onset.

## Alveolars

(vii) The sound $/ n 7$ (alveolar nasal plosive)

| $\mathrm{n} / \mathrm{nd}$ | Iana | "to fight" | làndá | "to buy" |
| :---: | :---: | :---: | :---: | :---: |
|  | 1ยnè | "to look" | 1Enç | "to go" |
|  | Iùná | "to be old" | Iìindà | "to be black" |
| $\underline{n} / 1$ | mánà | "names" | mulu | "elder" |
|  | lùna | "to be old" | Iilô | "voice" |
| $n / n$ | nà | "and" | pû | "human body" |
|  | linà | "name" | nìna | "louse" |
|  | nångê | "now" | pònga | "trade" |

$\underline{n}$ is realized in all environments as an alveolar nasal. It is a distinctive sound unit in the language whose status as a phoneme is established through its contrast with nd, 1 and $\underline{n}$. It occurs only in syllable initial positions.
(viii) The sound [nd] (prenasalised voiced alveolar plosive) nd/n see $n / n d$ in (vii) above.

Through its contrast with $\underline{n}$ in identical contexts, the status of nd as a phoneme is establiched. This phoneme is realized in all environments as a prenasalized alveolar stop.
(ix) The sound $\sqrt{ } 1$ (voiced alveolar lateral liquid)
$1 / n$ see $n / 1$ in (vii) above.
1 is realized as an alveolar lateral in all its environments of occurrence. Its contrast with $\underline{n}$ in analoguous environments establishes its status as a phoneme.
$x)$ The sound $\langle t]$ (voiceless alveolar plosive)

| t/nă lìte | "to be sweet" | lèndé "to ro" |
| :--- | :--- | :--- |
| lètá | "hard" | làndá "to buy" |
| litánà "to be white" | liindà "to be black" |  |
| tàmbá "hat" | ndáwò "house" |  |

The status of $t$ as a phoneme is established through its contrast in analogous environments with nd. It is realized in all environments as a voiceless alveolar plosive.

## Pre-palatals

xi) The sound [i] (voiced pre-palatal oral affricate)

| $j \angle n j$ | jons | "finger" | njònjs |
| :---: | :--- | :--- | :--- | "mushroom"

i occurs at word initial position. Its status as a consonant phoneme in mokpwe is established through its contrast with ni. It is realized as a voiced pre-palatal oral affricate in all its environments of occurrence.
xii) The sound $[n, j$ (pre-nasalized pre-palatal affricate) ni/i see (xi) above.

The status of $n j$ is as a phoneme is seen through its contrast in analogous environment with the sound i. It occurs in the initial and medial posjtion of words.

## Palatals

$$
\begin{gathered}
\text { xiii) The sound }[n] \text { (palatal nasal plosive) } \\
n / y \text { nàmà "animal" yomà "abcess" } \\
\text { nòngá "trade" }
\end{gathered}
$$

$\mathrm{n} / \mathrm{n}$ see $\mathrm{n} / \mathrm{n}$ in (vii) above.
The status of $\underline{n}$ as phoneme is established through its contrast in analogous environments with the phonemes $y$ and $\underline{n}$. It occurs only in syllable onset positinn.
xiv) The sound [y] (voiced palatal oral glide) $y / n$ see $n / y$ in (xiii).

The glide $y$ obtains its status as a phoneme in mokpwe through its contrast with n. It occupies only in syllable onset and only in the initial position of words.

## Velars

xv) The sound $[\mathrm{k}]$ (voiceless velar oral plosive)

| $k / k p$ | likà | "to add" | ikpá |
| :--- | :--- | :--- | :--- | "salt"

The position of $k$ as a phoneme in Fokpwe is established through its opposition with kp and ng in analogous environ-
ments. It is realized in all environments as a voiceless veler oral plosive.
xvi) The sound $\lceil\mathrm{kpl}$ (voiceless labiovelar stop)

| $\mathrm{kp} / g \mathrm{bb}$ | likpâ | "to fail" lígbà | "thieving" |
| ---: | :--- | :--- | :--- |
| mòkpáni "fool" | màgbáni | "mumps" |  |
| kpelí | "death" | gbìto | "tale" |
| likpéà | "to enter" ligbèá | "to make" |  |

$\mathrm{kp} / \mathrm{k}$ see $\mathrm{k} / \mathrm{kp}$ in ( xv ).
kp obtains its status as a phoneme through its contrast with gb and k in analogous contexts.
xvii) The sound [gb] (voiced labiovelar stop)
$\mathrm{gb} / \mathrm{kp}$ see $\mathrm{kp} / \mathrm{gb}$ in (xvi).
gb/ngb làgbá "to climb" ggbâ "dog"
lígbà "thieving" lìngbǎ "to give"
mògbèli "worker" língbàla "to bride"
The status of gb as a phoneme is seen through its contrasts with kp and ngb in analogous environments. It is realized in all environments as a voiced labiovelar oral stop.
xviii) The sound/ngb/ (labiovelar prenasalized stop) $n g b / g b$ see gb/ngb in (xvii).
ngb establishes its phonemic status in the language through its contrast with gb in analogous environment. It occupies both the initial and medial positions of words and is realized in all environments as a prenasalized labiovelar stop.
xix) The sound[ng] (labiovelar prenasalized stop) $n g / k$ see $k / \eta g$ in (xv).

From its contrast with $k$, $n g$ obtains its phonemic status in the language. It occurs in the initial and medial position of words. In all its environments of occurrence it is realized as a labiovelar prenasalized stop.
xx) The sound /w/ (oral labiovelar approximant (glide))
w/m winá "twenty four hours" múná "flame"

| wàná "mouth" mánà "names" |  |
| :--- | :--- |
| wòwé "medicine" | màwâ "marriages" |

W/hW wàna "mouth" hwánà "children"
lowá "excrement" Iihwâ "marriage"
liwû "ashes" lihwelê "to call"
W occurs in syllable onset position. It's status as a phoneme is obtained through its contrast with $m$ and hw. W never occurs before the back rounded mid-wowel 9 .
xxi) The sound [hw]
$h w / w$ see $w / h w$ in ( $x x$ ) above.
hw is a distinctive sound unit in the language whose phonemic status has been established through its opposition with W. It is a labialized glottal fricative.
2.1.3 Definition and classification of consonant phonemes $/ \mathrm{p} / \mathrm{bilabial}(\mathrm{p} / \mathrm{b})$ oral ( $\mathrm{p} / \Phi$ ) voiceless stop. /b/ bilabial (b/bw) oral, voiced, stop. $/ \Phi /$ bilabial $(\Phi / \beta)$ and $(\Phi / p)$ voiceless fricative.
$/ \beta /$ bilabial, oral ( $B / 0$ ) voiced fricative.
/h3/ voiced prepalatal fricative.
$/ \mathrm{m} / \mathrm{bilabial}(\mathrm{m} / \mathrm{n}, \mathrm{m} / \mathrm{mb})$ nasal ( $\mathrm{m} / \mathrm{w}$ ).
$/ \mathrm{mb} / \mathrm{bilabial}(\mathrm{mb} / \mathrm{m})$ pre-nasal.
/t/ alveolar, voiceless, oral, stop. $/ n /$ alveolar ( $n / n d, n / 1, n / n$ ) nasal.
/nd/ alveolar (nd/n) pre-nasal.
/l/ alveolar ( $1 / \mathrm{n}$ ) oral, liquid.
/j/ pre-palatal, affricate, voiced, oral.
$/ \mathrm{nj} /$ pre-palatal, pre-nasalized affricate.
$/ n / p a l a t a l(n / y, n / n)$ nasal.
/y/ palatal (y/f) oral, glide.
/k/ labio-velar, voiceless, oral, stop.
/ng/ labio-velar, pre-nasalized stop.
$/ \mathrm{kp} /$ labio-velar (kp/gb) voiceless, oral, stop.
/gb/ labio_velar (gb/kp) voiced, oral, stop.
$/ \mathrm{mm} /$ labio-velar nasal.
/ngb/ labio-velar prenasalised stop.
/w/ labio-velar (w/m) glide.
/hw/ labiolized glottal fricative.

## Classification of Consonants

We have been led to establish seven series of consonants as follows:

- stops, voiceless voiced
- Pricatives, voiceless voiced
$\mathrm{p}, \mathrm{t}, \mathrm{k}, \mathrm{kp}$
bw, gb.
$\phi$
B
- pre-palatals
j, h3
- Nasals
$m, n, f, \eta \varepsilon$
- pre-nasals mb, nd, nj, ngb
- liquids
- Glides

1
y , w .

### 2.1.4 Phonemic Inventory

Using the methods we outlined at the beginning of this chapter, we have come out with 20 phonemic consonants out of 24 phonetic ones. These phonemic consonánts are grouped into stops, fricatives, nasals, laterals and glides. The status of most of the consonants as phonemes was established through their contrast in minimal pairs or in analogous environments. The following table indicates all the distinctive consonant sounds in Mokpwe.
$\overline{2}$ GICvi

| M |  |  | $\Lambda$ |  |  |  | saptrto |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | I |  | spụnbțt |
| q. $\mathrm{S}_{\text {a }}$ |  | 34 |  | ¢u | pu | qu | steseu-əxd |
| ma |  |  | ut |  | u | u | stesen |
|  |  |  |  | ¢ |  |  |  |
|  | $M^{4}$ |  |  |  |  | ¢ ¢ |  |
| dy |  | Y |  |  | 7 | đ |  |
| - SEMTEA | - STYT | STVTTA | STVLFIVE | STVIVIVd | StVIOCATV | SIVIEviIIE | NOITVTIDITHV <br> सo yedirly HOIUVTNOTIUY <br>  |



## 2.2

## VOWELS

Our concern in this section, as was the case with consonants will be, to establish which vowel sounds are phonemic and which are simply allophones. The language does not represent a wide variety of vowels.

### 2.2.1 Phonetic Inventory

There are seven phonetic vowels in Mokpwe. They are classified according to position of lips, height of tongue, passage of air and horizontal movement of tongue. Table three below shows all the vowel sounds in the language.

Phonetic Vowel Chart

| Position <br> of tongue <br> and lips | Front <br> Height <br> of tongue | Central <br> Unrounded | Back <br> Rounded |  |
| :--- | :---: | :---: | :---: | :---: |
| High | i in |  | uu | u |
| Mid-high | e | ee |  | 00 |
| Mid-low | $\varepsilon$ | $\varepsilon \varepsilon$ |  | 0 |
| Low |  |  | a |  |

N.B. The position of vowels in this chart is not based on a phonetic plotting in terms of the standard phonetic principles but on an approximative oral perception of the accoustic distance between the sounds.

### 2.2.2 Phonemic Analysis

i) The phoneme i (high, front, unrounded vowel)

i/e léti "hara" | lewá | "to sharpen" | lîe |
| :--- | :--- | :--- |
| mâ | "to shout" |  |
| mèyà | "intestines" | lìyá "hand" |
| mbàkì "fog" | mbiké "mưte" |  |

| i/u njal | "no" | njàú | "hungry" |
| ---: | :--- | ---: | :--- |
| mòli | "wealth" | múur | "elder" |
| líbà | "to steal" | lúbù | "nest" |


| i/o "ti "fool" "no" | eto "small" |
| :---: | :---: | :---: |
| njài | njæò "hunger" |

The contrast of $i$ in identical and analogous contexts with the vowels $e, \underline{u}$ and $\varrho$ is established above. Thus its phonemic status is defined.
ii) The phoneme e (mid-high, front, unrounded vowel) e/i see $i / e$ in (i) above.

| e/u | 11w | "breast" | Iixwû | "ashes" |
| :---: | :---: | :---: | :---: | :---: |
|  | Iètá | "hard" | Iùtá | "to preserve" |
| e/ | İte | "sweet" | litê | "to scream" |
|  | lèona | "to sow" | lè $\frac{1}{}$ है | "to shine" |
|  | Iitènì | "middle of" | İ̇témè | "to sing" |
| e/o | lite | "sweet" | Iftô | "ear" |

e is realized as a phoneme through its contrast with $\dot{i}, \underline{u}$, $\underline{\varepsilon}$ and $\underline{\circ}$.
iii) The phoneme $\varepsilon$ (mid-low front unrounded vowel)

| ع/a | Lìw | "breast" | İıwâ | "to narry" |
| :---: | :---: | :---: | :---: | :---: |
|  | like | "harvest" | loká | "to play" |
|  | lufe | "to remove" | lùtá | "to preserve" |
| $\underline{1} / 0$ | lits | "to scream" | Jits | "drop of liquid" |
|  | like | "harvest" | Iiks | "to hate" |
|  | 1ăt¢ | "to swear" | 13ts | "weak" |

This third cardinal vowel is realized as the front unrounded mid...low vowel. It's contrast with a and $\supseteq$ establishes its status as a phoneme.
iv) The phoneme a (low, central unrounded vowel) a/z see $\varepsilon / a$ in (iii) above.

| a/o | lıwa | "marriage" | liws | "neck" |
| :---: | :---: | :---: | :---: | :---: |
|  | loká | "to play" | liks | "to hate" |
|  | lùtá | "to preserve" | 1ヶt | "weak" |
| a/o | 1ilâ | "to chew" | 1110̂ | "voice" |
|  | lùtá | "to preserve" | litô | "ear" |

a is a phoneme in Mokpwe whose phonemic status is marked by it's contrast with $\underline{\varepsilon}, \underline{2}$ and $\underline{o}$.
v) The phoneme u (hi.gh, back rounded vowel)
u/i see $i / u$ in (i).
u/e see e/u in (ii).
$\underline{\text { u/o mùùli } " \text { storm" mòli "hill" }}$
muiu "elder" mòli "wealth"
njàu "hungry" njào "hunger"

| u/o mùlú "breath" | mslù "canoes" |  |
| ---: | :---: | :---: |
| lìwû | "ashes" | liwò |

This phoneme is realized in all environments as the high back rounded vowel. Its opposition with i, e, 0 and $o$ makes it a distinctive sound unit in mokpwe.
vi) The phoneme o (low, back, rounded vowel)
o/i see i/o in (i).
o/e see e/o in (ii).
o/u see $u / 0$ in (iii).
The phonemic status of this sound is established through its contrast with $i$, $e$ and $u$ in identical and analogous contexts.
vii) The phoneme o (mid-low, back, unrounded vowel)
$\rho / \varepsilon$ see $\varepsilon / 0$ in (iii).
2/a see $a / 0$ in (iv).
$p / u$ see $u / 0$ in ( $v$ ).
olo 15ts̀ "weak" lstò "tired"
This phoneme whose phonemic status is marked by its contrast with $\varepsilon$, $a, u$ and $o$ is defined as the back rounded mid-low vowel.

### 2.2.3 Definition and Classification of Vowel Phonemes Definition of Vowels

We present below the features which characterise each vowel in distinguishing it from the others. /i/ Front, high, (i/e) unrounded (i/u).
/e/ Front, mid-high, (e/i) unrounded (e/ e).
$/ \varepsilon /$ Front, mid-low ( $\varepsilon / e$ ) unrounded.
/a/ Central ( $a / 0$ ) low, unrounded.
/ $\mathfrak{d} /$ back, high ( $u / 0$ ), rounded (u/i).
/o/ back, (o/o) mid-high (o/u) rounded.
/o/back, mid-low (o/0) rounded ( $0 / a$ ).

## Classification of Vowels

We are going to classify the vowels by the height of the tongue and the position of the tongue in the mouth.
a) - Height of the tongue:

- High vowels: i, u
- Mid-high vowels: e, o
- Mid-low vowels: $\varepsilon$, 0
- Low vowel: a
b) - Position of tongue:
- Front: i, e, $\varepsilon$
- Central: a
- Back: u, o, o


### 2.2.4 Phonemic Inventory

Out of the seven phonetic vowels identified, all have come out as phonemes. These vowels occur only in open syllables because of the non-existance of close syllables in the language. The table which follows indicates all the vowel phonemes with their articulatory properties.

| Position <br> Height tongue <br> of tongue | Front <br> Unrounded | Central <br> Unrounded | Back <br> Rounded |
| :--- | :---: | :---: | :---: |
| High | 1 |  | $u$ |
| Mid-High | $e$ |  | 0 |
| Mid--Low | $\varepsilon$ |  | 0 |
| Low |  |  |  |

The phonemic status of the long vowels is difficult to establish because all the vowels in the language are capable of being lengthened. This will be discussed in detail in section (5.1).

From the analysis that we have done in this language, we have observed that a majority of the consonants do appear in word initial and intervocalic positions. The two contexts of analysis were the identical and analogous contexts. It can be observed that most of the vowel phonemes contrasted in identical contexts, unlike the consonant phonemes which contrasted with each other in analogous contexts.

Another observation within this analysis is that only the following vowels $e, \rho, \varepsilon$ and $i$ can stand on their own as syllables in a word.

TABIE 5: "+" indicates an attested combination "-" indicates an absence of combination.

Roots

Vowels in Syllable Peak


|  | Prefixes | Vowels in syllable peak |  |  |  |  |  | 0 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | i | e | $\varepsilon$ | a | u | $\bigcirc$ |  |
|  | m | - | + | - | + | + | + | - |
| +880゙ | 1 | + | - | - | - | $\cdots$ | - | - |
| $\begin{aligned} & 0 \\ & 0 \\ & 02 \end{aligned}$ | W | - | $+$ | - | - | - | - | - |
|  | y | - | - | - | - | - | $+$ | - |
|  |  |  |  |  |  | TABLE 6 |  |  |

Table five shows that the most regular vowels which follow a good number of consonants are the central vowel /a/ and the back vowels /u/, /o/, / / /

Looking at the two tables we notice that there are certain combinations which occur both in roots and affixes. These are me, ma, mu, mo, li, we, and yo.

### 2.2.6 Vowel Harmony

The vowel system in Mokpwe is dominated by the phenomenon of vowel harmony, which is very rampant in many African languages. This phenomenon involves a situation in which vowels agree in certain features such as backness, rounding and so on. The vowels in a language with vowel harmony can be said to belong to two different groups.

According to Chumbow (1982) vowel harmony systens of Africa can be categorized into two-'complete" and "incomplete"vowel harmony systems. Complete systems are generally those
of languages with a phonetic inventory of nine or ten vowels, divided into parallel mutual exclusive sets distinguished by a phonetic feature, usually the feature advanced versus retracted tongue root. In incomplete vowel harmony system, there is generally a reduced phonetic inventory of seven or fewer vowels and harmonical sets with two or more overlapping vowels that co-occur with vowels of either set. It is this latter situation that we find in mokpwe.

Set $A$
$i$
$u$
$e$
0
$a$
Set B
$i$
$u$
$\varepsilon$
0
a

In this incomplete vowel harmony system that we find in the language, $i, \underline{u}$ and a co-occur in sets $A$ and $B$. Notice that
 sive, $\underline{i}, \underline{u}$ and a are "neutral" because they co-occur with vowels of either set.

The harmony we find in this language is that of root harmony The mid-vowels e, o never comoccur with $\varepsilon$, $\underline{\underline{c}}$ in roots while on the other hand $i, \underline{u}$ and a may occur with any of the four mid-vowels and with each other.

## Illustration

A
IXyèyà
mòlêlì
èkéké
wèwర̀wà
"advice"
"teacher"
"empty"
"prison"

Iǔle
Iìk
njùnjì
káyè
"to subtract"
"to cut down"
"whale"
"disorder"

| ךmèठ | "egg" | $j \grave{k}$ ¢ | "truth" |
| :---: | :---: | :---: | :---: |
| ètòk 6 | "sweat" |  | "peace" |
| èwర18 | "work" | tônde | "flood" |
| wètàtò | "anger" | ह̀ yò | "laugh" |
| mèk 6 k ठ | "sugar canes" | jònds | "ring" |
| ewokí | "morlar" |  |  |

In data $A$ we notice that $£, \underline{0}$, cowoccur with each other and with thenselves to the exclusion of $\underline{\varepsilon}, \underline{2}$. In data $B, \underline{\varepsilon}$, $\underline{O}$ also behave in the same manner. One may be led to postulate two harmonic sets of vowels for mokpwe.

A pertinent point which we must regard before establishing vowel harmony is the relation between roots and affixes (prefixes and suffixes) of nouns and verbs.

## Nouns

Prefixes Roots Gloss

| mò - wèkèli | "creator" |
| :--- | :--- |
| mò - lelì | "teacher" |
| mó - lánà | "woman" |
| mù - nyánà | "husband" |
| é - wòlo | "work" |
| è - wàkà | "chimpanzee" |
| wà - kálá | "luropeans" |
| lì - wל̀wè | "spider" |
| lì - yái | "stone" |
| li - wàtù | "cloth" |
| mè - kòmba | "guns" |
| mè - â | "hoes" |

Nouns contd.
Prefixes Roots
G1oss

| lì - wàwè | "wing" |
| :--- | :--- | :--- |
| mà - wèndi | "knives" |
| wè - lùkà | "bottles" |
| we - wòní | "cartridges" |

## Verbs

| Prefizes | Roots | Gloss |
| :---: | :---: | :---: |
| İ | - Iia | "to sit down" |
| 11 | - mě | "to swallow" |
| 1i | - tómbà | "to advance" |
| 11 | - turta | "to sweep" |
| 1i | - 18 | "to be nice" |
| li | - bále | "to lend" |
| 1 i | -- wèká | "to create" |
| 1 i | - $\mathrm{k} \hat{\varepsilon}$ | "to cut" |
| 1 i | - k513 | "to sew" |
| 1 I | - inda | "to be black" |
| 1 | - àndá | "to buy" |
| Ii | -lâ | "to eat" |
| Iè | - méà | "to agree with" |
| 13 | - kékà | "to prevent" |
| 11 | - kpâ | "to fail" |

From the above data, we still notice that when either pair of vowels $\underline{e}, \underline{Q}$ and $\underline{\varepsilon}, \underline{\sim}$ occur in the prefix or root of a word it imnediately excludes the occurrence of the other pair. Thus each of the pair of vowels co-occur with each



```
as in (II).
I
\begin{tabular}{ll} 
A & B \\
\(i\) & \(i\) \\
\(u\) & \(u\) \\
\(e\) & \(\varepsilon\) \\
0 & 0 \\
\(a\) & \(a\)
\end{tabular}
\begin{tabular}{cccc} 
II & \(\underline{B}\) & \(\underline{C}\) \\
& \(e\) & \(\varepsilon\) & \(i\)
\end{tabular}
\(0 \quad 0 \quad\)\begin{tabular}{l}
\(u\) \\
\(a\)
\end{tabular} + ATR - ATR MEUTRAL
```

Whichever the case, it is claimed that vowels $\underline{i}, \underline{u}, \underline{a}$ are ambivalent with respect to vowel harmony.

## CHAPTER THREE

## INTERPRETATION PROBLEMS

In most languages there is the existance of a certain number of sounds which are likely to have different interpretations according to the structure of the language in question. In the course of analysing a language one comes across such cases which can only be interpreted following the internal organisation of the language under study. Here are some of the ambiguous cases which we encountered in the course of analysis.

Firstly we encountered sounds which can be interpreted as vowels or consonants. Secondly sounds that are open to syllabic or non-syllabic interpretation. Thirdly those that can be interpreted as being made of a single unit or a sequence of two or even more units. Finally those that can be considered as phonemic or not.

### 3.1 VOWELS/CONSONANTS

Here we will consider sounds that are likely to be interpreted as vowels in some situation or as consonants in others. These will include sounds which possess at the same time characteristics that are appropriate to vowels and those that are appropriate to consonants. It therefore involves a case of using one symbol which can stand for two soparate classes of sounds dopending on the context of occurence. Such sounds include the high vowels $\underline{i}$ and $\underline{u}$ as well as the glides $y$ and $w$. Since these vowels are
produced with the position of the tongue being high, they are phonetically similar to the palatal and labio-velar glides $\underset{y}{ }$ and $\underline{w}$, which are also articulated in a similar manner. Therefore in language analysis a $y$ can be considered as occupying the vowel (V) position in some cases and/or consonant (C) position in other cases. The issue here is that they can be underlying vowels but surface glides.

Mokpwe, like many other languages contains these four sounds. Taking into consideration less complicated data in the language we realise that the structure of Mokpwe does permit a $W V$ sequence where the $V_{1}$ is of a different quality from $V_{2}$ but any non-syllabic element at syllable onset in every unsuspicious instance is consonant. Therefore words like:

| wàná | "mouth" |
| :--- | :--- |
| wómà | "drunk" |
| wowé | "medicine" |
| ySki | "ointment" |
| yàli | "leaf" |
| yðmà | "abcess" |

will be interpreted as having the structure CVCV and not VVCV. That is to say, where $y$ or $w$ is neither preceeded nor followed by consonants, they will be regarded as sounds with the full characteristics of consonants or semi-consonants and not vowels.

### 3.2 SOUND SEQUENCES

In languages, there often exist sound units which are either interpretable as single sound units or sequences of two or more sounds. Such instances involve both consonants and vowels where two sounds with different qualities are interpreted in some languages as single complex sound segments and in others as separate sound units.

### 3.2.1 Vowel sequences

In Molspwe we have the W sequence. We interprete this sequence as either $V_{1} V_{1}$ or $V_{1} V_{2}$. In the analysis of such sequences they are considered as the syllables for the following reasons:

- the sequence VV are of a longer duration than a single vowel.
- the possible combination of vowels in the CVCV structures are also found in the CVV structures.
- each vowel of the sequence VV carries a tone, often with different tones on each vowel.
- all the tonal schemes that we find in the CVOV structure low-high, high-low, low-low, high-high can also be found in the structure CVV.


## Illustration

| CVV | Gloss | CVCV | Gloss |
| :--- | :--- | :--- | :--- |
| mbèa | "pipe" | yall | "leaf" |
| ngòá | "pig." | wòwe | "tree" |
| mbà̀ | "village" | kúlù | "tortoise" |
| mbuà | "rain" | wSlo | "canoe" |
| njàò | "hunger" | jゝkè | "tmuth" |

From the above data we are able to observe, the fact that each vowel carries a tone, and also the possibility of having the same tonal scheme in CVV and CVCV structures. All these go to justify the fact that the VV sequence should be interpreted as comprising two syllables.

Another important point we have to resolve is whether the VV sequence can be interpreted as comprising of a se sequence of sound or a single sound unit.

In cases where we have the sequence $V_{1} V_{1}$ it is interpretable as a single sound unit, because such instances are cases of vowel lengthening. When the $V_{l}$ is different from the $V 2$, that is if we have the structure $V_{1} V_{2}$, it is analysable as comprising two sound sequences. Thus the vowels we have in the data above constitute a sequence of two sounds.

### 3.2.2 Consonant sequences

The following sets of consonants clusters in which the $\mathrm{Cl}_{1}$ is different from $\mathrm{C}_{2}$ have been attested in Mokpwe. These consonants include $\mathrm{kp}, \mathrm{jg}, \mathrm{gb}$, ggb , and hw . In the
course of analysis each of these sounds is regarded as a single sound unit and not as a sequence of two or more sounds. The following data exemplifies the cases.

| mòkpèò | "scabies" |
| :---: | :---: |
| İıkpa | "bag" |
| làgbá | "to climb" |
| İ̀h331E | "to pour" |
| lìhzómà | "to peck" |
| ngbâ | "dog" |
| ngot | "pig" |

From the above data we can postulate the following words structures:

$$
\begin{array}{ll}
\not \not / C V-C V-V \not / / & \text { (first word) } \\
\neq / C V-C V \neq / & \text { (second and third word) } \\
\neq / C V-C V-C V \neq / & \text { (fourth and fifth word) }
\end{array}
$$

Our main concern here is with the consonant of the second syllable of the word. We may assume that the consonants in this position will be 3 , $g$ and $h$. However, from the previous analysis that we have done in Mokpwe there is the realisation that these consonants are not attested in the langrage. If we say that they constitute a sequence of two sounds (kp, gb, ngb) it means that we are postulating the existance of the structure CV.CCV for the first word in the data above. This would be improbable because the structure of the language does not allow a CC sequence.

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Therefore we will have the following CV-CV-V for the word mokped. As such the other remaining sound in the second syllables in the above data will be reguarded as comprising of single sound units.

### 3.3 HOMORGANIC NASALTZ ATION

It is often the case in some African languages that words or syllables begin with a nasal followed by a nonnasal consonant such as stops, affricates or fricatives. In most of such cases the nasal and following consonant are hormoganic that is having the same point of articulation. So far as, such sounds are concerned it is important to determine whether they are single or separate sound units. This situation varies from language to languege because in some languages it maybe a case of consonant prenasalization and in others a case of homorganic nasalization. In situations where such sound sequences are considered as separate units, the preceeding nasal often bears a tone and the two homorganic nasals are realised in two separate syllables. This is not the case in Mokpwe. Therefore the sequence of a nasal consonant followed by an oral consonant in Mokpwe is homorganic. Thus the following words in Mokpwe will have the structure CV-CV and not CCV.CV.

| mbaki | CVCV | "cloud" |
| :--- | :--- | :--- |
| mbòkò | CVCV | "chair" |
| mbrké | CVCV | "mute" |
| naskठ | CVCV | "sweet potato" |


| ndáò | CVCV | "house" |
| :--- | :--- | :--- |
| ndsts | CVCV | "dream" |
| ngilà | CVCV | "lion" |
| ngàndà | CVCV | "medicine man" |
| njùwi | CVCV | "hook" |
| njénje | CVCV | "thorn" |
| njjkù | CVCV | "elephant" |

### 3.4 HLTEROGANIC SEQUHUCLS

A heteroganic sound is one produced with the superimposition of a secondary articulation. It often involves consonants produced wi.th an accompanying vowel articulation. Such cases include labialization, palatalization and aspiration. The occurrence of such sounds are rare in Mokpwe. We do find certain cases of labialization but they are very limited in number.

### 3.4.1 Labialized consonants

Generally labialization consists of rounding the lips during the production of a sound segment, just as for a rounded vowel. This process occurs only with the voiced bilabial stop $\underline{b}$ in Nokpwe. It will appear that this consonant sound is labialized through a process of glide formation. It is likely that the consonants which are labialized at the surface level occur in a context at deep structure where they preceed two consecutive vowels of different qualities. The first vowel being the high back
rounded vowel. y. In other words the underlying word structure is CVV(C) in which it is realized in the surface level as CWV (c). A rule for this process can be stated as such: $/ \mathrm{u} /-L^{-}+/ /-V$.

It is more logical to term this a situation of glide formation and not labialization because the contexts of the occurrence of the labialized consonants are not natural enough for any labialization process to take place. We would have expected the labialized consonants to precede back vowels for the process to be predictable, but this is not the case since these consonants precede both back and front vowels.

## Illustration

$$
\begin{array}{lll}
\text { / buango / --- Lbwágò_7 } & \text { "to take care of" } \\
/ \text { buitako / --- Lowítàkò_7, } & \text { "swelling" } \\
\text { / ilibuani / --- [ilibwànì }] & \text { "key" }
\end{array}
$$

Another pertinent situation of glide formation that we found in Mokpwe is that of a transitional glide insertion. This occurs in cases where we have two contiguous sequences of back vowels, where at the phonctic level there is the insertion of $\underline{w}$ or $y$ which is a glide. At the phonological level this is not realisable.

$$
\begin{aligned}
& \text { L-mbowà } \dagger \text {--- / mboà / "village" } \\
& \text { L"ygowa_ --- / ngбà / "pig" } \\
& \text { Lnjàwó }] \text {--- / njàò / "hunger" }
\end{aligned}
$$

From this data we can postulate the following rule:

$$
\phi \rightarrow-\quad w /\left[\begin{array}{l}
+\mathrm{syll} \\
+\mathrm{back}
\end{array}\right]-\left[\begin{array}{l}
+\mathrm{syll} \\
+\mathrm{back}
\end{array}\right]
$$

Furthermore in cases where the first vowel in the contiguous sequence is a front vowel followed by another vowel, there is the transitional insertion of the high front glide I.

## Illustration

$$
\begin{aligned}
& \text { [-mokpè }{ }^{3} \text { _] --_ / mòkpèò / "scabies" } \\
& \text { [lihzè敬] - - / Iihzéa / "to repair" } \\
& \text { [lomèyà] --- / lémêà / "to agree" } \\
& \text { [Iitéyà] --- / Iitéa / "to be red" }
\end{aligned}
$$

From the above data we have the following rule:

$$
\emptyset-\cdots \mathrm{y} /\left[\begin{array}{l}
+\mathrm{syl} \\
-\mathrm{back}
\end{array}\right]-[+s y l l]
$$

### 3.4.2 Long vowels

In Mokpwe all the vowels are capable of being modified through lengthening. This phenomenon is found both in verbs and nouns. The vowels we have in Mokpwe are: i, e, $\varepsilon, a, u, o$ and $\circ$.

## Illustration

| lùutù | "rubbish" |
| :--- | :--- |
| mìità | "stems" |
| ì́ja | "pus" |
| èémbe | "domestic animal" |


| mèenzè | "beaks" |
| :---: | :---: |
| દ̇દ̀mè | "habit" |
| 1émbè | "to blow one's nose" |
| wèkáàndo | "coal" |
| mưùli | "storm" |
| njùùwè | "hyena" |
| mòolı | "mountain" |
| 18\%ne | "to plant" |
| mỏ̇lí | "rope" |
| woे3mbs | "sugar" |

The crucial question is, are they long vowels considered as single sounds or as two separate sounds. We have earlier argued that the VV sequence belongs to two different syllables, if the $V_{1}$ is different from the $V_{2}$. This is not the case with long vowels, because they are realised within the same syllable. As such the long vowels are not two separate sounds of the same quality, but single sound units. Thus, the phonetic situation may be realized as such VV -- V:

## Illustration

$$
\begin{aligned}
& \text { / mìtà / }-\rightarrow \text { [mìtà] "stems" }
\end{aligned}
$$

$$
\begin{aligned}
& \text { / mùǹli / - } \rightarrow \text { mù:lì_7 "storm" }
\end{aligned}
$$

In sum this chapter has been based in the interpretation of ambiguous sound segments in Mokpwe and emphasis has been laid on the fact that the structural pattern of the language does not permit a CC sequence. We also discover the oriatemen of $n$ VV sequence in the language.

## CHAPTER 4

## SYLLABLE, MORPHEME AND WORD STRUCTURE

After we have identified and defined the phonemes in Mokpwe it is now necessary for us to examine in detail the syllable, morpheme and word structures existing in the language. This is important because a detail analysis of the patterns and phoneme distribution will help us to review and confirm the conclusions arrived at during the interpretation of ambiguous sound segments.

### 4.1 SYLIABIE STKUCTURE

Linguists have not found it at all easy to say what a syllable is and there are many arguments about.how it should be defined. Abercrombie (1967) defines a syllable by using a theory which explains the syllable in terms of pulmonic airstream mechanism. This theory maintains that when the pulmonic airstream mechanism is in action, the respiratory muscles alternately contract and relax at a rate of roughly five times per second, so that the air is expelled in a succession of small puffs. This constitutes the basis of a syllable.

Wiesemann, Sadembouo and Tadadjeu (1983) have this to say about the syllable:

- on peut definir la syllabe dans une langue par le noyau (qui peut être une voyelle ou une consonne syllabique).
- on peut la definir par le ton qu'elle porte.
- on peut la definir par la duré d'emission de la sequence de son.

The analysis in this study leads us to the conclusion that a syllable in this language has a nucleus $V$ which bears a tone.

In Mokpwe each syllable pattern has an obligatory syllable peak or nucleus. There is also an optional element which functions as the onset. The canonical form of the syllable structure in Mokpwe is:
(C) V

In the language there are some syllables that are made up of the nucleus alone and such cases have no accompanying consonant element. In Mokpwe $i, e, \varepsilon$ and $o$ car stand alone as syllables. Some syllables contain the essential peak with a preceeding or proceeding consonant. There are no close syllables in the language due to the absence of consonants at the coda position.

The general syllable pattern in Mokpwe which are attested in both root words and affixes are summarised below:

| SYLLABLE PATTERN | ILLUSTRATION | GLOSS | WORD PATTERN |
| :---: | :---: | :---: | :---: |
| V. | 6 | "to" | V |
|  | è-kàkà | "mat" | V-CV.cV |
|  | $\varepsilon-y \bigcirc 1 \varepsilon$ | "peace" | V-CV.CV |
|  | è-tò | "rat" | V-CV |
|  | è-yé | "stick" | V-CV |
|  | ì-h3ila | "punch" | V-CV.cV |
| CV | พहิ | "catfish" | CV |
|  | kJ | "snail" | CV |
|  | ¢¢ | "viper" | CV |
|  | pû | "human body" | CV |
|  | mò-tò | "person" | $\mathrm{CV}-\mathrm{CV}$ |
|  | jgbá | "dog" | CV |
|  | nma | "hoe" | CV |
|  | wû | "night" | CV |
|  | mà-tô | "deafness" | CV-CV |
| CV-CV | nàmà | "animal" | CV-CV |
|  | ndsts | "dream" | CV-CV |
|  | tSndè | "flood" | CV-CV |
|  | mbéndá | "law" | CV-CV |
|  | nd 616 | "love" | CV-CV |
|  | njôkù | "elephant" | CV-CV |
|  | mbàkì | "cloud" | CV-CV |

There are no complex syllable patterns like the CCV or CCCV that we find in English or French in the language, "homorganic consonants are realised as single sound units and not a sequence of sounds.

The most predominant syllable pattern is the CV pattern which occurs in prefixes, verb roots, and noun roots. All the syllable patterns that we have in the language are attestable in verb and noun roots.

### 4.2 MORPHEME STRUCTURE

John Lyons (1968) defines the morpheme as the minimal unit of grammatical analysis - the units of "lowest" rank out of which words, the units of next "highest" rank are composed. This is the definition that we are going to adopt.

There is a pertinent similarity between the morpheme and the syllable. Just like the syllable, the morpheme is comprised of a sound or a sequence of sounds, some of which can be assigned full lexical meaning.

Due to the above mentioned similarity between the morpheme and the syllable, we have indirectly treated the morpheme under syllable structure. As such our main concern in this section will be the distribution of vowel and consonant phonemes in the various morpheme structure, taking into consideration only roots and affixes.

The morpheme patterns which have been identified in the language is reduceable to:

mest cases tirese prefixes mark the sineuian or painal iorm of nouns. In Mokpwe the $V$ prefix include $e, \underline{\varepsilon}$ and $\underline{i}$ which are markers of the class to which a noun belongs while the $N$ structure comprises the nasal sounds that we find in the language. The CV structure comprises mostly the prefixes $\mathrm{mu}, \mathrm{mo}$, wa, me, li, yo and wo which often function in singular/plural formation.

| Word | Gloss | Prefix/root structure |
| :---: | :---: | :---: |
| 1-ndáwò | "houses" | $\mathrm{V}-\mathrm{CV} . \mathrm{CV}$ |
| è-kàkà | "mat" | V-cv.cv |
| mò-to | "person" | CV-CV |
| 1i-wS | "neck" | $\mathrm{CV}-\mathrm{CV}$ |
| mà--kómbà | "forests" | CV_CV.CV |
| $n=d 616$ | "love" | N-CV.CV |
| m-bendà | "law" | N:CV.CV |
| $n-j>k u$ | "elephant" | NHCV.CV |
| j-6ทEర | "pot" | $\mathrm{C-V} . \mathrm{CV}$ |
| j-ondo | "ring" | C-V.cV. |

We have been discussing the morpheme structures that are attested in prefix morphemes. In the course of this analysis we noted that one cannot actually be treated separately from the other. That is to say when we are treating the prefix morphemes, root morphemes always come into consideration. From the morpheme structure we realise that the consonants $m, w, 1, y$ and $j$, occur at word initial position. The rest of the consonants occur in root morphemes.

### 4.3 WORD STRUCTURE

Generally in the discussion of the word or the morpheme we are faced with the difficulty that whichever one we take first, we must presuppose some knowledge of the other. The difference between the word and the morpheme is that words do have full lexical meanings attached to them, whereas morphemes do not necessarily have full lexical meanings. Furthermore words are generally larger than morphemes and consist of roots and affixes whereas morphemes can be made up of only one of these word components.

The following patterns emerge from the words of the language:

These patterns illustrate that the language has monosyllabic, dissylabic and trisyllabic words.

## Illustration

Mono-syllabic words

CV

| ndà "cocoyam" | w仑े | "catfish" |  |
| :--- | :--- | :--- | :--- |
| wò | "honey" | $\emptyset \hat{\varepsilon}$ | "viper" |
| ngbâ | "dog" | sô | "spit" |

## Dissyllabic words

## CV-V



Trisyllabic
$\mathrm{V}-\mathrm{CV}-\mathrm{CV}$

| ètùmbè | "unripe" |  | iwòng6 | "box" |
| :---: | :---: | :---: | :---: | :---: |
| èwulle | "grass" |  | Itámbi | "shoe" |
| indáwò | "houses" | $i$. | èkéké | "empty" |
| \& ysic | "peace" |  | ètòkó | "sweat" |
| ìh3ilà | "punch" |  | èwరి16 | "work" |

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## $\mathrm{CV}-\mathrm{V}-\mathrm{CV}$

| 1ingbà | "to steal" | njưuิพย | "hyena" |
| :---: | :---: | :---: | :---: |
| lứmbà | "to cork" | màว̀mbऽ | "nasal mucus" |
| 1èéyà | "to besharp" | màìja | "blood" |
| W33 mbs | "sugar" | mèembà | "corpses" |
| lęEne | "to shine" | m3ิ̀ ${ }^{\text {c }}$ | "rope" |
| 18ónà | "to sow" |  |  |


| m61ánà | "woman" | 11すà | "broom" |
| :---: | :---: | :---: | :---: |
| móómbá | "nose" | Iikokà | "to bite" |
| 13 ngele | "to remember" | wètàtò | "anger" |
| yònゝेní | "birds" | mèk 6 k $\sigma$ | "sugar cane" |
| yòlùkù | "rooms" |  |  |

## $\mathrm{CV}-\mathrm{CV}-\mathrm{V}$

| mbànjòa | "ribs" | litéa | "to be red" |
| :--- | :--- | :--- | :--- |
| mokpèo | "scabies" | likpéa | "to enter" |
| lihzèá | "to repair" | lìmбà | "to rise" |
| lémèà | "to agree" |  |  |

Most often words with the quadrisyllabic and pentasyllabic structures are usually composite words. In Mokpwe we have this same situation. But in any case we do find some few words with four syllables that are not formed from composition in Mokpwe.

## Example:

| wèkáàndo | CV-CV-V-CV | "coals" |
| :--- | :--- | :--- |
| likàtówa | CV-CV-CV-CV | "to nibble" |

The following words which have a quadrisyllabic and pentasyllabic word structures are found in Mokpwe．They cannot be regarded as single words because of their com－ posite nature．

## Illustration

| likáihzè | ＂to judge＂ | mokáinzeli | ＂judge＂ |
| :---: | :---: | :---: | :---: |
| IEnde | ＂to travel＂ | wàendèlè | ＂travellers＂ |
| 1ıพยทย | ＂to own＂ | mอे พยneli | ＂owner＂ |
| líh3ò ygo | ＂hunting＂ | mòh3ò ngòh3òngò | ＂hunter＂ |
| liwèká | ＂to create＂ | mòwèkèlì | ＂creator＂ |

The words in the second column of the above data have been derived from the verbs in the first column．In giving the literal translation of the words in the second column，we will see how they have been derived．

```
mo - kaihzèli
"person who judges"
wà - हndèli
"persons who travel"
mゝे - WE゙nと̀li
"person who owns"
```

From the above data we can conclude that words with more than four syllables are derived from the stem of a verb and the addition of a suffix．

Combination of consonants in $\mathrm{C}_{1} \mathrm{~V} \mathrm{C}_{2} \mathrm{~V}$


This table below illustrates the possible combination of vowels in lexical units of the structure CVCV and CVV.
i) in CVCV

|  | CVCV | i | e | $\varepsilon$ | a | u | 0 | 0 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| CVCV |  |  |  |  |  |  |  |  |
| i |  | $+$ | + | + | + | + | + | + |
| e |  |  | + | + | $+$ |  |  |  |
| $\varepsilon$ |  | + |  | + |  |  |  |  |
| a |  | + |  | + | + |  | + |  |
| u |  |  |  | $+$ | $+$ | + |  |  |
| $\bigcirc$ |  | + | $+$ |  | $+$ |  | $+$ |  |
| 0 |  | + |  | $+$ | $+$ | $+$ |  | + |

TABLE 8
ii) in CV-V

|  | CVV- | i | e | $\varepsilon$ | a | u | - | 0 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| CVV |  |  |  |  |  |  |  |  |
| $i$ |  |  |  |  | + |  |  |  |
| e |  |  |  |  | $+$ |  | $+$ |  |
| $\varepsilon$ |  |  |  |  |  |  |  |  |
| a |  |  |  |  | $+$ |  | + |  |
| u |  | + |  |  | + | + |  |  |
| ? |  |  |  |  | + |  |  |  |
| 0 |  |  |  |  |  |  |  |  |

TABIE 9

### 4.4 PHONEME DISTRIBUTION IN ROOT NORPHEME

In this section we are going to examine the positions of the morpheme that each phoneme can occupy.

### 4.4.1 Vowels

In monosyllabic root morphemes of the form CV we have a wide range of consonants and vowels that can occupy these positions. (See section 4.3.)

In the case of the other syllable root structures all the vowels are capable of appearing in any of the $V$ positions. We can therefore say that vowel distribution in Mokpwe is not very restricted.

### 4.4.2 Consonant Distribution

As earlier mentioned only very few consonants in Mokpwe, do not occur in initial position. These include the voiced bilabial fricative / B/ and alvoelar nasal /n/ Table seven deals with the distribution of consonants in morphemes.

- The first column deals with consonants at word initial position.
- The second column deals with consonants at prefix initial position.
- Column three deals with consonants appearing intervocalically.
- And finally, the column deals with consonants that appear at final position of morphemes.

$$
-64-
$$

|  | \#- | \# - | V-V | - \# |
| :---: | :---: | :---: | :---: | :---: |
| p | + | - | - | - |
| b | - | - | + | - |
| ¢ | + | - | + | - |
| B | + | - | + | - |
| m | + | + | + | - |
| mb | + | + | + | - |
| t | + | - | + | - |
| n | - | + | + | - |
| nd | + | - | + | - |
| 1 | + | + | + | - |
| j | + | + | + | - |
| $\cdots$ |  | - |  |  |
| nj | + | + | + | - |
| n | + | + | + | - |
| y | + | + | + | - |
| kp | + | - | + | - |
| gb | + | - | + | - |
| w | + | + | + | - |
| hw | + | - | + | - |

We can draw the following conclusions from this table: most of the consonants in the language can occur at the intervocalic position, only $n$ does not occur at the initial position of the word. It has a restricted position of occurrence. Those consonants which occur at prefix morpheme initial position have two positions of occurrence in the morpheme as a whole. That is to say they can only occur at the initial and medial position of words since the language does not have consonants at the final position.

## CHAPTER FIVE

## SUPRASEGHENTAL PHONOLOGY

Suprasegmental phonological analysis is not based on segmentation and classification of the segments as phonemic analysis, but is an analysis in which explicit recognition is given to features that are non-segmental or syntagmatic. These prosodic features include stress, tone and duration (vowel and consonant length) etc.

Wiesemann et al (1983) define prosody as:
l'ensemble des phenomènes de hauteur musicale d'intensité et de durée qui accompagnent la parole. Ces phénomènes constituent généralement des sous systèmes indépendants des systèmes segmentaux et ils caracterisent des sequences de sons, c'est-à-dire des unités plus étendues que les segments minimaux.

These prosodic features have diatinctive and expressive functions all of which play a great role in the transmission of messages. In our subsequent discussion we are going to limit ourselves to the distinctive function of certain important features.

### 5.1 VOWEL LENGTH

In Mokpwe it is rather difficult to define the prosodic feature of vowel length as pertinent or not because of the existance of very few words in the language that show a contrast between long and short vowels. The following words indicate some of the contrast.

| lêtmbè | "to blow one's nose" | 1Embe | "to hold" |
| :---: | :---: | :---: | :---: |
| દ̇غ̀mè | "habit" | Emé | "debt" |
| mòolif | "mountain" | mòli | "wealth" |
| 13ゝ̀t3 | "to faint" | 15t3 | "weak" |

### 5.2 LONE

Tone has to do with distinctions of pitch in the flow of speech. There are pitch phenomena in all languages even non-tonal languages. To native speakers of tone languages tone is as a basic part of his speech as vowels and consonants.

According to Welmers (1973) a tone language is a language in which both pitch phonemes and segmental phonemes enter into the composition of at least some morphemes.

There are basically two tones in Mokpwe all of which are register tones. In register system, tonal contructs consist of different levils of steady pitch heights, that areperceptually distinct. Tones in such systems neither rise nor fall in their production. This relative height of the voice has a distinctive function in the language in that differences in pitch height may alone be responsible for differences in meaning.

### 5.2.1 Tone classes

As earlier said Mokpwe has two principal tones and a language with this number of tones has the following logically possible tone structures.

In monosyllabic words:

| L Low | wo | "honey" |
| :---: | :---: | :---: |
| H High | 6 | "at" |
|  |  | kJ |
|  |  | "snail" |

In dysyllabic words we have the following possibilities:

LI Low, low
LH Low, High
HH High, High
HL High, Low

Illustration of these combinations on disyllabic words:

| Combination | Word | Gloss |
| :---: | :---: | :---: |
| LI | Eys | "laugh" |
|  | lùmbà | "to stink (smell)" |
|  | mbòkò | "chair" |
|  | Đgàngo | "umbrella" |
|  | yòkpè | "dry season" |
| IH | tàmba | "hat" |
|  | wరेwe | "tree" |
|  | yàlí | "leaf" |
|  | jonjs | "mushroom" |
|  | jmàná | "proverb" |


| Combination | Word | Gloss |
| :---: | :---: | :---: |
| HH | Oák1 | "paddle" |
|  | mbsti | "dress" |
|  | muná | "flame" |
|  | Óndá | "weather" |
|  | mbênda | "law" |
| HL | ng61i | "belt" |
|  | kóndi | "bean" |
|  | mbândò | "tobacco" |
|  | mbరà | "village" |
|  | W513 | "canoe" |
| Possible tone combinations in tris |  |  |
| L L L Low Low Low |  |  |
| I H L Low High Low |  |  |
| L H H Low Low High |  |  |
| L H H Low High High |  |  |
| H H H High High High |  |  |
| H L H High Low High |  |  |
| H H L High High Low |  |  |
| H L L High Low Low |  |  |
| Illustration |  |  |
| Combination | Word | Glo |
| L I L | İtilà | "to |
|  | èlìngè | "ph |
|  | likèkà | "tr |
|  | wèwòwà | "pr |
|  | Iitònà | "mi |


| Combination | Word | Gloss |
| :---: | :---: | :---: |
| L H LI | 111.ángà | "to read" |
|  | 1itsow | "to quarrel" |
|  | yàwónò | "today" |
|  | likókà | "to bite" |
|  | lìwEyà | "to hear" |
| L L H | lìtitá | "to become wet" |
|  | èwùle | "grass" |
|  | ĖkJkJ | "branch" |
|  | mökòkó | "sugar cane" |
|  | lìàngé | "pineapple" |
| L H H | mòndéngé | "tribe" |
|  | mònzéa | "shout" |
|  | lìyswí | "fish hook" |
|  | lìyoki | "to fish" |
| Hi H H | ftámbi | "shoe" |
|  | ngskswi | "needle" |
|  | 11 kSh 31 | "bow" |
|  | 1engరwá | "to trade" |
| H L H | \mámbàlá | "cat" |
|  | ftưu | "rooms" |
| H H L | wưnánà | "male" |
|  | molánà | "woman" |
|  | wfolè | "bad luck." |
|  | múnánà | "man" |
|  | mínámì | "husband" |

Combination
HL L
lin $3^{3} \mathrm{yg} \mathrm{g}^{2}$
EBùßà
múhzìngà
1ưพèà

Gloss
"hunting"
"big rainy season"
"thread"
"to come from"

Tonal Glide
We have the rising and falling tones in Mokpwe. Their occurrence is not very frequent in the language.

$$
\widehat{\mathrm{LH}} \text { (Low-high, rising tone) }
$$

$\hat{H E}$ (High-low, falling tone)

Examples

- $\hat{H L}$ (falling tone) wîu "night"
ŋmâ "year"
- Low tone - falling tone ( $\mathrm{I} \mathrm{HI}_{1}$ )
lilô "voice"
lite "to shout"
- $\widehat{\mathrm{H}} \mathrm{H}$ (rising tone)
mb 8 "banana"
- IH I (rising tone - low tone)

1 Ymbì "to beg"
lakà "to pass"

### 5.2.2 Tonal Schemes

## Classification of tonal schemes

We are going to present the tonal schemes of lexical units comprising of one to three syllables according to their syllabic structure. Those with more than three syllables are most often cases of compounding, and as such do not present new tonal schemes.

| monosyllables | disyllables |
| :---: | :---: |
| ćt ( ${ }^{\text {( }}$ ) | ctov |
| cı̀ ( v ) | civ̀ |
|  | cúv̀ |
|  | civs |
|  | cred |
|  | cıvev̀ |
|  | ctucv |
|  | civev́ |
|  | vet |
|  | Geqú |
|  | v́cı̀ |
|  | vé |

trisyllables

| cı̀cv̀v̀ | vovic ${ }^{\text {a }}$ |
| :---: | :---: |
| cvevs | v̇cverú |
| ctativ | v̇cúcú |
| cucivis | v̀cúcì |
| cvicurv | Gev́cú |
| cviv̀cさ̀ | cı̀cı̀cı̀ |

trisyllables


### 5.2.3 Phonemic tone contrast

As earlier mentioned tone plays a great role in the distinction of meaning. We are going to illustrate how tone plays a role in meaning in the language.

| ŋmàna | "proverb" | ymánè | "child" |
| :---: | :---: | :---: | :---: |
| 13ts | "to be tired" | 15to | "weak" |
| ymed | "boundary" | ทmè 6 | "egg" |
| lets | "fever" | léti | "hard" |
| étò | "small" | ètò | "rat" |
| muiu | "elder" | mùlu | "breath" |
| lule | "to remove" | วư̇ย | "to subtract" |
| 1ates | "to swear" | late | "to sweep" |
| meá | "hoes" | mêa | "lava-flows". |
| 11à | "oil palm" | 11ィ | "had" |
| nmehze | "beak" | 万meh3e | "day time" |
| èèmbè | "corpse" | èembé | "domestic animal" |
| lîw | "neck" | lìw | "market" |

These distinctive tones do exist on nouns and verbs. They do vary from time to time due to various constraints
which we will be discussing later. The ability of these tones to distinguish vocabulary items earns them the appellation "lexical tones".

### 5.2.4 Lexical tones

A lexical tone is one that occurs on lexical items and plays the role of bringing out a difference in menning between the items. All the four tones in the language appear on lexical items. The illustration below comprises of monosyllabic words which carry high or low tones, disyllabic words which carry high, high-low, low, low-high and high-low.

## Monosyllabic words

L
ndà "cocoyam" wò "honey"

## Dissylabic words

| HH |  | L L |  |
| :---: | :---: | :---: | :---: |
| kSts | "fence" | mbàki | "cloud" |
| mưná | "flame" | njòk3 | "elephant" |
| mbsti | "dress" | ŋgilà | "lion" |
| H L |  | L H |  |
| kondi | "rice" | yàlı | "leaf" |
| kulu | "tortoise" | tàmbá | "hat" |
| พธ์ ${ }^{\text {c }}$ | "canoe" | wòwé | "tree" |

The above examples only indicate some of the combination of tones that can appear on lexical items. They do
not illustrate meaning in differentiation and are not intended to be exhaustive.

### 5.2.5 Functions of Lexical Tones

Lexical tones in Mokpwe mark difference in meaning between words of the same class that are identical at the segmental level. See section 5.2 .3 on phonemic tone contrast.

### 5.3 DOWNDRIFT

This is a type of tone lowering in which a sequence of homotones is affected. In Mokpwe when two high tones are separated by a low tone the second high tone is phonetically lower than the first. This phenomenon continues successively right to the end of the sentence.

1

- As a result of this there is a gradual
lowering of the basic high tone as one moves from the first to the last syllable.


## IIIustration

/ mòkc̀mbá wámé a molánà / -- / mò kòmbá wámá è molánà // "The woman's gun."

 "The man's sugar canes"

 "A pig does not dig for nothing."



### 5.4 AFFIXES AND TONES

In some languages affixes do bear tones but in some they do not. In certain cases when the affixes are brought into collocation with the root morphemes the affixes, especially those that carry no tone, derive their tones from those of the root morphemes by tone copying or polari-- zation.

In Mokpwe the nominal prefixes bear a low tone, even in cases where the root is monosyllabic.

Example

| mòtò | "person" | èkr | "locality" |
| :--- | :---: | :--- | :--- |
| lòká | "game" | lìws "neck" |  |
| jòkè | "truth" |  |  |

In nokpwe we discover that when the root of a word begins with a high tone, the tone of the prefix merges with that of the root, thus becoming high.

| Illustration | Prefixes Root |  | Gloss |
| :---: | :---: | :---: | :---: |
| molánà | $<$ | mò-6lánà | "woman" |
| yond 6 | $<$ | yò- $n$ ndo | "axe" |
| wánà | $<$ | wà-ánà | "mouth" |
| 1íyà | " | İ--1yà | "palm tree" |
| 1fmà | $<$ | 11-imà | "cheek" |
| wímà | $\checkmark$ | wà-úmà | "boabad" |
| Wof 13 | $<$ | W2-513 | "canoe" |

Fron this data we can postulate the following rule accounting for the high tones of the prefixes:

五
Thus we can say that the prefixes are apparently carrying the high tone of the vowel of the root.

At tines the two vowels (vowel of tho prefix and that of the root) do combine into a tonal glide (lownigh).

Example

$$
\begin{array}{llll}
\text { Iǎkà } & \text { "the past" } & \text { lǒywà } & \text { "murder" } \\
\text { mǎkpà } & \text { "bags" } & \text { lâpj̀te } & \text { "wish" } \\
\text { yornà } & \text { "abcess" } & &
\end{array}
$$

In Hokpwe we also realized that nominal suffixes do carry Low tones.

Example
Prefix Root Suffix

| mò - kainz - eli | "judge" |
| :--- | :--- |
| wà - end - èli | "traveller" |
| mò - wèk - èli | "creator" |
| mo - wén - eli | "owner" |

### 5.4.1 Syntactic tone

Register tones in isolation usually undergo a modification of one kind or the other when they are put into phrasal or sentencial constructions.

### 5.4.2 Tone on nominal constructions

A noun bearing a hich tone on the penultimate syllable and a low tone at the last syllable of a word, when followed by a possessive particle, the last tone of the word changes to a high tone.

## Illustration

$$
\begin{array}{ll}
\text { ymánà } & \text { "child" } \\
\text { nmáná wáhzu } & \text { "our chila" } \\
\text { nuáwo } & \text { "house" } \\
\text { ndáwઠ yáhzu } & \text { "our house" } \\
\text { mb́ba } & \text { "village" } \\
\text { mbóa yâhzú } & \text { "our villare" }
\end{array}
$$

In hokpwe we also noticed that when nouns are put in collocation with adjectives there is no tonal change on the nouns. The adjectives in the lampage do not influence
or condition the tones on the nouns as in other African lanpuages. In fokpwe when an adjective is put in collocation with nouns there is a concordial morpheme inserted before the adjective which has its own inherent tone.

## Illustrations

Adjectives

| ndènè | "big" |
| :--- | :--- |
| hzàli | "smalı" |
| téyà | "red" |
| wówé | "bad" |

molánà mómą̇nè
C
motò mo-h3àli
molsomba me-teya mbSt1 yà wơwé

## Nouns

| molánà | "woman" |
| :--- | :--- |
| mòto | "person" |
| mokomba | "gun" |
| mbsti | "clothes" |

"big woman"
"small person"
"black children"
"bat clothes"

### 5.4.3 Tone on verbs

In Hokpwe imperative verbs with monosyllabje roots usually bear the tone high-low (H L).

| $k \hat{\varepsilon}$ | "cut" | mê | "swallow" |
| :--- | :--- | :--- | :--- |
| lâ. | "eat" | $k p \hat{\varepsilon}$ | "fall" |
| nŷ | "drinls" | $\eta w a ̂$ | "die" |

In front of an object the low tone dissapears.
lá mòlelf: "eat the food"
nys màlíwà ! "drink the water"
ฤWé ndê : "die then"

Dissyllabic verbs do bear either a hjegh, low or low high tone on their first syllables:

## Example

| lảndá | "te buy". | Iutas | "to hide" |
| :---: | :---: | :---: | :---: |
| lènds | "to go" | Iakkà | "to pass" |
| lits | "to speak" | 13 mbs | "to bers" |
| Iikê | "to cut" | Iaxngà | "to count" |
| Iiby | "to rot" |  |  |

For the most part, the fondamental structure of a verb comprises of two syllables. from the original forms of verbs which can either be made up of one or two syllables, we can derive by suffixation a goor number of verbs with three or more syllables. As we earlier mentioned these suffixes generally bear a low tone.

In sum the rules of the tonal chances in the lanquage has not been quite exhaustive due to the limited time fac. tor. This area therefore constitutes an interesting area for further studies in the language.

## ALPHABGTP AND ORTHOGRAPIY

The establishment of a writing system of any language is a preliminary to its development and subsequent standardization. This last chapter has been dedicated to the establishment of a writing system for llokpwe. The working method used is adapted from Pike (1947) and Wiesemann (1983). The establiskment of the alphabet and the orthographic principles has taken into consideration the following: the ease of teaching and learning of the postulated symbols, its availability on a typewriter keyboard, native speakers intuition and simplicity.

## CHOICE OR GRAPHMES

CONSONANIS
The consonants present a lot of difficulty because of the existence of certain consonant sounds that are difficult to define and classify due to their complex nature. In the most part, the symbols used in the phonological anclysis will be used. When they are different, it is for the reasons noted below.

## The graphemes $f$ and $v$

Hormally the symbols representing these two raphemer: are $\Phi$ and $\beta$. If we take into consideration the fact that any person who mirft be interested in leamine to read and write the language would have been used to the graphemes
$f$ and $v$ rather than $\phi$ and $\beta$. This therefore makes it easy and convenient for the learners of the language. Moreso, the graphemes chosen are easy to come by on a typewriter.

## The graphemes ng, ny and ngb

The smbols representing these three graphemes are jg, $f$ and $\eta g b$ respectively. The above diagraphs have been postulated because of the familiarity of the symbols. Any native speaker interested in learning to read and write the language will find it strange if presented with the above symbols.

## The graphemes hz and nw

The symbols representing these graphemes are h3 and ym . These sounds are rather frequent in the language. Written material already existing in the language makes use of these symbols ( hz , nw). So it will be appropriate for social reasons to use the already existing symbols. Furthermore these sounds can be found on any typewriter.

## VOWELS

The vowels do not present an'y problem in the establishment of an orthography. It so happened that all the vowels that we find in Mokpwe are found in the Inglish language. As a result, there is no problem posed in the learning and writing process of a learner, because s/he is already familiar with the sounds.

## The Alphabet

After having done the phonological analysis of the language we now know the sounds existing in the language. With this knowledge we are able to propose the following alphabet for Hokpwe. The arrangenent and order is similar to trat of the linglish alphabet: $a, b, c, d, e, \varepsilon, f, i$, $j, k, L, m, n, 0, u, p, t, u, v, w, y$. In addition to these monographs, the language also has the followinf: diagraphs: kp, gb, hw, hz, nd, nj, ny, nw, ng, ngb, mb.

From this list one immediately realises that, some symbols which occurred as phonemes are absent and in their place we have different symbols that did not appear during the analysis. Below is a table containing the phoneme symbols, their orthographic counterparts and illustrative words.

| Phoneme Symbol | Alphabet grapheme | IIlustrating Word | English Gloss |
| :---: | :---: | :---: | :---: |
| a | a | anga | "there" |
| b | b | İbáce | "loan" |
| e | e | ekàkà | "mat" |
| $\varepsilon$ | $\varepsilon$ | ¢̀ yole | "peace" |
| $\Phi$ | f | f ¢ | "viper" |
| B | v | ¢̀vètú | "mouse" |
| gb | mb | m̧bàwá | "snake" |
| i | i | ítámb1 | "shoe" |
| j | j | jònj3 | "mushroom" |
| k | k | kémà | "monkey" |
| 1 | 1 | 1oka | "rabbit" |


| Phoneme Symbol | Alphabet grapheme | Illustrating Word | English Gloss |
| :---: | :---: | :---: | :---: |
| m | m | molánà | "woman" |
| mb | mb | mboli | "roat" |
| n | n | nángè | Hnow" |
| nd | nd | ndáwo | "house" |
| ng | ng | ngòa | "pig" |
| ngb | ngb | ngbâ | "dog" |
| nj | nj | njưưwe | "hyena" |
| nm | nw | nwánà | "child" |
| n | ny | nyàmà | "animal" |
| $\bigcirc$ | $\bigcirc$ | mòto | "person" |
| 0 | $\bigcirc$ | mò3ิ 1 ì | "rope" |
| p | $p$ | put | "kianey" |
| t | t | tàmbá | "hat" |
| w | w | wàná | "mouth" |
| hw | hw | hwánà | "children" |

## TONES

The symbol for marking tones (' and ') will be used in marking the various tones in llokpwe. The high tone which becomes very frequent in the language will not be marked on the words, when writing. See illustrative text, at the end of this chapter.

## Word Division

In working out the necessary details of word division in a lanquage we usually face a lot of problens. The reason for this is that many lexical and grammatical items
in a language usually undergo varying modifications like the deletion or insertion of sound units following the contexts in which they are put.

A very important principle that is very helpful in word division is that of Pike (1977). This principle states that morphemes are to be considered separate words if the two can be separated by a word. The following pair of morphemes will constitute two separate words for they can be separated by another noun complement.

| molánà mo ndènè | "big woman" |
| :--- | :--- |
| mèkòmbá mè ndènè | "big whitewoman" |
|  | "big gins" |
|  | "big black guns" |

In general therefore, adjectives in kejom will be written as separate words.

Another principle relating to word division is that if two morphemes can be separated such that each one can be collocated with quite a different morpheme giving birth to a new meaning, then those two morphemes will be considered as two separate words. Having this in mind the definite article $e$ will be separated from the nouns they designate.

IIIustrations
$\begin{array}{llll}\text { è mòtò not èmótò } & \text { "the person" } \\ \text { è molánà not èmolánà "the woman" }\end{array}$

Since the above morphemes can be separated into two words, it therefore froes to illustrate that each can be collocated with other morphemes such as ono and onco.

|  | .. $\% 6$ |
| :---: | :---: |
| $\operatorname{sen}$ mbt3 | "this zersor" |
| onge moti | "that person" |
| Ene nslunc | "this womm" |
| bogg mSlann | "that woman" |

Thus the two morphemes are going to be considered as separate words.

## ILLUSTRATIVE TEXT

The text below constitutes our illustration of some of the postulated alphabet graphemes and orthographic principles in lickpwe.

The text has been represented on three lines: the first line is phonemic, the second line is orthographical and the third line gives the word for word english equivalent. At the end of the text we are going to give the free translation in english.

```
/ gbìto /
    gbitò
    story
```

1) / njỏ nàmà kémà nà ikưlư / Njs nyàmà kemà nà ikulũ. Tiger, monkey and tortoise.
2) / winả wふ̉kf nj̧ pàmà á málémbè kémà nàmà á má a mbla/ Wunyà wỉko njs nyàmà a malembè kemà nyămà a ma a molà Day one tiger caught monkey said he would eat him
3) /rénà ņảnà á méné nánu hzł. á wótéyá litê méhzéyá/ kemà nyàmà a menc nanu hzi a woteya lité mehzeya Honkey saw this then started shouting.
4) /ménge méhzéyá mé múkà mátò mánbá ikuiu/ Henge mehzeya me mukà matò mamba ikulù Those shouting reached the ears of tortoise.
5) / ikưu ámujá hzf a ene njó nàmà ndí álémbí kémà nàmà Ikulù a maja hzi a ene njo nyamà ndi alembi kema nyamà Tortoise came then saw tiger holding monkey
6) /hzi a jowà kemà nàmà mámè émahwe onjsmi/ nzi a jowà kemà nyàmà munct emahwe enjomi then it asked monkey what is wrong.
7) /kémà pàmà n31 á owà fikúiù ámá/ kemà nyàmà nzi á owà ikulù ama Honkey then told tortoise that,
8) /njó fàmà ndi á molémbi á máhzá li mólà/ njs nyàmà ndi a molembi a mahza li molà tiger caught and said he will him eat
9) /fkuiù amene nánu $h_{3 i}$ á bwà njo nàmà á má fkulù a mene nanu hzi a owa njo nyàmà a ma Tortoise this saw then told tiger that if wéhzá limolà gbámù, wahza li molà gbamù you want to eat him well
10) / onmáģe 0á ormanu ágbee/ onmangbe Oao onmanyu a gbee you should throw him very far up let him climb.
11)/OLundá omá a máhzé hwekolks h3i á pma/ Olunda oma a maعhze hw\&koko hzi a nma On falling he will hit branches then dies.
11) /Eфóndá á má pmá té hzi ono koma omolà/ eĐonda a ma nna te hzi o mokoma o mo là when it is dead then you will him eat.
12) /njó nyàmà hzf ágbe á nà íkúlù ams hwe/ njo nyamà hzi a gbea nà ikulư a mo hwe Tiger then did as tortoise told him,
13) /ágbá kémà nàmà 008 onmánu áçbée/ a angba kemà nyàmà 000 onmanyu a gbee he threw monkey far up a tree to climb.
14) /kénà nàmà á nénde h3i a kèmè 6 hweksks/ kemà nyàmà a mende hzi a kéme o hwekoko Honkey went then hung on the branches,
15) /hzi áwotea líys évá/
hzf a wotea liys eya then he started laughing at,
16) /njz nàmà 6 má hzá hweni libié/
njs nyàmà o ma hza hweni libie
tiger that you do not have sense.
17) /njs pàmà ámá tátáná íkúlù h3í á owá njs nyàmà a ma tatana ikulù hzi a owa Tiger got annoyed with tortoise, then said
ámá mSndf á lémbé li là/
ama mondi a lembe li là
he will hin catch and eat.
18) /ठ làeทgơwe á hzEne ikulù $0 \varepsilon$ hzi á wotéa líhzángá/ 0 làengowe a hzene ikulù $0 \varepsilon$ hzi a wotea lihzanga, On turning he did not see tortoise, then he started growling about
19) / ̂́ wángà yâh E lí ahzá íkulù/ e wangà yahze li a hza ikulù the bush looking for tortoise.

## Free translation of the text

## A Folktale <br> The tiger, the monkey and the tortoise

2) One day the tiger caught the monkey and said he would eat him.
3) When the monkey heard this he started shouting.
4) This noise got to the ears of the tortoise.
5) When tortoise came, he saw the tiger holding the monkey,
6) he then asked the monkey what was wrong,
7) The monkey then told the tortoise that,
8) the tiger caught him and said, he was going to eat him.
9) On hearing this the tortoise told the tiger that if he wants to eat the monkey well,
10) he should throw him very far up on the trees and let him climb.
11) On falling he will hit the branches of the tree and die.
12) When the monkey has died, the tiger can then eat it.
13) The tiger did as the tortoise told him,
14) he threw the monkey far up a tree to climb.
15) The monkey then hung on the branches of the tree,
16) then started laughing at
17) the tiger that it has no sense.
18) The tiger got annoyed with the tortoise and said he was going to catch and eat him.
19) On turning, he did not see the tortoise, then he started growling about,
20) the bush looking for tortoise.

## COITCLUSION

The purpose of this dissertation is to make available some material which might be of interest in the description of our national languages. Though this study is of a tentative nature we hope that it might still be of interest to scholars who are interested in this field.

As earlier mentioned the field work on which this study is hased was done mostly in Buea. Our main objectives of the study were to study the sound system of Mokpwe, bringing out the distinctive sounds so as to set up a writing syster for the language.

Before achieving this goal we had to situate the Bakweri people in terms of their history, geographical location, and the socio-economic activities. The linguistic situation of the language was looked into, which consisted of its linguistic classification, its relationship with neighbouring languages and also the literature review. From then on, we proceeded towards the analysis of the data collected on the field. In the course of this analysis we encountered certain interpretation probloms which we discussed in chapter three. In a way we can term chapters two, three and four as the paradignatic section of the work, constitute
which then the first part of the work. Chapter four was based mainly on the sullable, the morpheme and the word structure. After the examination of the structure of the language we noticed that the structure of the language could permit a VV structure, even if the $\mathrm{V}_{1}$ is
different from the $V_{2}$, but not a CC sequence. That is to say no consonant clusters do exist in the language.

The last two chapters (5 and 6) can be texmed the syntagmatic part of the work. This is so because we are mainly concerned with the analysis of suprasegmental features of tone and vowel length. From this analysis we found out that hokpwe is a language with four tones (high, low, rising, and falling). The examples that we got illustrating vowel length in the language made it rather difficult for us to determine if vowel length was pertinent or not. The last chapter is an alphabet proposal.

A general observation that we discovered with the speakers of the language is their tondency of elicaling a vowel when it appears in a $V_{1} V_{2}$ sequence. Maybe this can be attributed to the principle of least effort. Consequantly in writing the language we have to pay great attention to such instances. For example we write liokt and l'oka "to play" and also lfánga and not l'ánga "tu count". Eesides these findings from the analysis that we have done on the language there still remain quite a good number of areas in the language which call for further studies. These areas include, tone, symtax and the tense system. We hope that this study will open up further gate ways into various areas of studies in Mokpwe.

Huch more should have been done in this paper but for the shortage of time, this is all what could be done. In any case, we hope that this work would have contributed something to the fiold of lineuistics.

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